

APPENDIX 1 MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

ALLIED PARK
BORDNER PARK
BRITTINGHAM PARK –
COMMUNITY GARDEN
COUNTRY GROVE PARK
WALDORF PARK
WEXFORD PARK

ALLIED PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

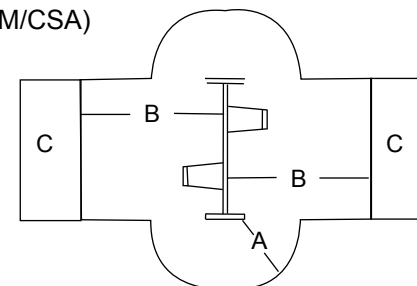
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

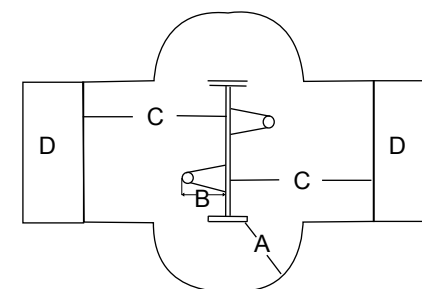
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

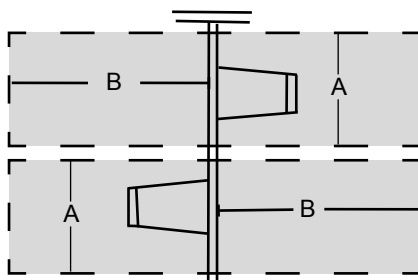
(EN)

• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

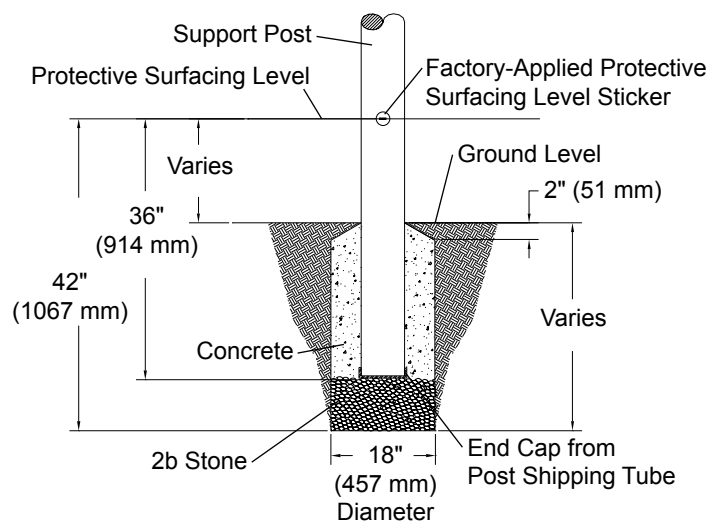
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

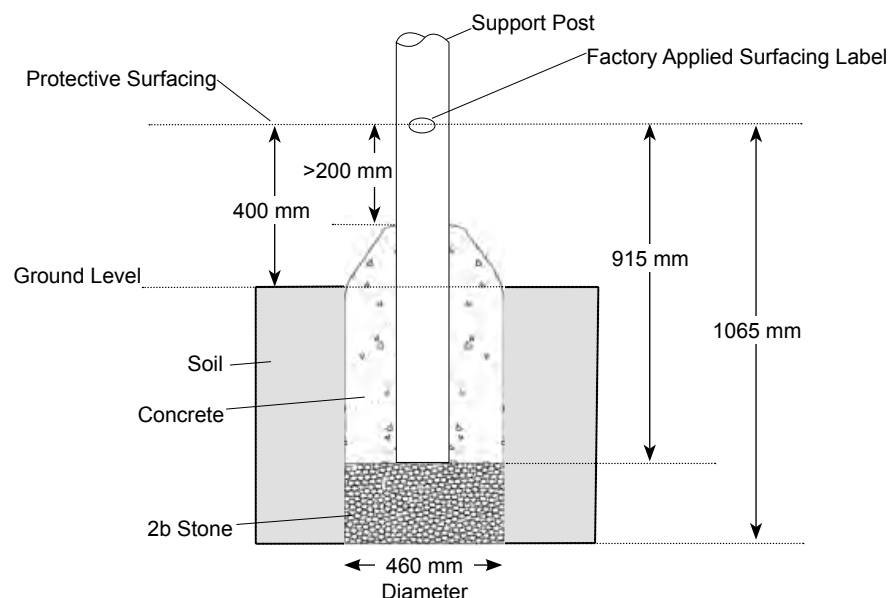
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Assembly View (representative model)

Installation Instructions

Playworld Systems® Model XX0287
 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
 8 ft. (2438 mm) Top Rail

Installation Preparation

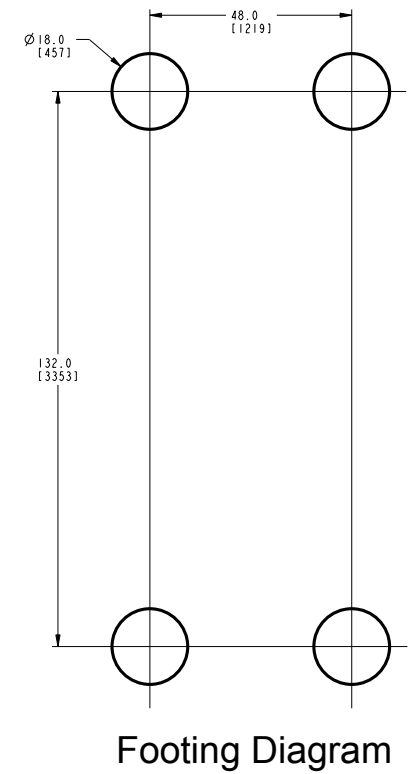
Recommended Crew: Four (4) adults
 Installation Time: 3 man-hours
 Concrete Required: 0.48 cubic yard (0,37 cubic meters)
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

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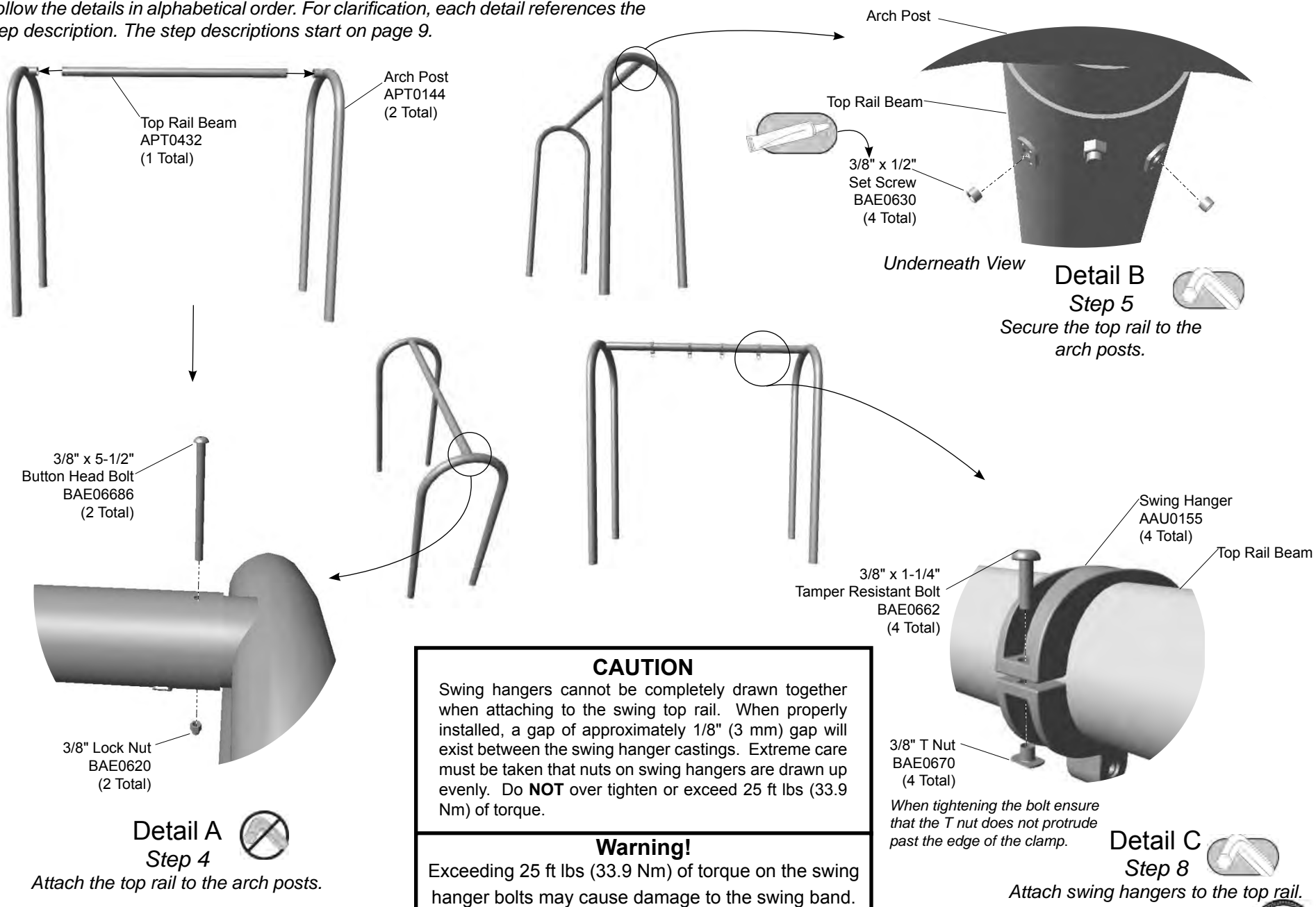
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

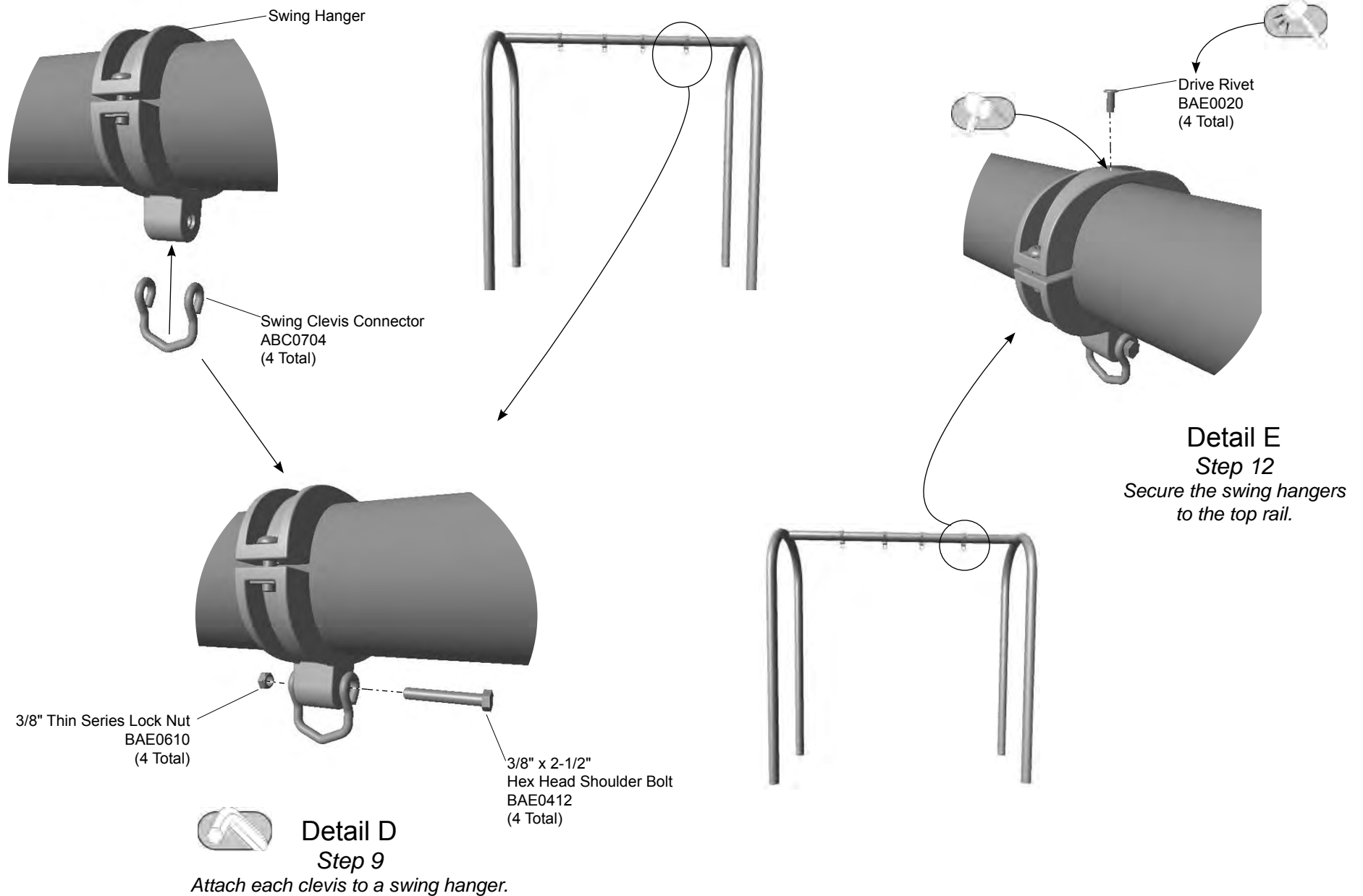


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.



XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133-1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1



The world needs play.

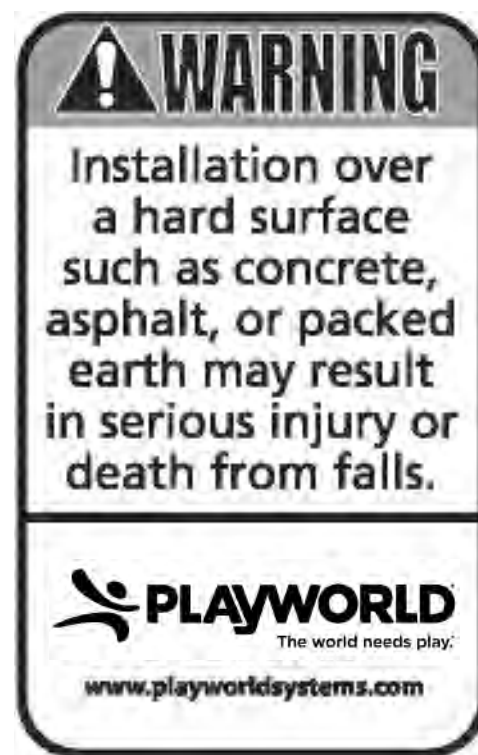
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.



The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__

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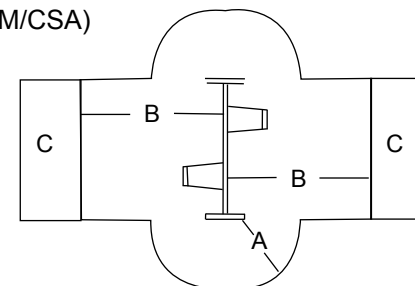
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(ASTM / CSA)

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Belt/Rigid Seat Swing Zones (ASTM/CSA)

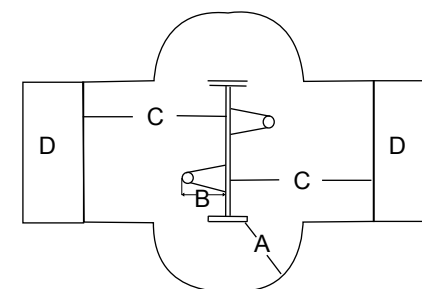
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72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

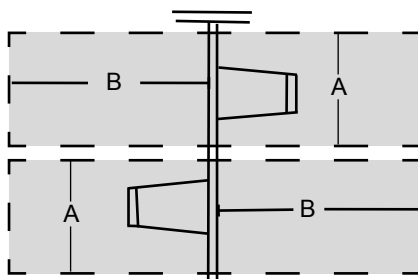
(EN)

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The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
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Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
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- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

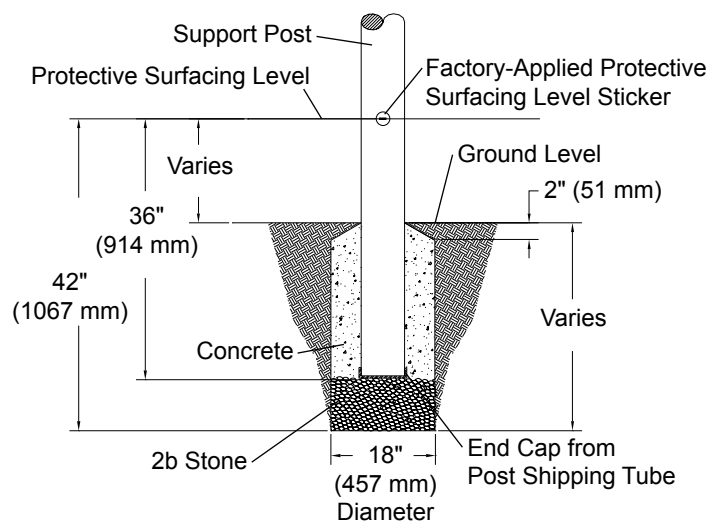
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

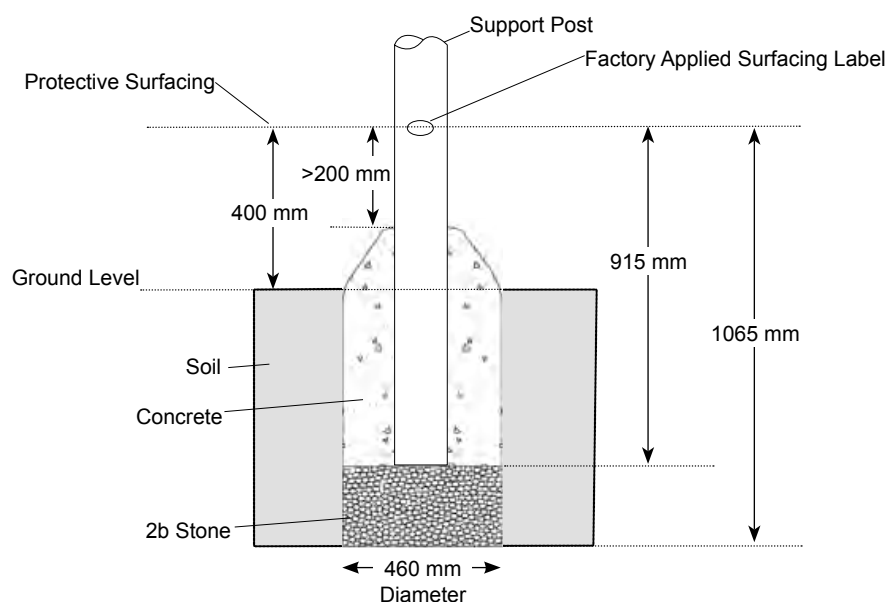
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



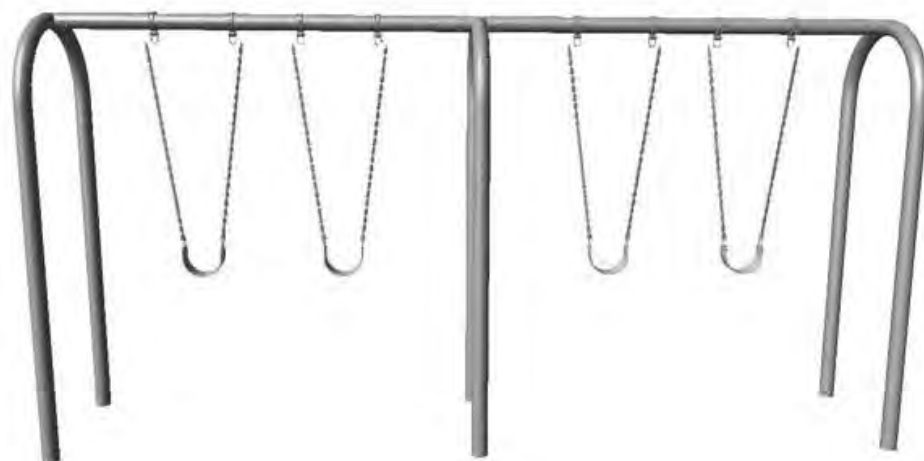
Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Assembly View

Installation Instructions

Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 2 man-hours
Concrete Required: 0.24 cubic yard (0,18 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

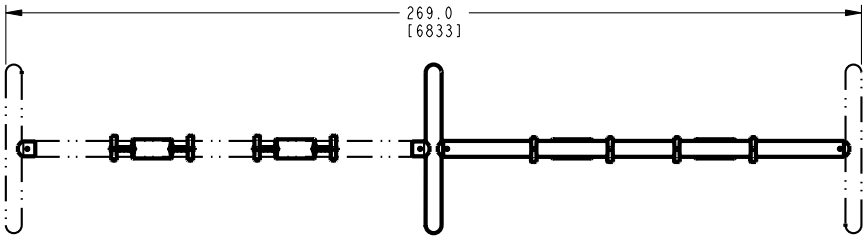
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

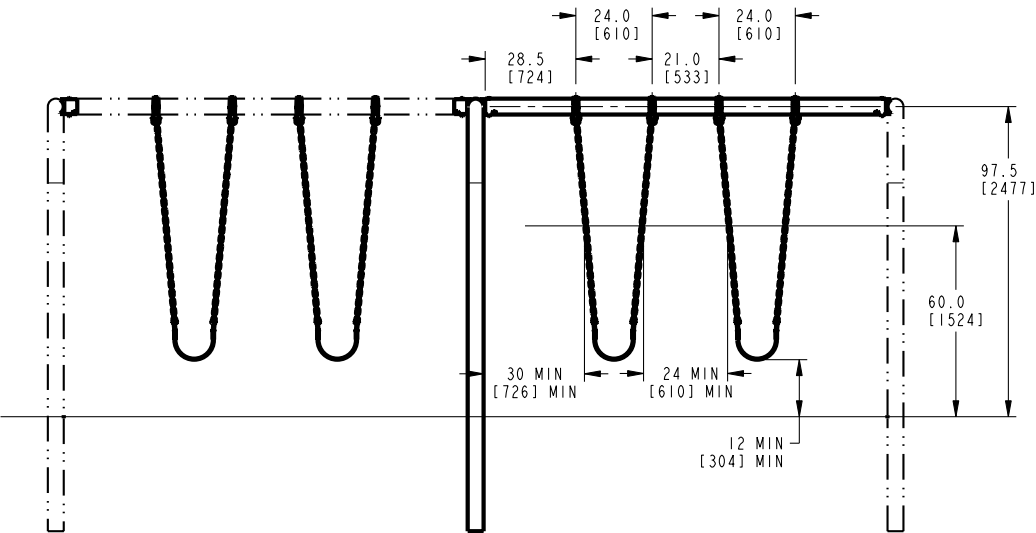
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

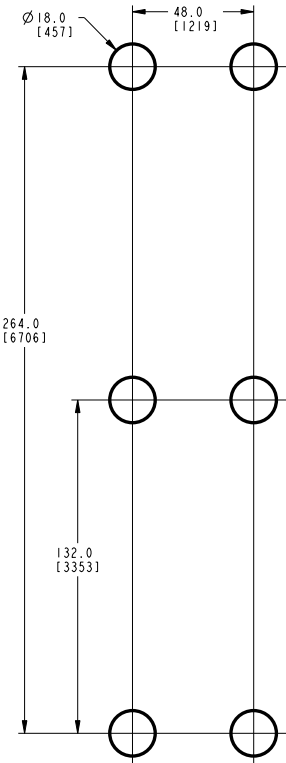
Top View



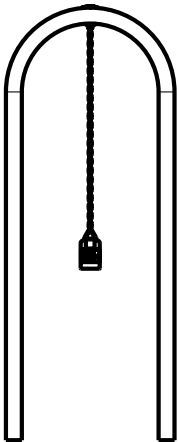
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

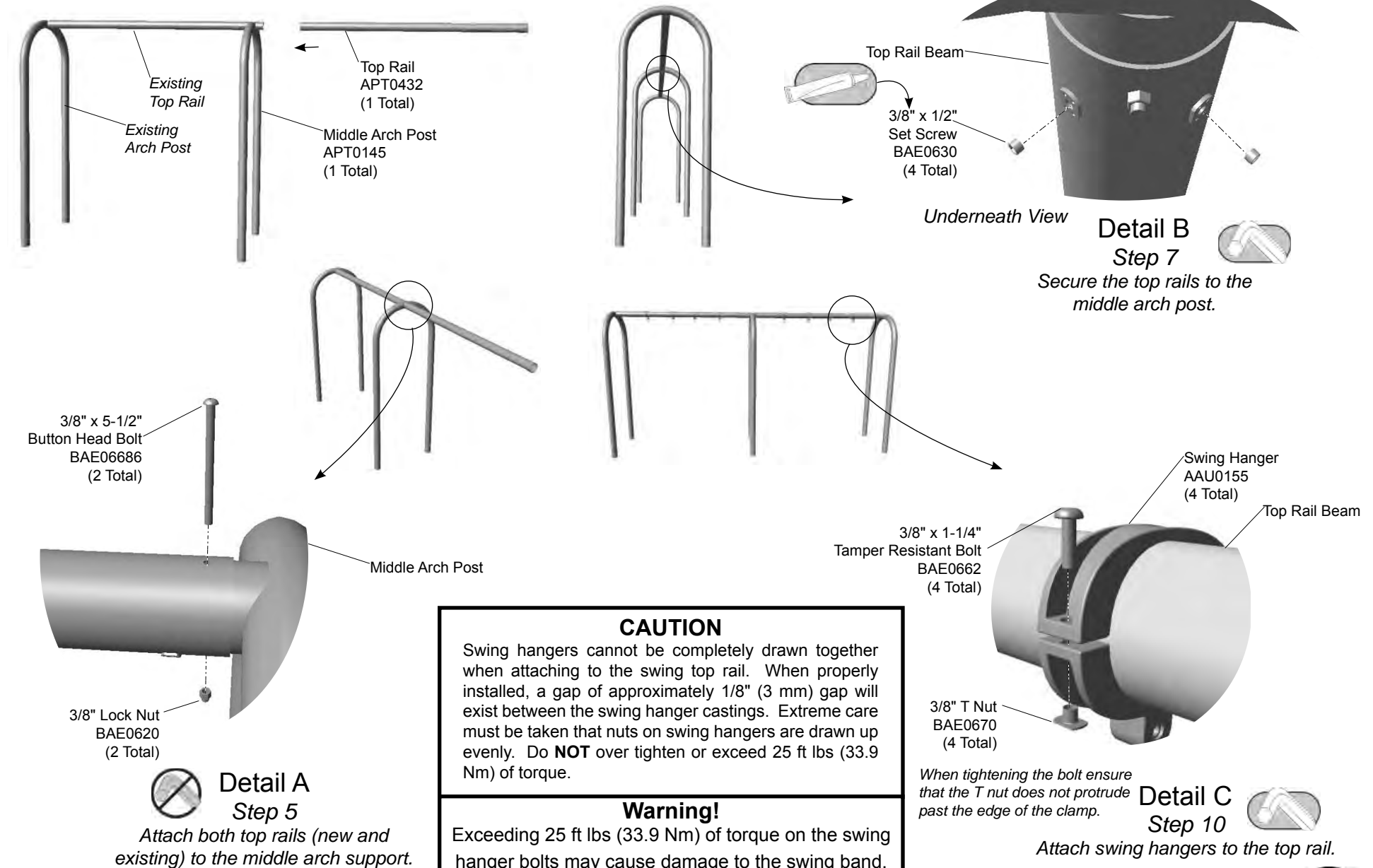


Footing Diagram

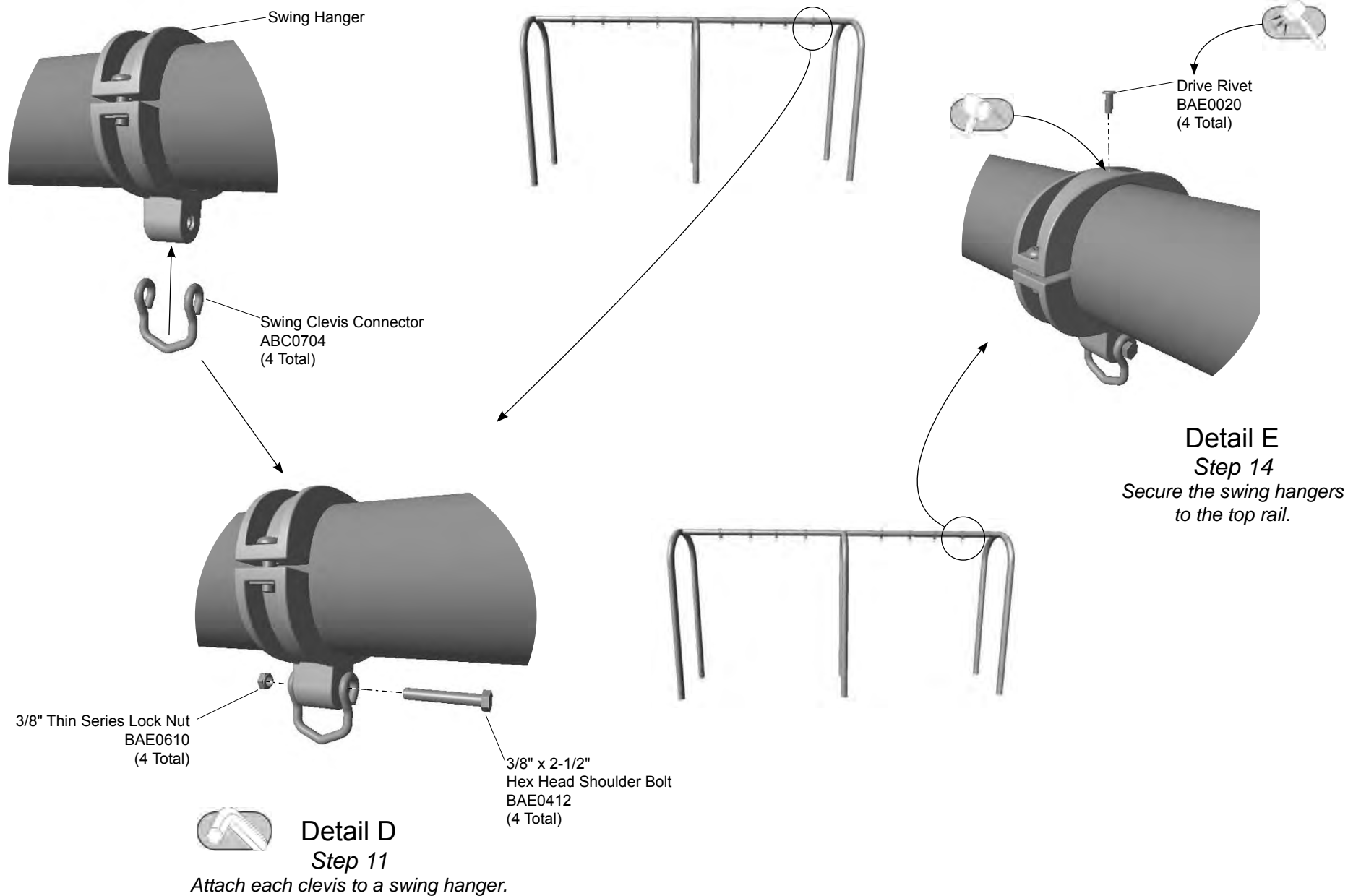


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - S.S.	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - S.S.	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

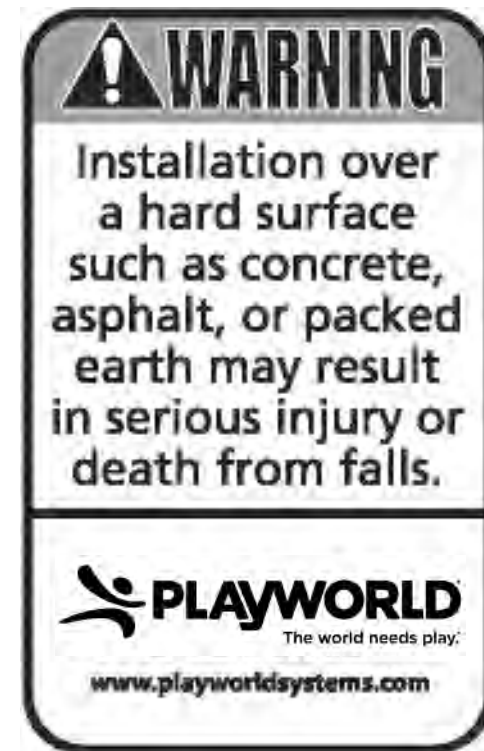


Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

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www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **. . . for Safety's Sake!**

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®

Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

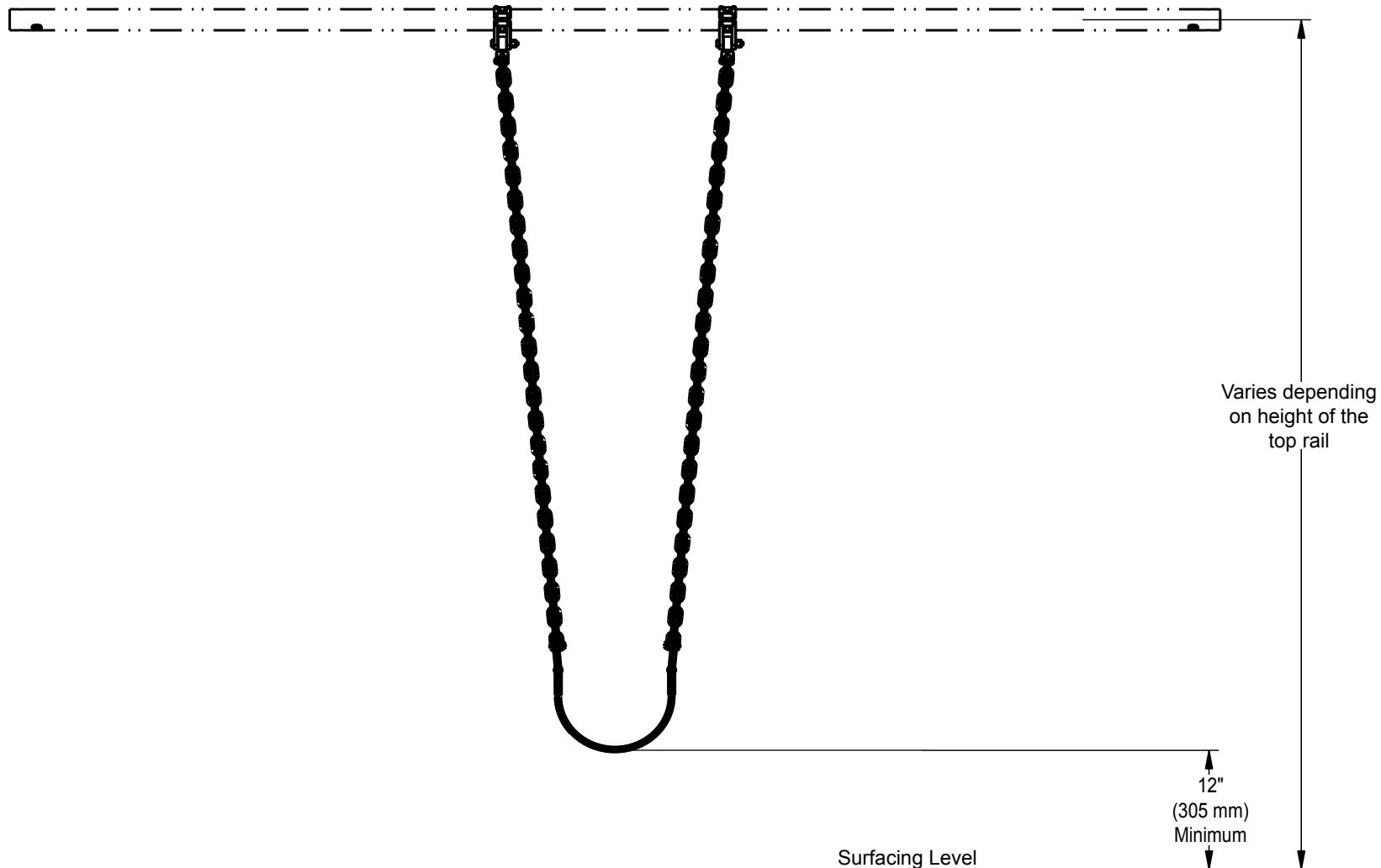
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

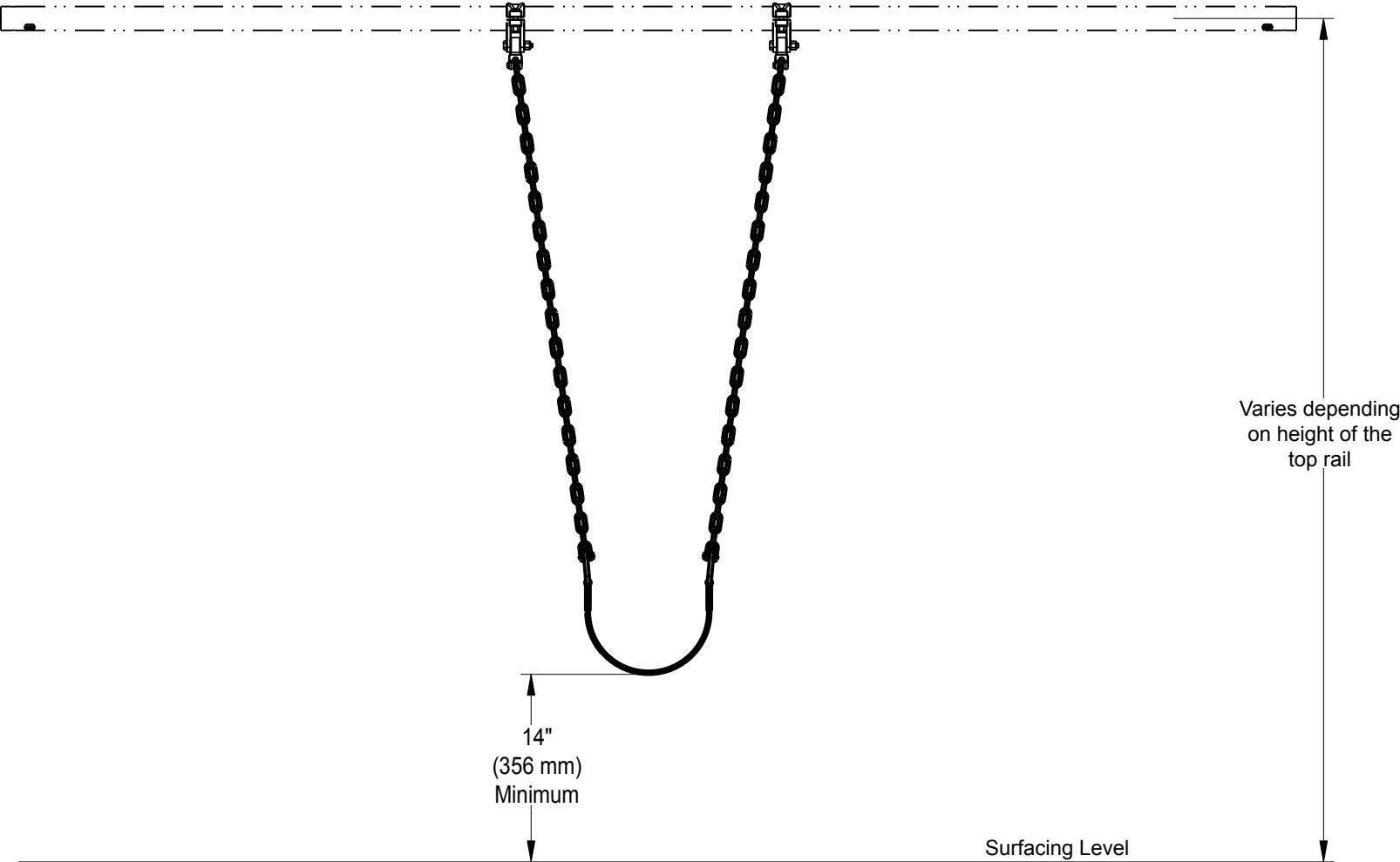
Installation Instructions



Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)

Installation Instructions



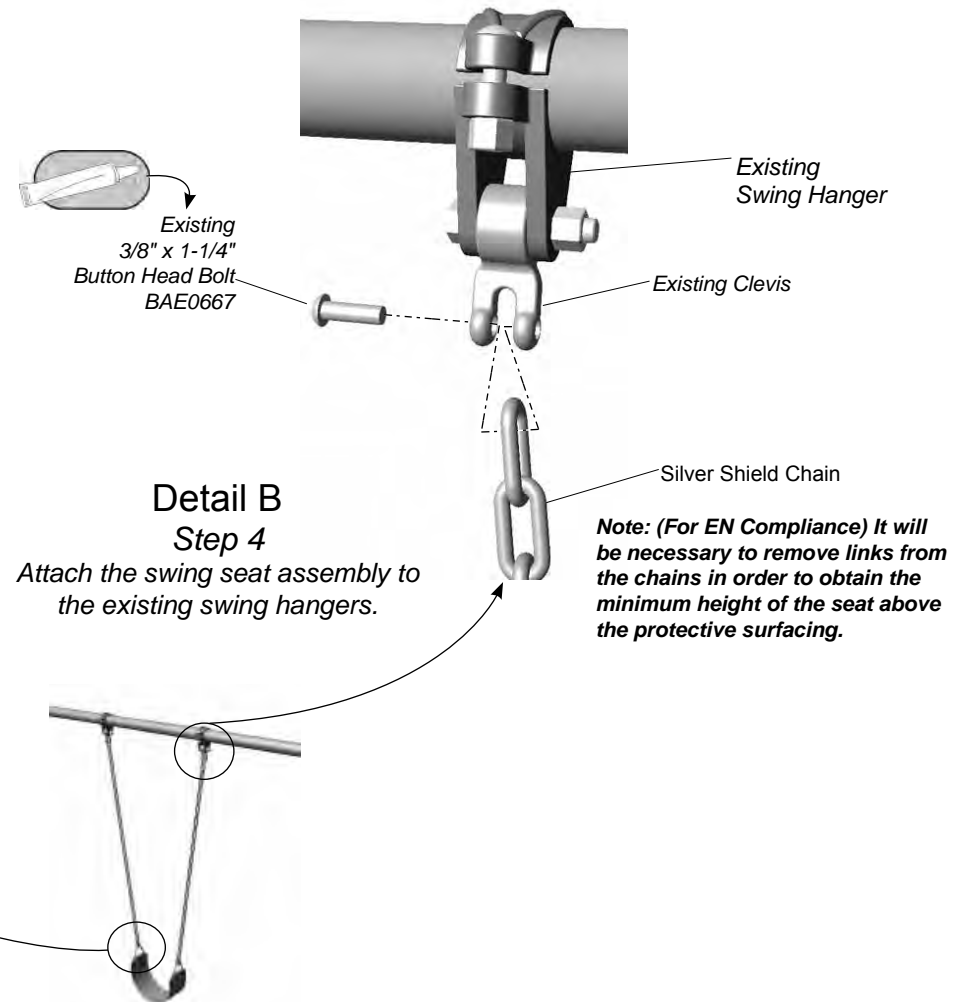
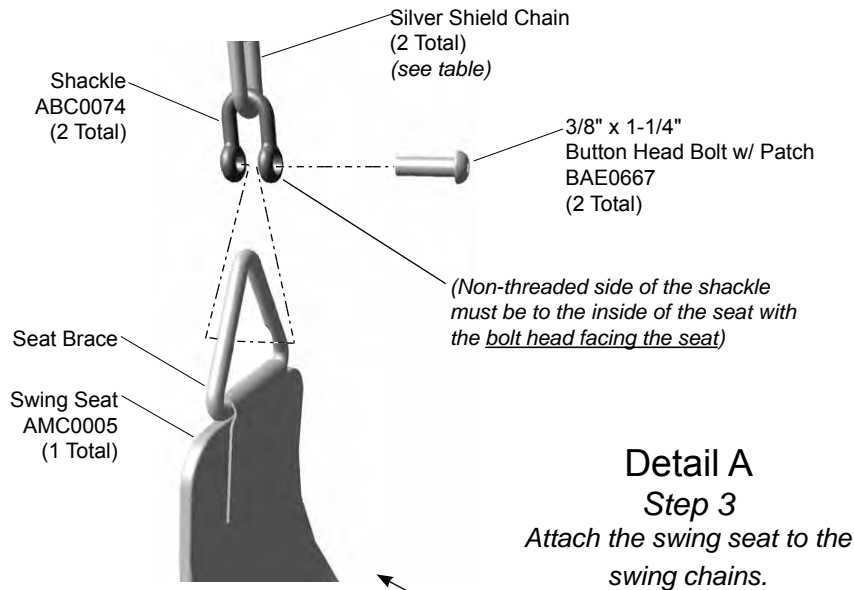
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain





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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Top Rail Height
ZZXX0325	7 ft. (2134 mm)
ZZXX0265	8 ft. (2440 mm)
ZZXX0266	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

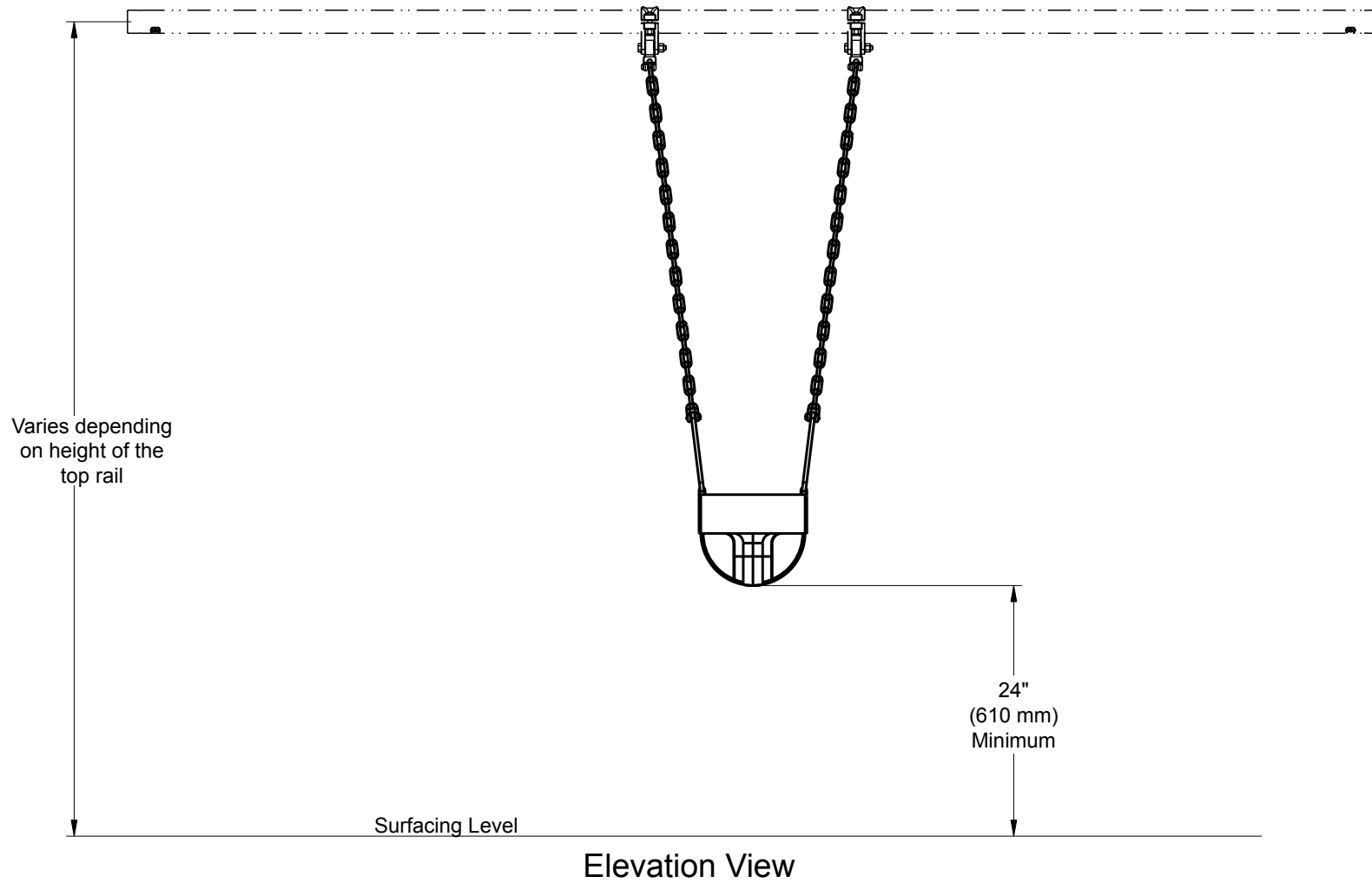
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone:..... Refer to the swing frame instructions
 User Group:..... Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

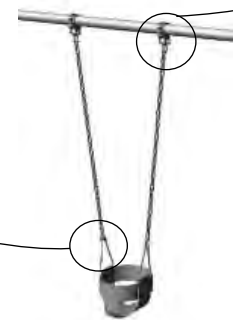
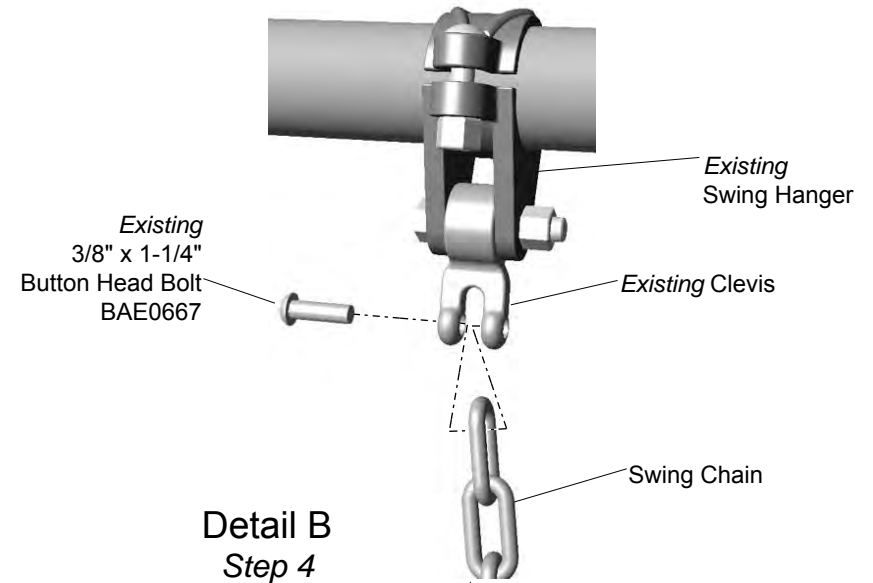
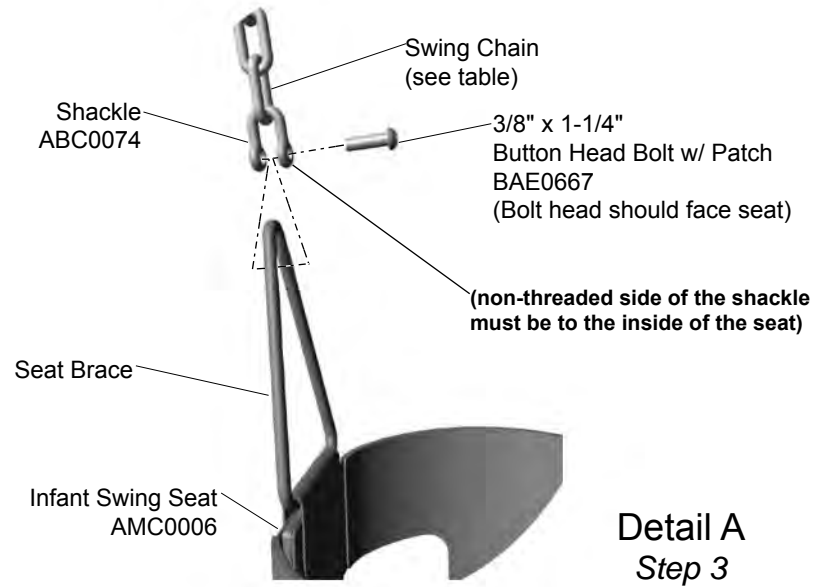
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Step 5

Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain





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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

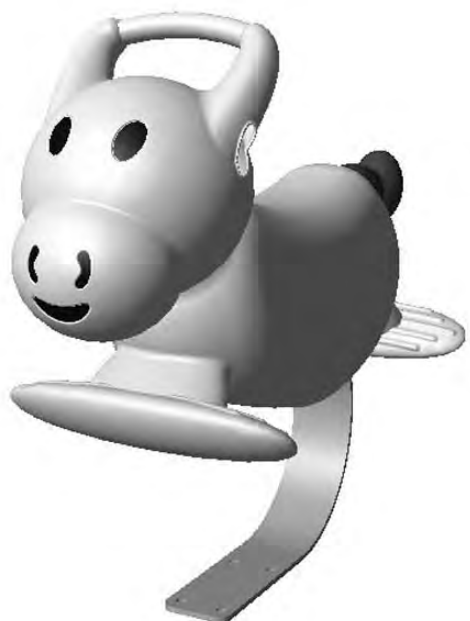
Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

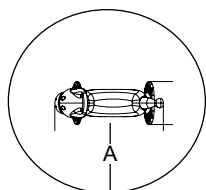
Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____





Assembly View (representative structure)

Spring Rider Use Zones
A = ASTM: 72 in. (1829 mm)
 CSA: 1800 mm
 EN: 1000 mm



Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems® Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568
 Cow, Horse, Ladybug, and Bee Spring Rider
 With and Without Sound

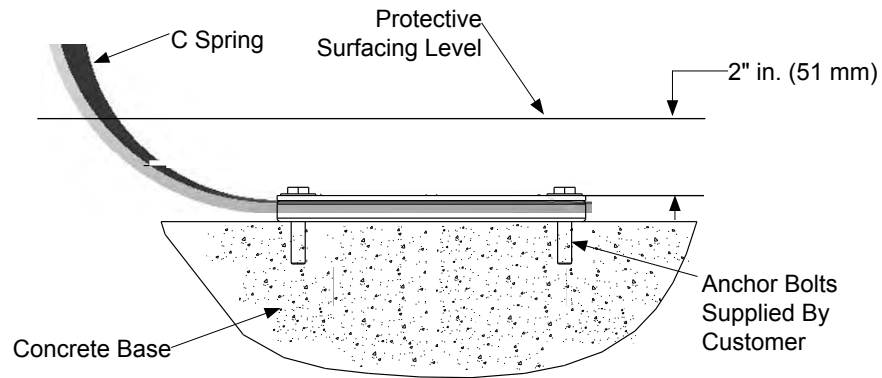
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 Use Zone: Refer to the information below
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



C Spring Surface Mount Footing Detail

FOOTING NOTES

- Footing size may vary due to local soil and weather conditions.
- The base of the footing must be below frost line.

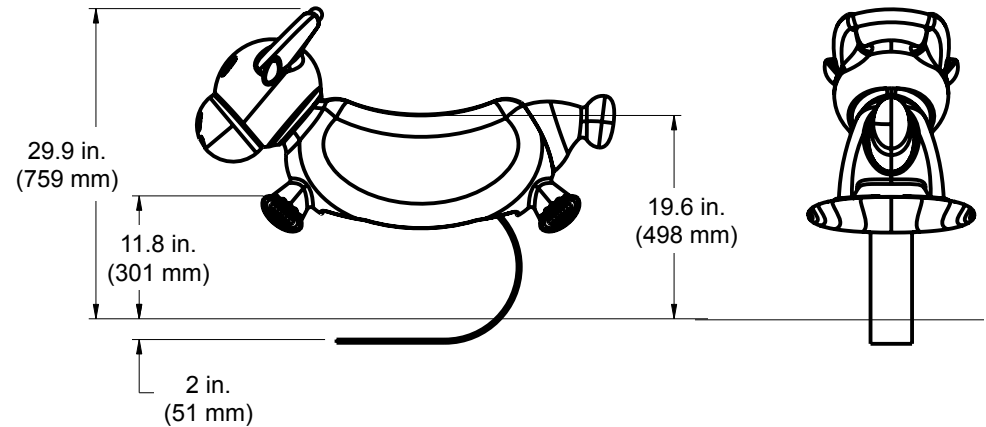
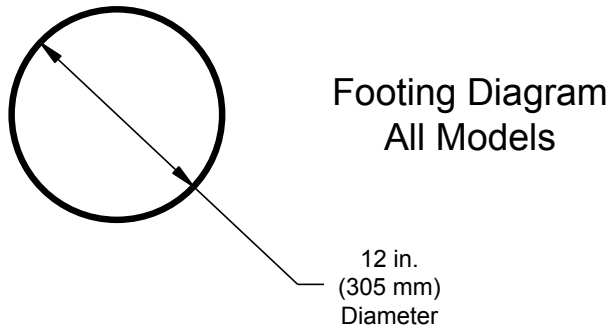
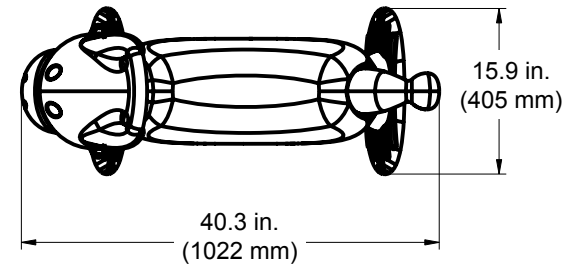
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Model	Animal
ZZXX0561	Cow
ZZXX0562	Cow w/ Sound
ZZXX0563	Horse
ZZXX0564	Horse w/ Sound
ZZXX0565	Ladybug
ZZXX0566	Ladybug w/ Sound
ZZXX0567	Bee
ZZXX0568	Bee w/ Sound

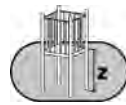


Top View



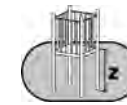
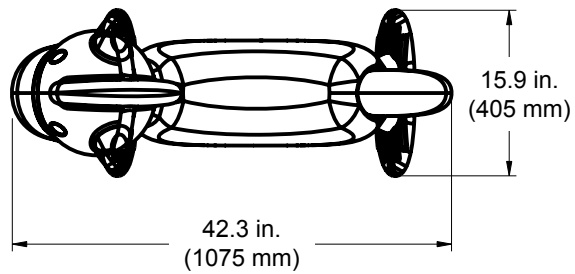
Elevation Views
XX0561 & XX0562

Installation Instructions



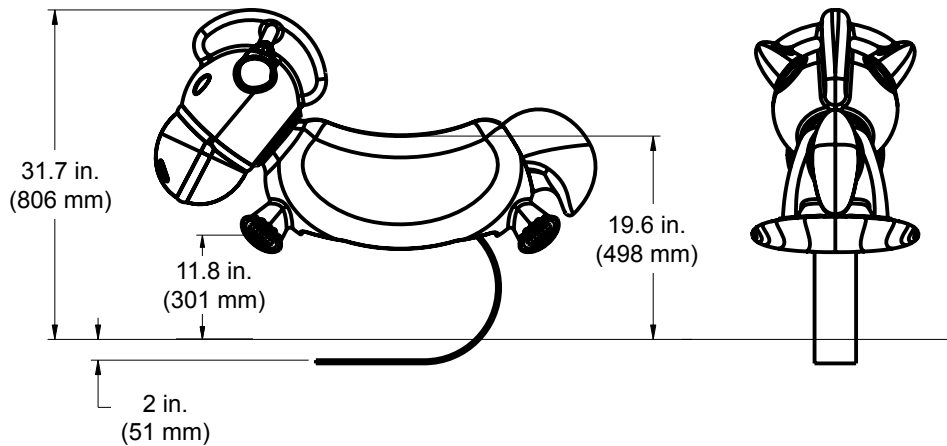
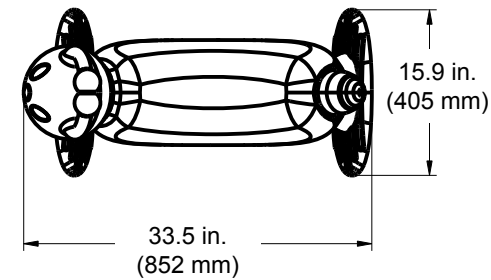
19.6" (498 mm)

Top View

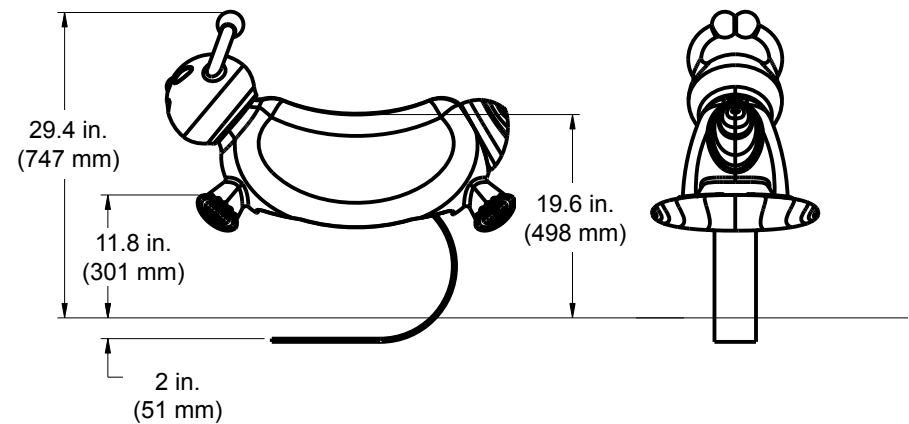


19.6" (498 mm)

Top View



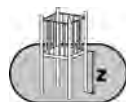
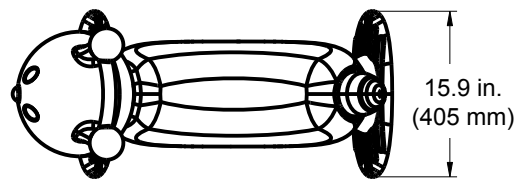
Elevation Views
XX0563 & XX0564



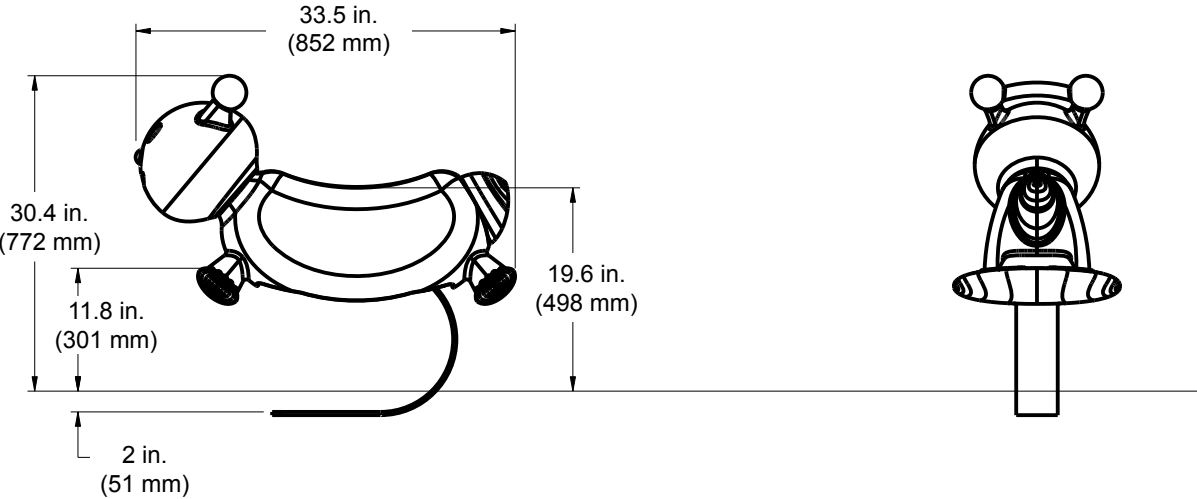
Elevation Views
XX0565 & XX0566

Installation Instructions

Top View



19.6" (498 mm)

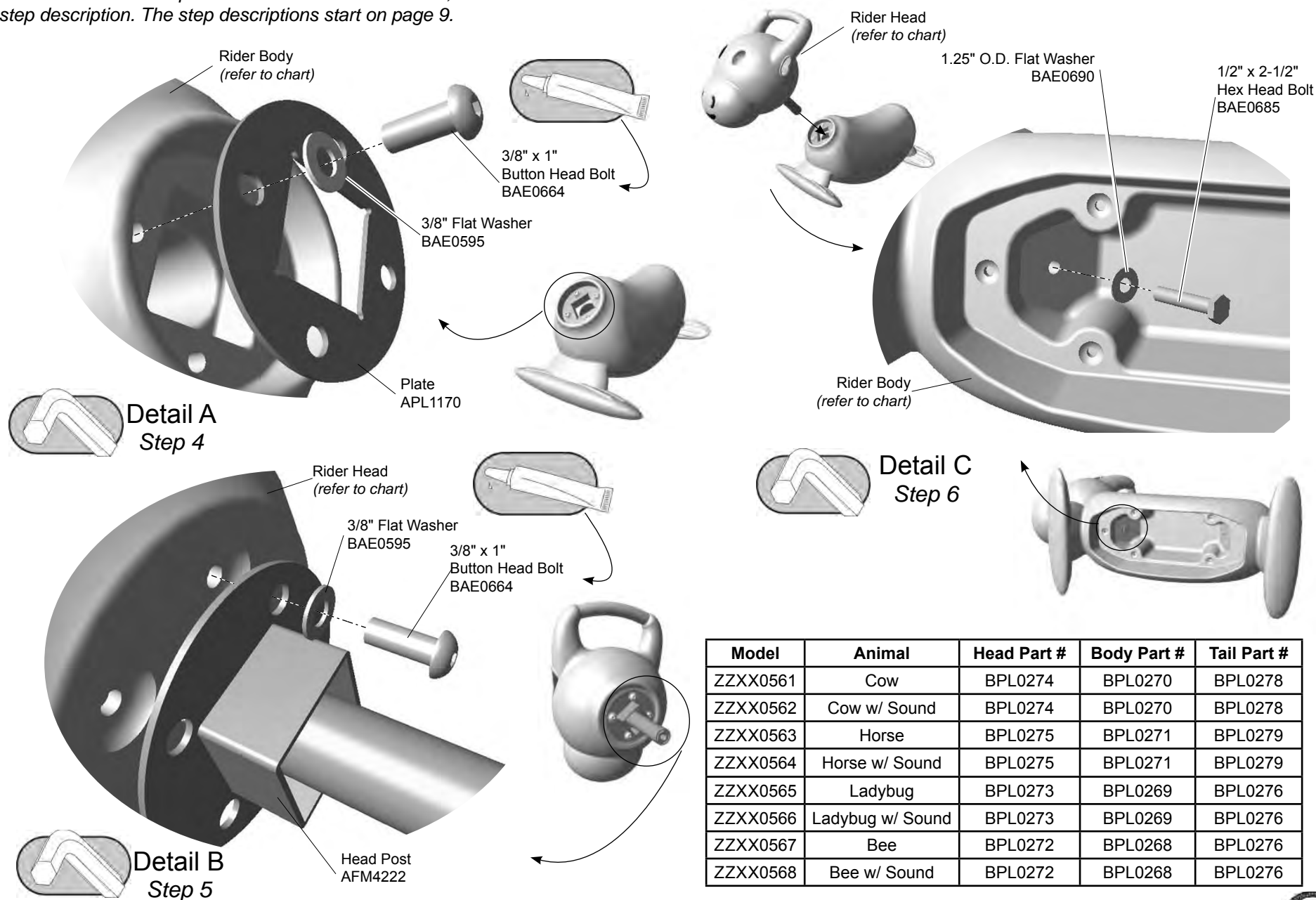


Elevation Views
XX0567 & XX0568

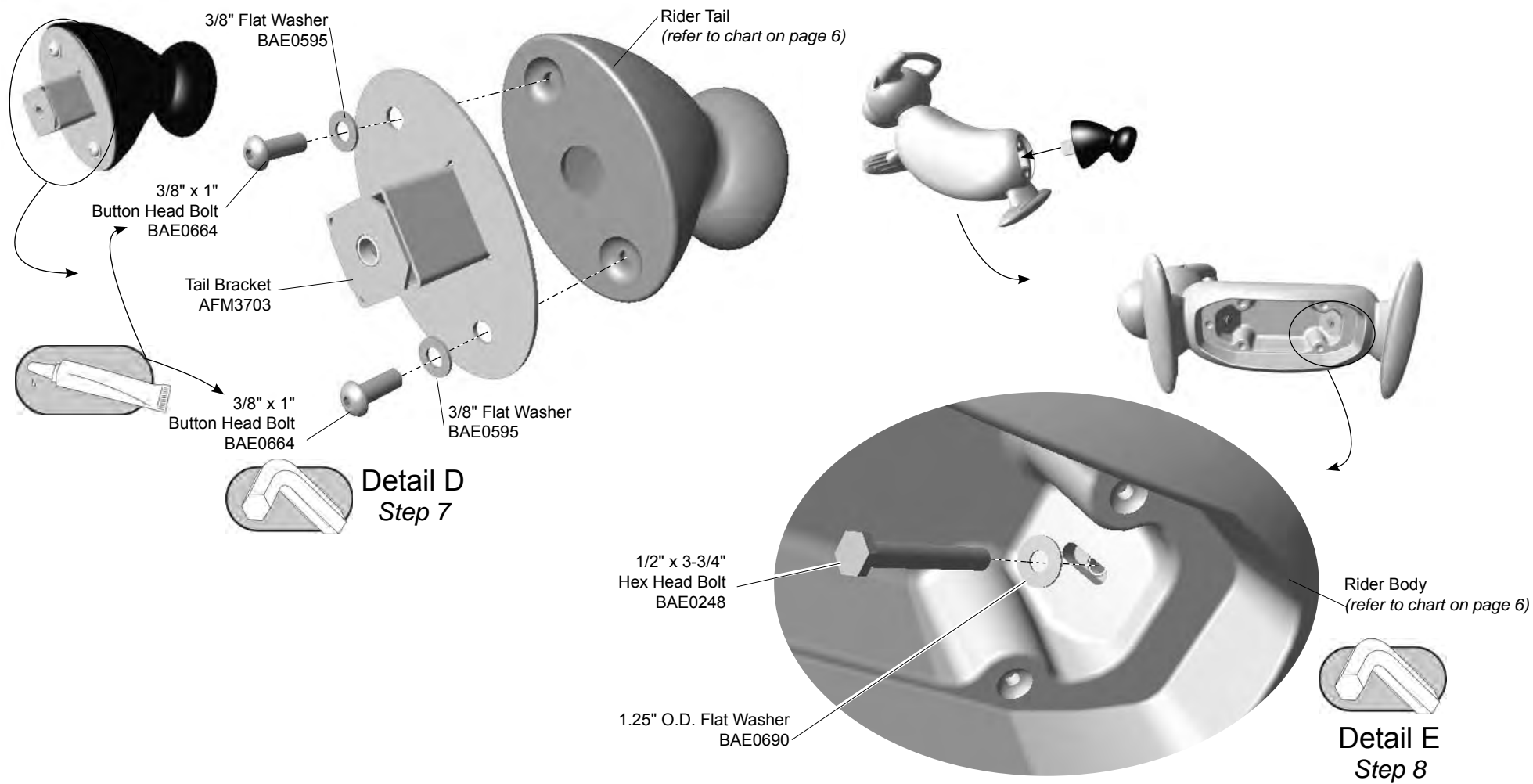


Installation Instructions

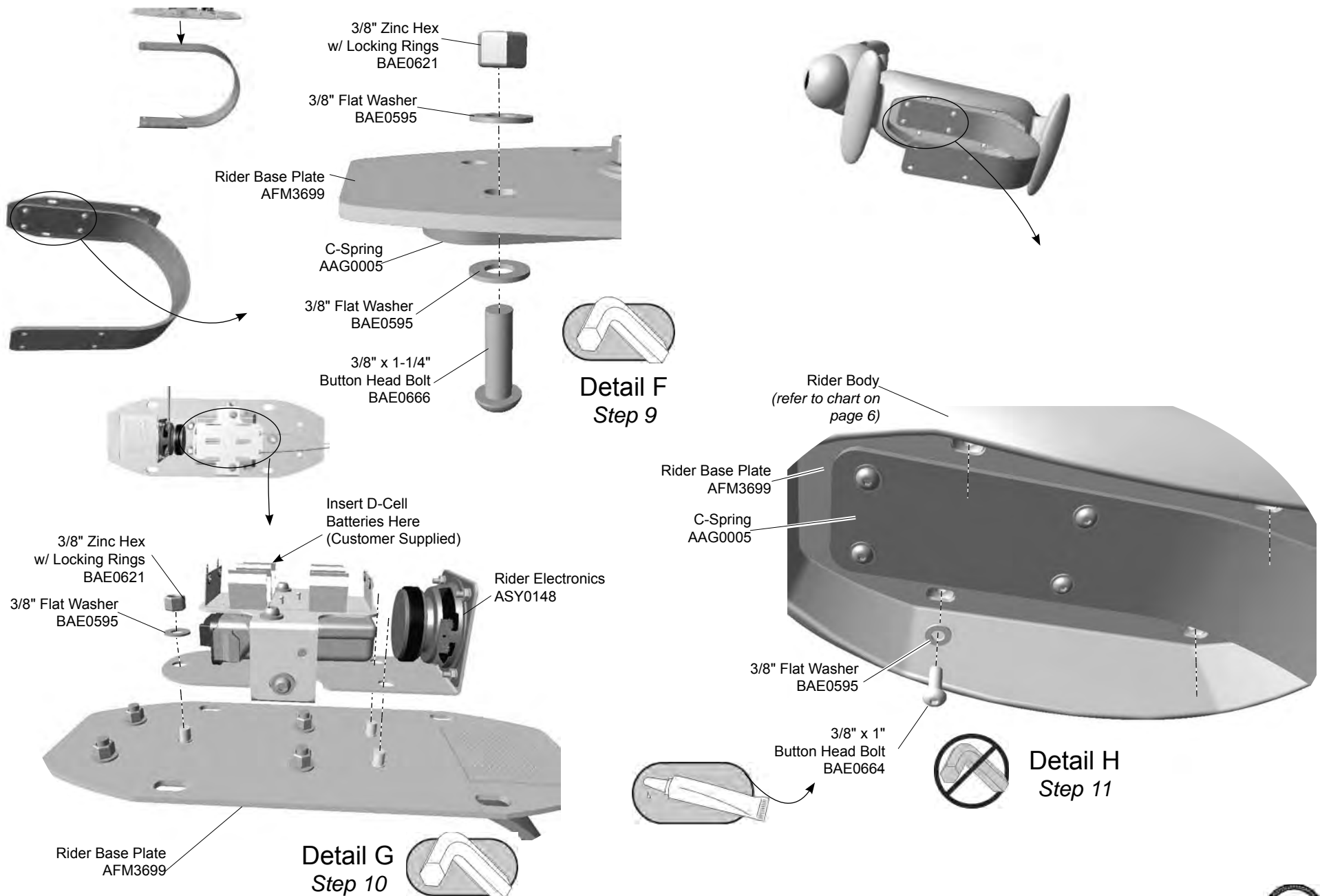
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Prepare footings as shown in the **C-Spring Footing Detail** on page 2 of this document.

Note: Heads and tails can be interchanged with body. Refer to the chart on page 6 to reference your specific parts.

Attach the plate to the rider body.

__Step 4: Attach the plate to the rider body. See **Detail A**. Select the plate, the rider body, and the appropriate hardware. There are (4) four connections. Place the plate in the indent in the neck area of the body and align the holes. Attach as shown.

Attach the head post to the rider head.

__Step 5: Attach the head post to the rider head. See **Detail B**. Select the head post, the rider head, and the appropriate hardware. There are (4) four connections. Place the post in the indent at the bottom of the head and align the holes. Attach as shown.

Attach the head to the body.

__Step 6: Attach the head to the body. See **Detail C**. Select the head assembly, the body assembly, and the appropriate hardware. There is (1) one connection. Insert the head assembly into the body assembly. Insert a bolt up through the rider body and thread into the head post. Tighten the connection until there is no gap between the head and the body.

Assemble the tail.

__Step 7: Assemble the tail. See **Detail D**. Select the tail, the tail bracket, and the appropriate hardware. There are (2) two connections. Align the tail bracket with the holes in the tail and attach as shown.

Attach the tail to the body.

__Step 8: Attach the tail to the body. See **Detail E**. Select the tail assembly and the appropriate hardware. There is (1) one connection. Insert the tail assembly into the body assembly. Insert a bolt up through the rider body and thread into the tail bracket. Tighten the connection until there is no gap between the tail and the body.

Attach the base plate to the C-spring.

__Step 9: Attach the base plate to the C-spring. See **Detail F**. Select the appropriate hardware. There are (4) four connections. Place the base plate onto the C-spring. Align the inner holes on the base plate with the holes in the C-spring. Attach as shown.

Note: Skip *Step 10* if you are not installing a model with sounds.

Attach the electronics to the base plate.

__Step 10: Attach the electronics to the base plate. See **Detail G**. Select the electronics, the base plate, and the appropriate hardware. There are (3) three connections. Insert the electronic panel onto the pegs on the base plate. Attach as shown.

Important Note: Insert (4) four D-cell batteries into the sound electronics before installation. Batteries are sold separately. Battery life is approximately one (1) year. Maintenance should be scheduled to replace the batteries accordingly.

Note: Sound electronics are factory ready. No electrical connections will need to be made.

Attach the rider body assembly to the base plate.

__Step 11: Attach the rider body assembly to the base plate. See **Detail H**. Select the appropriate hardware. There are (4) four connections. Lower the rider body assembly onto the base plate and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Installation Instructions

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.



XX0561 - COW SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1

XX0562 - COW SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1

XX0563 - HORSE SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0271	HORSE BODY	1
BPL0275	HORSE HEAD	1
BPL0279	HORSE TAIL	1

XX0564 - HORSE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0271	HORSE BODY	1
BPL0275	HORSE HEAD	1
BPL0279	HORSE TAIL	1



XX0565 - LADYBUG SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0269	LADYBUG BODY	1
BPL0273	LADYBUG HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0566 - LADYBUG SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0269	LADYBUG BODY	1
BPL0273	LADYBUG HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0567 - BEE SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0568 - BEE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1



Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Sound Unit

- Inspect for proper operation and replace batteries as needed.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568 Cow, Horse, Ladybug, and Bee Spring Rider With and Without Sound



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect spring connections for tightness.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect sound unit for proper operation and replace batteries as needed.	Medium			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

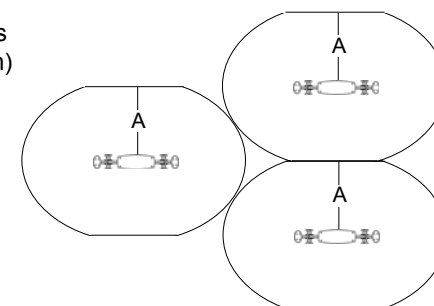


Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 84 inches (2134 mm). This use zone may not be overlapped by the use zones of adjacent play equipment. See diagram.
- **CSA compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 2100 mm. This use zone may not be overlapped by the use zones of adjacent play equipment. See diagram.
- **EN Compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 1000 mm.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

Rocking/Springing Equipment
Intended for Standing Use Zones
A = ASTM: 84 in. (2134 mm)
CSA: 2100 mm
EN: 1000 mm



Placement of multiple rocking springing equipment intended for standing

- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

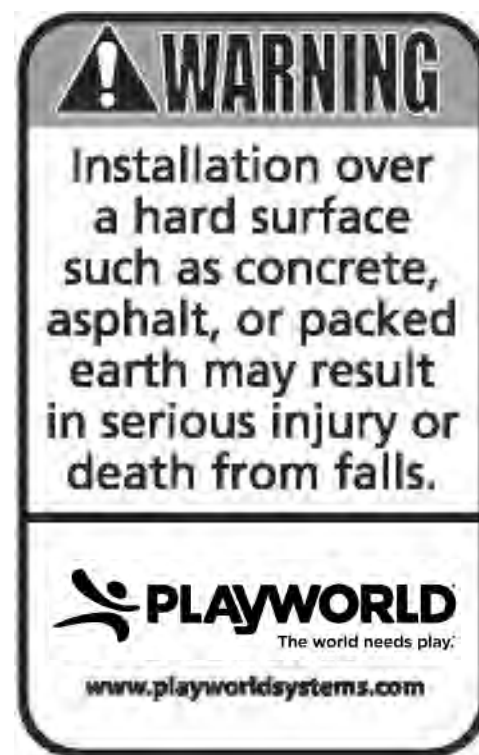
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

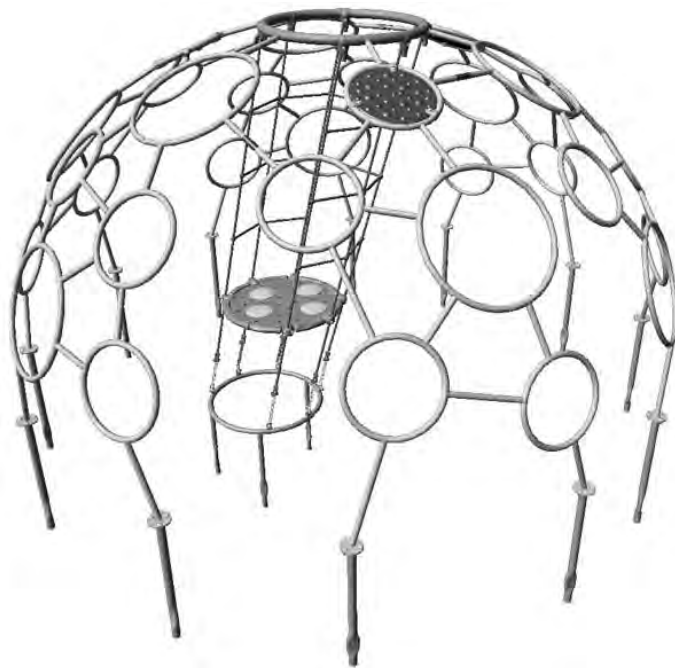
FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

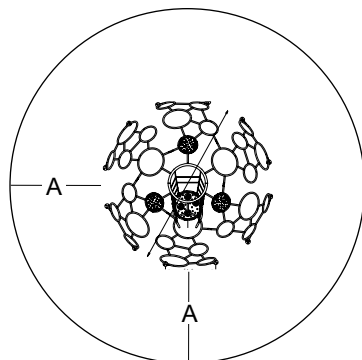
- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



Assembly View (representative structure)



Equipment Use Zone
A - (ASTM): 72 in. (1830 mm)
(CSA): 1800 mm
(EN): 1925 mm

Installation Instructions

Playworld Systems®

Models XX0366 and XX0366S








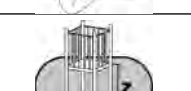
Unity Dome

In-Ground and Surface Mount

Installation Preparation

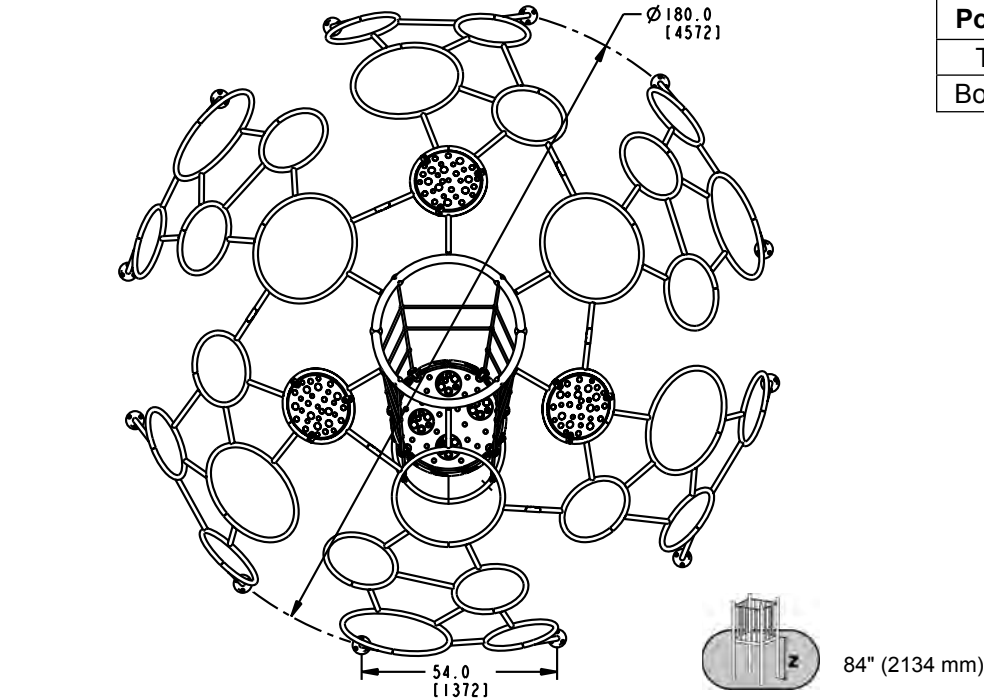
Recommended Crew: Four (4) adults
Installation Time (In-ground): 20 man-hours
Installation Time (Surface Mount): 10 man-hours
Concrete Required: 1.80 cubic yard (1,40 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

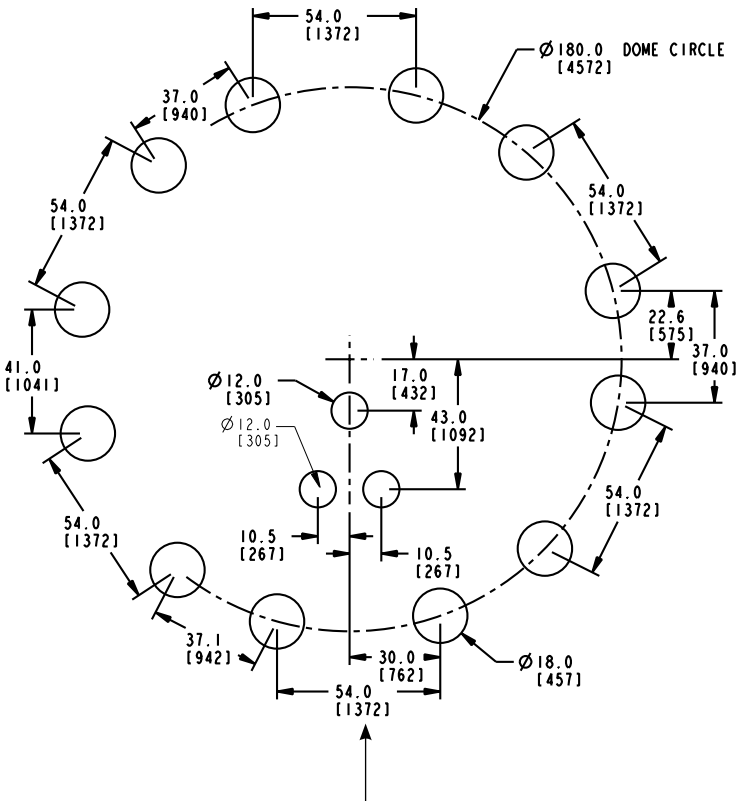
Installation Instructions

Top View



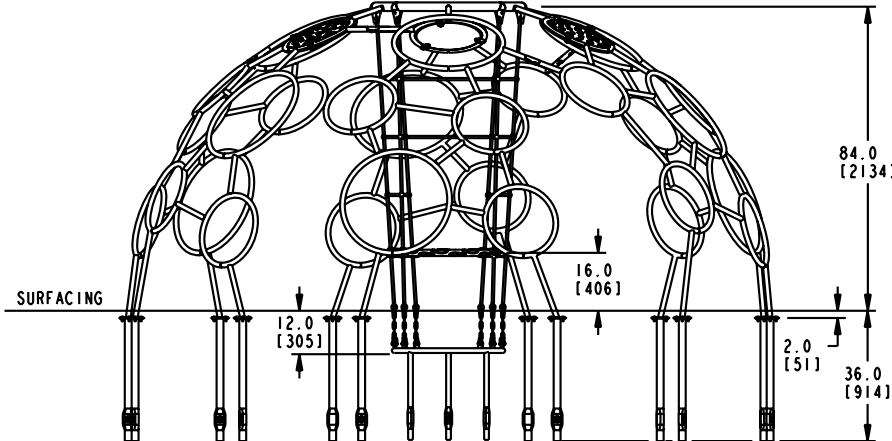
KEY

Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Important Note: When assembling and placing the climbers in the footings, make sure to position one of the climbers, (ACL0422) with the large ring at the top, here in front of the interior footings for the platform / net assembly.

Footing Diagram
In-Ground

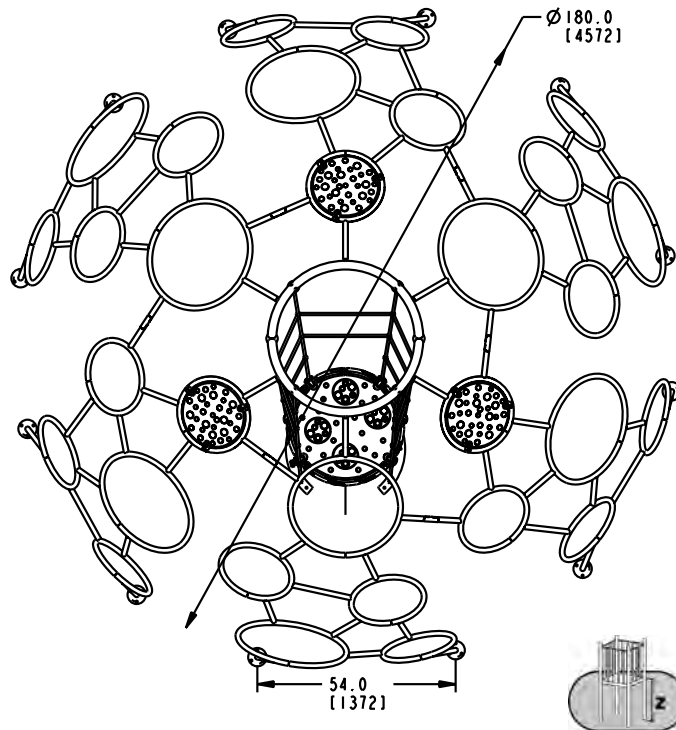


Elevation Views
XX0366

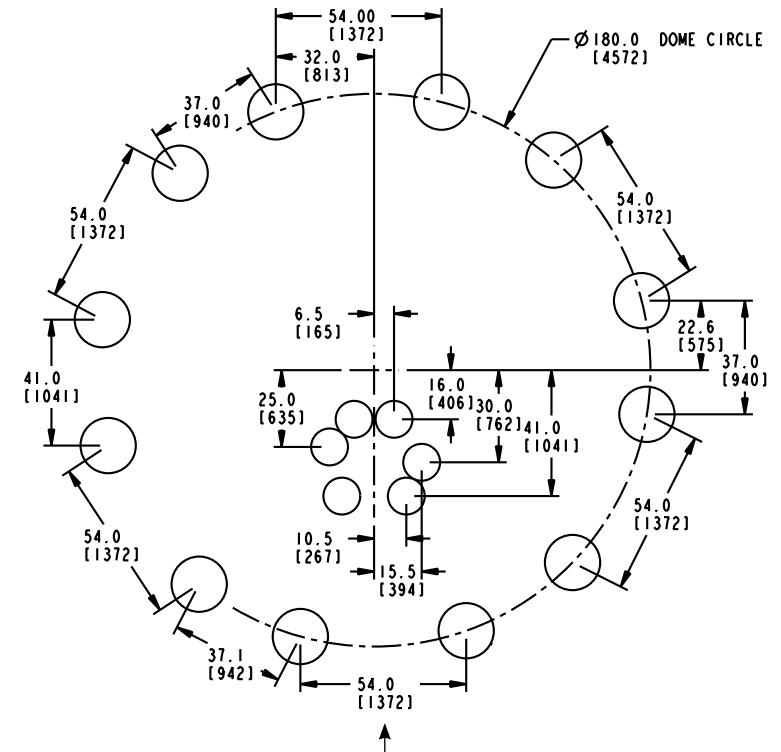


Installation Instructions

Top View

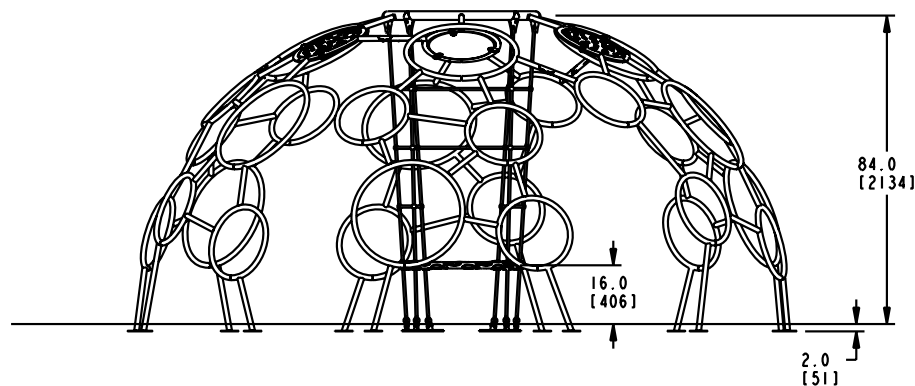


KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



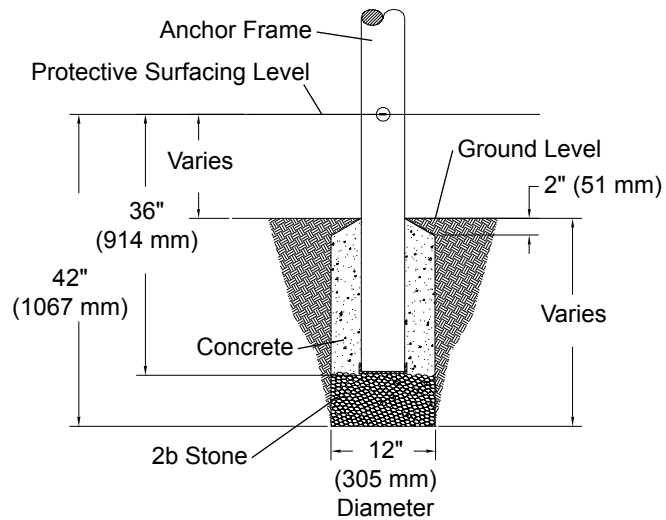
Important Note: When assembling and placing the climbers on the footings, make sure to position one of the "A" loop climbers (ACL0422) with the large ring at the top here in front of the interior footings for the platform / net assembly.

Footing Diagram
Surface Mount

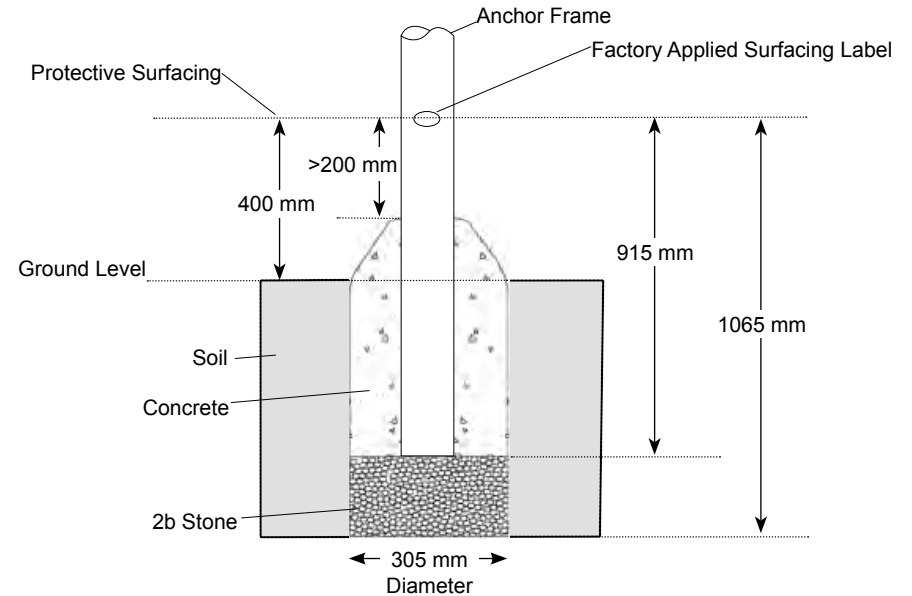


Elevation Views
XX0366S

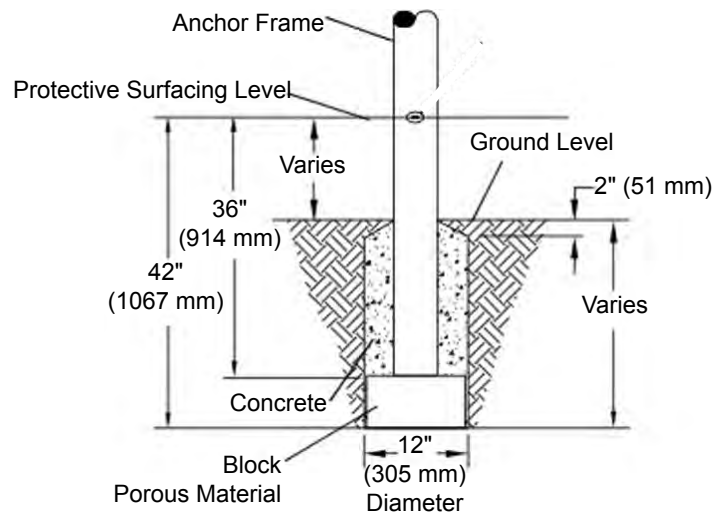
Installation Instructions



Anchor Frame Footing Detail (ASTM/CSA)



Anchor Frame Footing Detail (EN)



Anchor Frame Footing Detail (ASTM/CSA)
Block Option

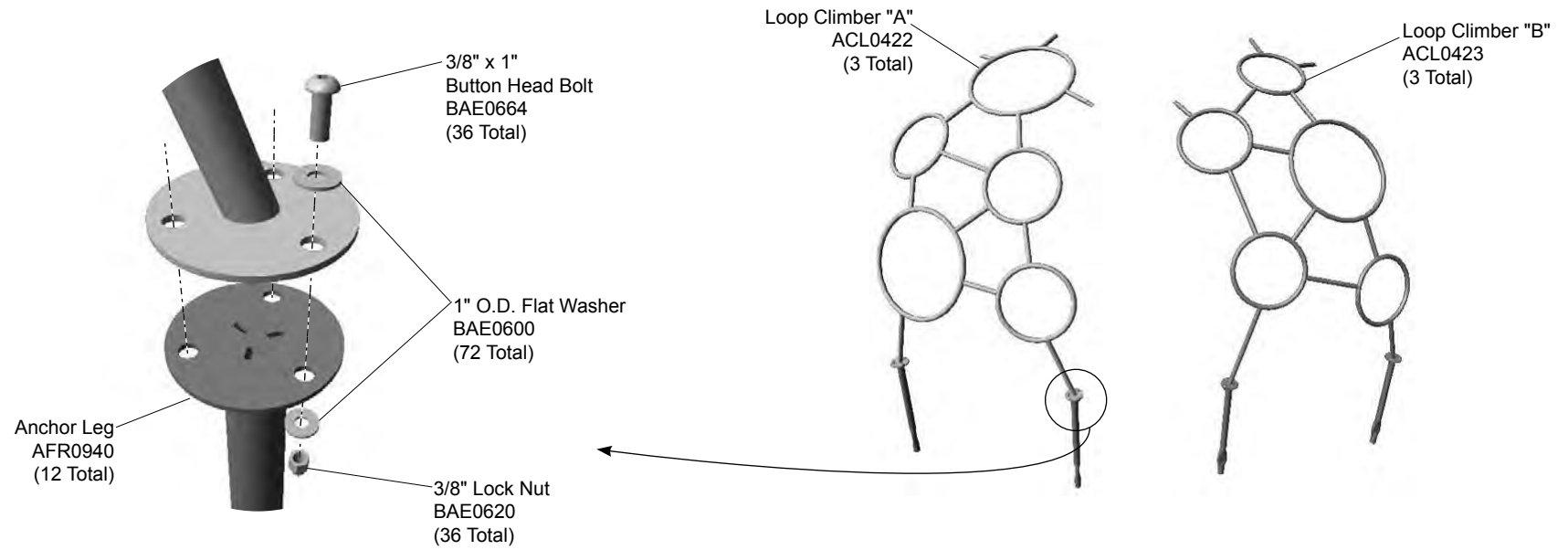
Installation Instructions

FOOTING NOTES

- Anchor frame footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- Some support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone or porous block.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 17.

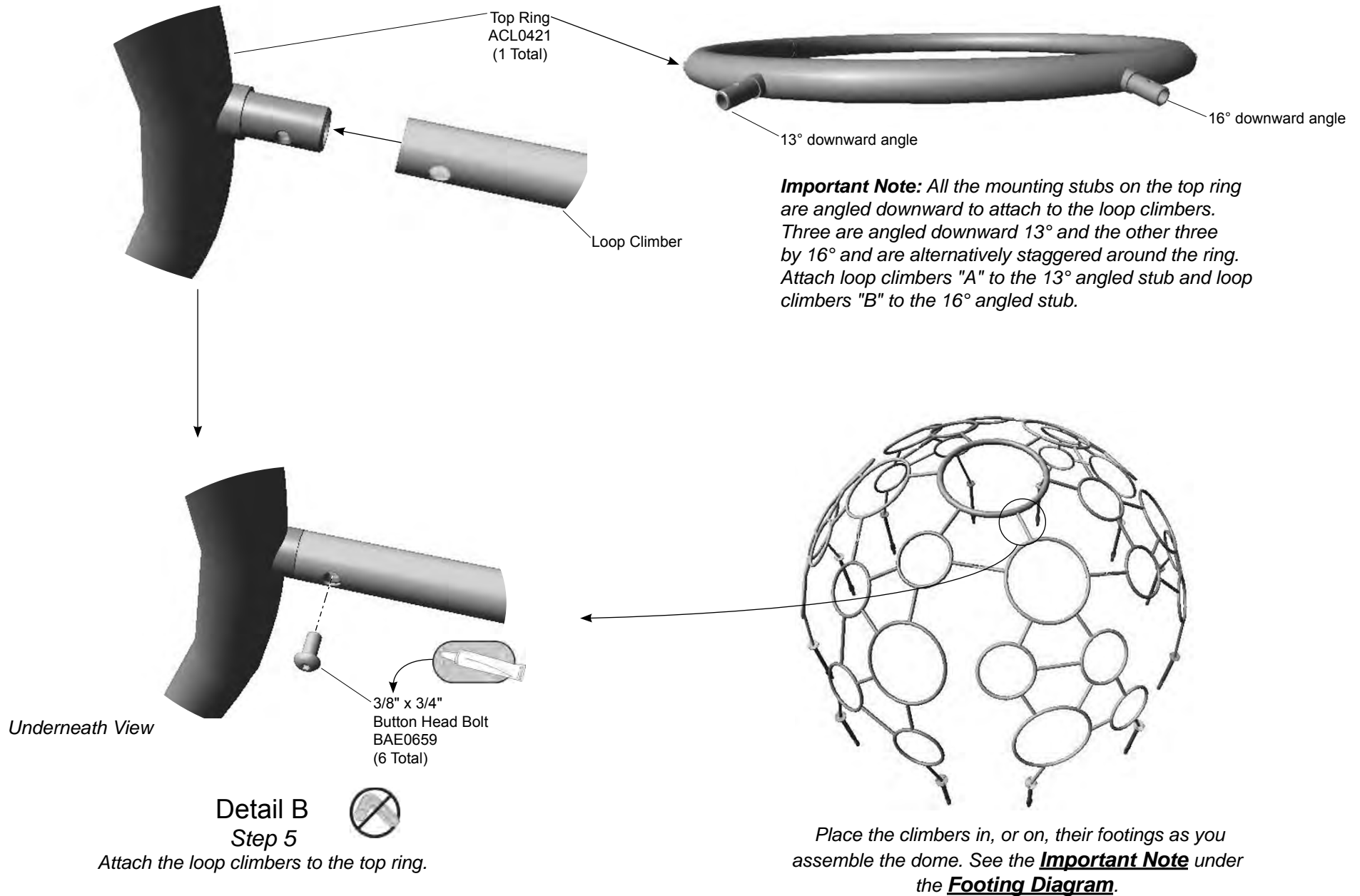


Detail A (In-Ground Model Only)

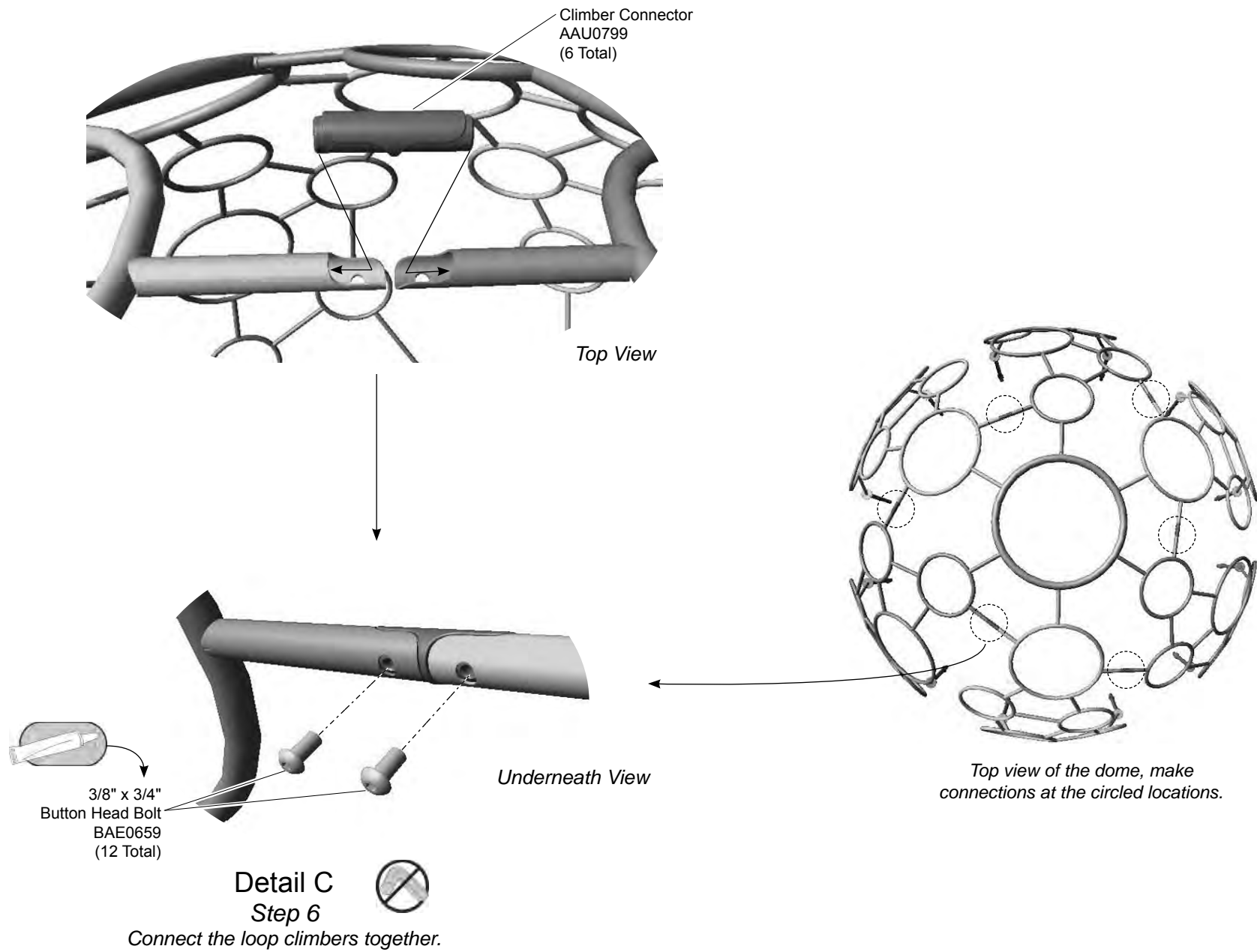
Step 4

Attach the anchor legs to the loop climbers.

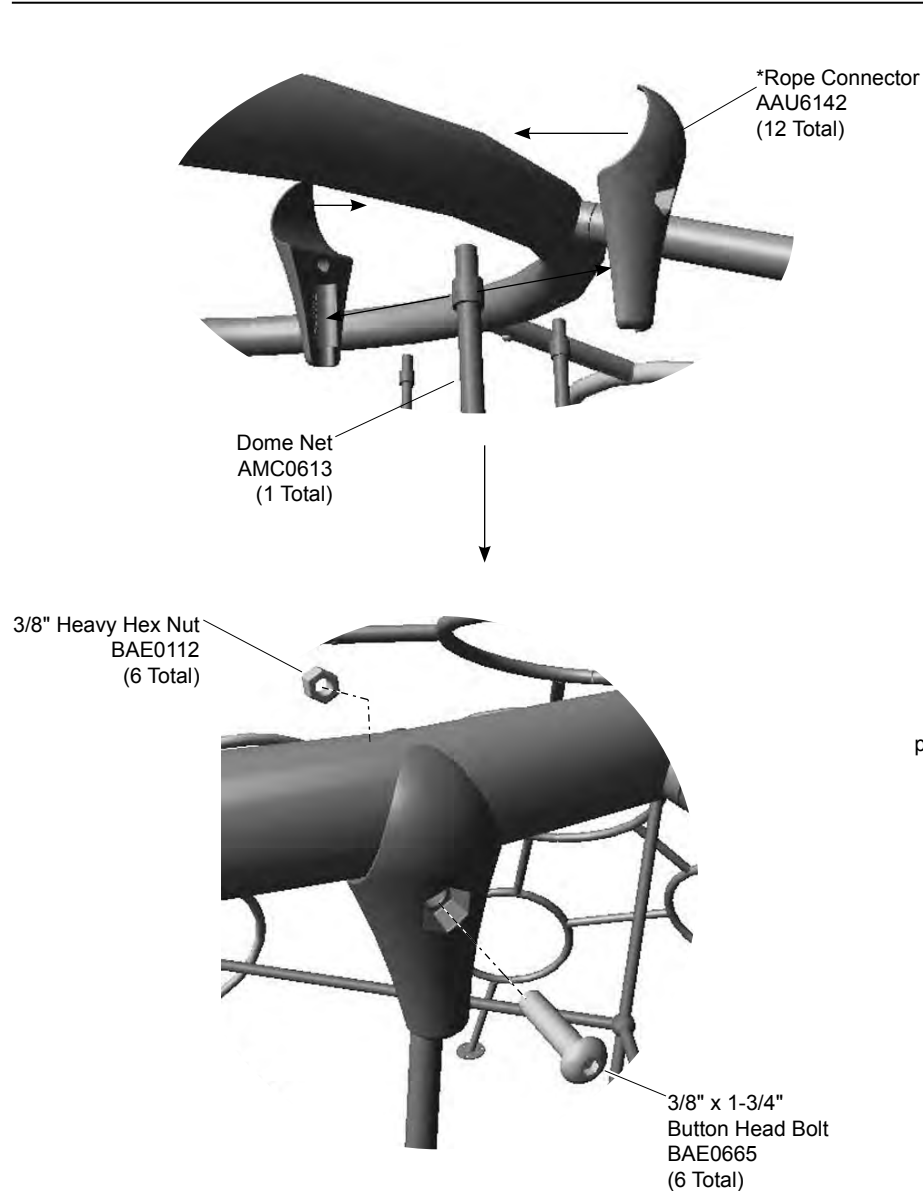
Installation Instructions



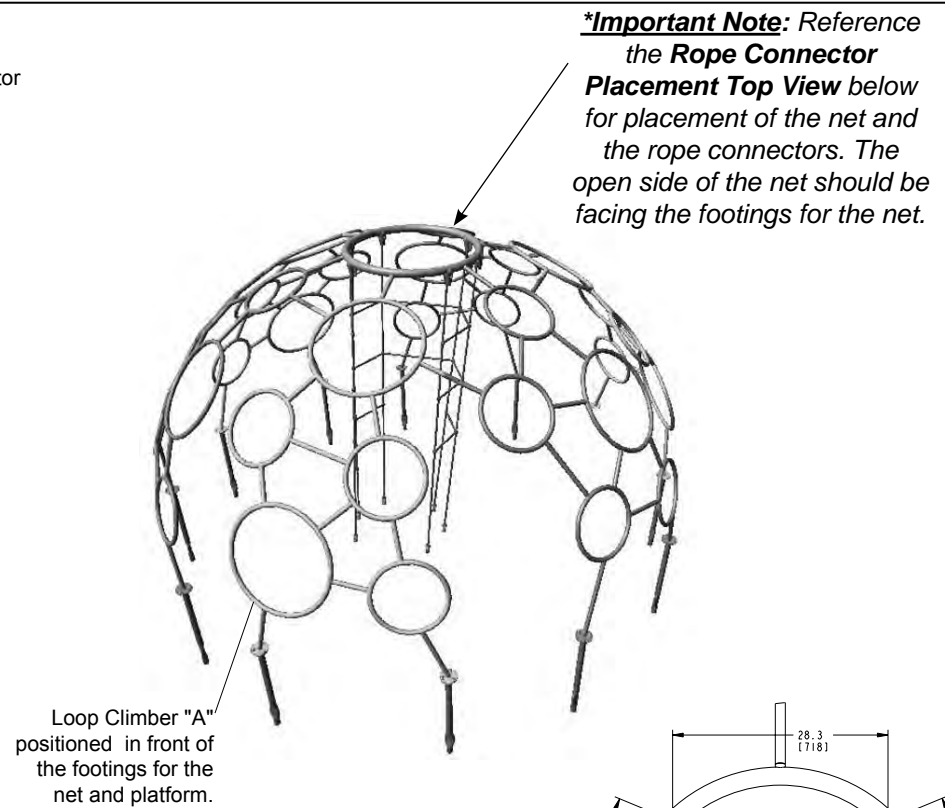
Installation Instructions



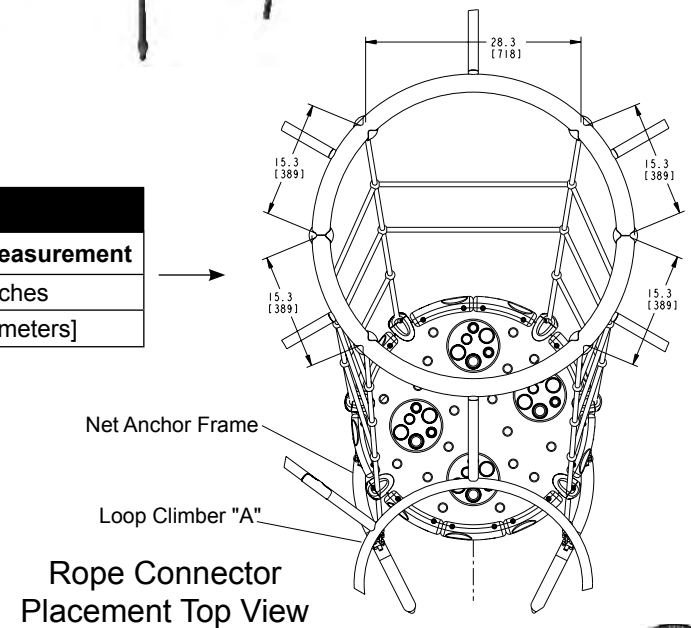
Installation Instructions



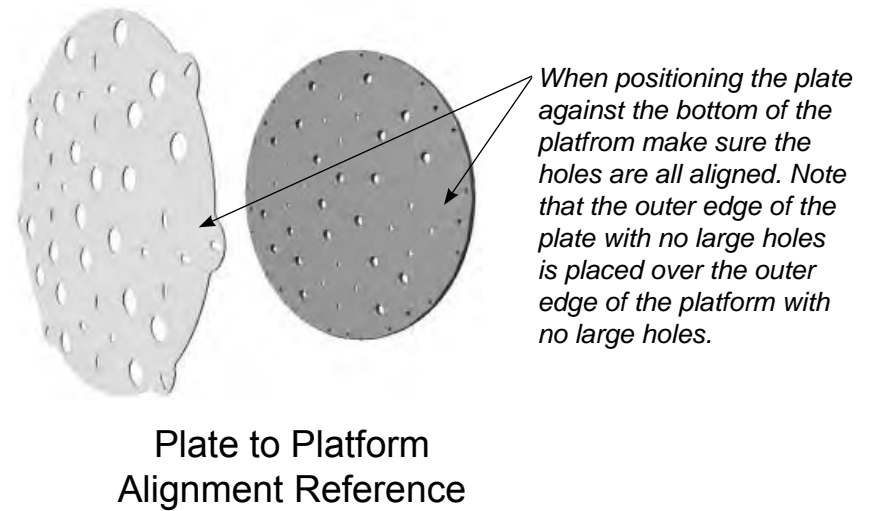
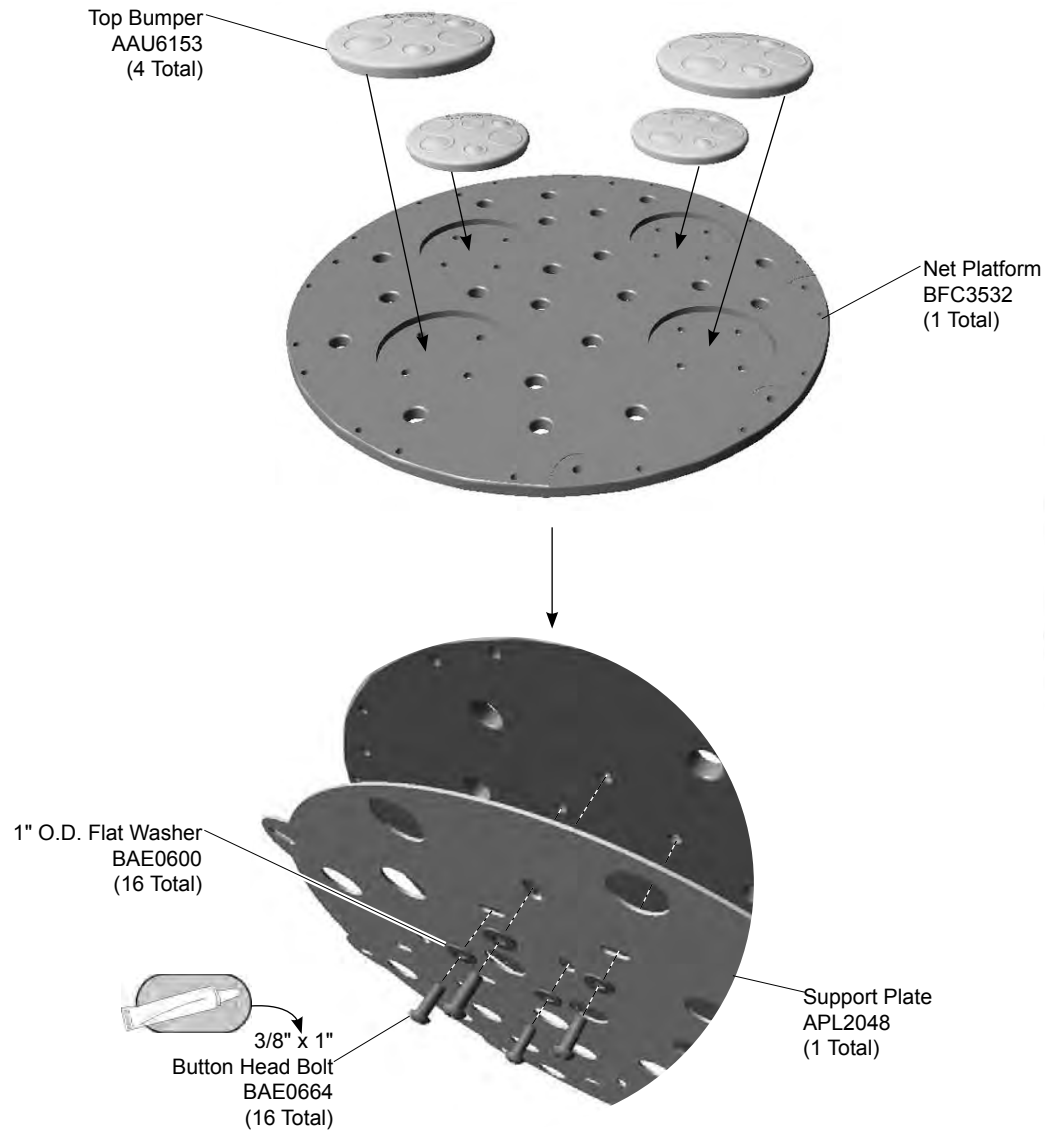
 **Detail D**
Step 7
Attach the dome net to the top ring.



KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Installation Instructions

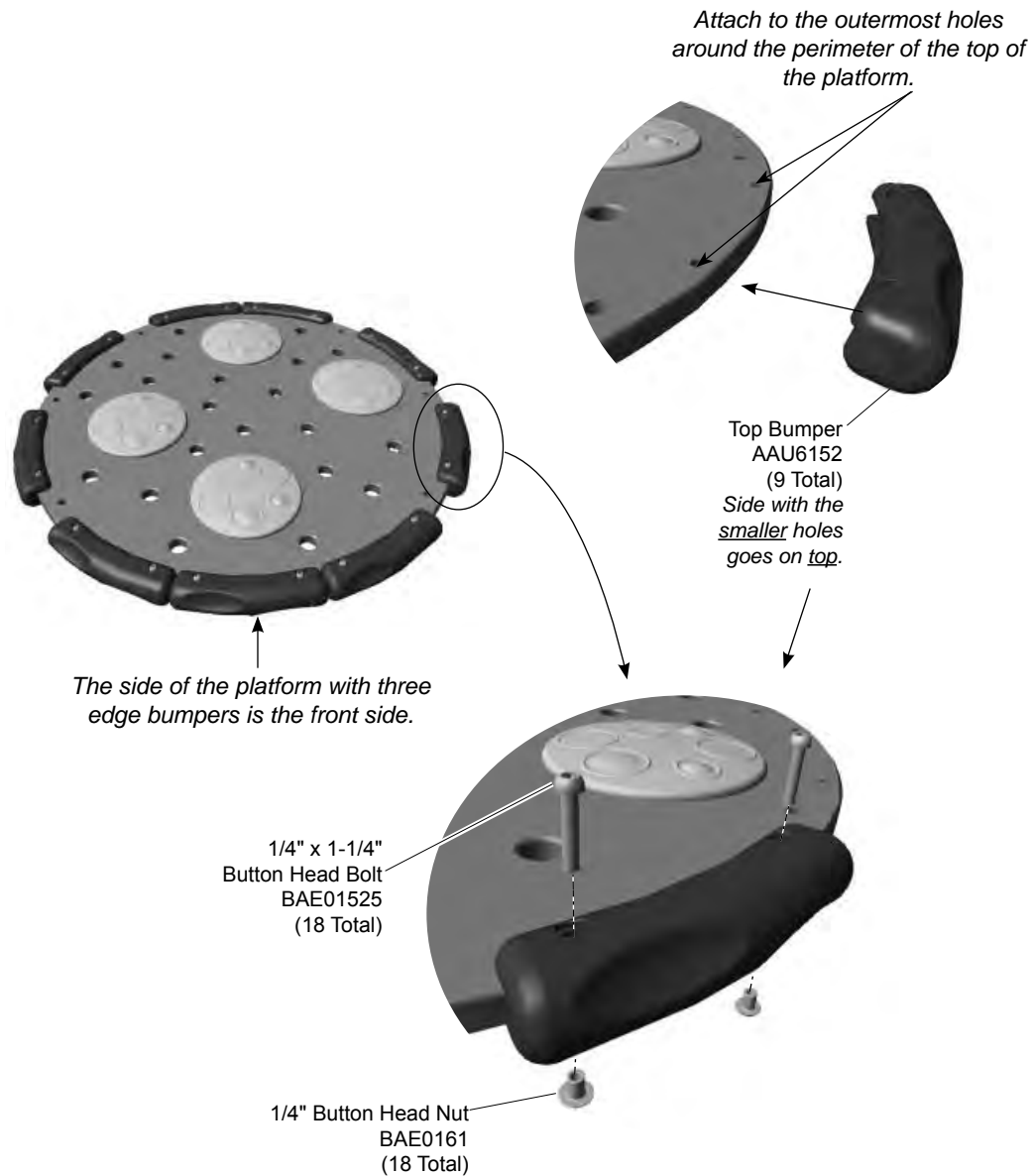


Detail E Step 8



Attach the top bumpers and support plate to the net platform.

Installation Instructions

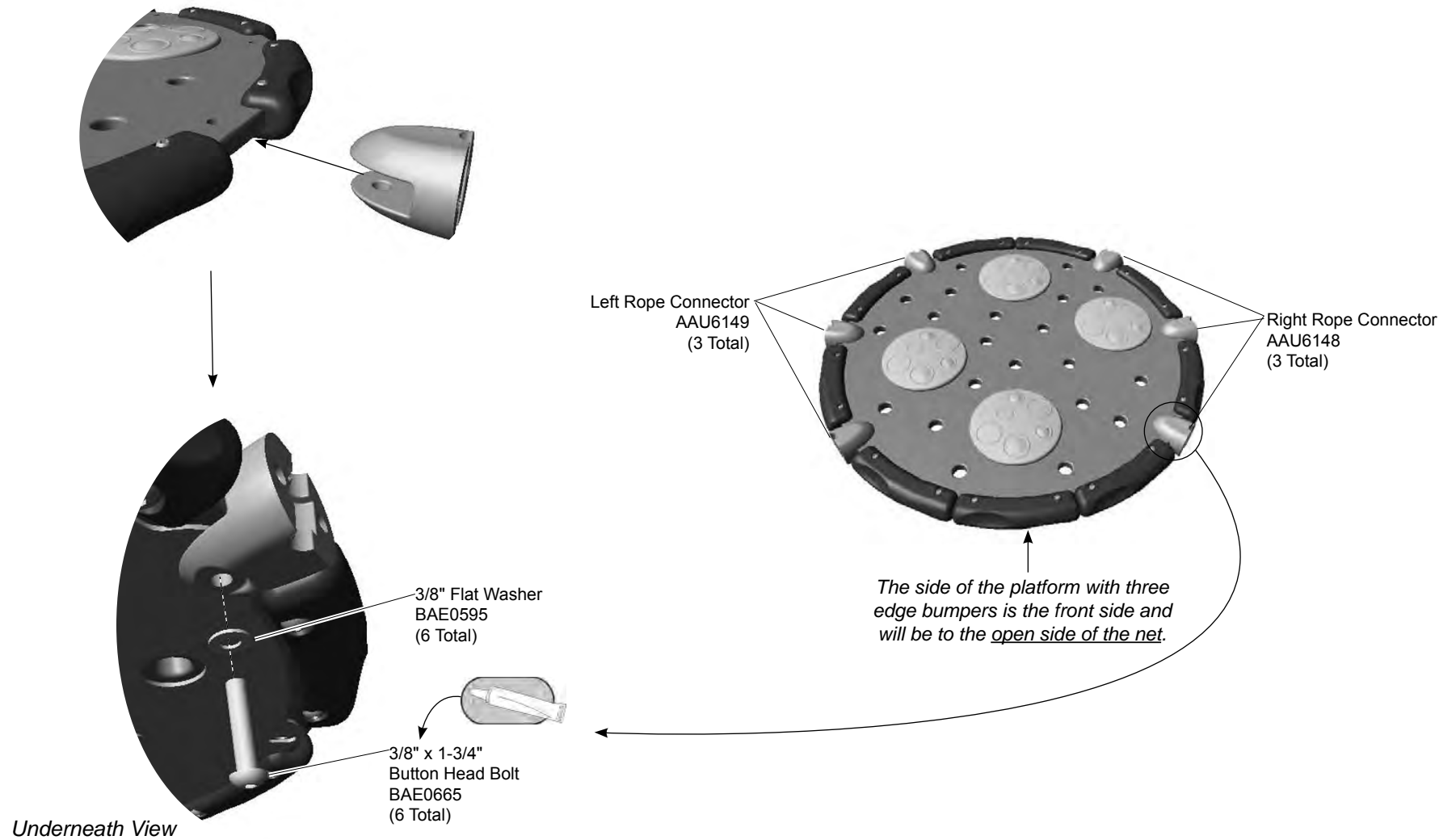


Detail F
Step 9



Attach the edge bumpers to the platform.

Installation Instructions

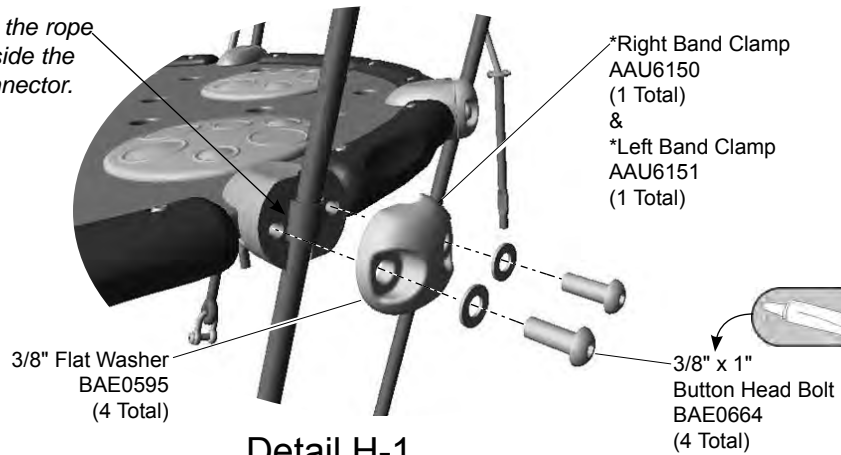


Detail G Step 10

Attach the left and right rope connectors to the platform.

Installation Instructions

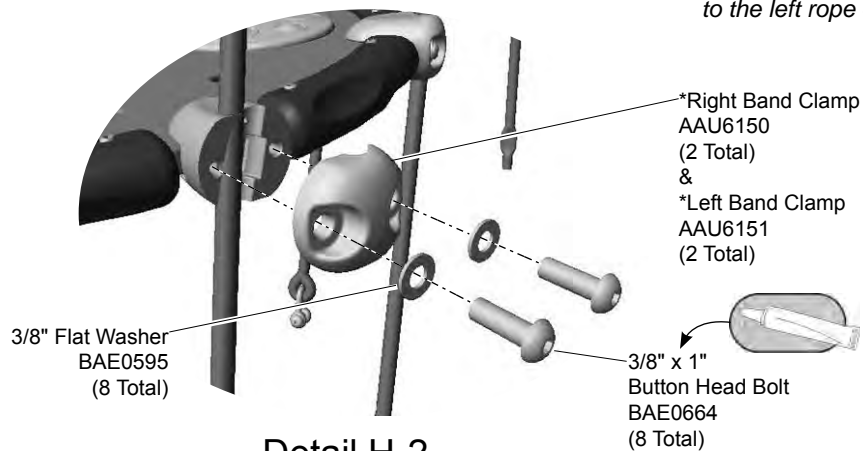
*Ferrule on the rope
seats inside the
rope connector.*



Detail H-1

*First attach the net platform to the two ropes on
the dome net that have ferrules.*

***Note:** Right band clamps attach
only to the right rope connectors
and left band clamps attach only
to the left rope connectors.



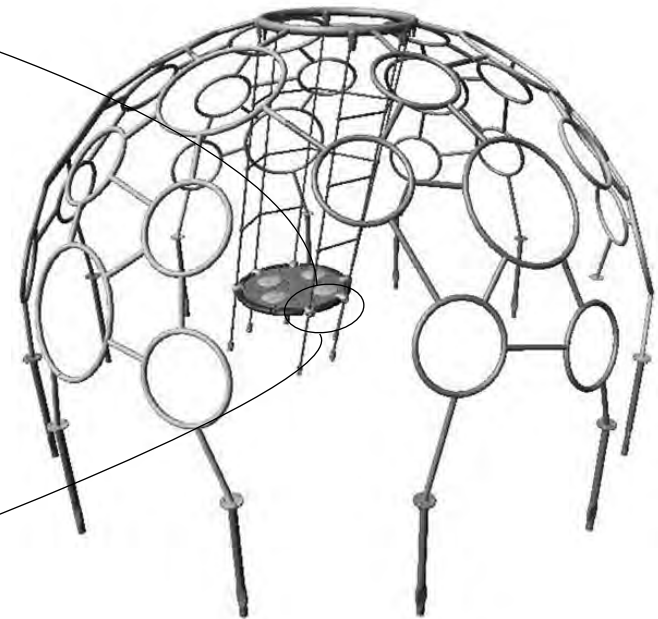
Detail H-2

*Straighten the net platform and attach to
the remaining ropes on the net.*

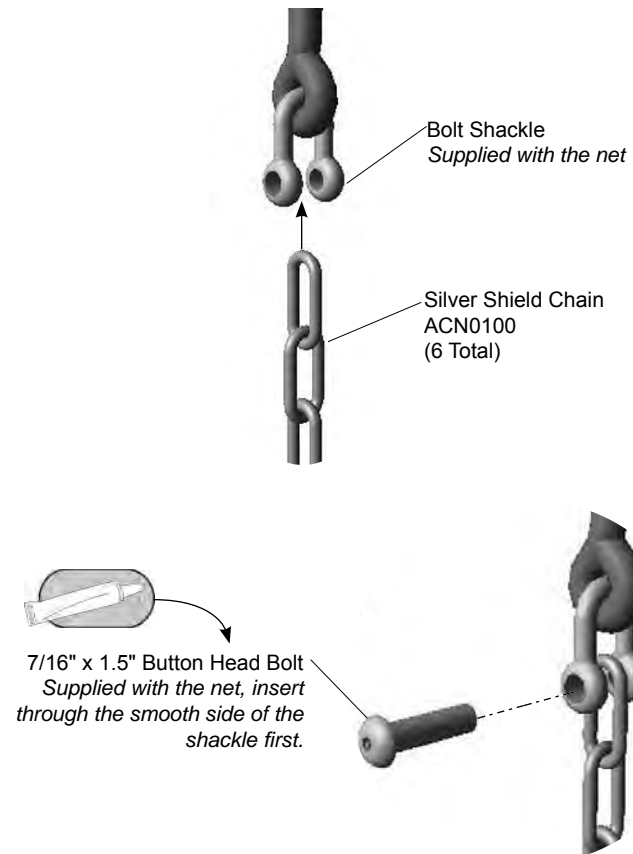
Details H-1 and H-2

Step 11

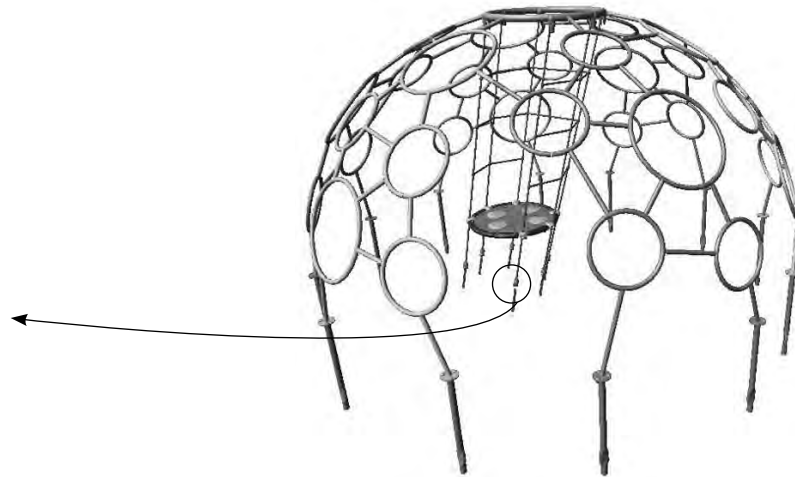
Attach the net platform to the dome net.



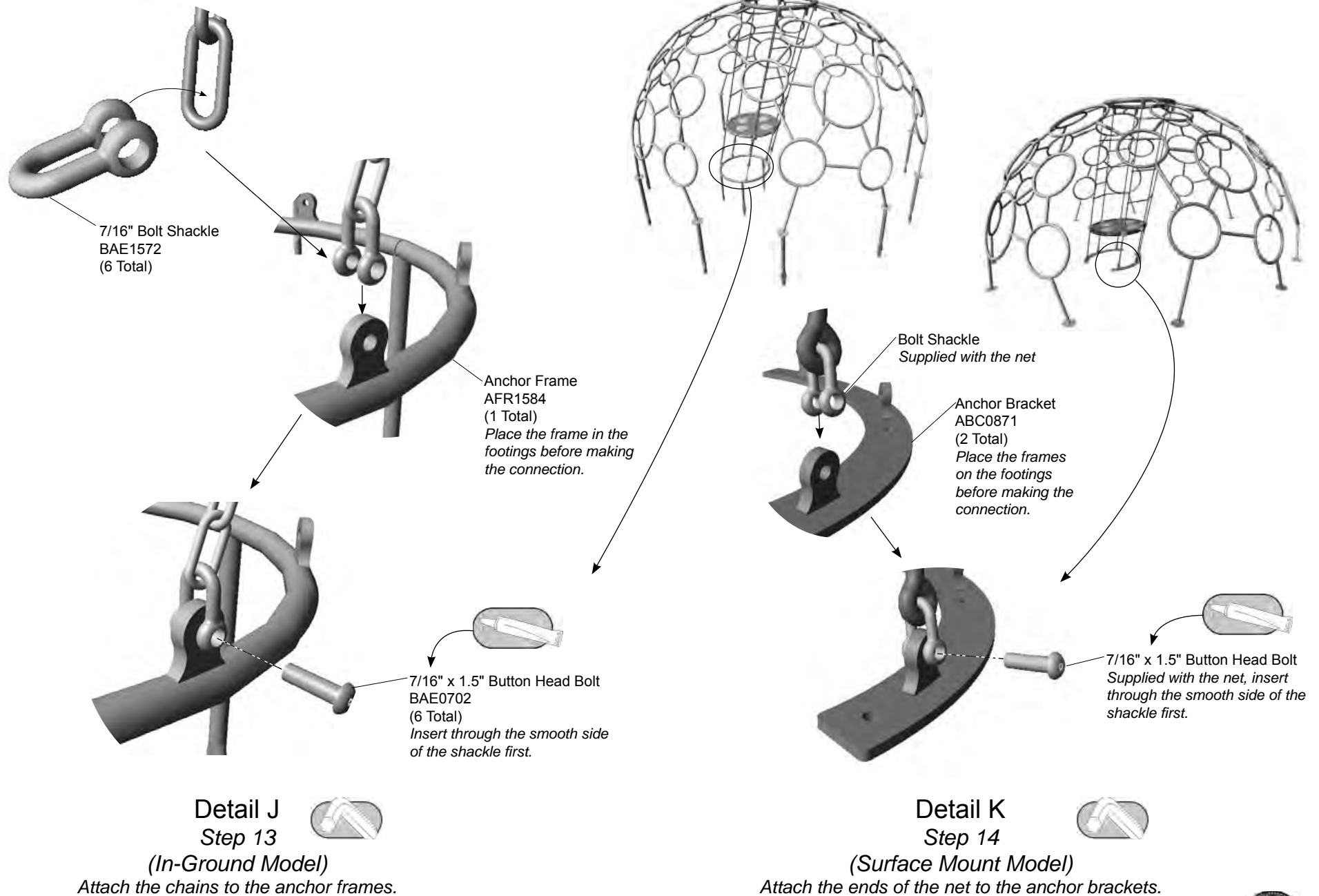
Installation Instructions



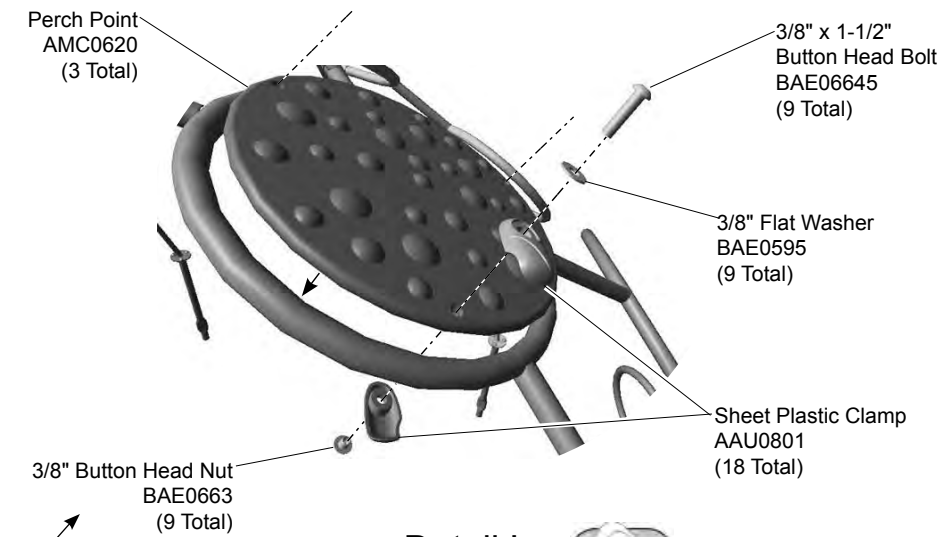
Detail I
Step 11
(In-Ground Model Only)
Attach a chain to the end of each
net rope.



Installation Instructions



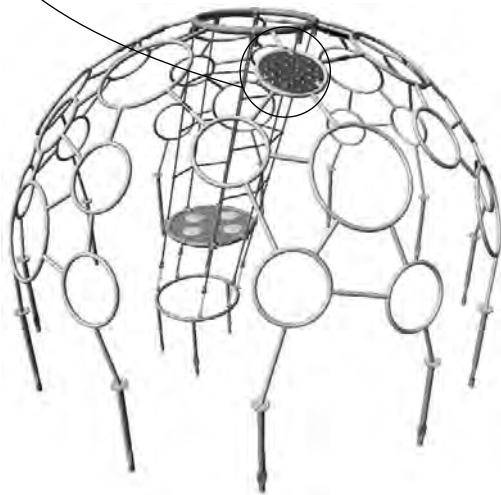
Installation Instructions



Detail L Step 15



Attach a perch to the upper ring on each loop climber "B".



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings. For the *in-ground model*, use the **Support Post Footing Detail**, shown in the *Annex* of this document, for the 18 in. diameter holes (climber anchor legs) and the **Anchor Frame Footing Detail**, shown on **pages 4 & 5** of this document, for the 12 in. diameter holes (dome net anchor frame). See the **Footing Diagram** for the location of those holes. For the *surface mount model*, reference the **Surface Mount Footing Detail** in the *Annex* of this document and the appropriate **Footing Diagram**.

Step 4: (*In-Ground Model Only*) Attach the anchor legs to the loop climbers. See **Detail A**. Position the anchor legs against the bottom of the climbers and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the loop climbers to the top ring. See **Detail B**. Place the climbers in, or on, their footings as you assemble the dome. See the **Important Note** under the **Footing Diagram** for placement of the "A" and "B" climbers. Apply a drop of thread locking adhesive to the bolt threads and attach each climber to the correctly angled stub on the top ring as shown.

Step 6: Connect the loop climbers together. See **Detail C**. Insert the connectors into the climber side rails, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 7: Attach the dome net to the top ring. See **Detail D**. Position the end of each dome net rope between a pair of rope connectors around the top ring and attach as shown.

Important Note: Reference the **Rope Connector Placement Top View** for placement of the net and the rope connectors. *The open side of the net should be facing the footings for the net.*

Step 8: Attach the top bumpers and support plate to the net platform. See **Detail E**. Position the support plate against the bottom of the net platform and align the holes (See **Plate To Platform Alignment Reference**). Insert the bumper into the top of the platform and align the holes. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 9: Attach the edge bumpers to the platform. See **Detail F**. Insert each bumper onto the edge around the perimeter of the platform and align with the two small outer most hole, and attach as shown. The side of the platform with three edge bumpers is the **front** side.

Step 10: Attach the left and right rope connectors to the platform. See **Detail G**. Using the front side of the platform as a point of reference, attach the right rope connectors to the right side of the platform and the left rope connectors to the opposite side.

Step 11: Attach the net platform to the dome net. See **Details H-1 and H-2**. Position the net platform between the dome net with the side with three bumpers to the open side of the net. Straighten and attach the net platform to the two ropes on the dome net that have ferrules. Ensure the ferrules are seated in the connectors and clamps before making the connection. As with the rope connectors the right and left band clamps attach to the respective side of the platform. Apply a drop of thread locking adhesive to the bolt threads before making the connections.

Step 12: (*In-Ground Model Only*) Attach a chain to the end of each net rope. See **Detail I**. Apply a drop of thread locking adhesive to the bolt threads and attach each chain to the end of dome net. Fully tighten the connections according to tightening torque specifications.



Installation Instructions

Step 13: (*In-Ground Model*) Attach the chains to the anchor frame. See **Detail J**. Ensure the anchor frame is positioned correctly in the footings, apply a drop of thread locking adhesive to the bolt threads, and attach as shown to the chains. Fully tighten the connections according to tightening torque specifications.

Step 14: (*Surface Mount Model*) Attach the ends of the net to the anchor brackets. See **Detail K**. Ensure the anchor brackets are positioned correctly on the footings, apply a drop of thread locking adhesive to the bolt threads, and attach as shown to the chains. Fully tighten the connections according to tightening torque specifications.

Step 15: Attach a perch to the upper ring on each loop climber "B". See **Detail L**. Position a perch on top of each upper ring on loop climber "B" and attach as shown. Fully tighten the connections according to tightening torque specifications.

Final Details.

Step 16: Plumb and level the component. **Pull on the net to tighten the ropes and level the platform before anchoring.** Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 17: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Bill of Materials

XX0366 - UNITY DOME

PART NO.	DESCRIPTION	QTY.
AAU0799	CNNCTR - 1.375" O.D. x 4.75" THREADED HOLES	6
AAU0801	CLAMP - 1.315" DIA TO SHEET PLASTIC	18
AAU6142	CASTING - 2.38" O.D. TUBING ROPE CNNCTR	12
AAU6148	CASTING - SHEET / ROPE CNNCTR - RIGHT	3
AAU6149	CASTING - SHEET / ROPE CNNCTR - LEFT	3
AAU6150	CASTING - SHEET / ROPE BAND - RIGHT	3
AAU6151	CASTING - SHEET / ROPE BAND - LEFT	3
AAU6152	BUMPER - PLATFORM EDGE	9
AAU6153	BUMPER - 7.00" DIA INSERT	4
ACL0421	CLIMBER - 40.00" DIA TOP RING	1
ACL0422	CLIMBER - UNITY DOME LOOP - A	3
ACL0423	CLIMBER - UNITY DOME LOOP - B	3
ACN0100	CHAIN - 5/0 SILVER SHIELD CHAIN - 5 LINKS	6
AFR0940	FRAME - 1.90" x 34.00" ANCHOR	12
AFR1584	FRAME - 30.00" DIA NET ANCHOR	1
AMC0613	UNITY DOME NET	1
AMC0620	PERCH POINT - 18.50" DIA x 1.25"	3
APL2048	PLATE - 11 GA x 27.50" DIA SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0112	NUT - 3/8"-16 HEAVY HEX	6
BAE01525	BOLT - 1/4"-20 x 1-1/4" BUTTON HEAD - S.S.	18
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	18
BAE0595	WASHER - 3/8" SAE FLAT	27
BAE0600	WASHER - 1" O.D. FLAT	88
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	36
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	18
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	64
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	9
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - S.S.	12
BAE0702	BOLT - 7/16-14 x 1.50" - BUTTON HEAD	6
BAE0900	WRENCH - 5/32" SHORT HEX KEY	1
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BAE0922	TOOL - TT 45 L WRENCH	2
BAE1572	7/16" BOLT SHACKLE	6
BFC3532	SHEET - .75" x 30.00" DIA PLATFORM	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

XX0366S - UNITY DOME SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0799	CNNCTR - 1.375" O.D. x 4.75" THREADED HOLES	6
AAU0801	CLAMP - 1.315" DIA TO SHEET PLASTIC	18
AAU6142	CASTING - 2.38" O.D. TUBING ROPE CNNCTR	12
AAU6148	CASTING - SHEET / ROPE CNNCTR - RIGHT	3
AAU6149	CASTING - SHEET / ROPE CNNCTR - LEFT	3
AAU6150	CASTING - SHEET / ROPE BAND - RIGHT	3
AAU6151	CASTING - SHEET / ROPE BAND - LEFT	3
AAU6152	BUMPER - PLATFORM EDGE	9
AAU6153	BUMPER - 7.00" DIA INSERT	4
ABC0871	BRACKET - 9.28" x 27.96" ANCHOR	2
ACL0421	CLIMBER - 40.00" DIA TOP RING	1
ACL0422	CLIMBER - UNITY DOME LOOP - A	3
ACL0423	CLIMBER - UNITY DOME LOOP - B	3
AMC0613	UNITY DOME NET	1
AMC0620	PERCH POINT - 18.50" DIA x 1.25"	3
APL2048	PLATE - 11 GA x 27.50" DIA SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0112	NUT - 3/8"-16 HEAVY HEX	6
BAE01525	BOLT - 1/4"-20 x 1-1/4" BUTTON HEAD - S.S.	18
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	18
BAE0595	WASHER - 3/8" SAE FLAT	27
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	18
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	28
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	9
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - S.S.	12
BAE0900	WRENCH - 5/32" SHORT HEX KEY	1
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BAE0922	TOOL - TT 45 L WRENCH	2
BFC3532	SHEET - .75" x 30.00" DIA PLATFORM	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Clamps

- Inspect the band clamps to insure they are properly secured to the rope connectors.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in or on the footings and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

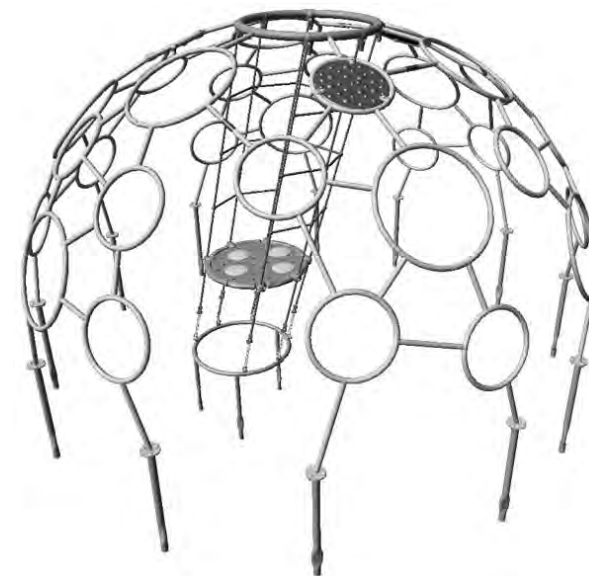
Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0366 and XX0366S Unity Dome In-Ground and Surface Mount





The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ***... for Safety's Sake!***

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect band clamps for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.
- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

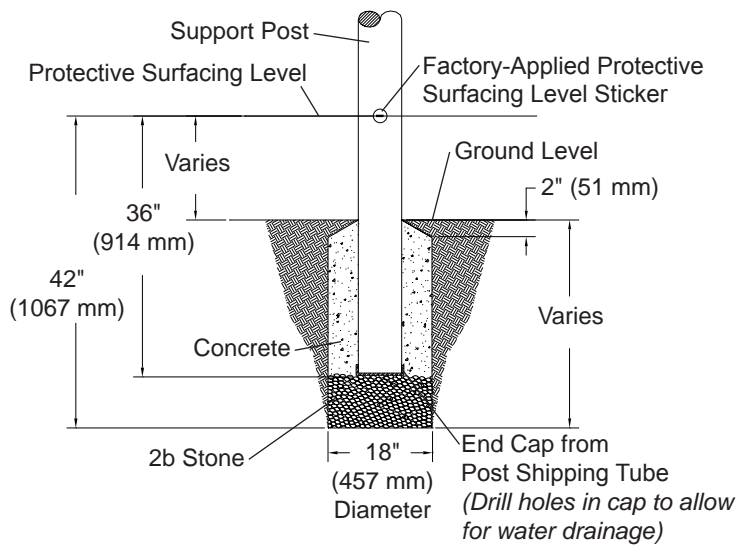
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

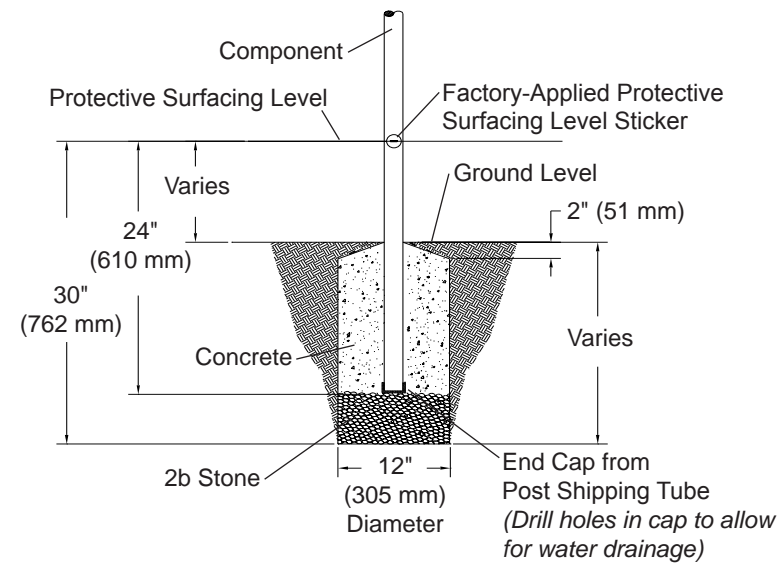
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

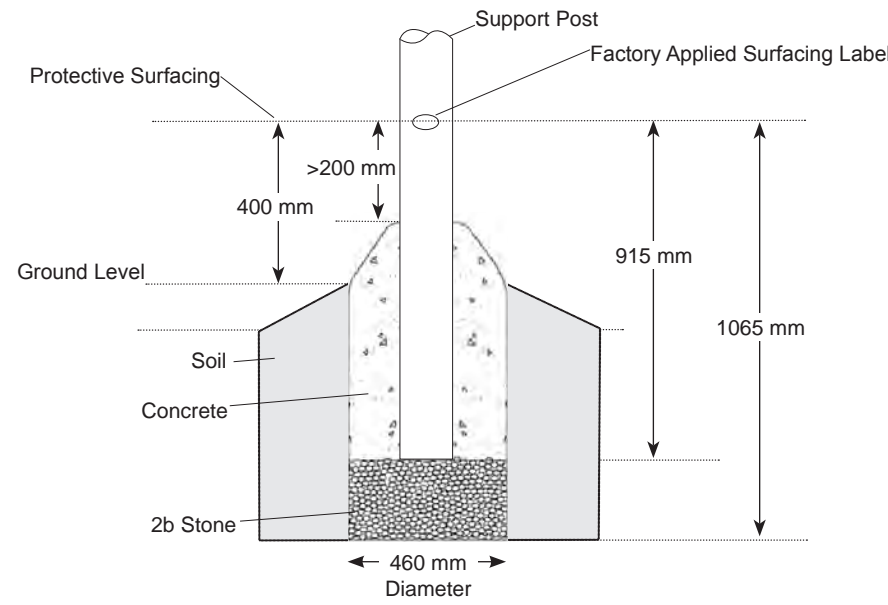
Footings Details (in ground)



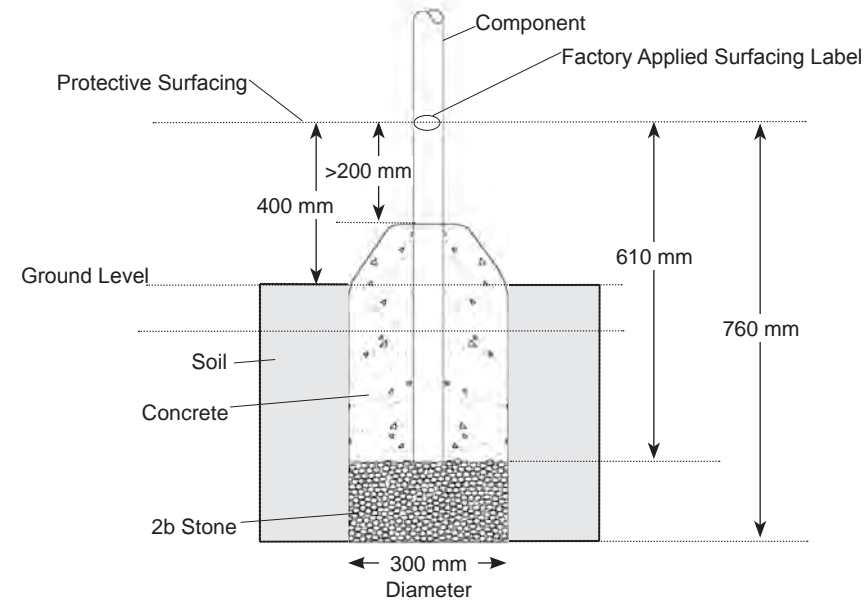
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)

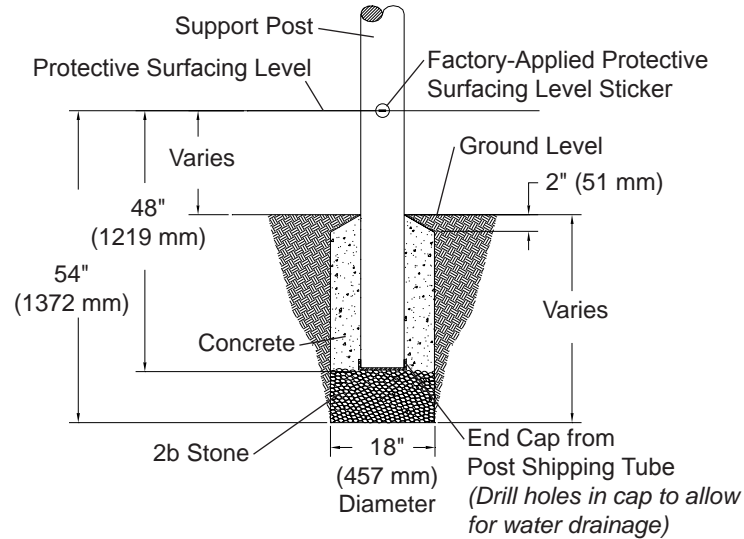


Footing Detail Support Post (EN)

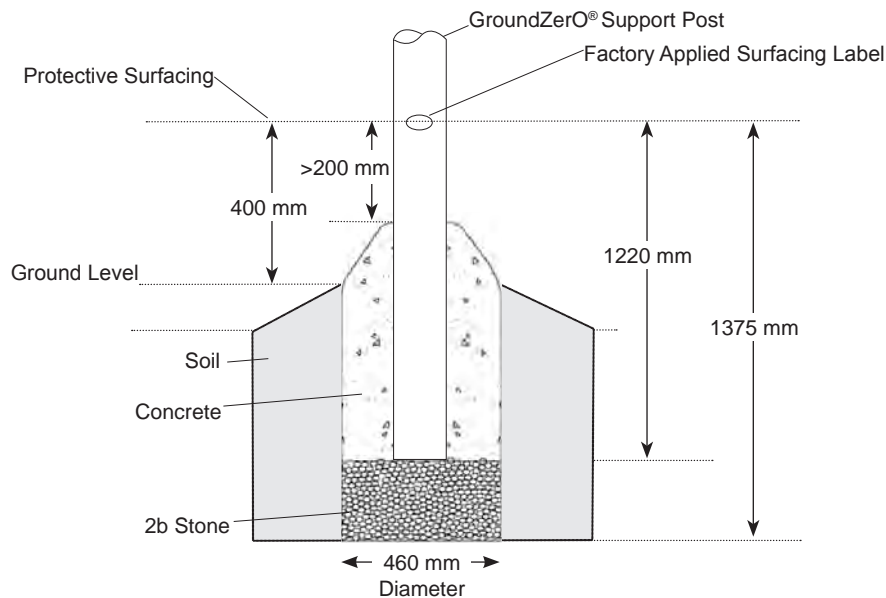


Footing Detail Component Post (EN)

Footings Notes (in ground)

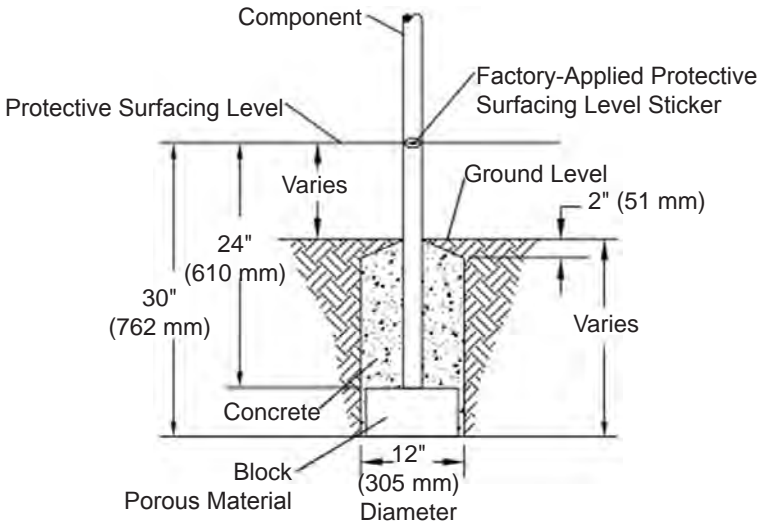


GroundZero® Support Post Footing Detail ASTM/CSA

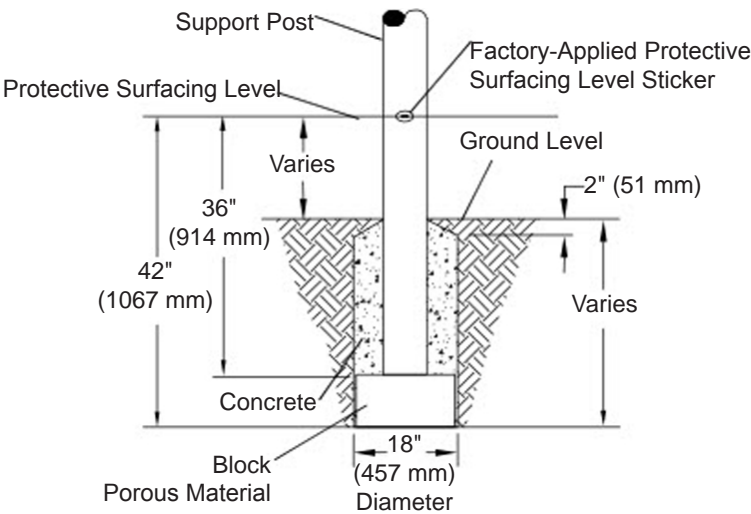


Footing Detail GroundZero® Support Post (EN)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



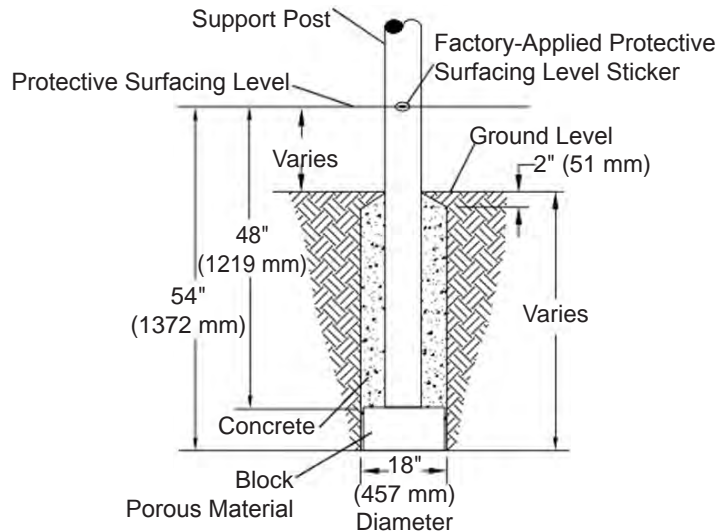
Component Footing Detail (ASTM/CSA)
Block Option



Support Post Footing Detail (ASTM/CSA)
Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

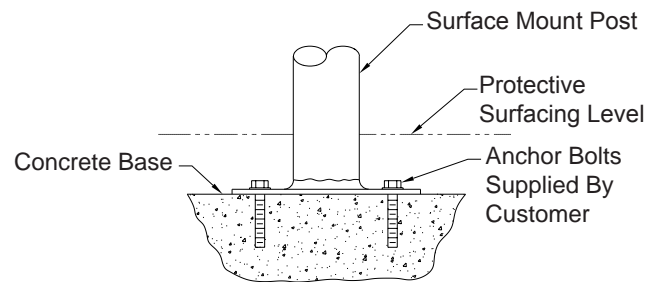


GroundZero® Support Post Footing Detail ASTM/CSA
Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.

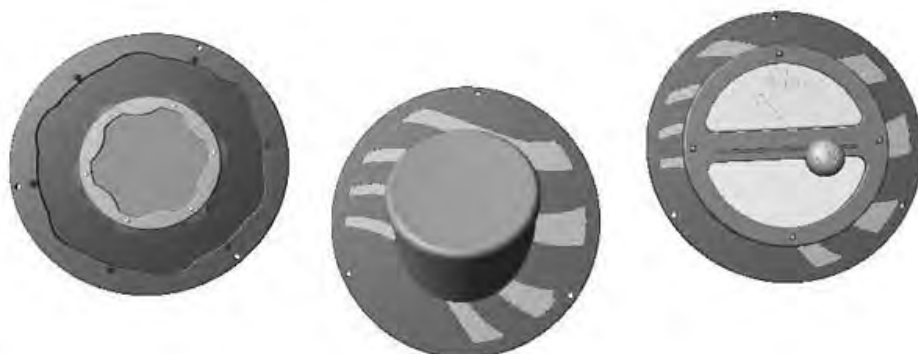


Surfacing Warning Label

Installation Instructions

Playworld Systems® Model XX0367

Unity Dome Sensory Panels








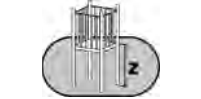


Assembly View

Installation Preparation

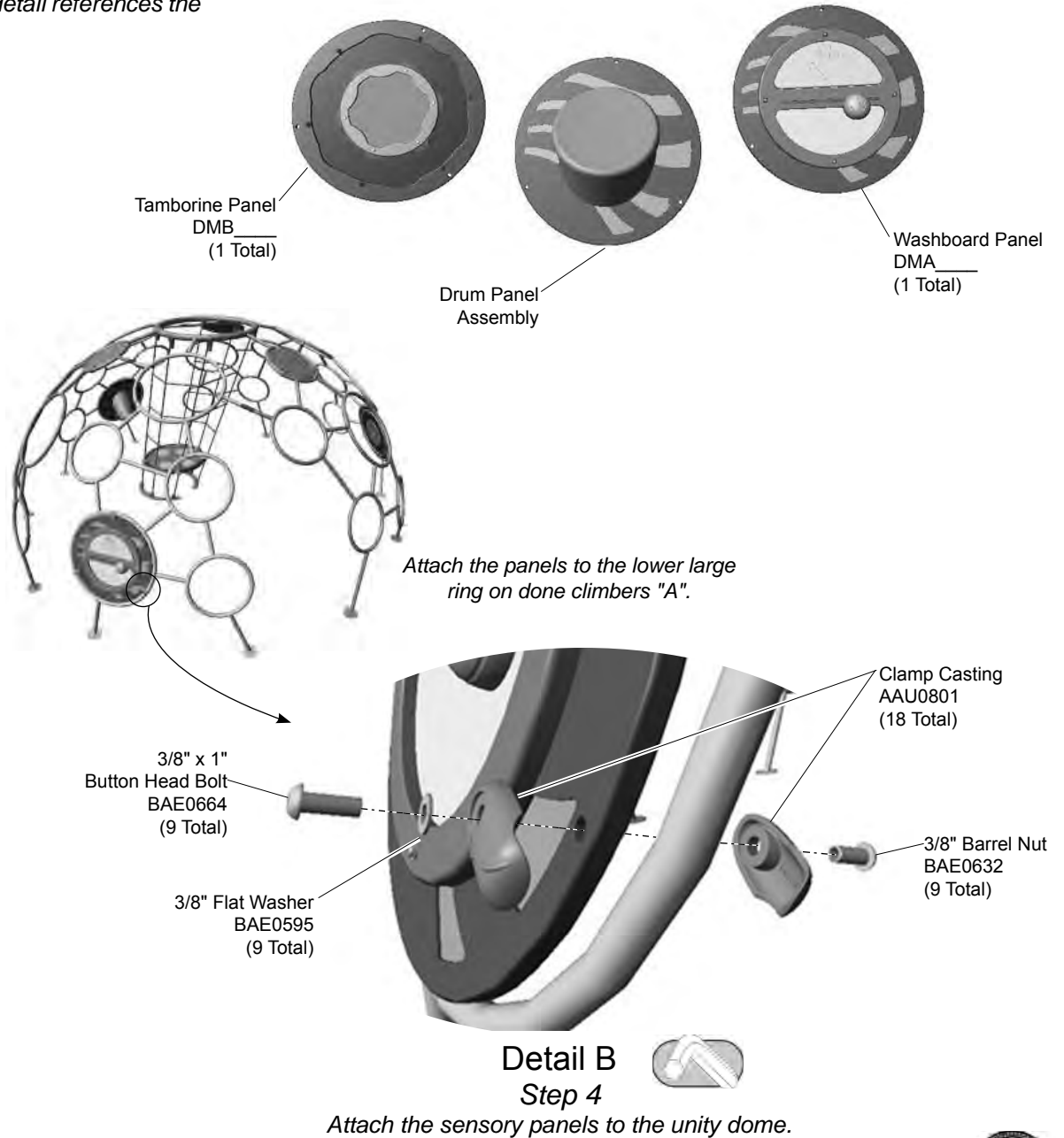
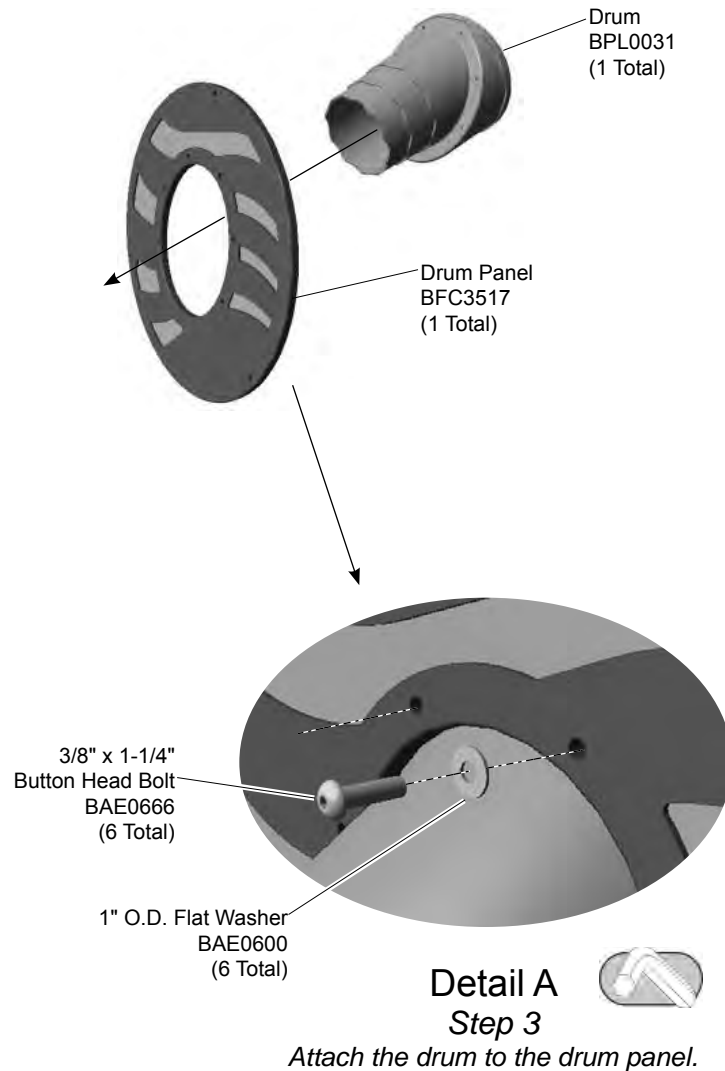
Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 3.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the drum to the drum panel. See **Detail A**. Insert the drum through the panel and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 4: Attach the sensory panels to the unity dome. See **Detail B**. Position each panel against a lower large ring on each "A" climber and attach as shown. Fully tighten the connections according to tightening torque specifications.

XX0367 - UNITY DOME SENSORY PANELS

PART NO.	DESCRIPTION	QTY.
AAU0801	CLAMP - 1.315" DIA TO SHEET PLASTIC	18
BAE0595	WASHER - 3/8" SAE FLAT	9
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0632	NUT - 3/8"-16 x 1.25" BARREL w/PATCH	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	9
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	6
BAE0922	TOOL - TT 45 L WRENCH	1
BFC3517	SHEET - .75" x 28.38" DIA DRUM	1
BPL0031	MISC - 15.50" x 18.23" DRUM	1
DMA_____	ASSEMBLY - WASHBOARD ACTIVITY	1
DMB_____	ASSEMBLY - TAMBORINE ACTIVITY	1



Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

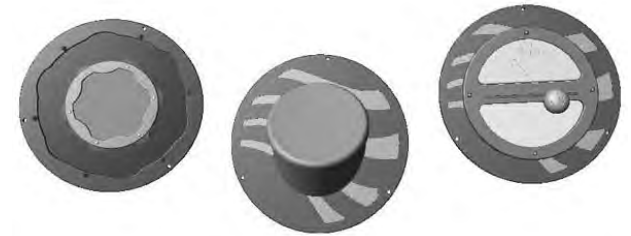
Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0367 Unity Dome Sensory Panels



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ***... for Safety's Sake!***

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect castings for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



BORDNER PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

BORDNER PARK

MADISON, WI

OPTION #1



(800) 775-8937 Main
(608) 423-7655 Fax
809 Bluebird Pass
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



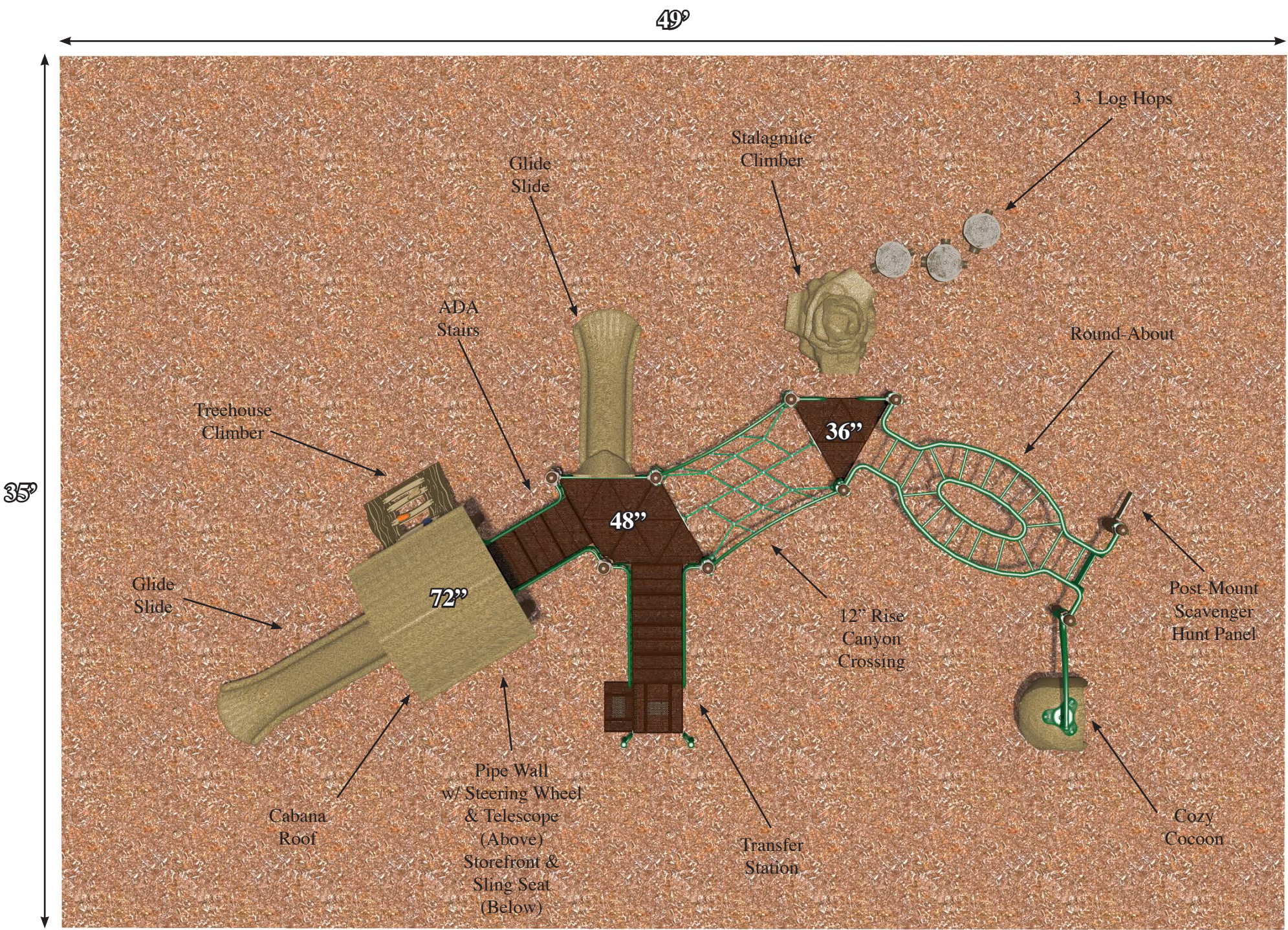
VIEW A



VIEW B

BORDNER PARK

MADISON, WI OPTION #1



(800) 775-8937 Main
(608) 423-7655 Fax
809 Bluebird Pass
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW112216-1
Use Zone: 35' x 49'
of Users: 44
of Active Play Events: 15
Age: 5 to 12

Colors Shown:

 Chocolate

 Brownstone

 Green





Assembly View *(representative model)*

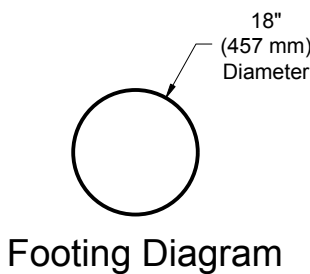
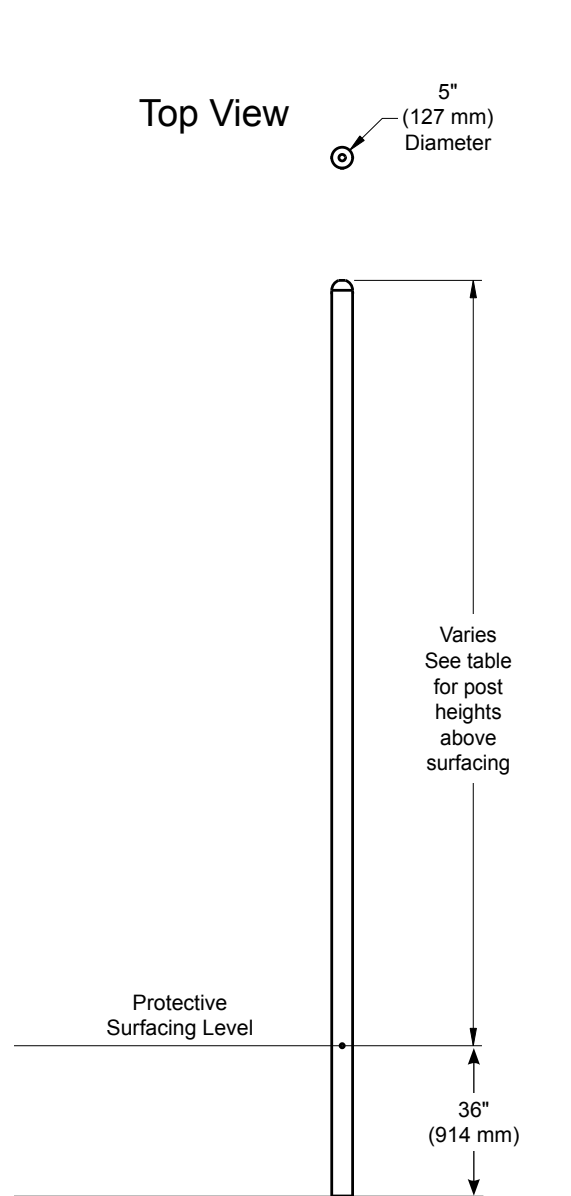
Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
ZZPM0036A	144" (3658 mm)	108" (2743 mm)
ZZPM0046A	156" (3962 mm)	120" (3048 mm)
ZZPM0056A	168" (4267 mm)	132" (3353 mm)
ZZPM0066A	180" (4623 mm)	144" (3658 mm)
ZZPM0078A	205" (5207 mm)	169" (4293 mm)
ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

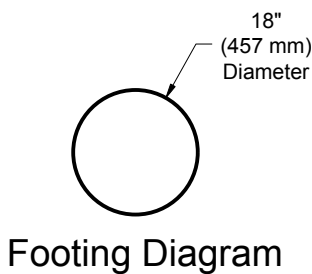
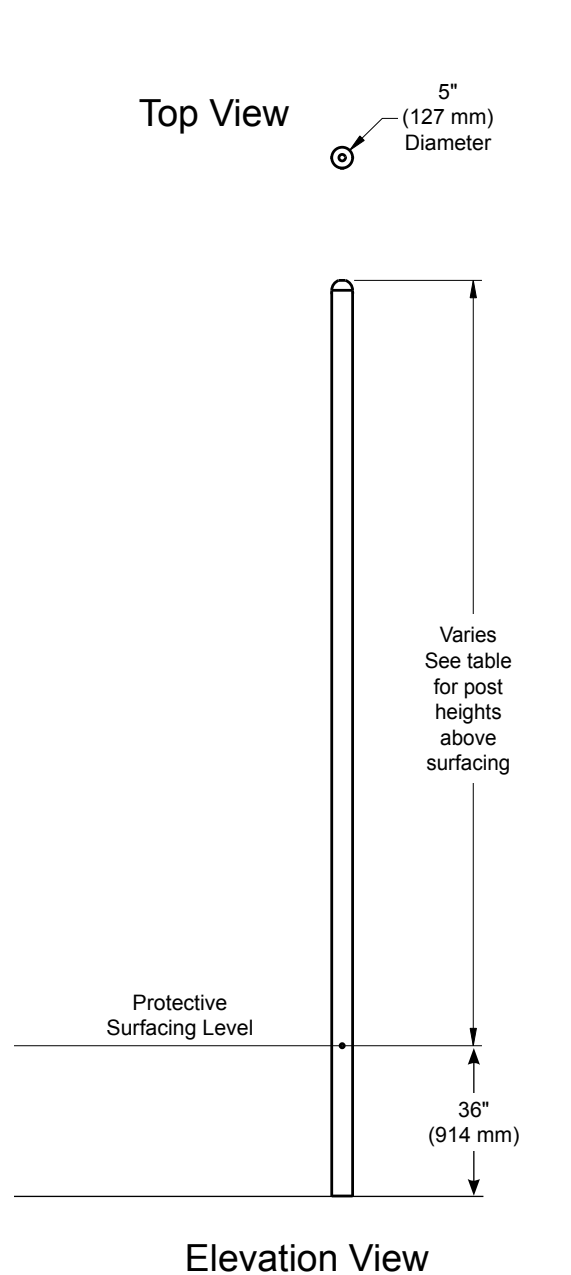
Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
ZZPM0036A	144" (3658 mm)	108" (2743 mm)
ZZPM0046A	156" (3962 mm)	120" (3048 mm)
ZZPM0056A	168" (4267 mm)	132" (3353 mm)
ZZPM0066A	180" (4623 mm)	144" (3658 mm)
ZZPM0078A	205" (5207 mm)	169" (4293 mm)
ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

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Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

Installation Instructions

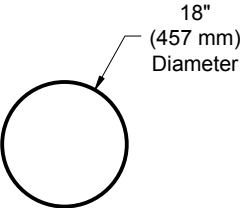
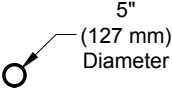
Playmakers® Models PM0017A, PM0027A, PM0037A,
PM0047A, PM0057A, PM0067A, PM0079A, PM0129A,
PM0136A, PM0138A, PM0267A, PM0269A
Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

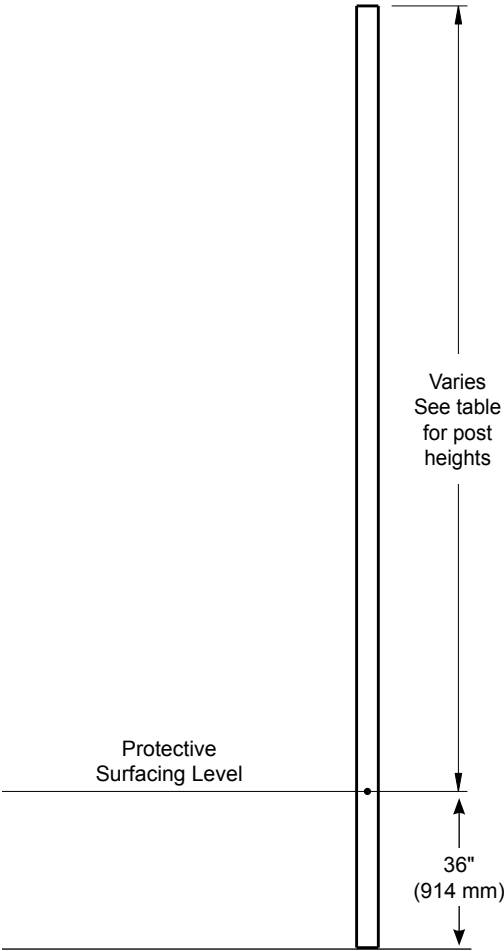
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0017A	120" (3048 mm)	84" (2134 mm)
ZZPM0027A	132" (3353 mm)	96" (2438 mm)
ZZPM0037A	144" (3658 mm)	108" (2743 mm)
ZZPM0047A	156" (3962 mm)	120" (3048 mm)
ZZPM0057A	168" (4267 mm)	132" (3353 mm)
ZZPM0067A	180" (4572 mm)	144" (3658 mm)
ZZPM0079A	205" (5207 mm)	169" (4293 mm)
ZZPM0129A	192" (4877 mm)	156" (3962 mm)
ZZPM0136A	96" (2438 mm)	60" (1524 mm)
ZZPM0138A	108" (2743 mm)	72" (1829 mm)
ZZPM0267A	217" (5512 mm)	181" (4597 mm)
ZZPM0269A	229" (5817 mm)	193" (4902 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



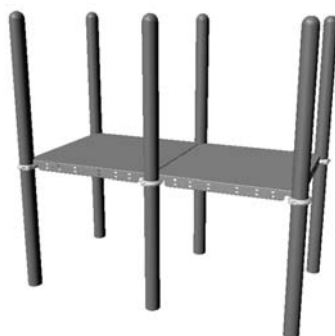
Installation Instructions

Playmakers® PM0616 and PM0629

Square and Long Coated Perforated Decks



ZZPM0616
Square Deck



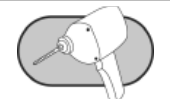
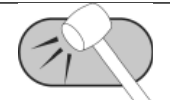

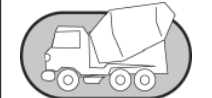

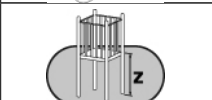


ZZPM0629
Long Deck

Assembly View

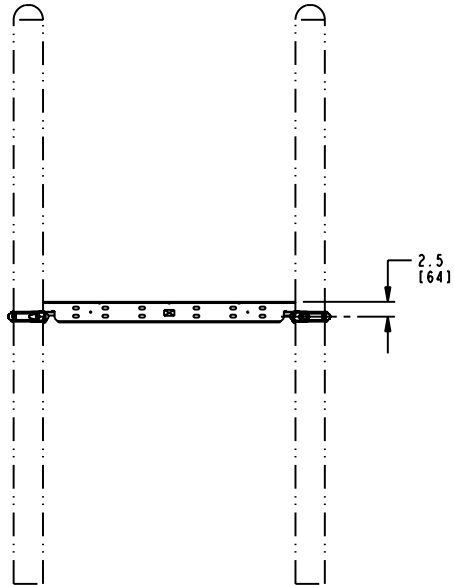
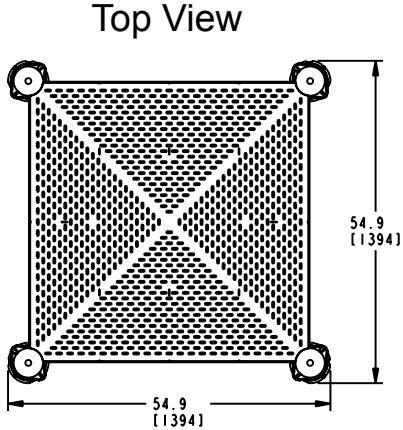
Installation Preparation

Recommended Crew (PM0616):..... Two (2) adults
 Recommended Crew (PM0629):..... Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

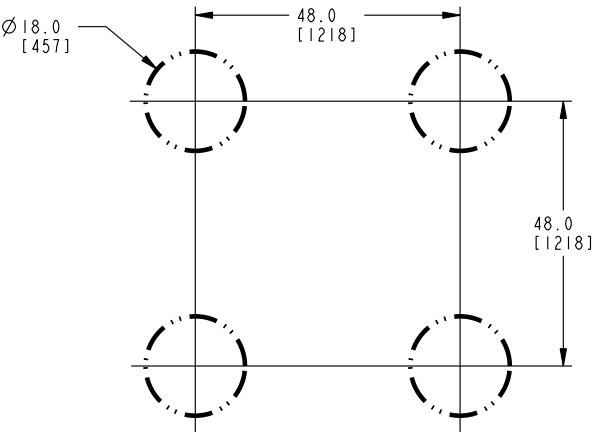
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

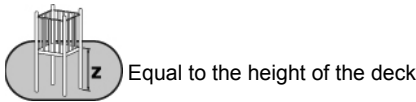
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Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

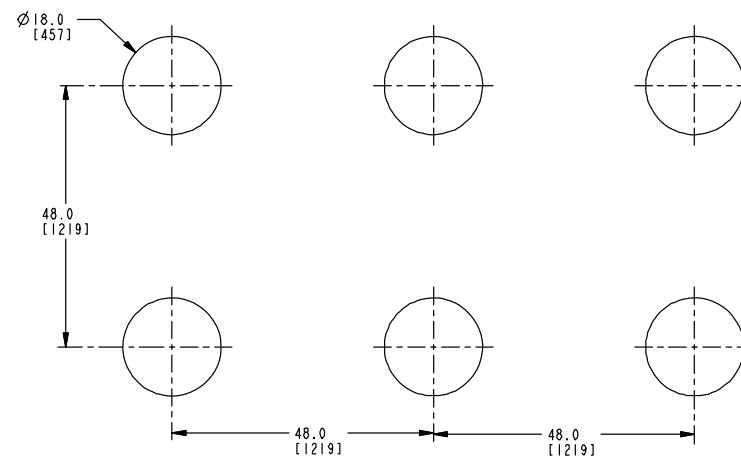
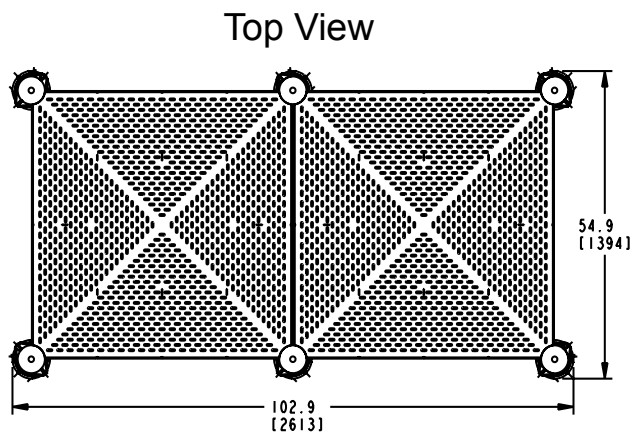


Footing Diagram

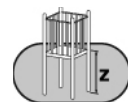
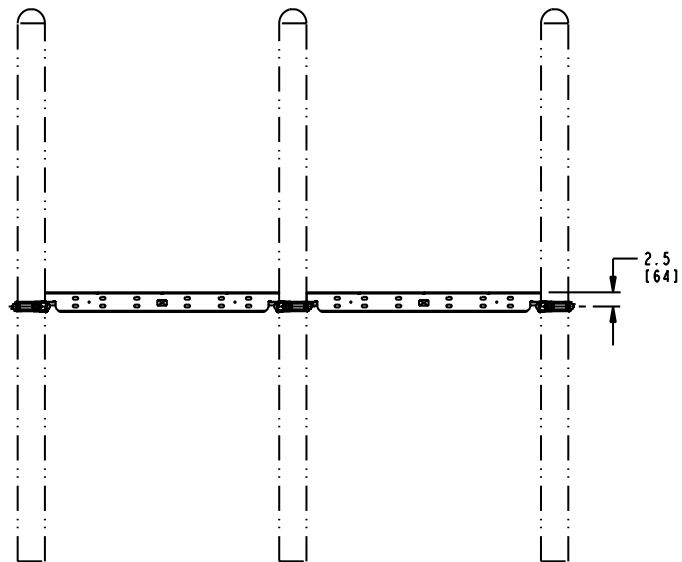


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



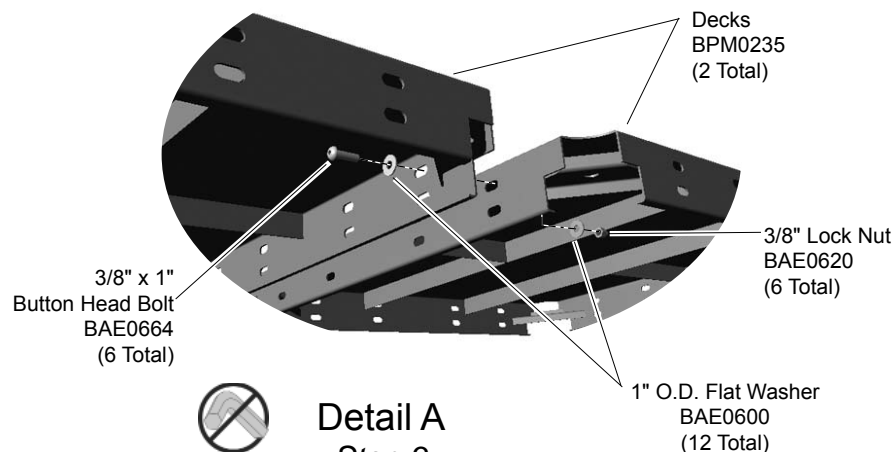
Equal to the height of the deck

Elevation View
Model PM0629



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

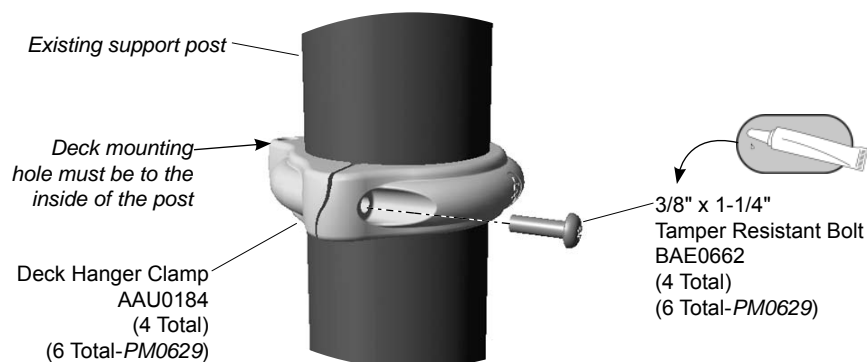


Detail A

Step 3

(Model PM0629 Only)

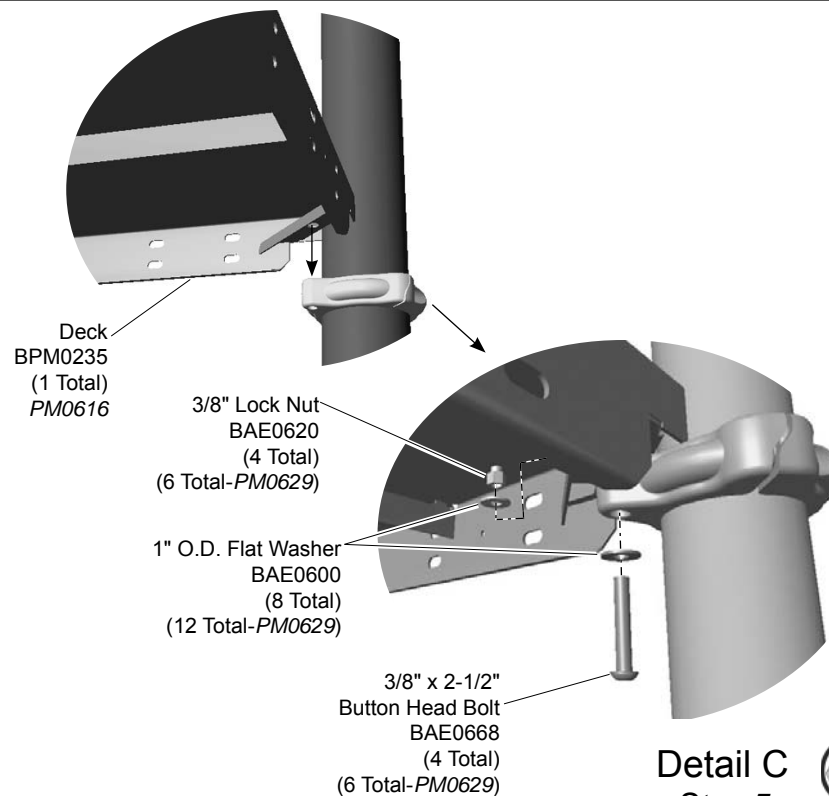
Attach the two decks together.



Detail B

Step 4

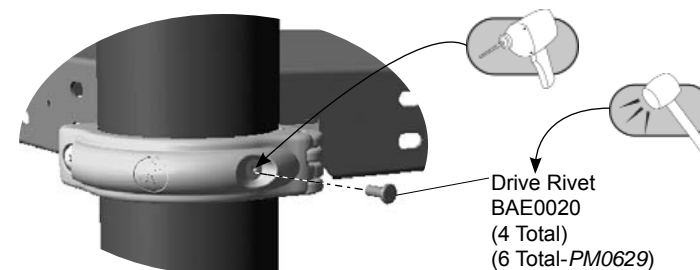
Attach the deck clamps to the support posts.



Detail C

Step 5

Attach the decks to the clamps.



Detail D

Step 7

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0235	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



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Installation Instructions

Playmakers® PM0617, and PM0639

Triangular and 45 Degree Tri-Deck

Coated Perforated Decks



ZZPM0617
Triangular Deck








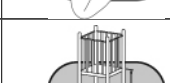


ZZPM0639
45 Degree Tri-Deck

Assembly View

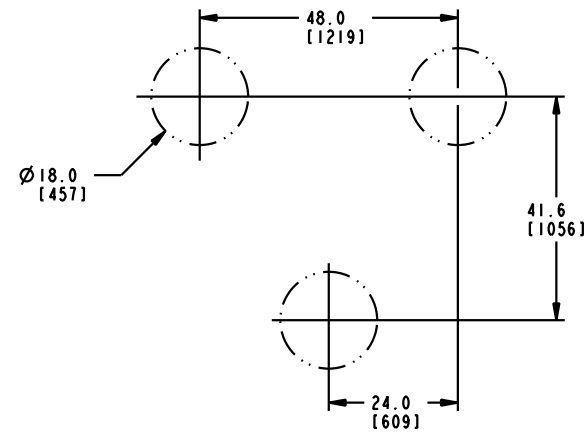
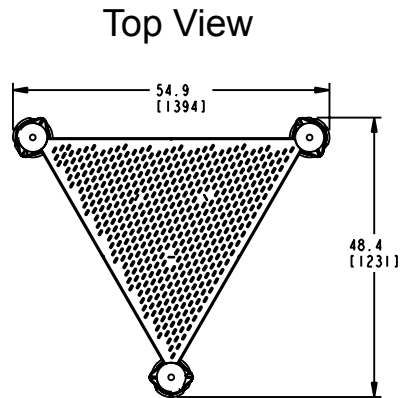
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

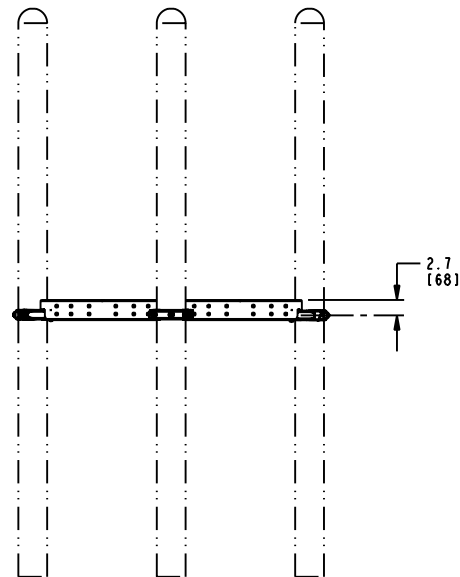
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

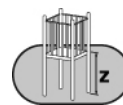
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



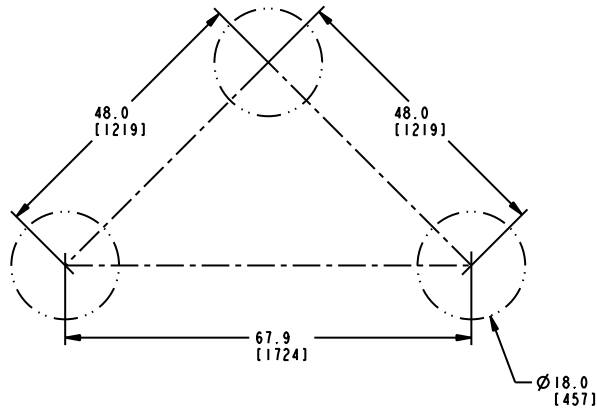
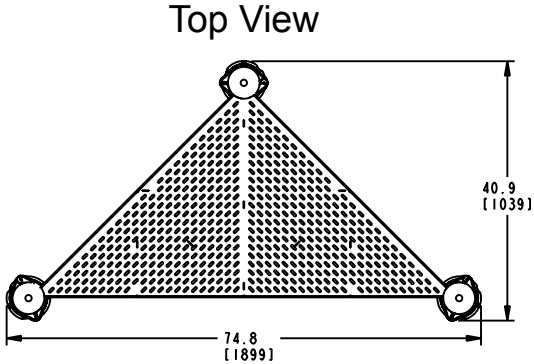
Elevation View
Model PM0617



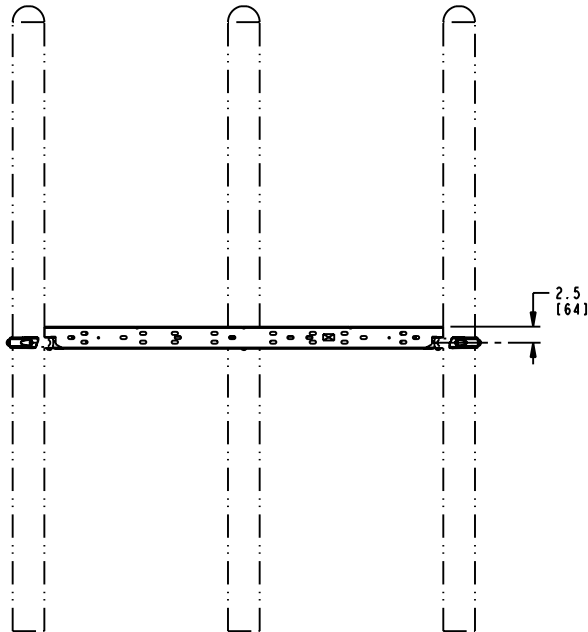
Equal to the height of the deck

Installation Instructions

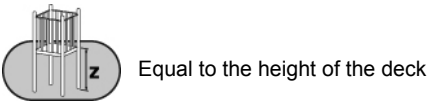
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

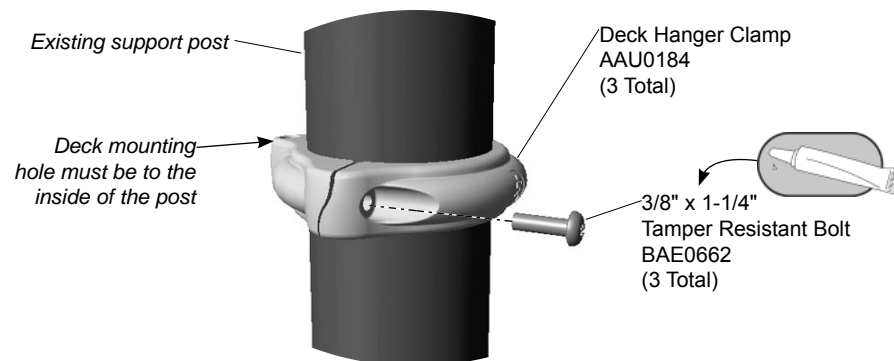


Elevation View
Model PM0639



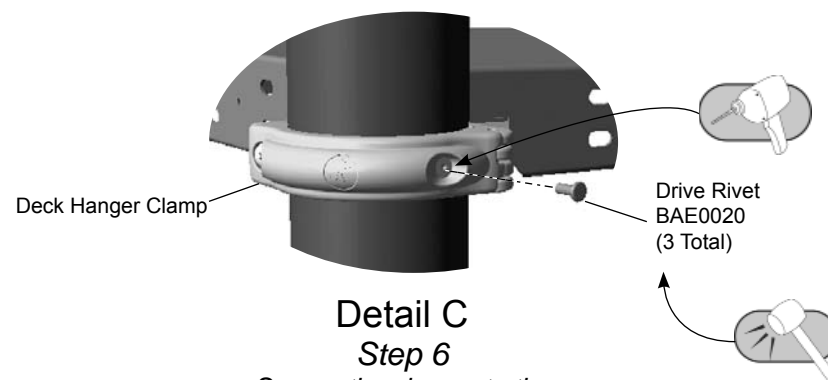
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 3

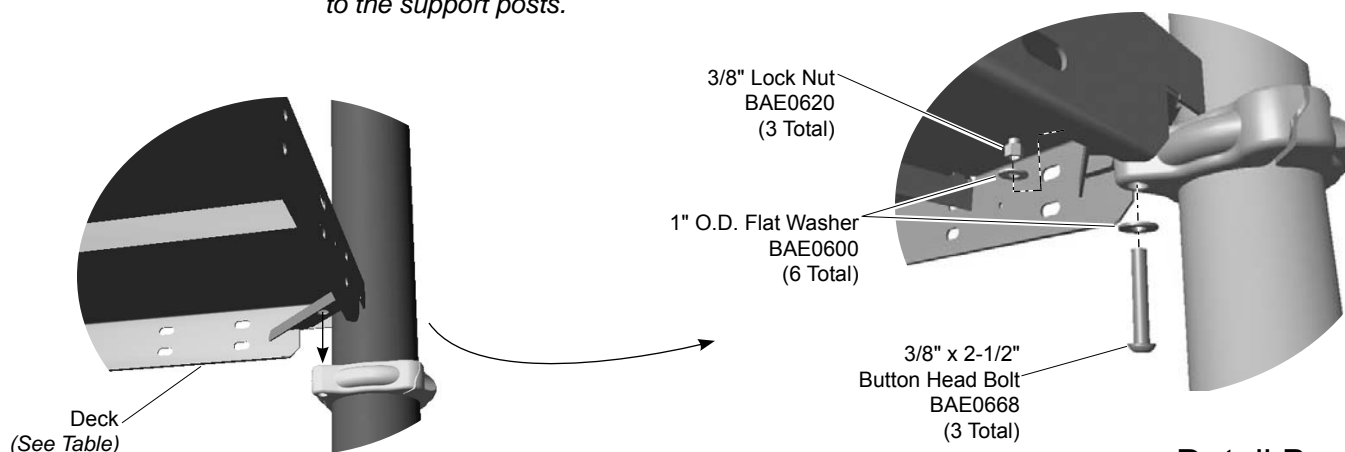
Attach the deck hanger clamps to the support posts.



Detail C

Step 6

Secure the clamps to the support posts.



Detail B
Step 4

Attach the deck to the deck hanger clamps.

Model	Deck Shape	Deck Part Number
ZZPM0617	Triangular	BPM0287
ZZPM0639	45° Tri-Deck	BPM0289

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: Attach the clamps to the support posts. See **Detail A**. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 4: Attach the deck to the clamps. See **Detail B**. Using adequate manpower, position the deck between the posts and resting on top of the clamps. Align the holes and attach as shown.

Final Details.

Step 5: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0617 - TRIANGULAR COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0287	PLATFORM - PM TRIANGULAR PERF	1

PM0639 - 45 DEGREE TRI-DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0289	PLATFORM - PM 45 DEG TRI DECK	1



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Assembly View (representative model)

Installation Instructions





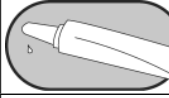


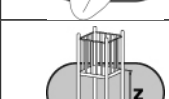
Playmakers® Models PM2027 and PM2027S

48 in. (1219 mm) Transfer Station

In-Ground and Surface Mount

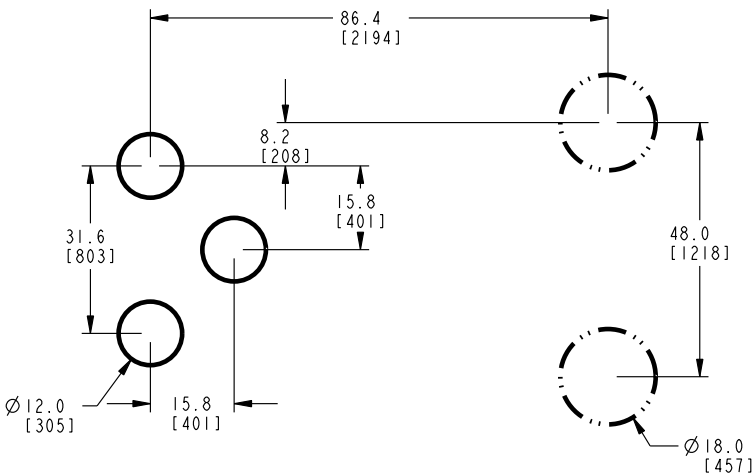
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (In-Ground): 3 man-hours
 Installation Time (Surface Mount): 1.5 man-hours
 Concrete Required: 0.09 cubic yard (0,07 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

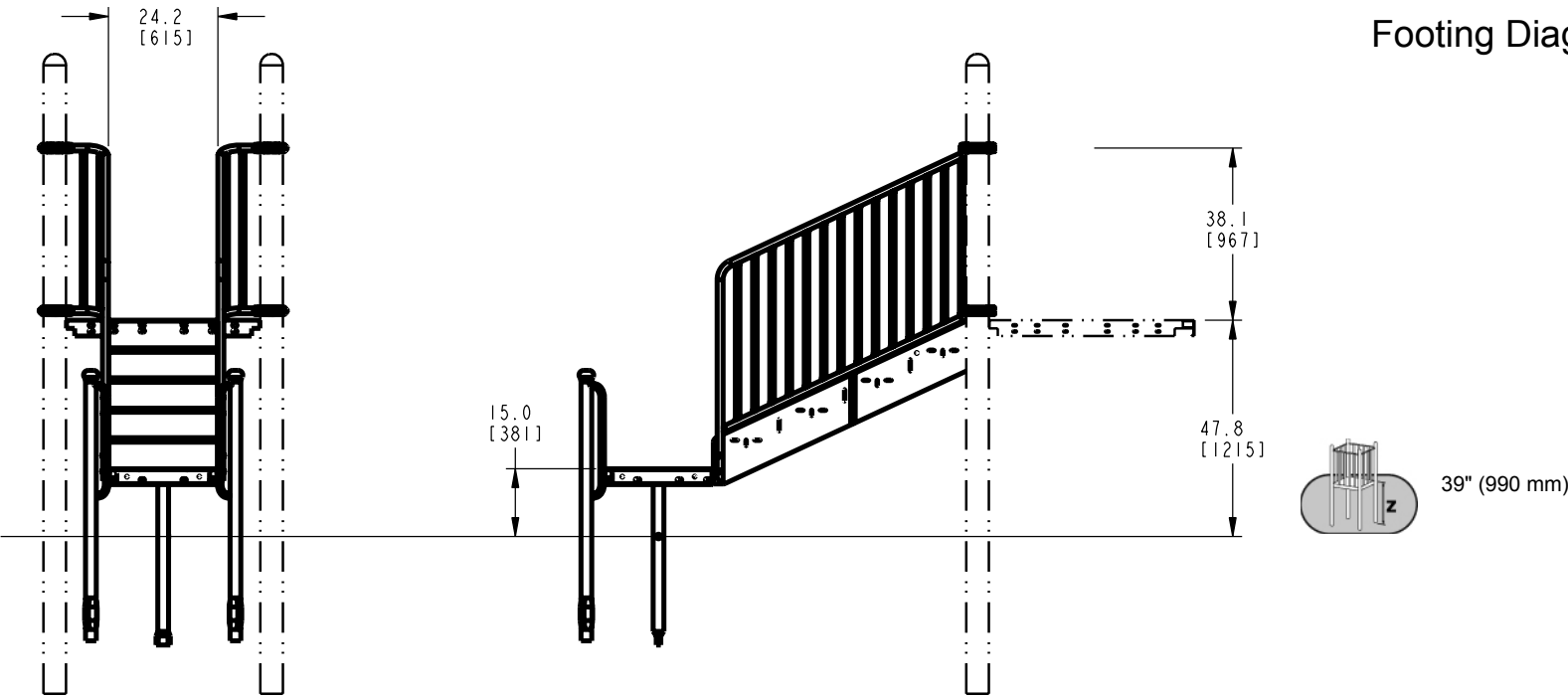
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

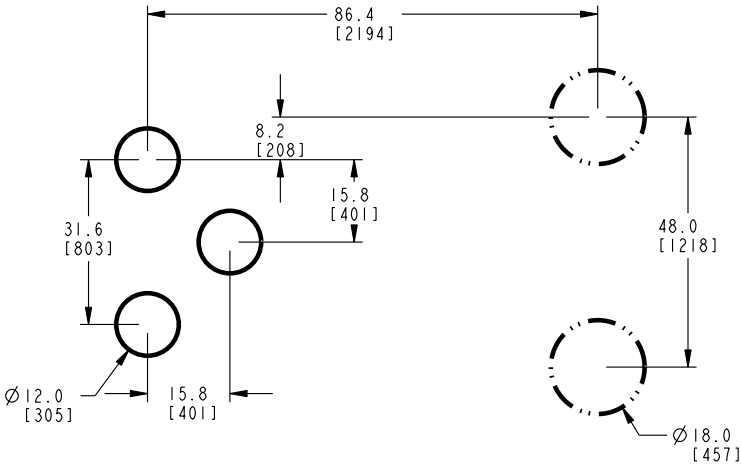


Elevation Views
PM2027

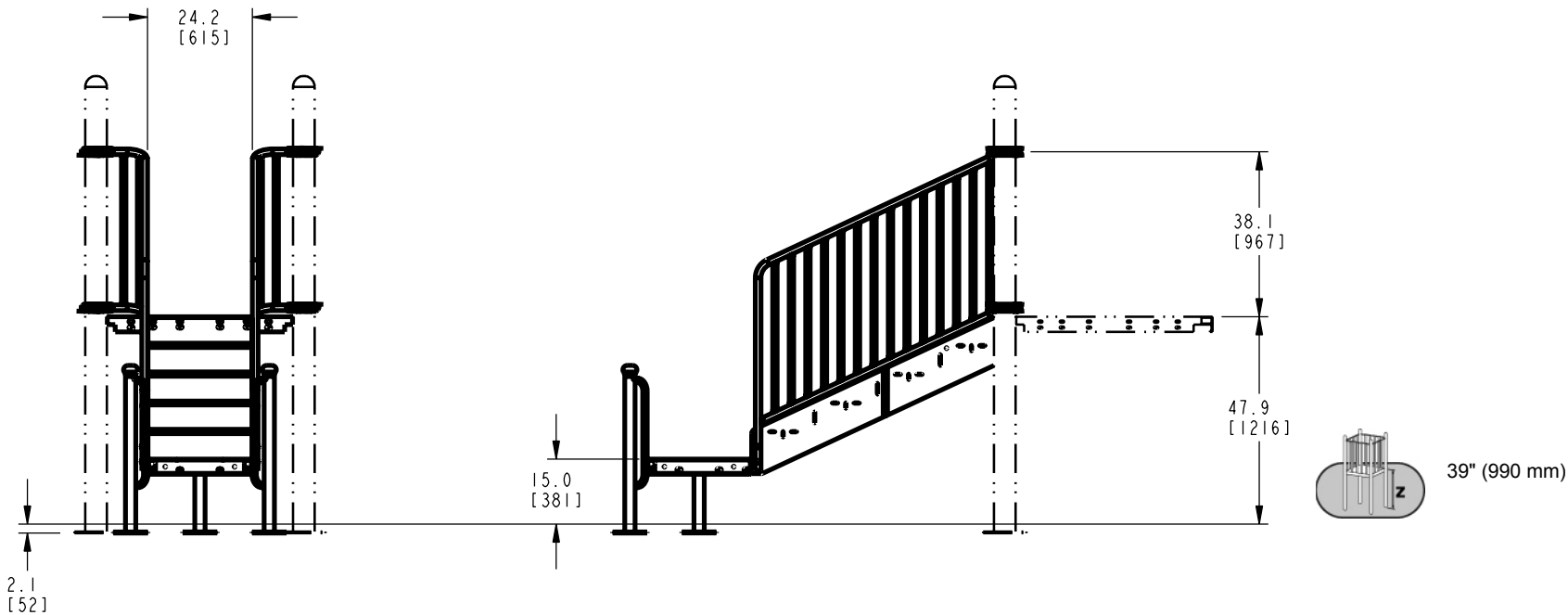


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

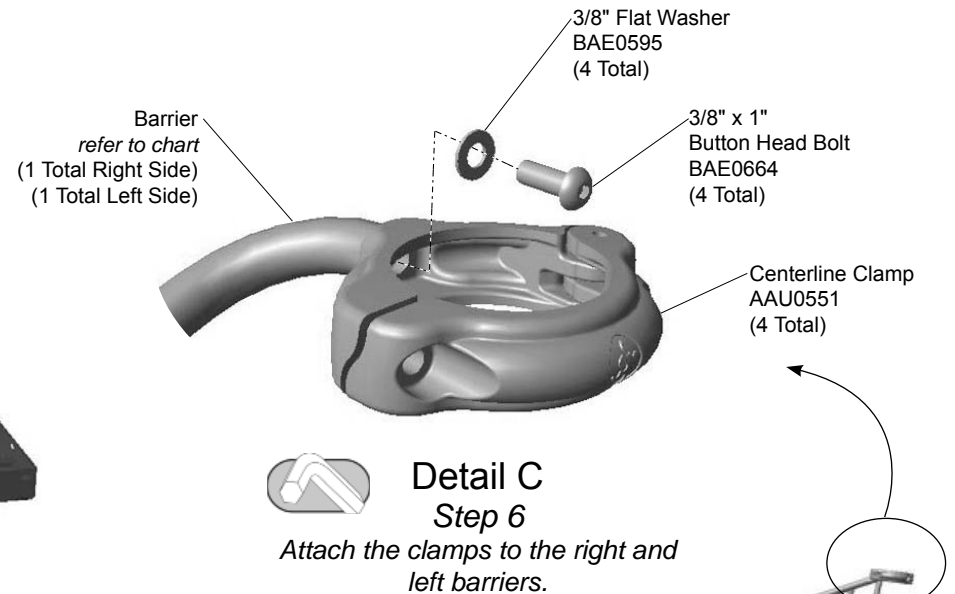
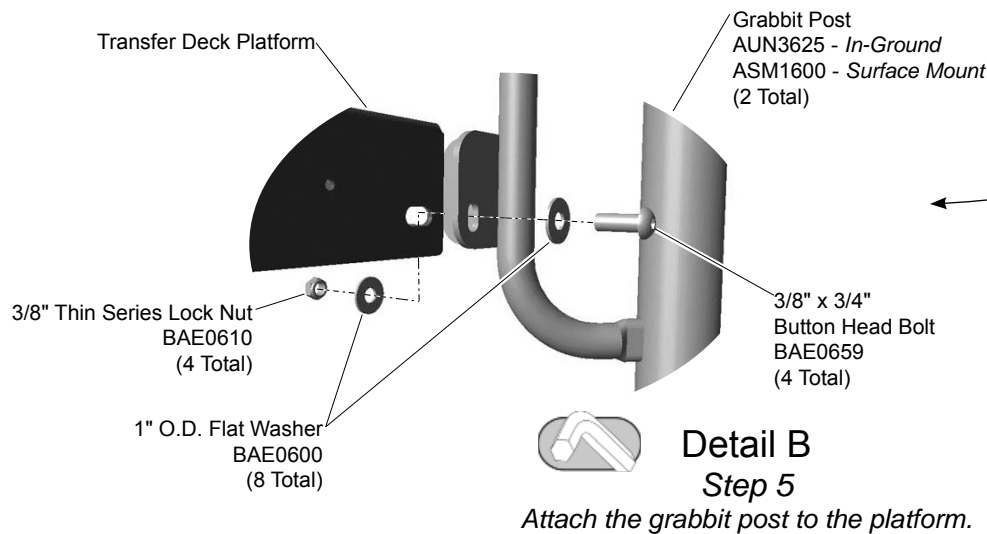
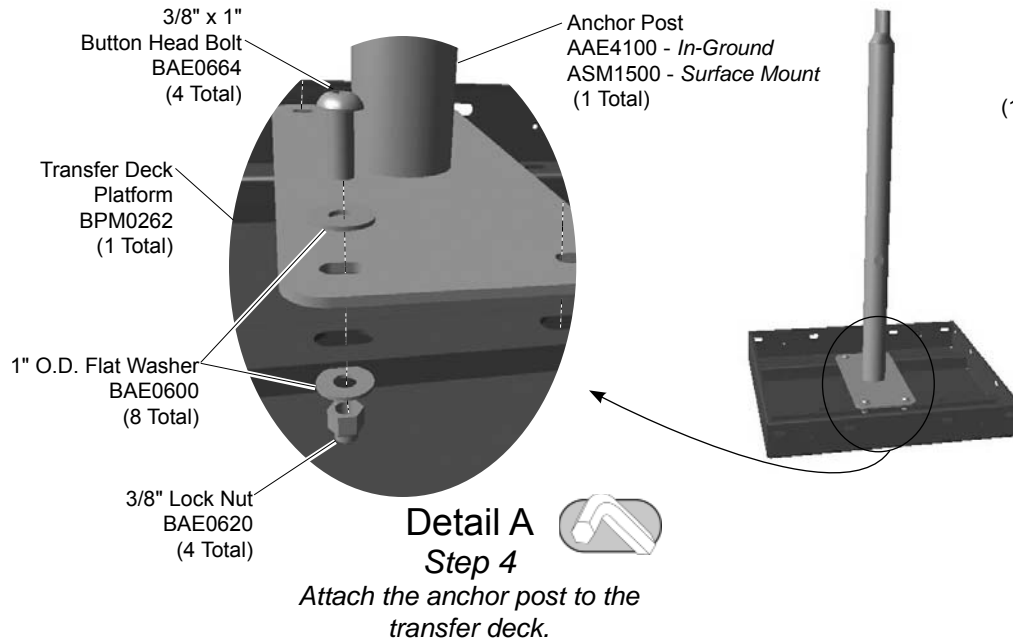


Elevation Views
PM2027S



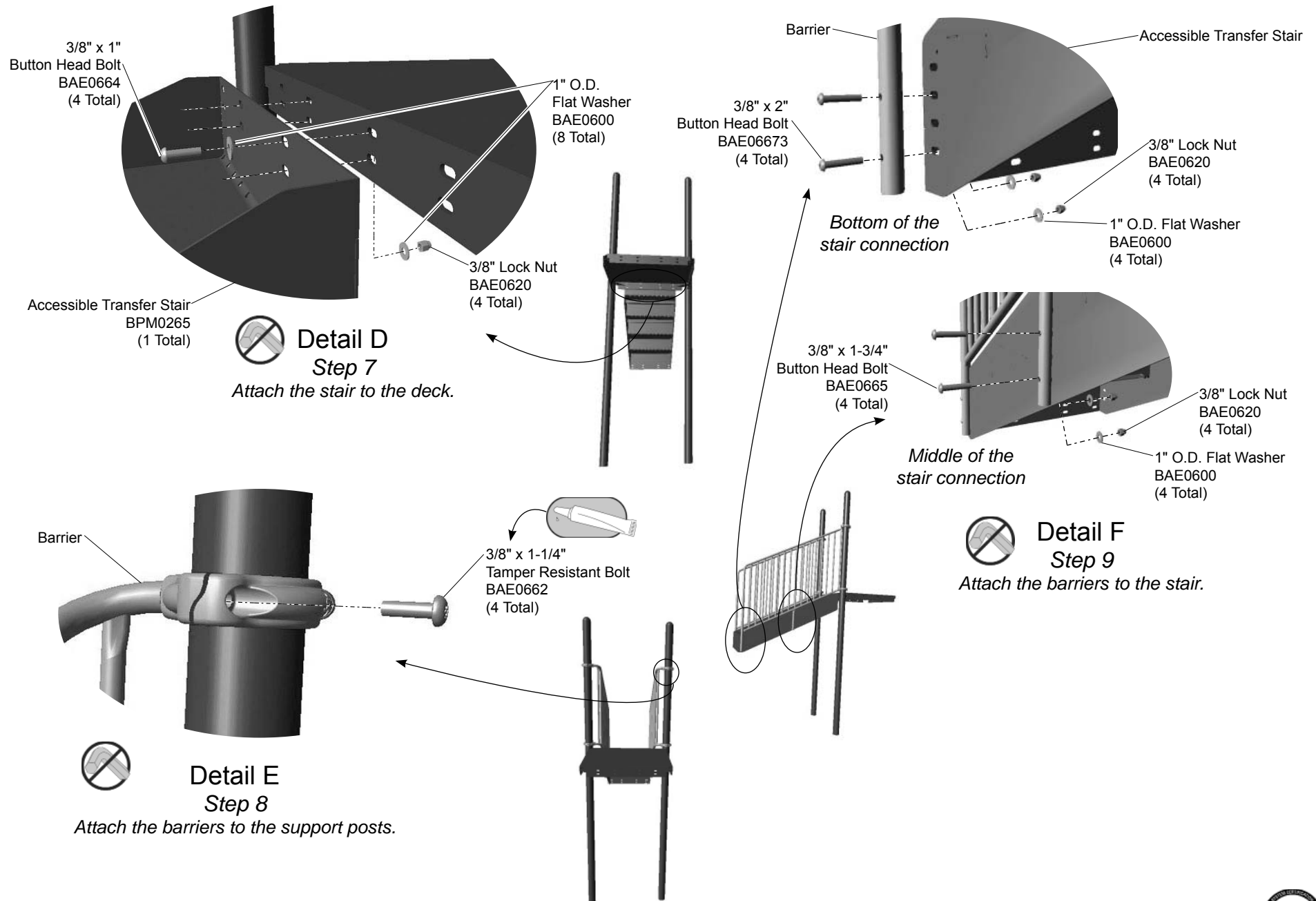
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

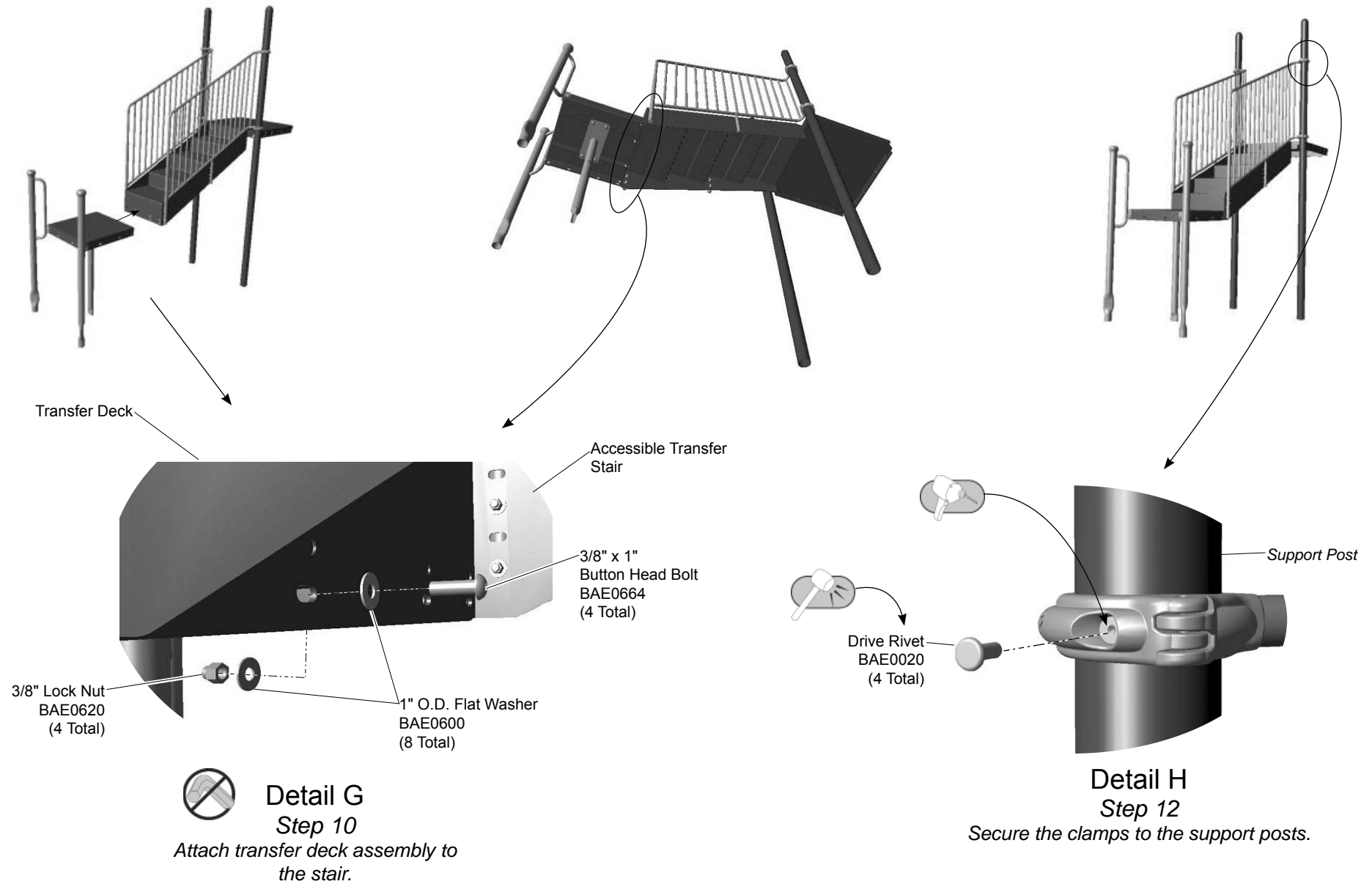


Part Number	Side	Barrier Part Number
ZZPM2027	Left	AEN0165
ZZPM2027	Right	AEN0164
ZZPM2027S	Left	AEN0165
ZZPM2027S	Right	AEN0164

Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

Attach the anchor post to the transfer deck.

Step 4: Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbites to transfer deck.

Step 5: Attach grabbites to transfer deck. See **Detail B**. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the barriers.

Step 6: Attach the clamps to barriers. See **Detail C**. Position the end of each barrier top and bottom rail against the neck of a clamp and attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

Step 7: Attach the stairs to existing support deck. See **Detail D**. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach barriers to the support posts.

Step 8: Attach barriers to the support posts. See **Detail E** and Elevation View. Lift each barrier into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach barriers to the stair.

The barriers can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both barriers should be mounted at the same height.

Step 9: Attach the barriers to the bottom and middle of the stair. See **Detail F**. Align the barrier holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

Step 10: Attach transfer deck assembly to the stair. See **Detail G**. Place the transfer deck assembly into, or onto, the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



ZZPM2027 - 48 in. (1219 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
AUN3625	POST - 59.81" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16 X 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACSBLE COATED TRANSFER	1

ZZPM2027S - 48 in. (1219 mm) TRANSFER STATION SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38.69" GRABBIT SURFACE MOUNT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACCESSIBLE COATED TRANSFER	1



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Assembly View





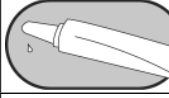


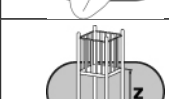
Installation Instructions

Universal Model UN2019

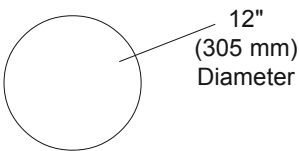
Platform Approach Step

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

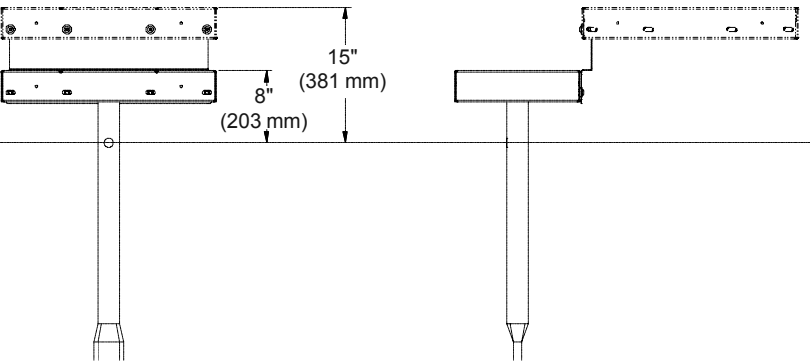
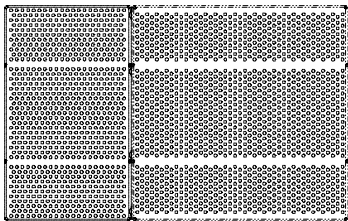
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

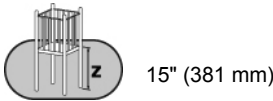


Footing Diagram

Top View

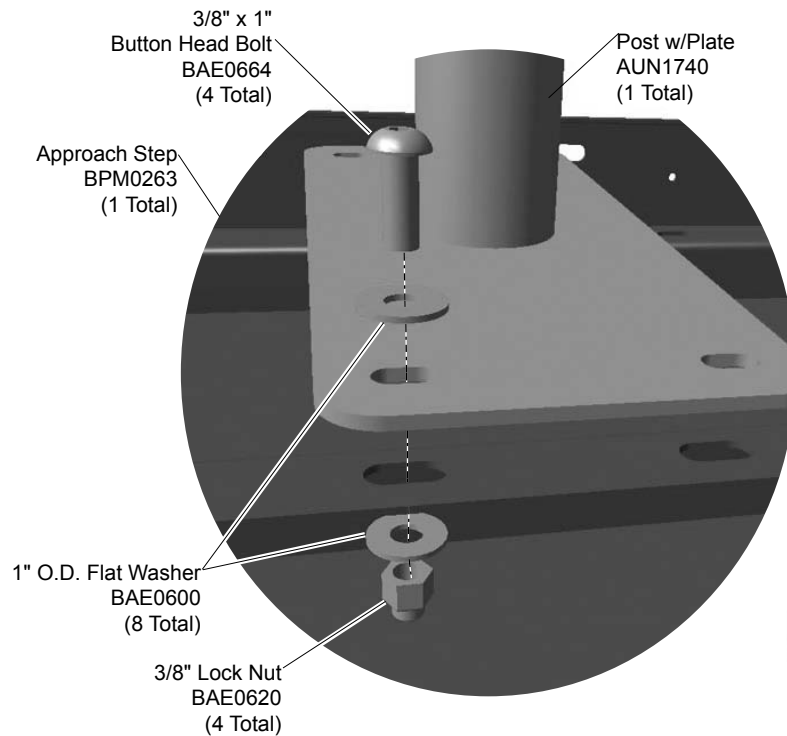


Elevation Views



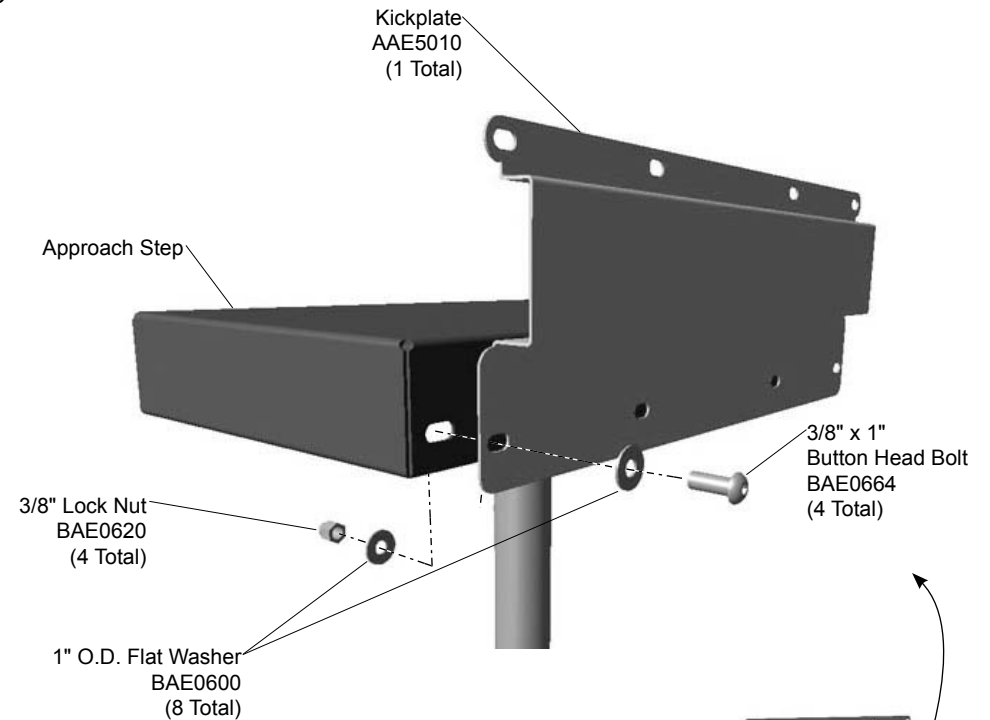
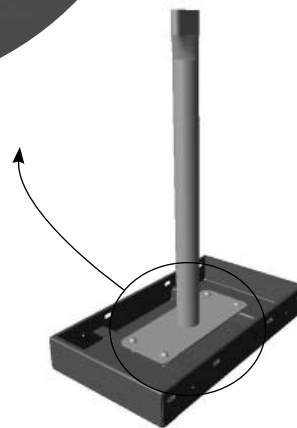
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 4

Attach the anchor post to the approach step.

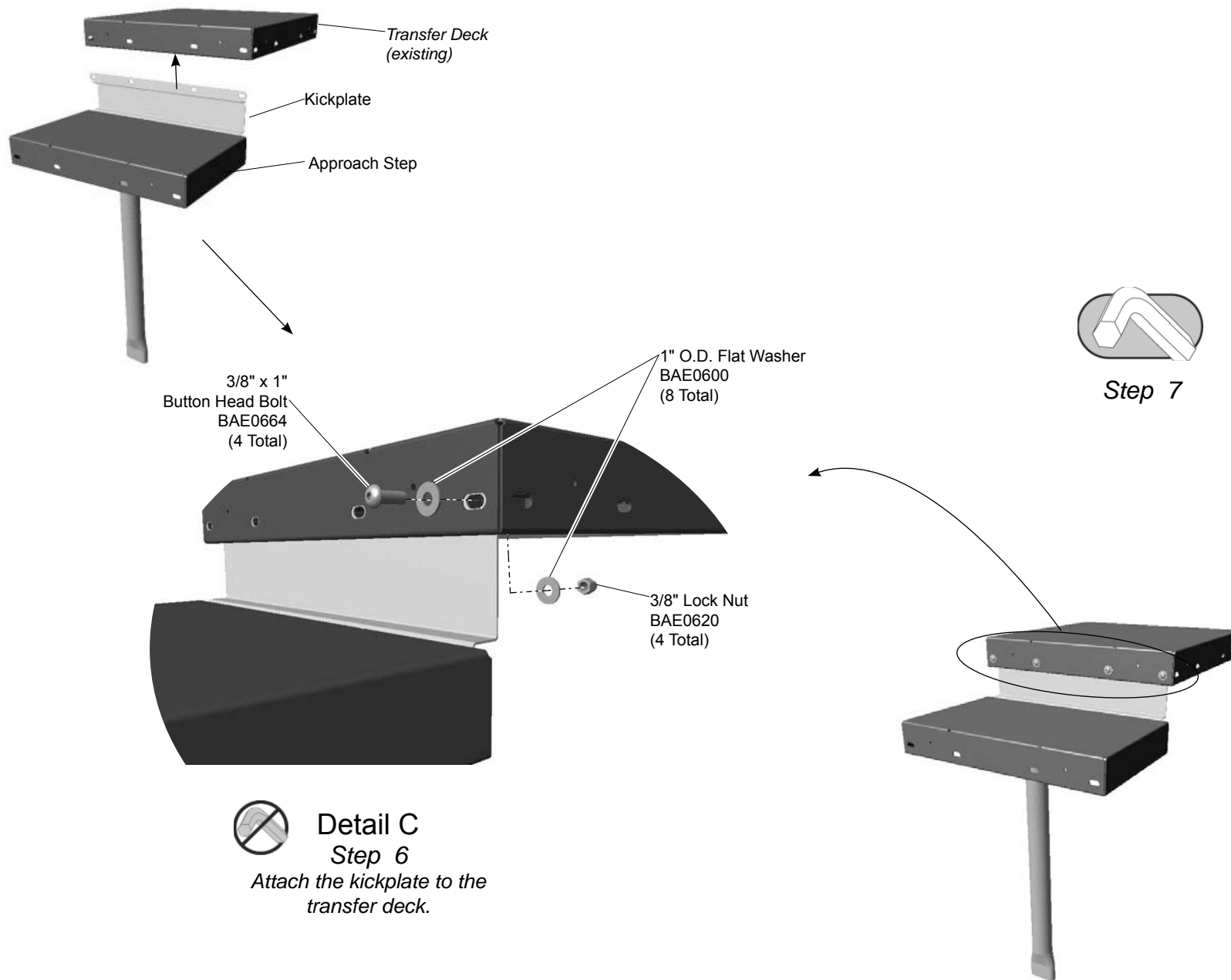


Detail B Step 5

Attach the kickplate to the approach step.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

Step 4: Attach the support leg to the approach step. See **Detail A**. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

Step 5: Attach the kickplate to the approach step. See **Detail B**. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM8599 and PM8599S




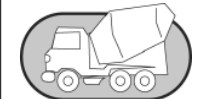
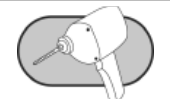

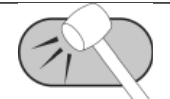
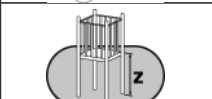
Cozy Cocoon

In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (in-ground): 1.5 man-hours
 Installation Time (surface mount): 1 man-hour
 Concrete Required: 0.13 cubic yard (0,10 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

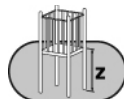
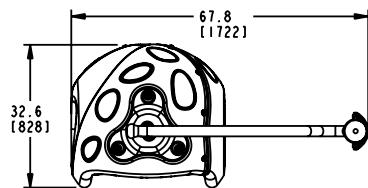
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

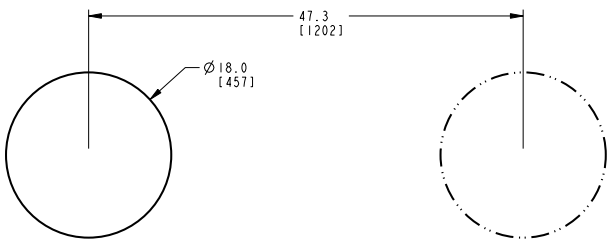
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

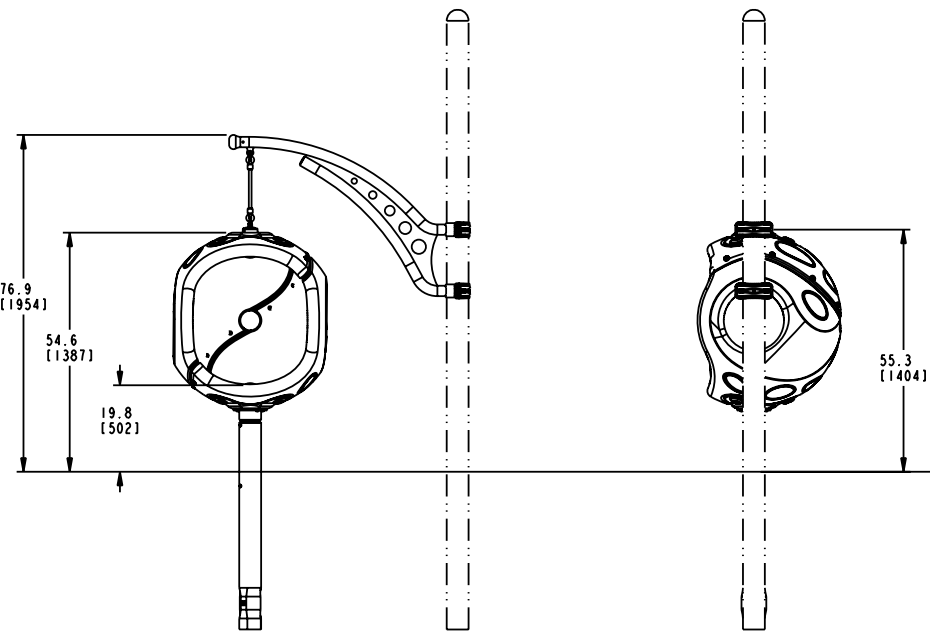
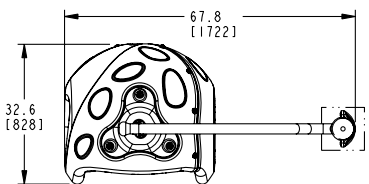


ASTM/CSA: 19.8" (502 mm)
EN: 54.6" (1387 mm)

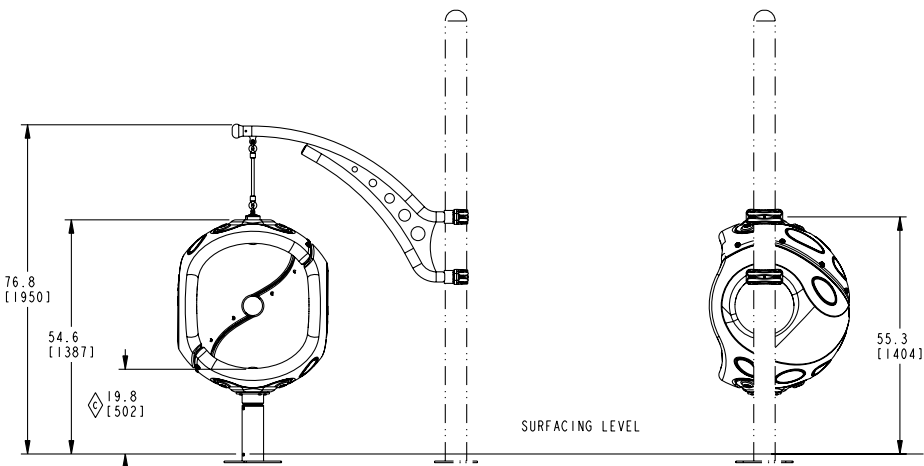


Footing Diagram
(Both Models)

Top View



Elevation Views
PM8599

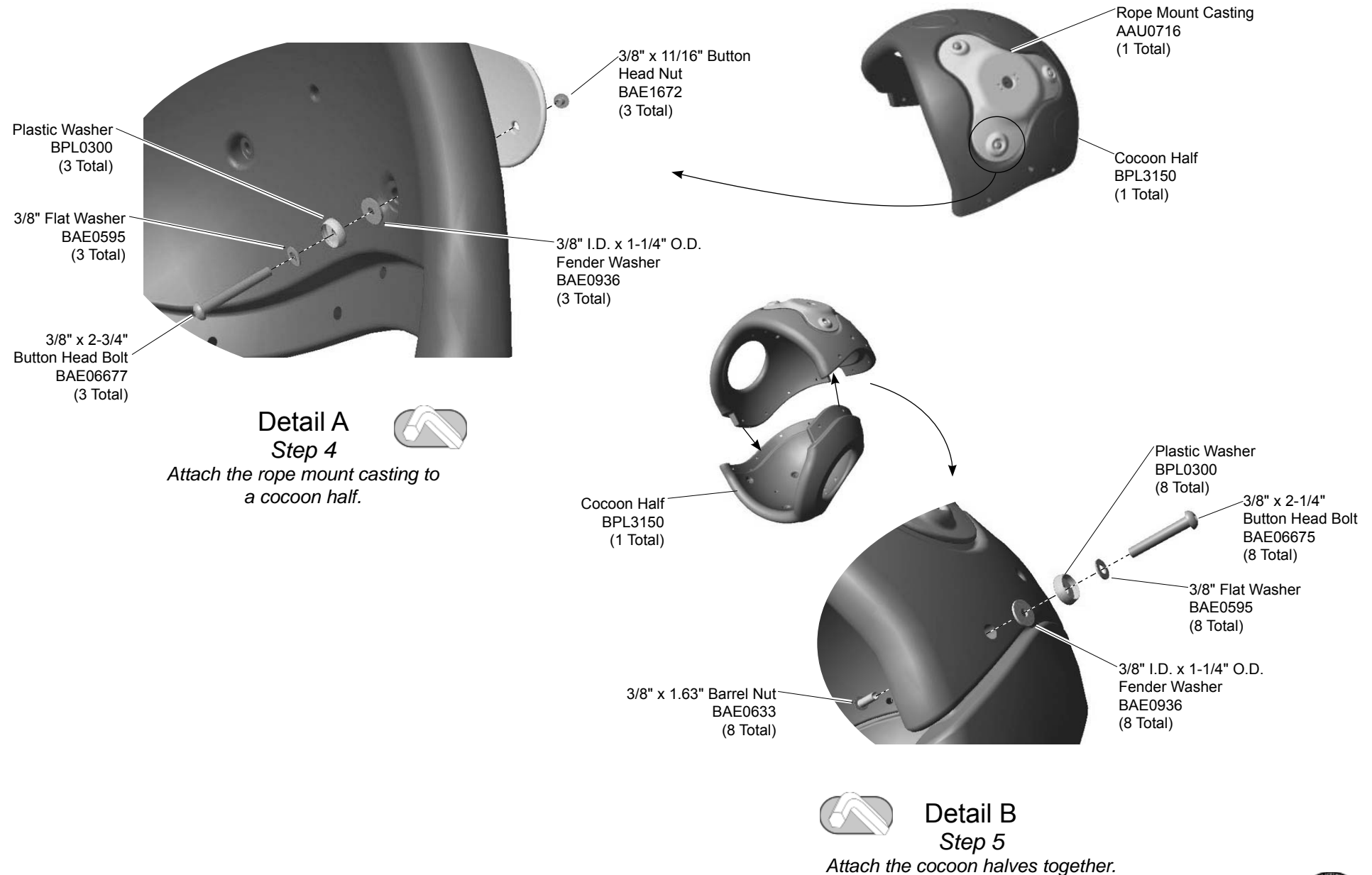


Elevation Views
PM8599S

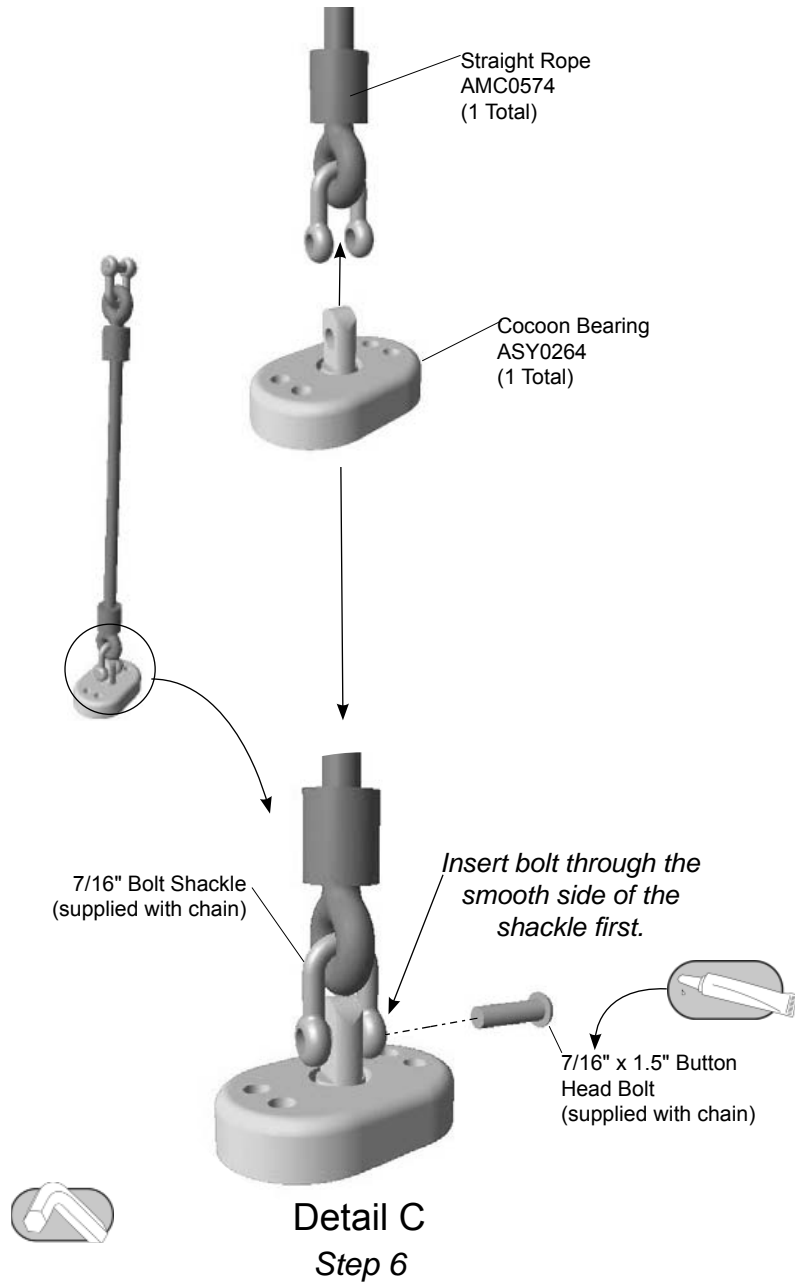


Installation Instructions

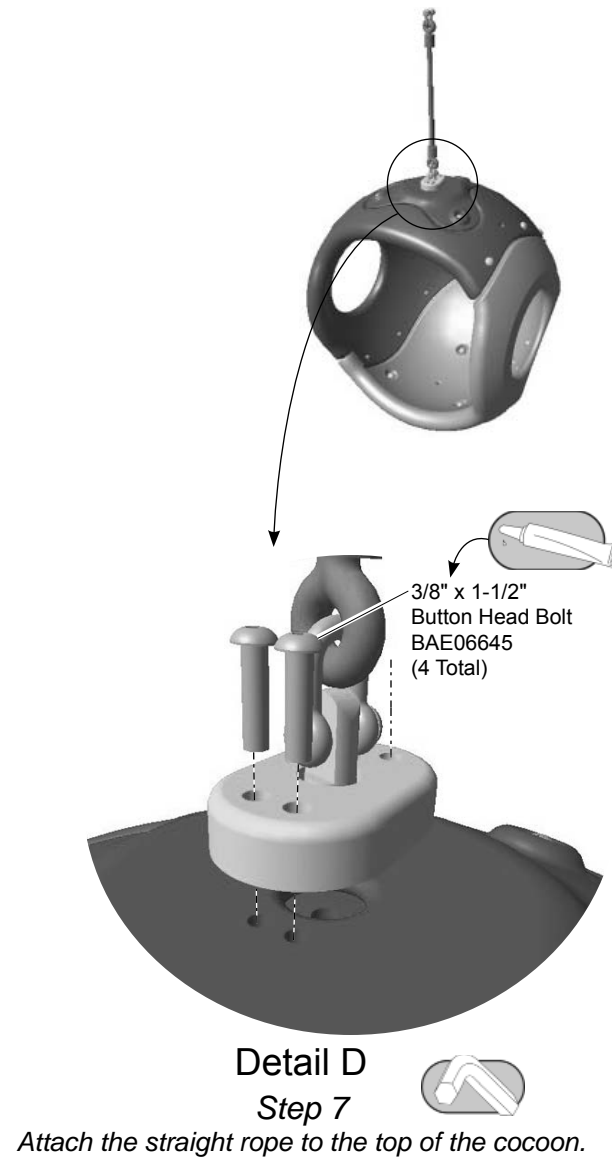
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



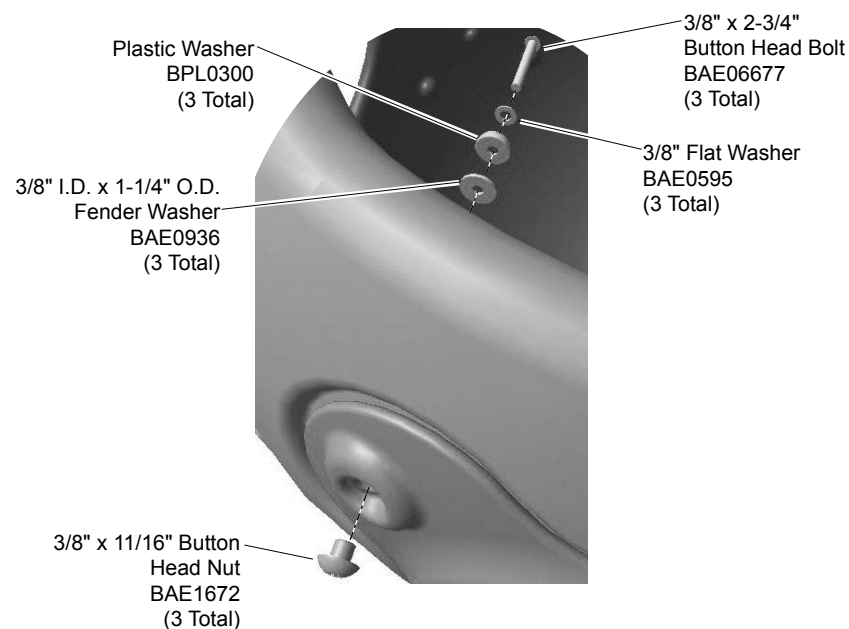
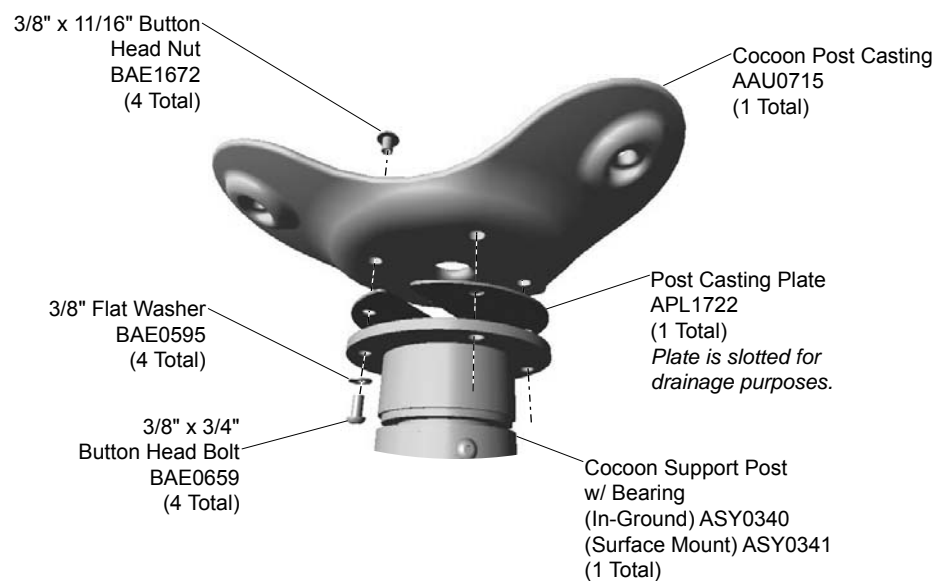
Installation Instructions



Attach a cocoon bearing to the straight rope and to the chain.



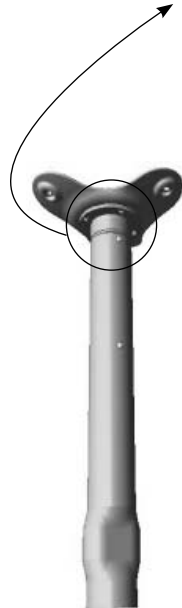
Installation Instructions



Detail E Step 8



Attach the cocoon support post to the cocoon post casting.



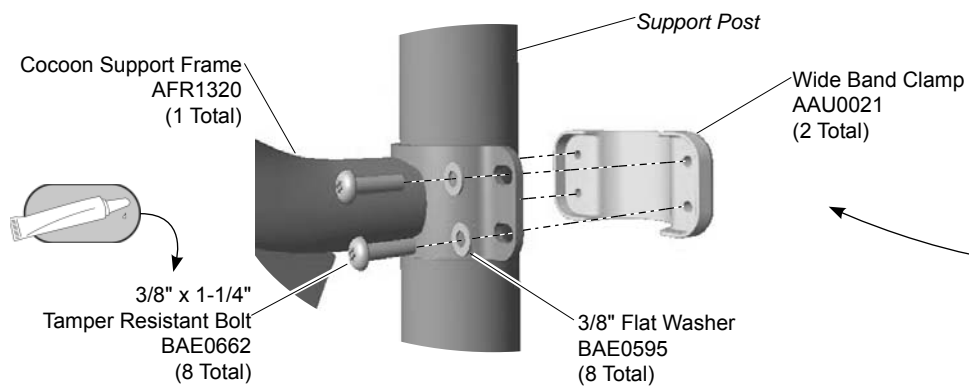
Detail F Step 9



Attach the cocoon support post assembly to the bottom of the cocoon.



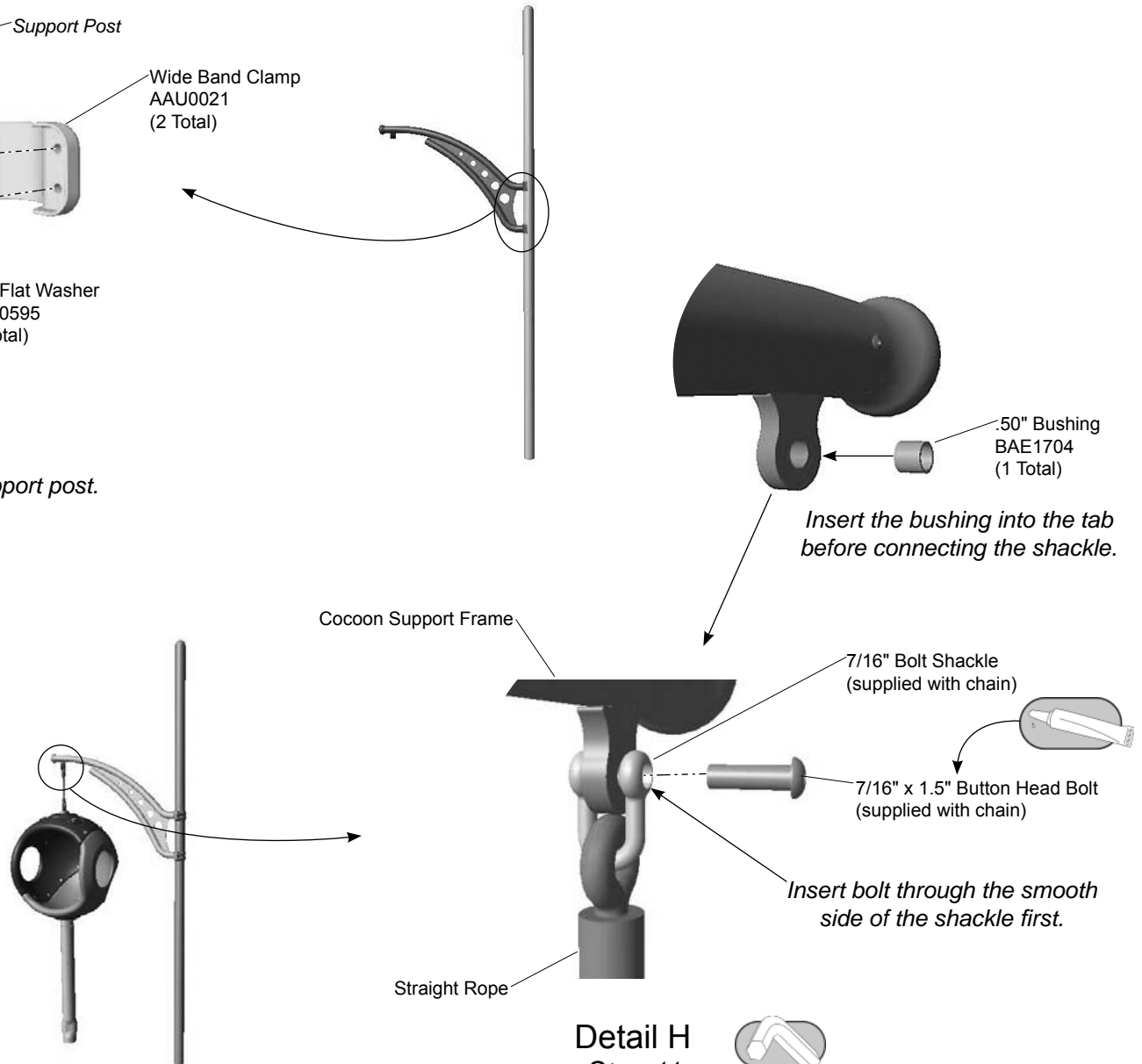
Installation Instructions



Detail G Step 10



Attach the cocoon support frame to the support post.

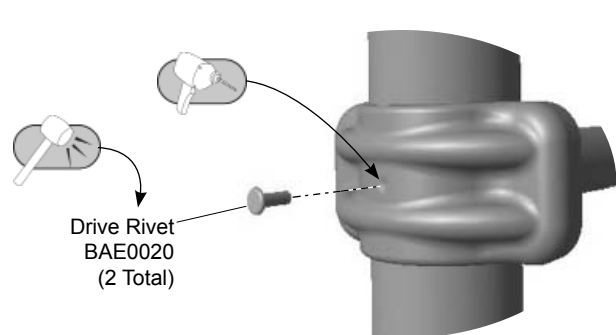


Detail H Step 11



Attach the long rope to the cocoon support frame.

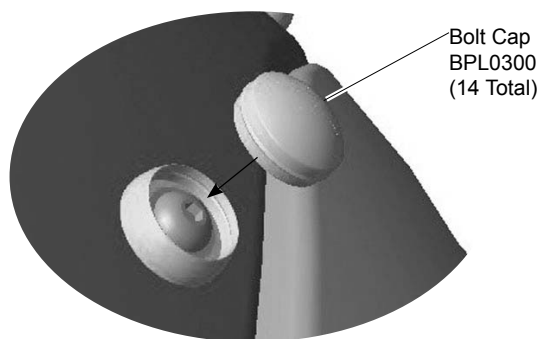
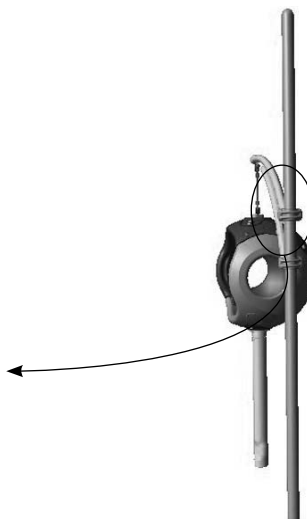
Installation Instructions



Drive Rivet
BAE0020
(2 Total)

Detail I Step 13

Secure the band clamps to the support post.



Bolt Cap
BPL0300
(14 Total)

Detail J Step 14

Insert the bolt caps into the plastic washers.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Playmaker Guidelines* at the beginning of this instruction book. Use the **Support Post Footing Detail** for the in-ground model.

Step 4: Attach the rope mount casting to a cocoon half. See **Detail A**. Insert the casting into a cocoon half and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the cocoon halves together. See **Detail B**. Place the two cocoon halves together and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 6: Attach a cocoon bearing to the straight rope and to the chain. See **Details C-1 and C-2**. Remove the bolt from the shackle on one end of the straight rope and insert a cocoon bearing up and into the shackle. Insert a shackle through the one end of the chain w/ 8 links and insert a cocoon bearing up and into the shackle. Apply a drop of thread locking adhesive to the bolt threads, insert through the smooth side of each shackle first, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 7: Attach the straight rope to the top of the cocoon. See **Detail D**. Place the bearing on the straight rope into the top of the cocoon until fully seated, apply a drop of thread locking adhesive on the bolt threads, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 8: Attach the cocoon support post w/ bearing to the cocoon post casting. See **Detail E**. Position the support post and casting plate against the bottom of the cocoon post casting and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 9: Attach the cocoon support post assembly to the bottom of the cocoon. See **Detail F**. Place support post assembly against the bottom of the cocoon and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 10: Attach the cocoon support frame to the support post. See **Detail G** and the **Elevation View**. Position the frame against the support post at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave connections loose until cocoon is attached.

Step 11: Attach the straight rope to the cocoon support frame. See **Detail H**. Insert a bushing into the tab on the end of the support frame. Using the hardware supplied with the rope, apply a drop of thread locking adhesive to the bolt threads, and attach the rope to the support frame as shown. Fully tighten the connections according to tightening torque specifications.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 13: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each band clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select plastic bolt caps and press into the plastic washers. See **Detail J**.

Hint: The bolt caps install more easily when they are warm.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level or at a visible location.

PM8599 - COZY COCOON

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1
AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1
ASY0264	COCOON BEARING	1
ASY0340	ASSEMBLY - COCOON BEARING	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	8
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - S.S.	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	1
BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8599S - COZY COCOON SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1
AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1
ASY0264	COCOON BEARING	1
ASY0341	ASSEMBLY - COCOON BEARING (SM) 5-12	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	8
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - S.S.	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	1
BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1





Assembly View (representative model)

Model	Deck Height
PM3128	24-30" (610-762 mm)
PM3127	36" (915 mm)
PM3126	48" (1220 mm)
PM2658	60" (1525 mm)
PM2696	72" (1830 mm)

Installation Instructions




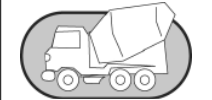
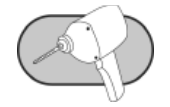


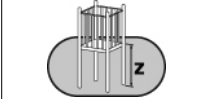
Playmakers®

Models PM2658, PM2696, PM3126-PM3128
24"-72" (610-1829 mm) Glide Slides

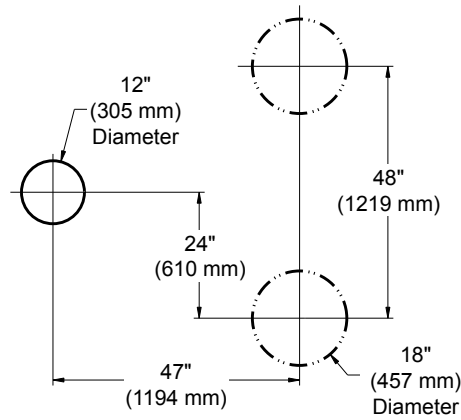
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

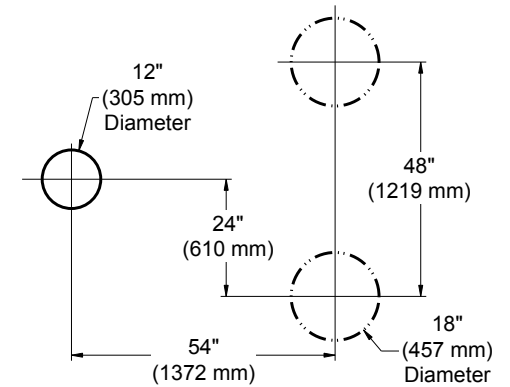
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

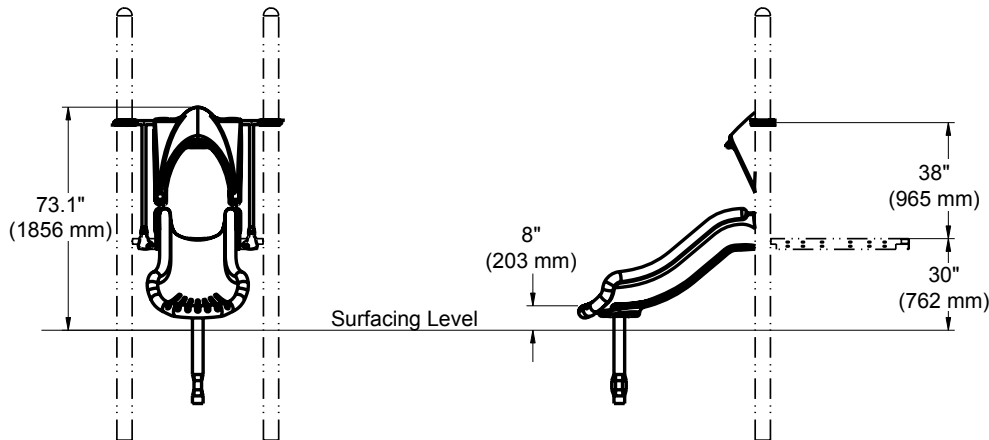
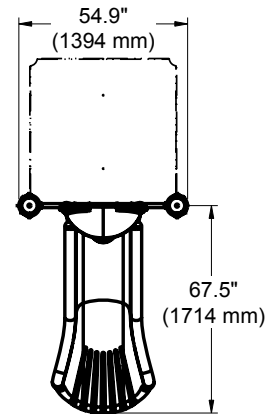
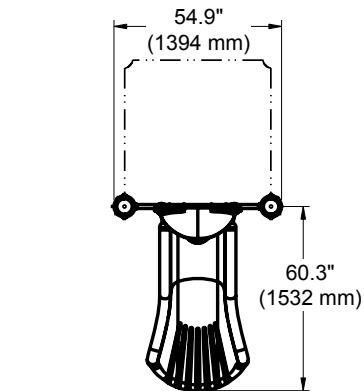


Footing Diagram

If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.

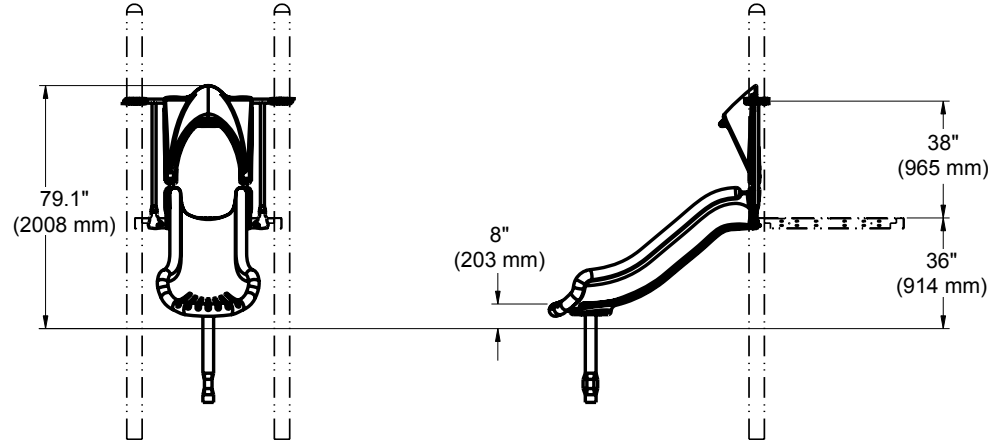


Footing Diagram



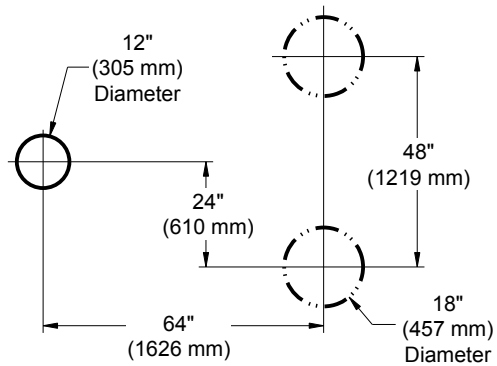
Elevation View PM3128 - 30" Glide Slide

(24" slide: exit will be 2" (50mm) above the surfacing level)

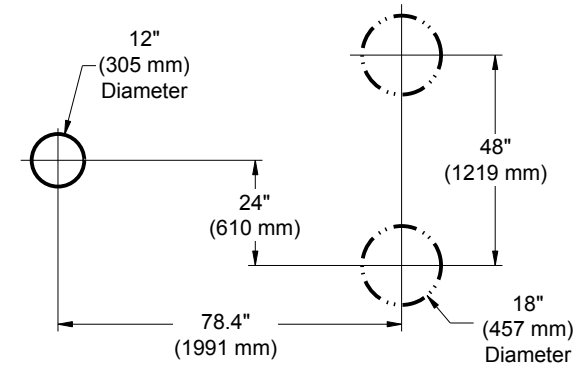


Elevation View PM3127 - 36" Glide Slide

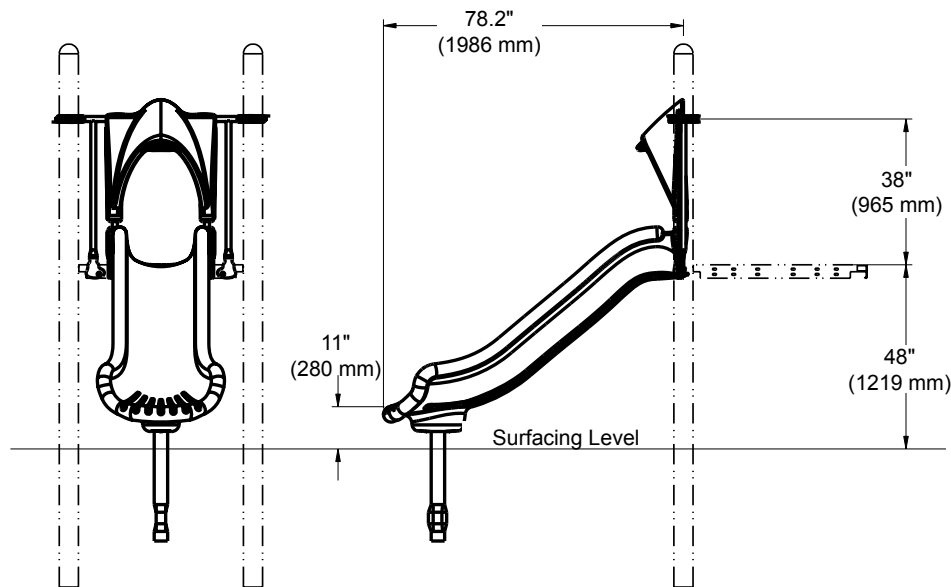
Installation Instructions



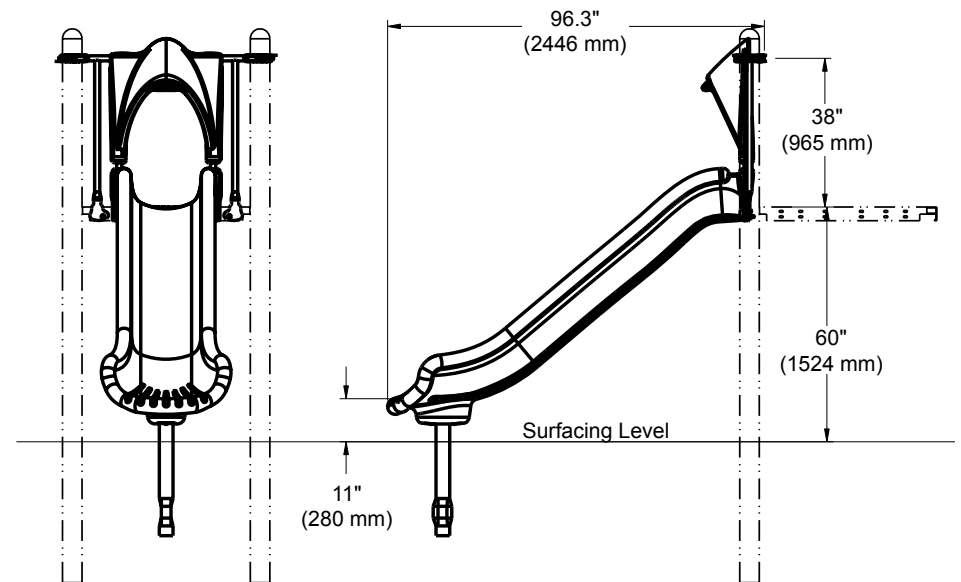
Footing Diagram



Footing Diagram

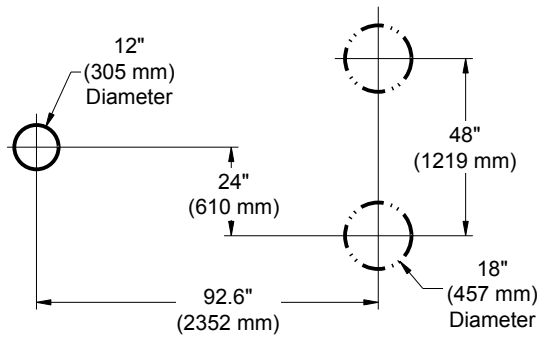


Elevation View PM3126 - 48" Glide Slide

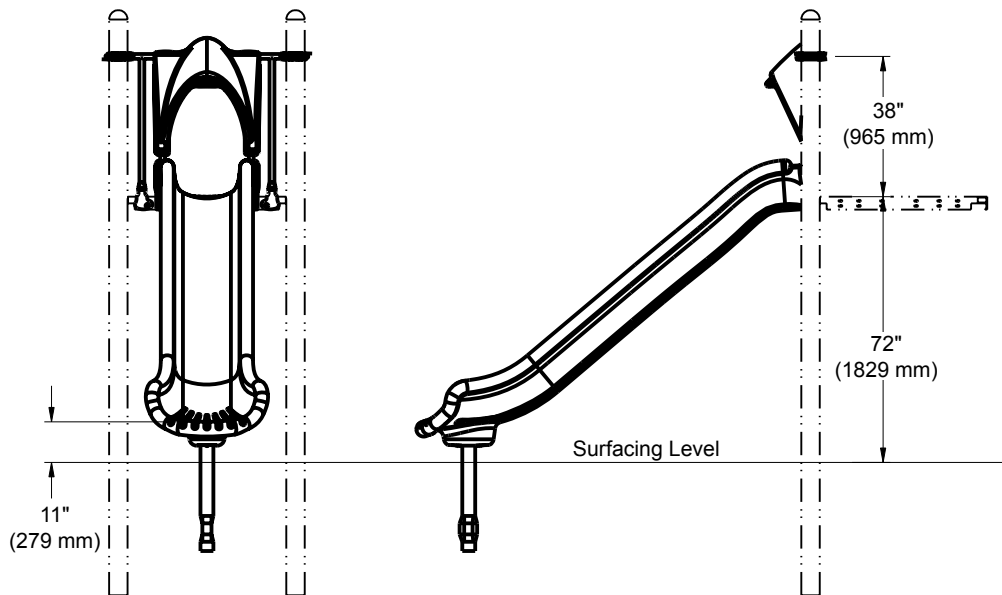


Elevation View PM2658 - 60" Glide Slide

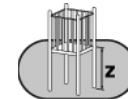
Installation Instructions



Footings Diagram



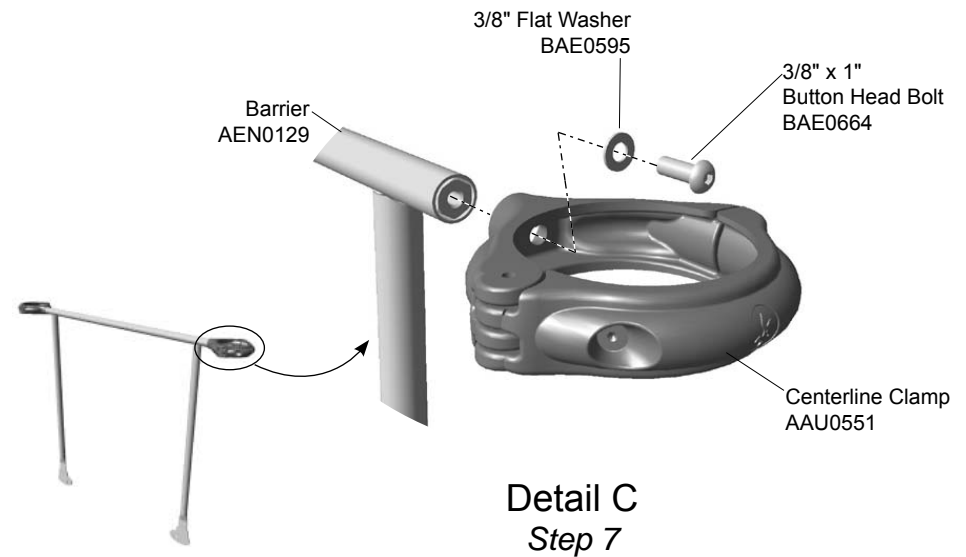
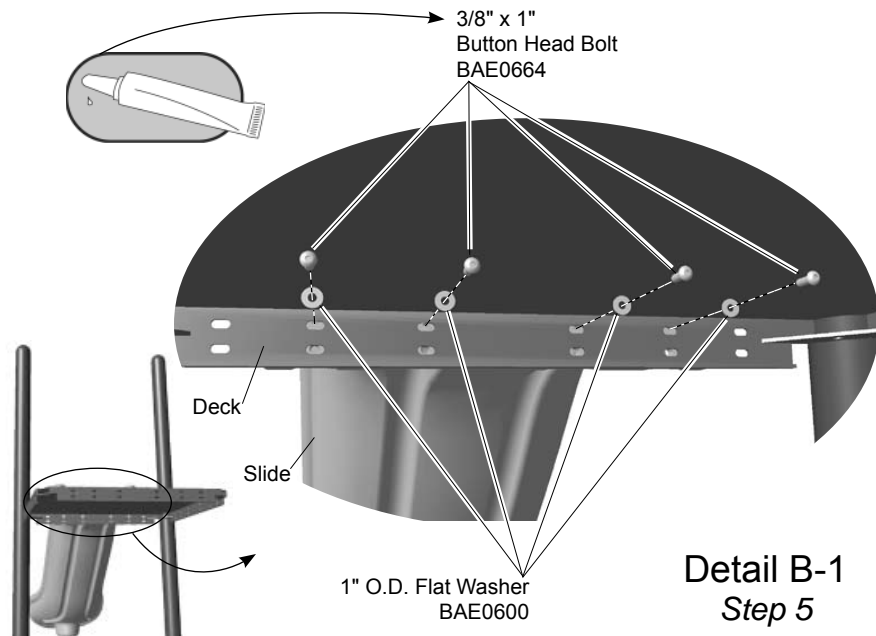
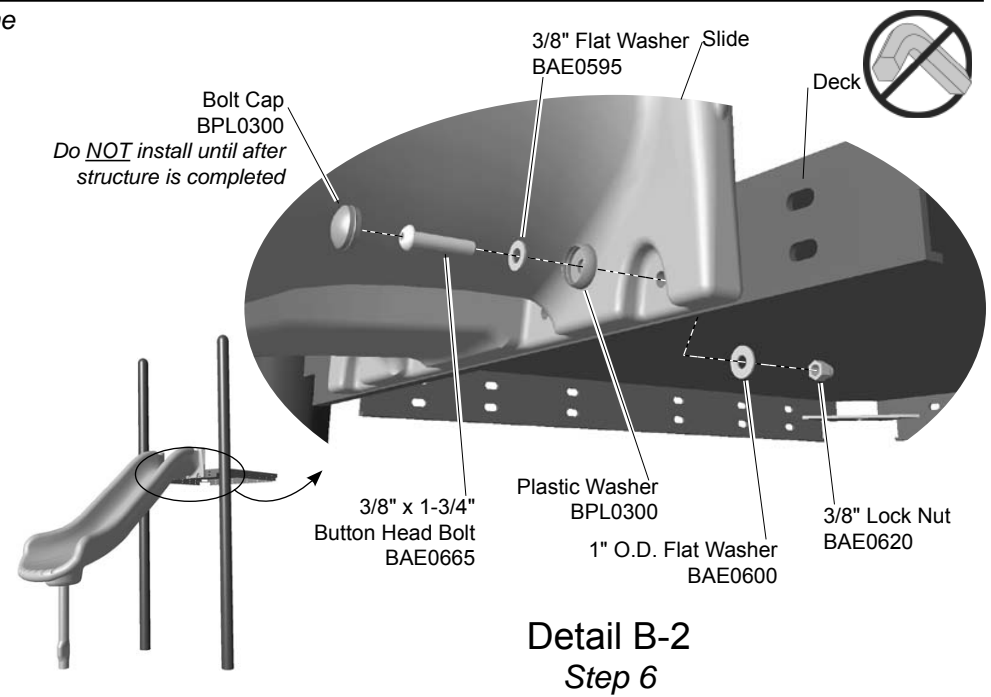
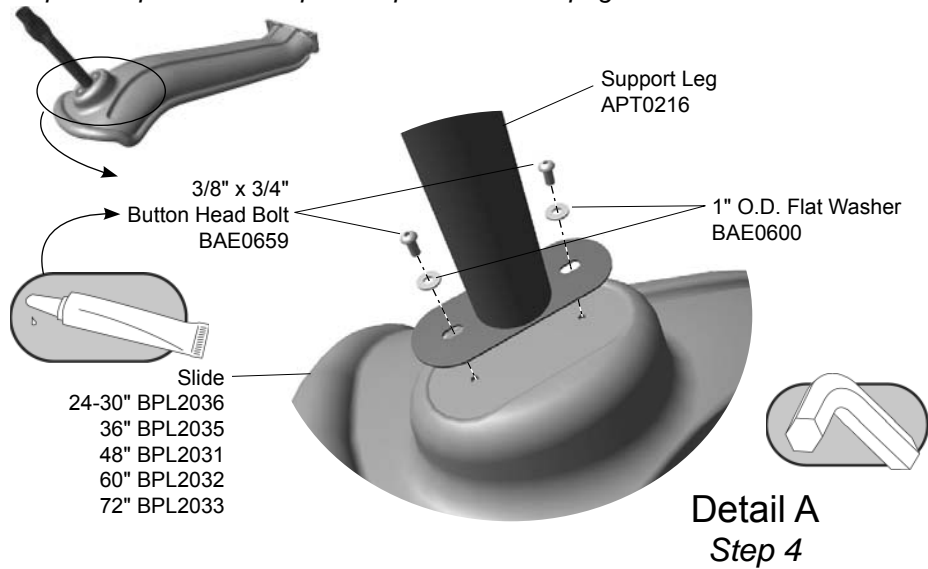
Elevation View PM2696 - 72" Glide Slide



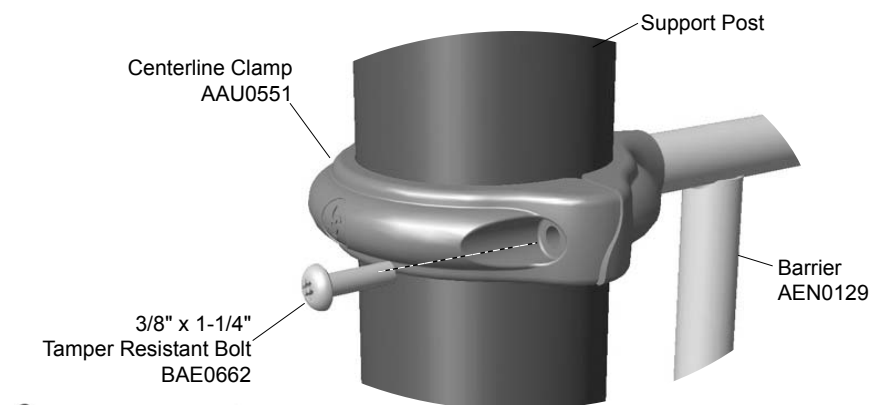
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

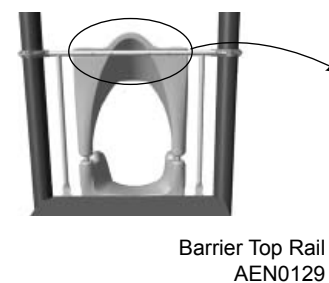
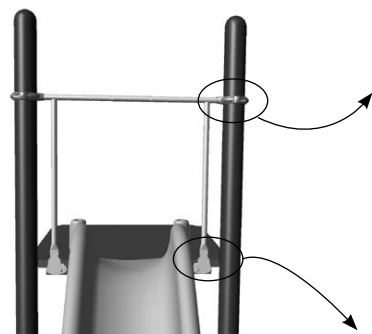
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



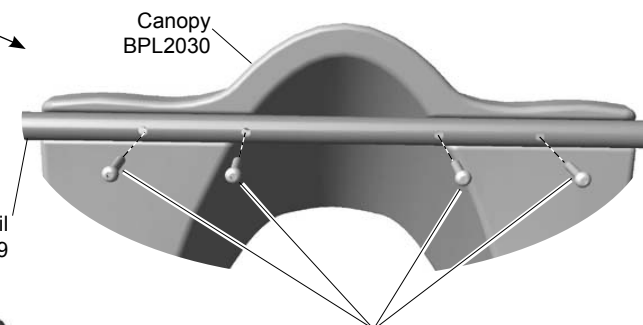
Installation Instructions



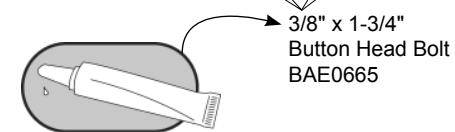
Detail D-1
Step 8



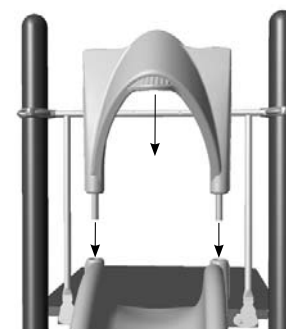
Barrier Top Rail
AEN0129



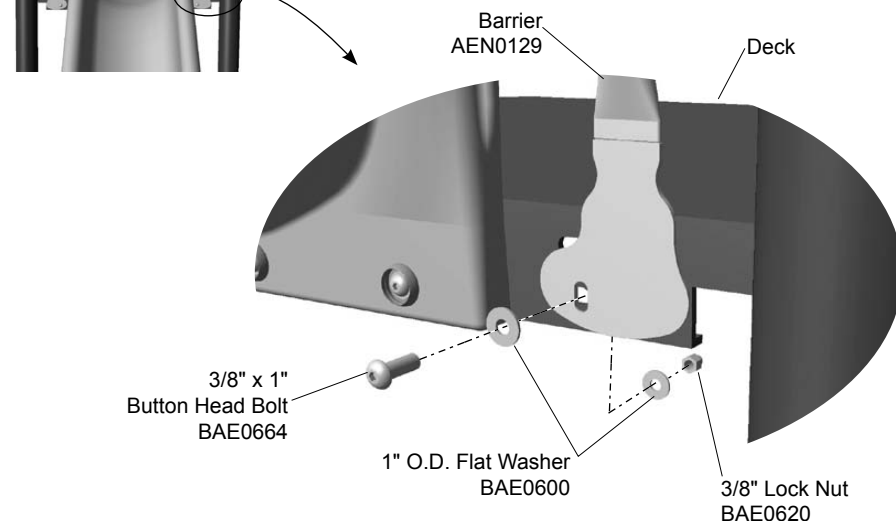
Canopy
BPL2030



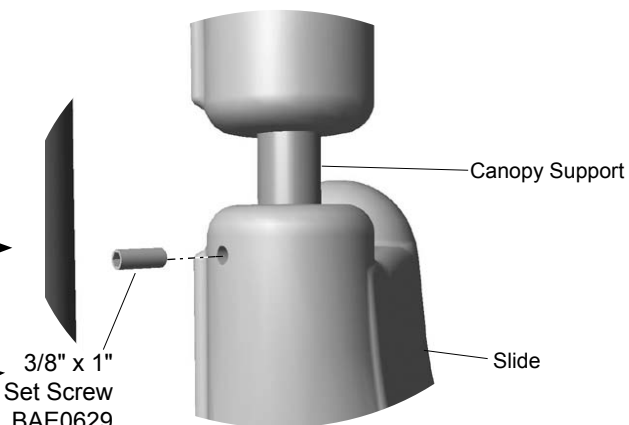
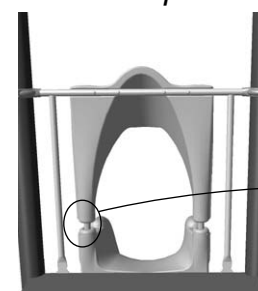
Detail E-2
Step 10



Detail E-1
Step 10



Detail D-2
Step 9

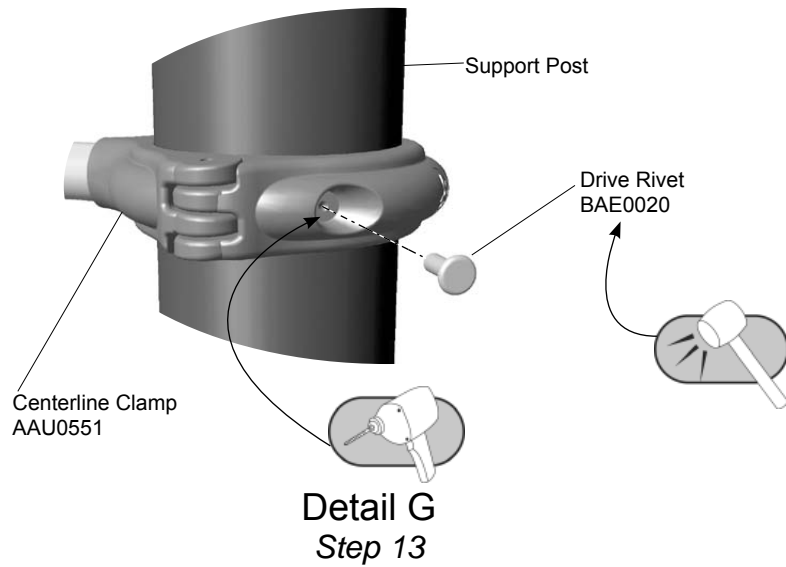
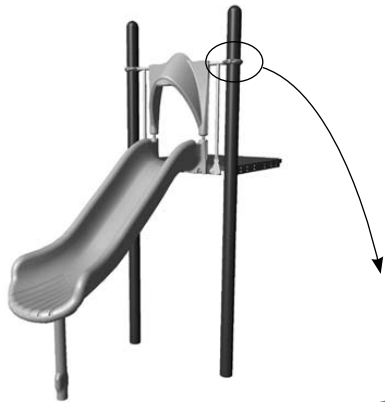


Detail F
Step 11

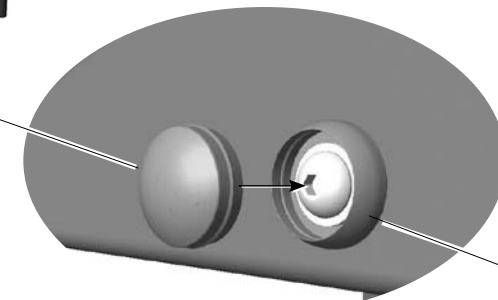
Installation Instructions



Step 12



Bolt Cap
BPL0300



Plastic Washer
BPL0300

Detail H
Step 14
(refer to Detail B-2 also)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

Step 13: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

Step 15: Apply the hood string entanglement warning label to the equipment at eye level.

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

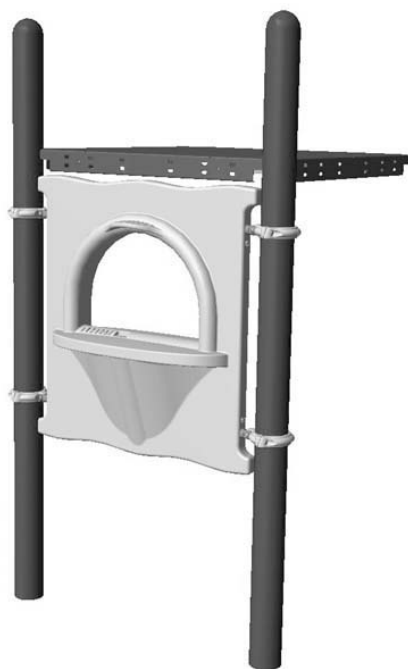
PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View

Installation Instructions




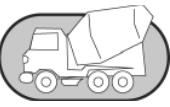
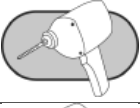


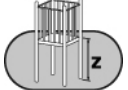
Playmakers® Model PM4646

Storefront Panel

Installation Preparation

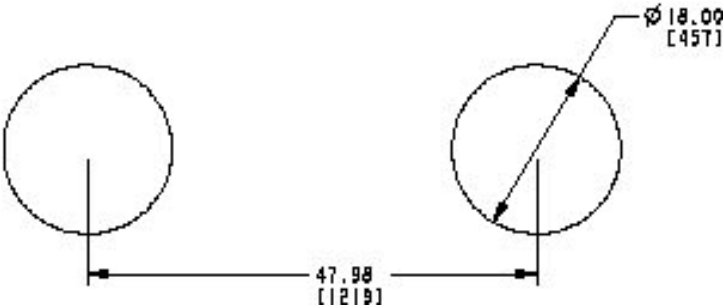
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

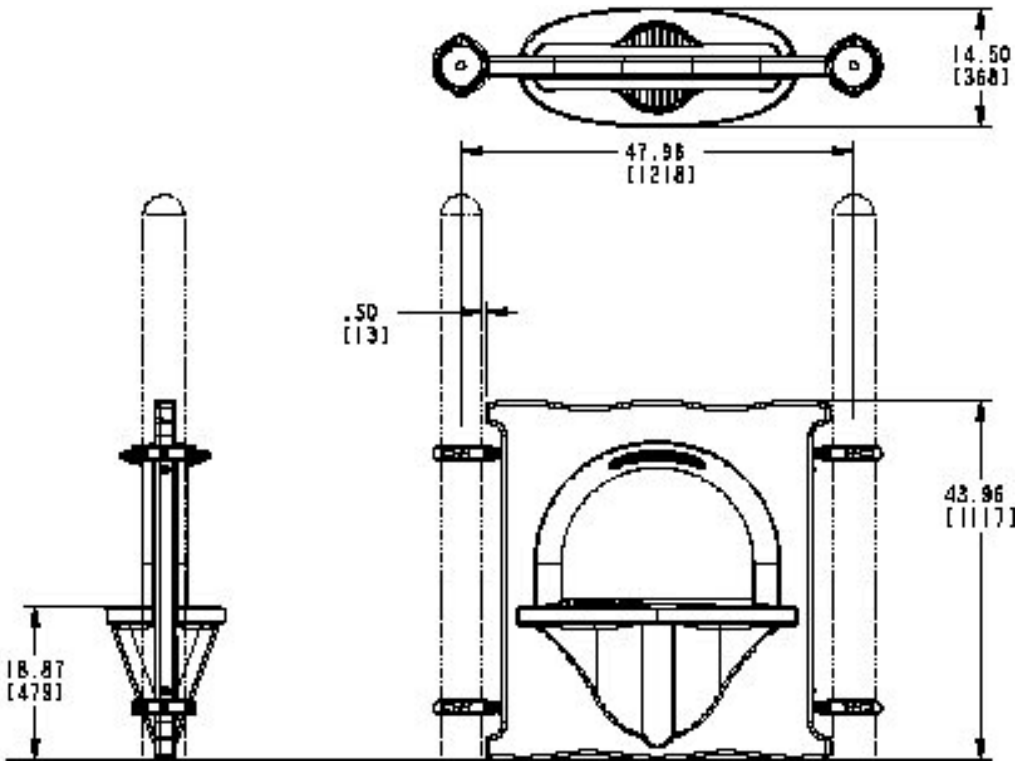
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

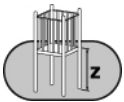


Footing Diagram

Top View



Elevation Views

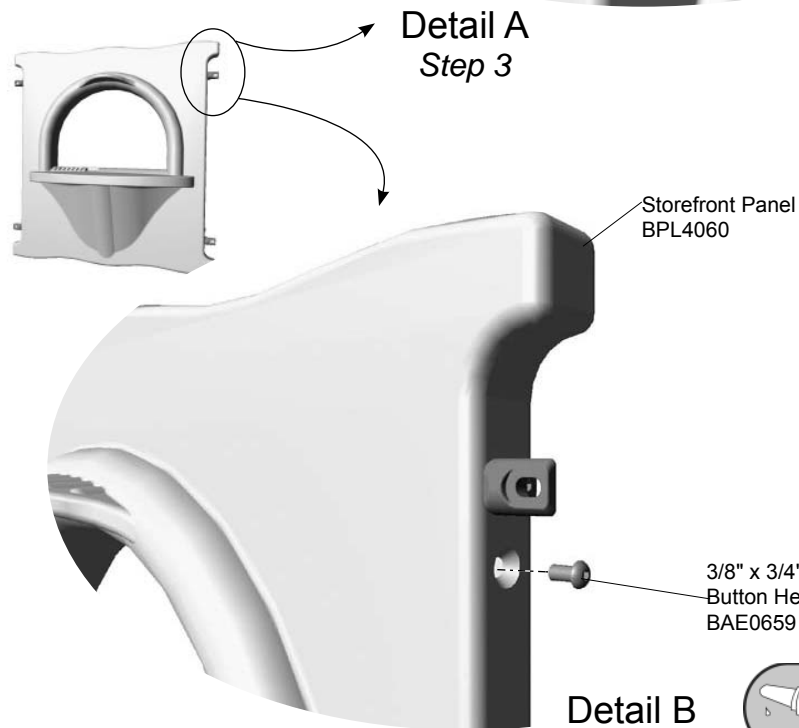
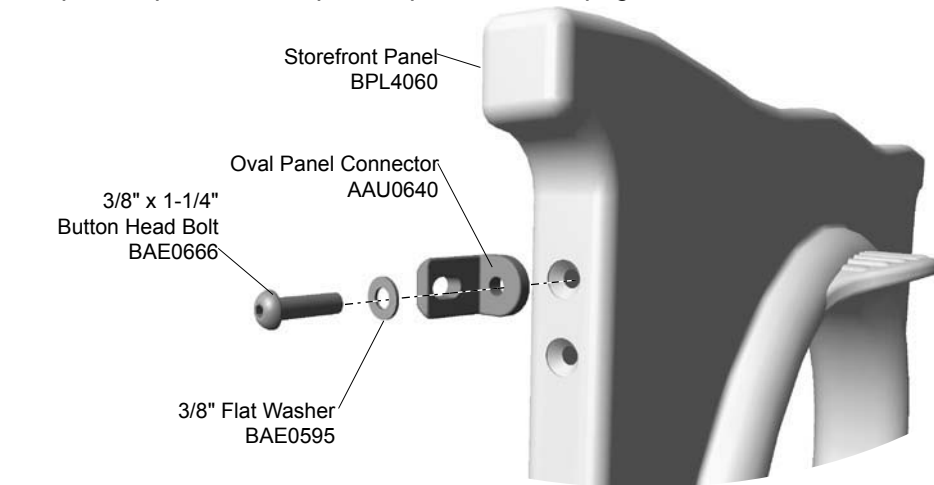


18.9" (480 mm)

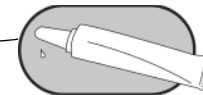
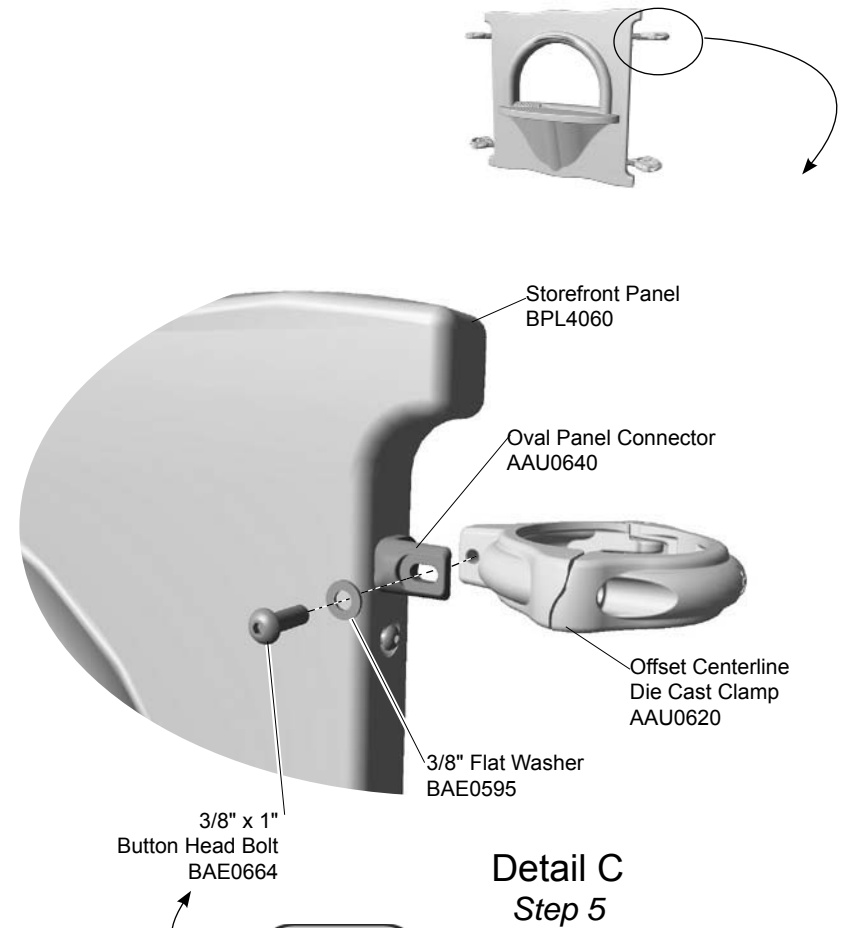
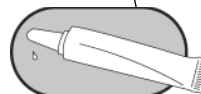


Installation Instructions

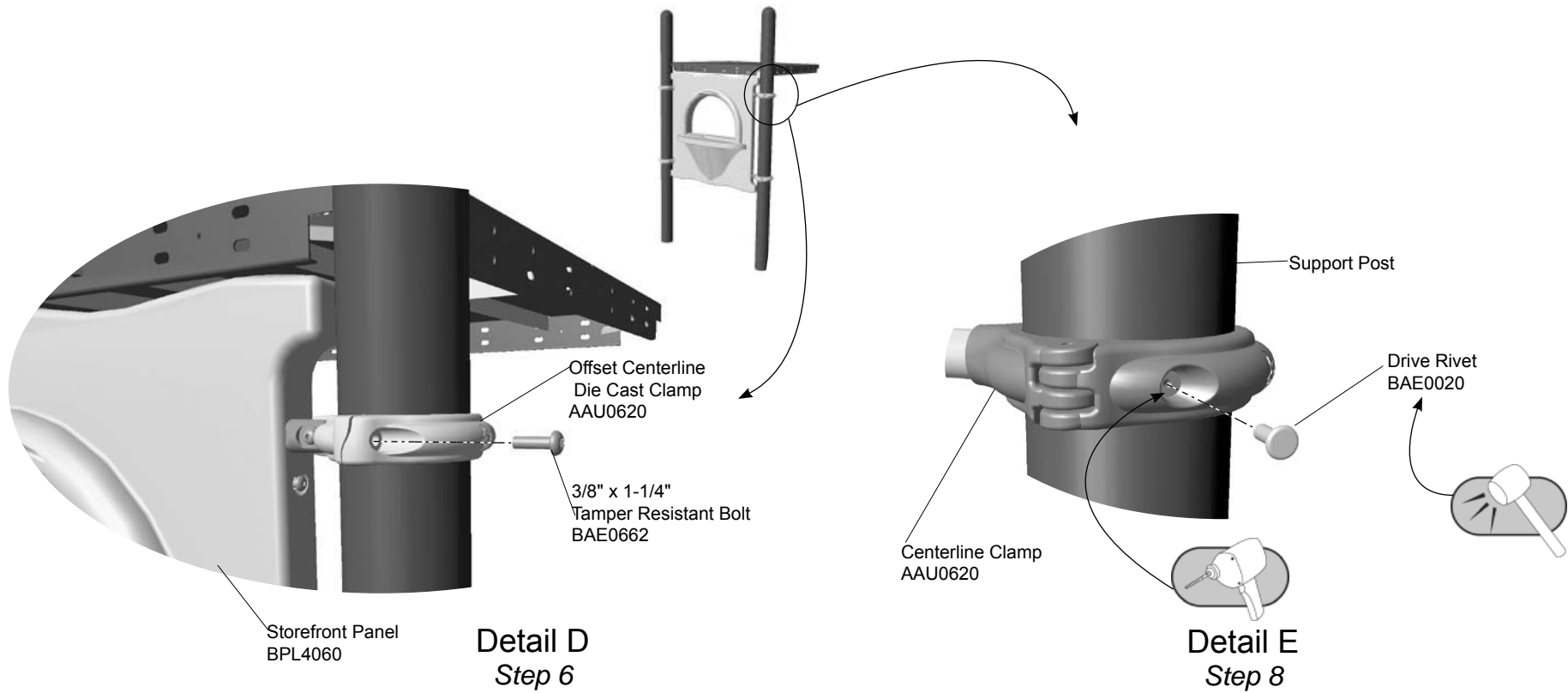
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail B
Step 4



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

Step 3: Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

Step 5: Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

Step 6: Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4646 - STOREFRONT PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1



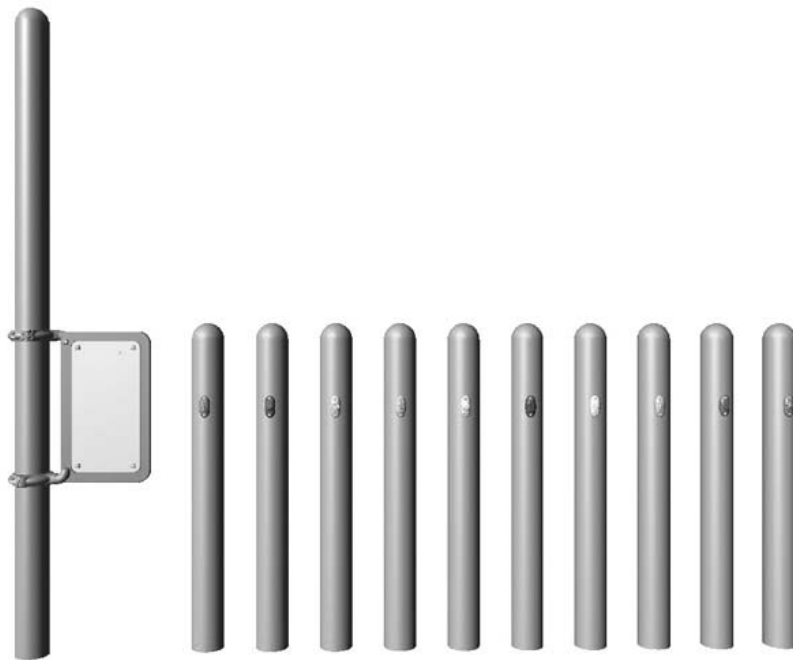
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Installation Instructions

Playmakers® Model PM4648

Post Mount Scavenger Hunt




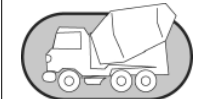



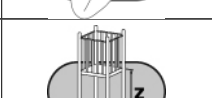


Assembly View

Installation Preparation

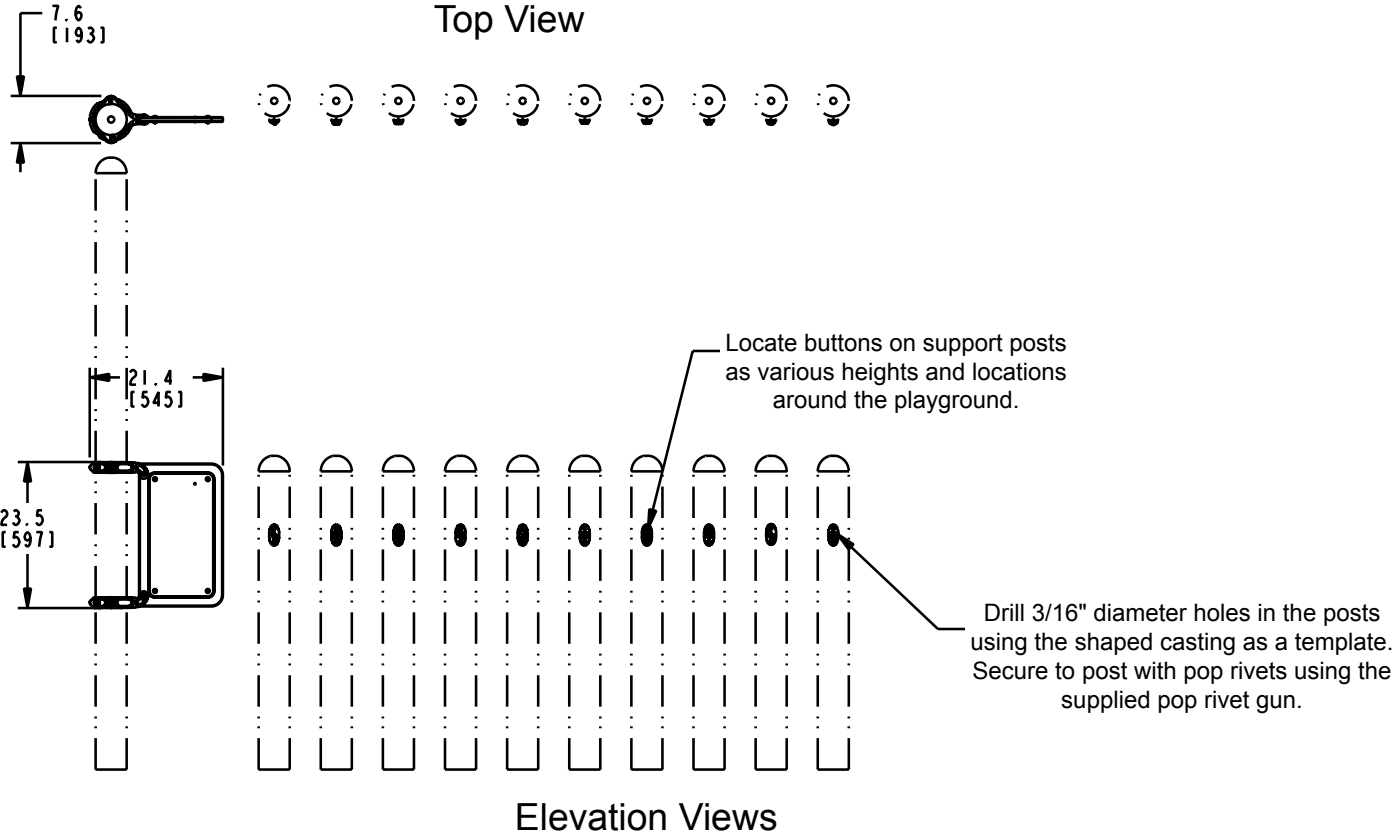
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

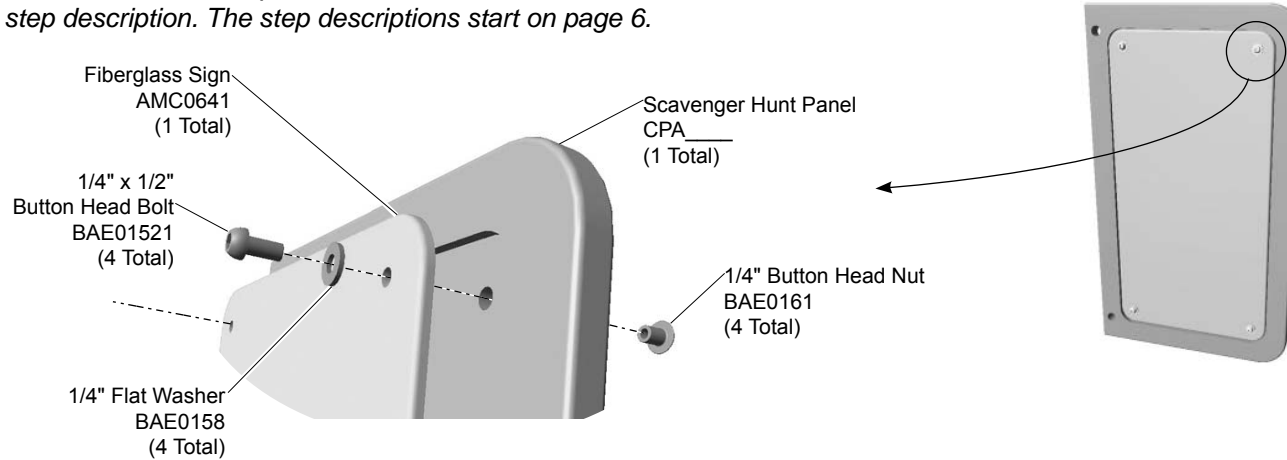
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Installation Instructions

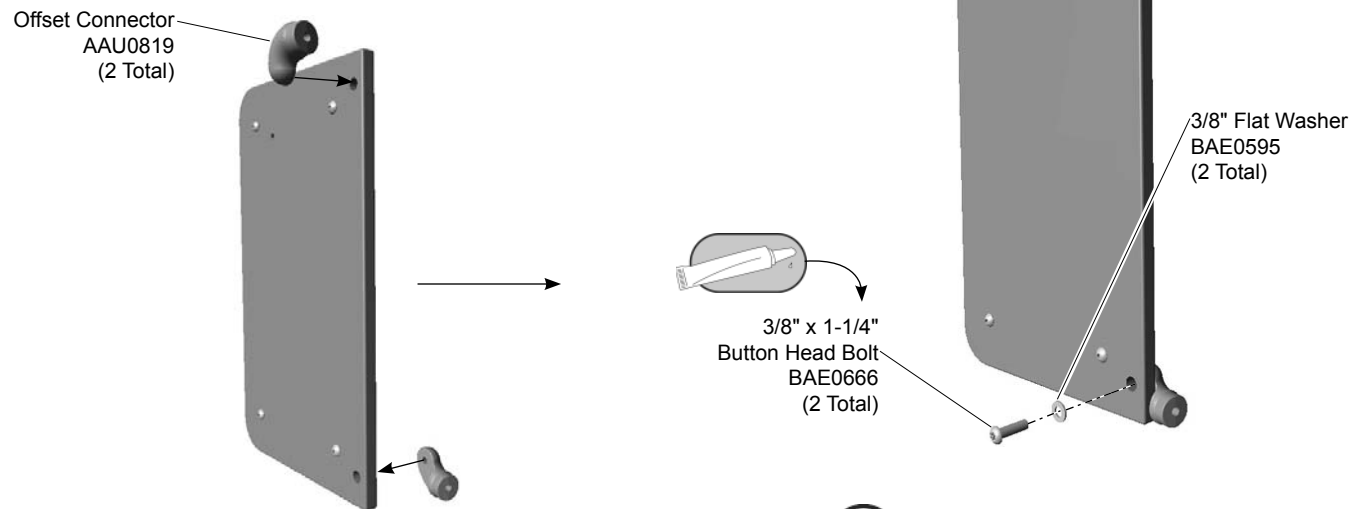
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Detail A

Step 3

Attach the fiberglass sign to the panel.



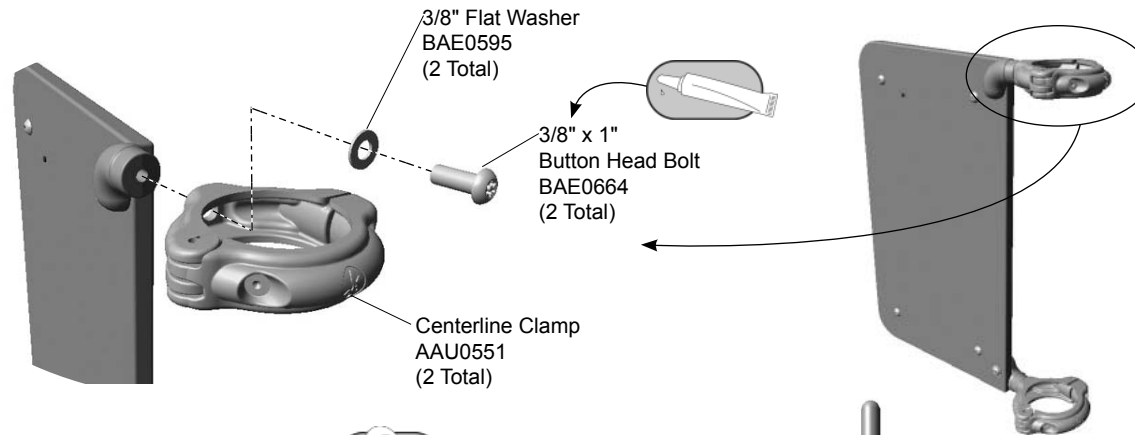
Detail B

Step 4

Attach the offset connectors to the panel.

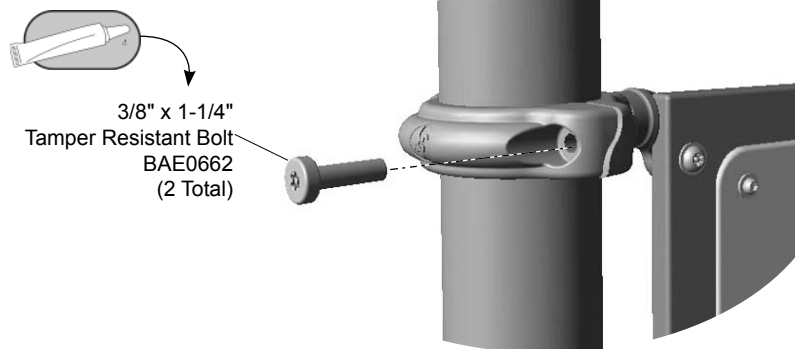


Installation Instructions



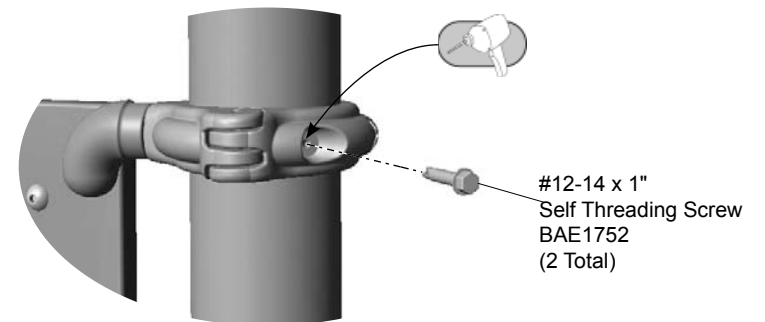
Detail C Step 5

Attach clamps to the offset connectors.



Detail D Step 6

Attach panel to the support post.

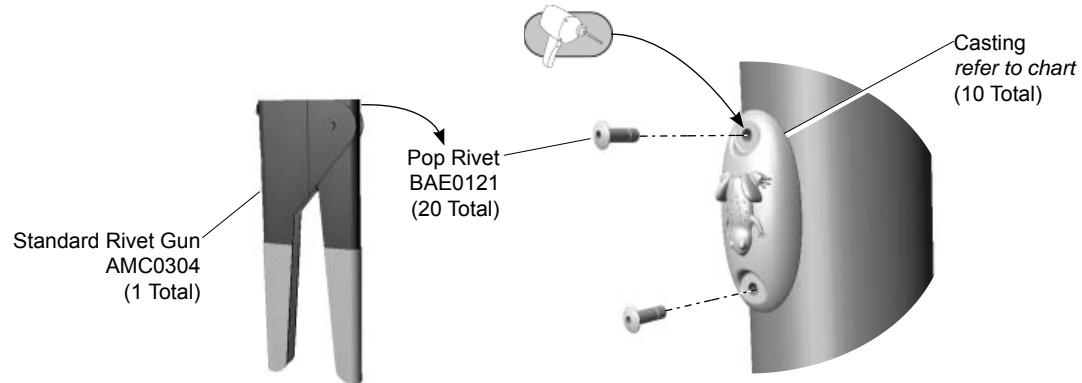


Detail E Step 8

Secure the clamps to the support posts.



Installation Instructions



Detail F

Step 9

Secure the castings to the posts.

Shape	Casting Part Number
Butterfly	AAU0641
Flower	AAU0642
Frog	AAU0643
Pickle	AAU0644
Star	AAU0645
Carrot	AAU0646
Apple	AAU0647
Clock	AAU0648
Fish	AAU0649
Smiley Face	AAU0650

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the fiberglass sign to the panel. See **Detail A**. Place the sign, graphics side facing out, into the routed side of the panel and attach as shown. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

Step 4: Attach the offset connectors to the panel. See **Detail B**. Position each offset connector against the straight edge of the panel, with one on the front side and one on the back side, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 5: Attach the clamps to the offset connectors. See **Detail C**. Position the neck of each clamp over an offset connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Make sure the clamps open in the same direction. Fully tighten the connections according to tightening torque specifications.

Step 6: Attach the panel to the support posts. See **Detail D**. Position the panel against the support post and close the clamps around the post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Final Details.

Step 7: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Secure the clamps to the support posts. See **Detail E**. After the equipment assembly is complete, install a self threading screw in each clamp to permanently secure it to the support post. Using a 3/16" drill bit, drill through the clamp and support post. Thread each screw through the clamp and into the support post. Fully tighten all fasteners according to tightening torque specifications.

Note: This step should be executed after structure has been assembled and properly footed.

Step 9: Secure the castings to the posts. See **Detail F**. Locate the castings on posts at various heights and locations around the playground. Drill 3/16" diameter holes in the posts using the shaped casting as a template. Secure to post with pop rivets using the supplied pop rivet gun.

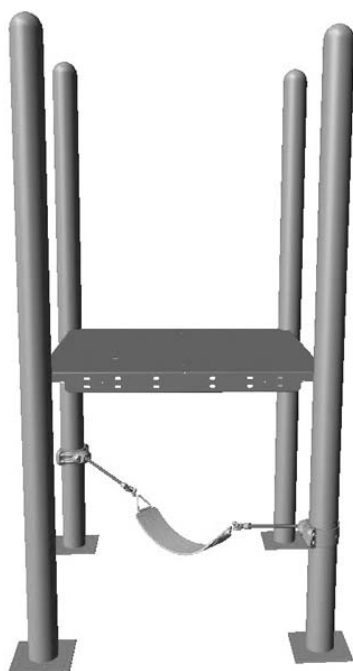
PM4648 - POST MOUNT SCAVENGER HUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0641	CASTING - BUTTERFLY	1
AAU0642	CASTING - FLOWER	1
AAU0643	CASTING - FROG	1
AAU0644	CASTING - PICKLE	1
AAU0645	CASTING - STAR	1
AAU0646	CASTING - CARROT	1
AAU0647	CASTING - APPLE	1
AAU0648	CASTING - CLOCK	1
AAU0649	CASTING - FISH	1
AAU0650	CASTING - SMILEY FACE	1
AAU0819	CONNECTOR - 1.38" O.D. OFFSET ANGLE DOGLEG	2
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0641	SIGN - POST MOUNT SCAVENGER HUNT FIBERGLASS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0121	RIVET - 3/16" x .56 ALUMINUM POP	20
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE1668	MISC - 3/16" DRILL BIT	1
BAE1752	SCREW - SELF THREADING #12-14 x 1.00"	2
CPA_____	SHEET - POST MOUNT SCAVENGER HUNT	1



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Assembly View

Installation Instructions


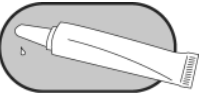

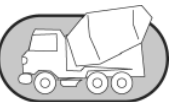
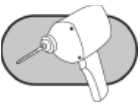

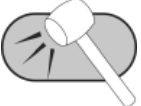
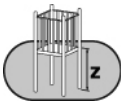
Playmakers® Model PM4896

Sling Seat

Installation Preparation

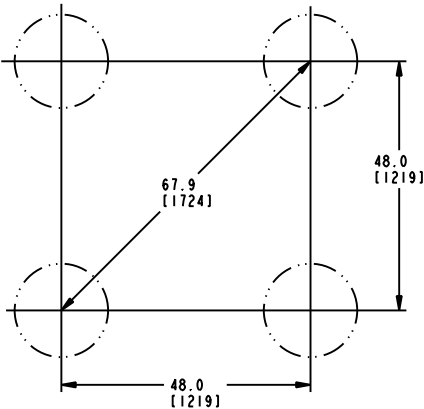
Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

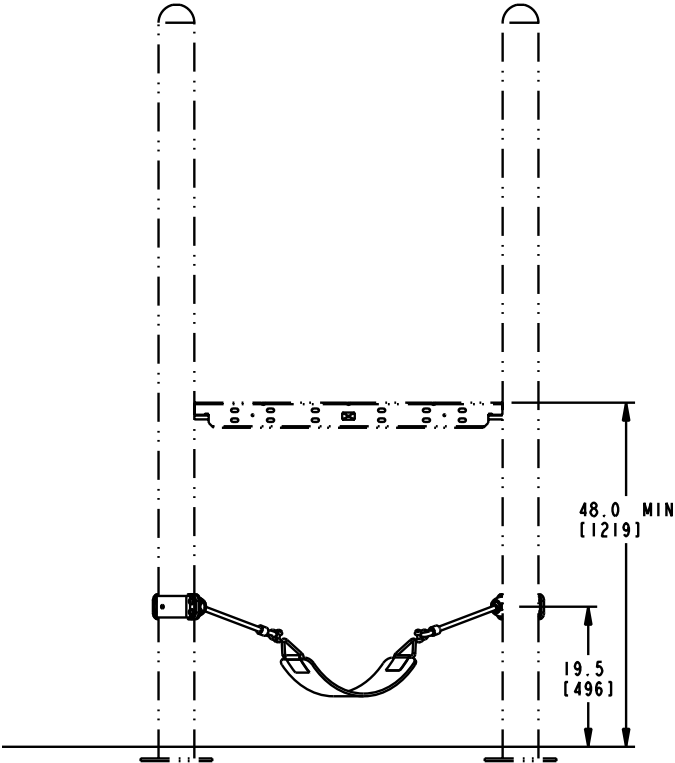
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

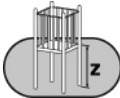
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



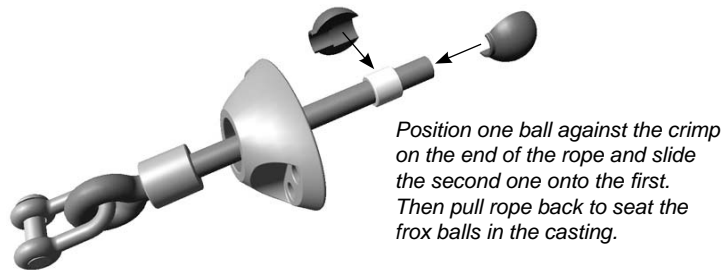
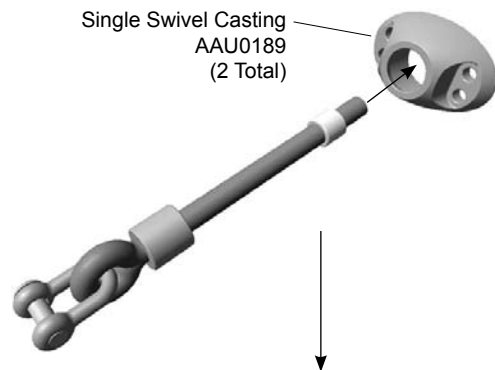
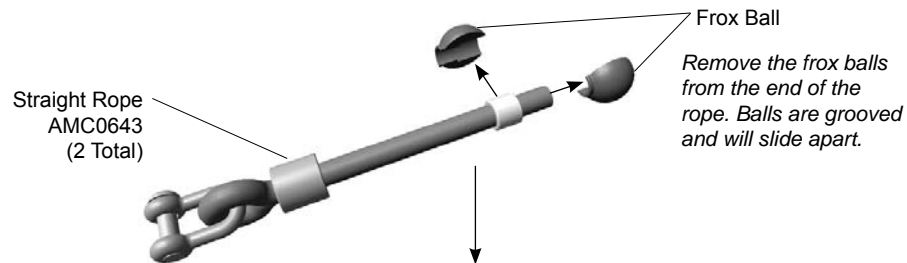
Elevation Views



10" (254 mm)

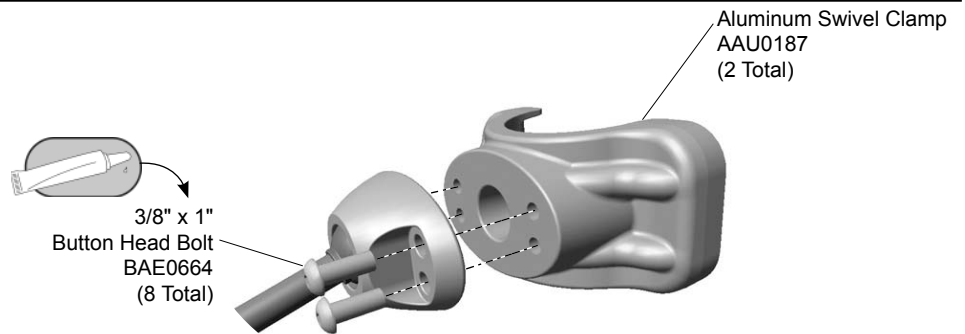
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



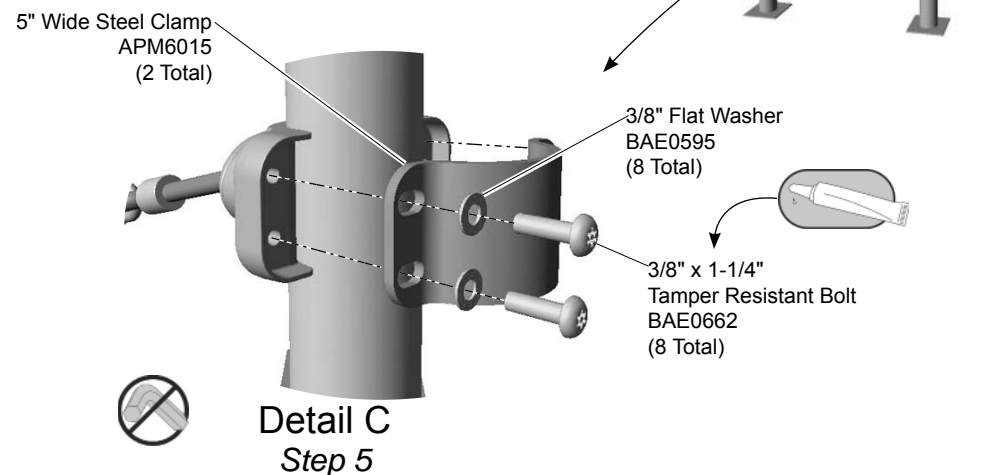
Detail A Step 3

Place the swivel casting on the straight rope.



Detail B Step 4

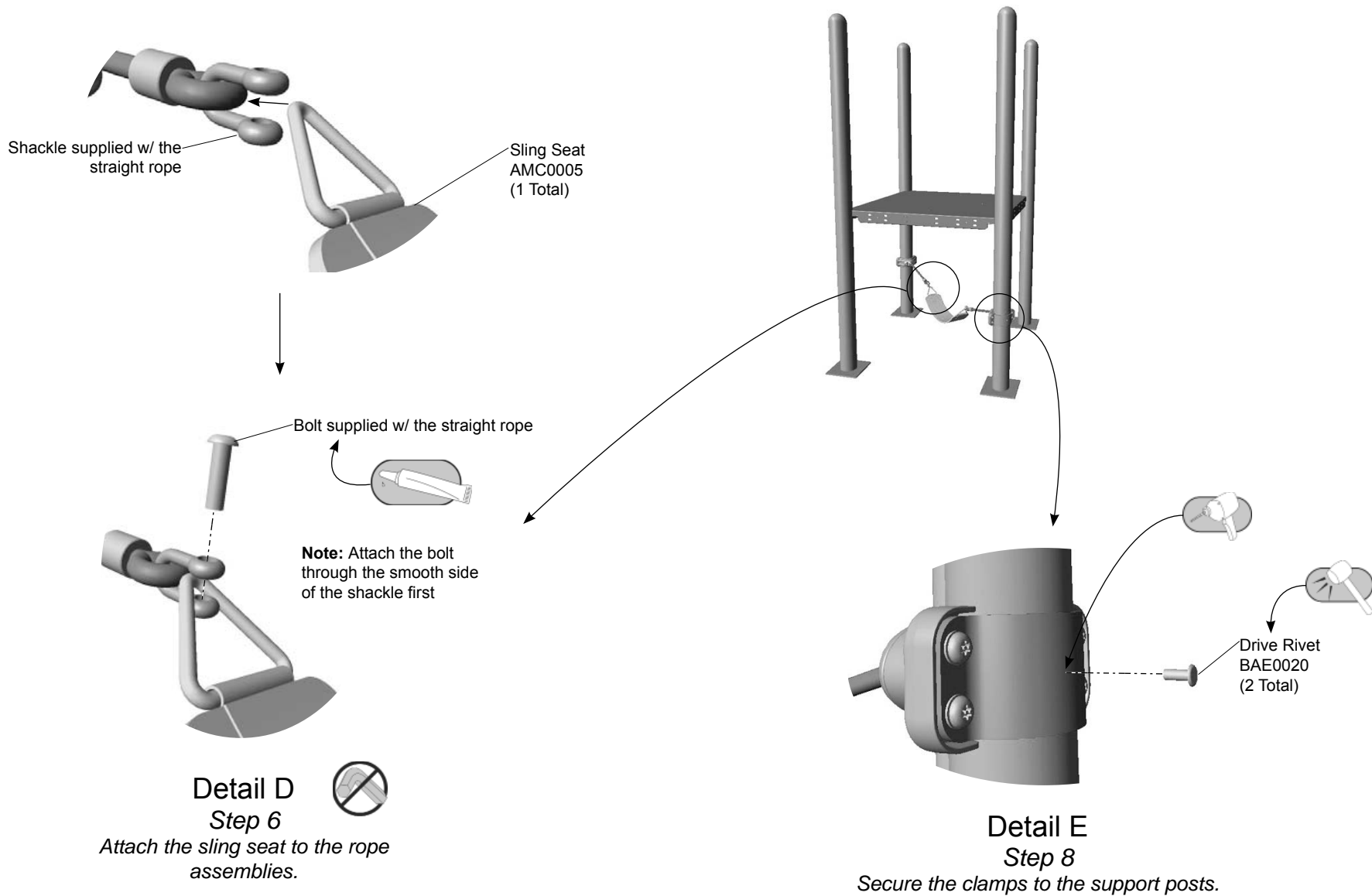
Attach the swivel casting to the aluminum swivel clamp.



Detail C Step 5

Attach the rope assemblies to the support posts.

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Place the swivel casting on the straight rope. See **Detail A**. Remove the frox balls from the end of the rope. Balls are grooved and will slide apart. Insert the end of the rope through the swivel casting and replace the frox balls on the rope.

Step 4: Attach the swivel casting to the aluminum swivel clamp. See **Detail B**. Position the casting against the flat side of the clamp, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 5: Attach the rope assemblies to the support posts. See **Detail C and Elevation View**. Position each rope assembly against a support post at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 6: Attach the sling seat to the rope assemblies. See **Detail D**. Remove the bolt from the shackle on each straight rope and insert an end of the seat. Apply a drop of thread locking adhesive to the bolt threads and thread back into the shackle, inserting it through the smooth side first.

Final Details.

Step 7: Plumb and level the seat on the support posts. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4896 - SLING SEAT

PART NO.	DESCRIPTION	QTY.
AAU0187	CLAMP - 5" ALUMINUM SWIVEL	2
AAU0189	SINGLE SWIVEL CASTING	2
AMC0005	SEAT - SLASH PROOF BELT	1
AMC0643	16.00" STRAIGHT ROPE w/SHACKLE AND FROX BALL	2
APM6015	CLAMP - 5.00" x 3.00" WIDE STEEL	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8



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Assembly View (representative model)

Model	Description
ZZUN4279	Pipe Wall Mount (CH/EX)
ZZUN4280	Pipe Wall Mount for (PM)
ZZUN4438	Pipe Wall Mount w/Lens (CH/EX)
ZZUN4439	Pipe Wall Mount w/Lens (PM)

Installation Instructions




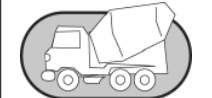
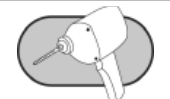

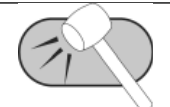
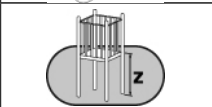
Universal Models UN4279, UN4280,
UN4438, & UN4439

Telescope Pipe Wall Mount (CH/EX) or (PM) &
Telescope Pipe Wall Mount w/ Lens (CH/EX) or (PM)

Installation Preparation

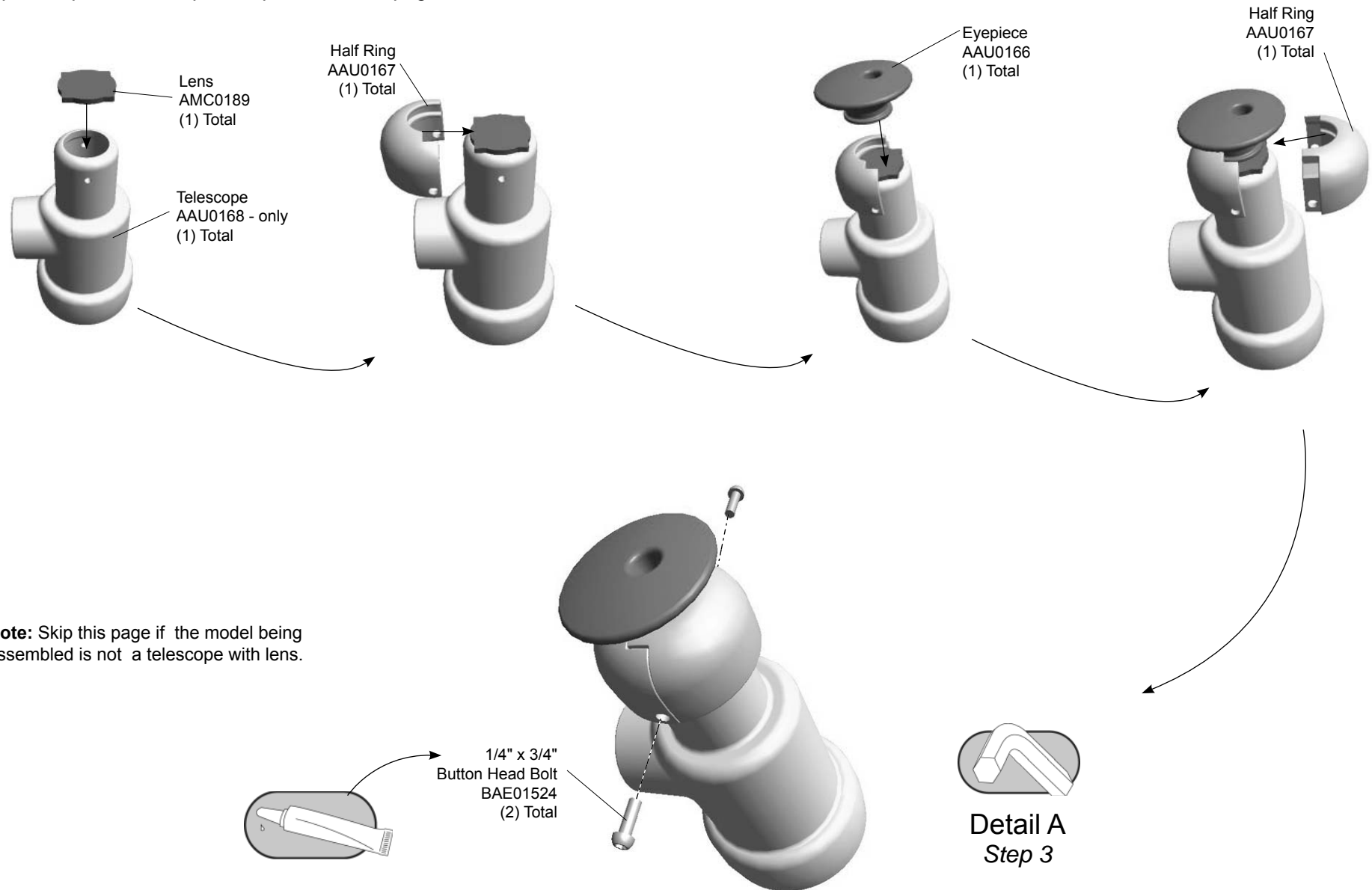
Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

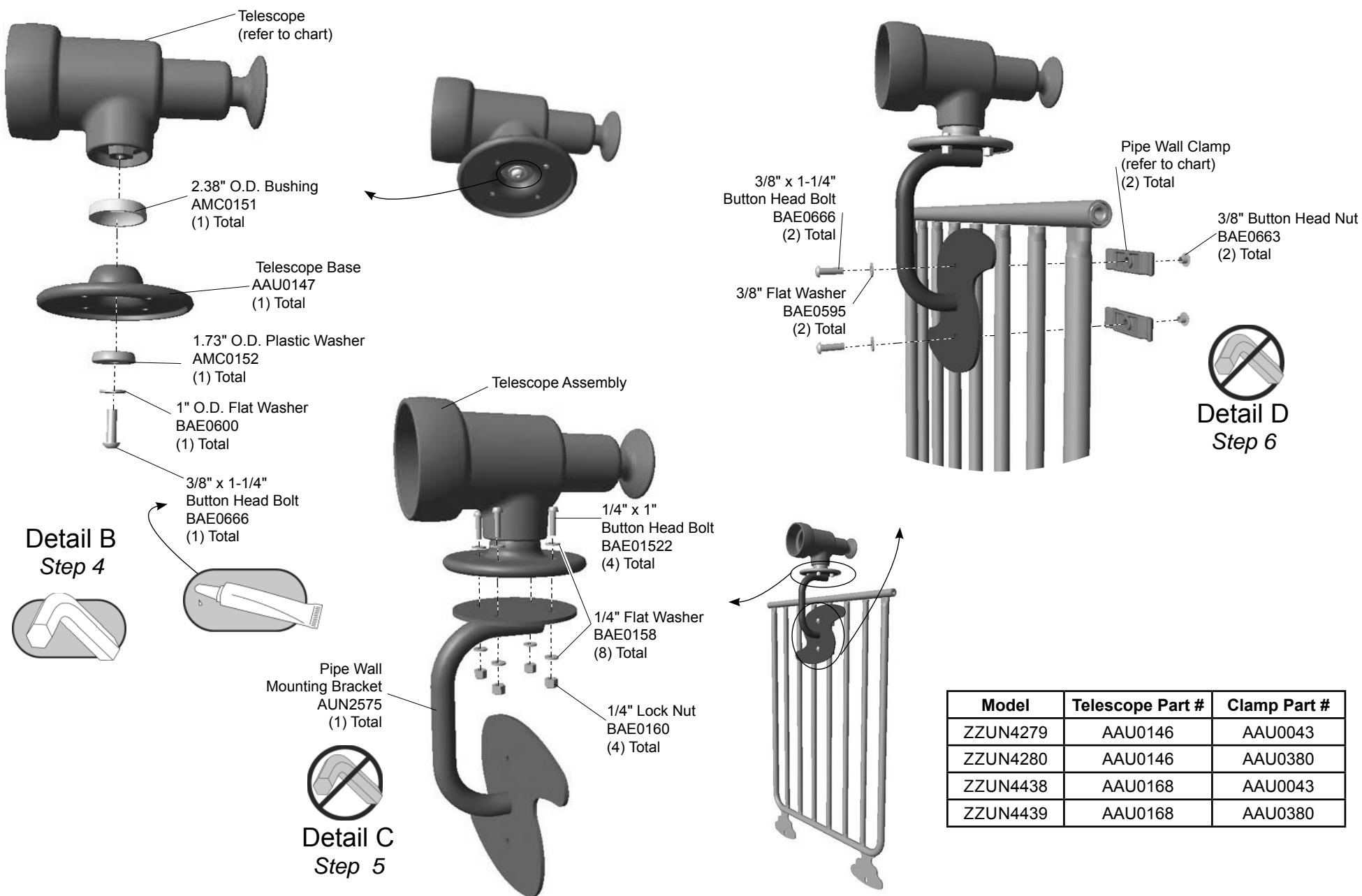
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Assemble the telescope.

Note: *Skip this step if the model being assembled is not a telescope with a lens.*

Step 3: See Detail A. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connections. The eyepiece should turn easily within the assembly.

Attach the telescope to the base.

Step 4: See Detail B. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connection.

Attach the telescope to the mounting bracket.

Step 5: See **Detail C.** Attach as shown.

Attach the bracket to the pipe wall barrier.

Step 6: See **Detail D.** Position the bracket on the proper side of the pipe wall barrier looking out from the structure. The telescope should extend above the pipe wall barrier with the eyepiece toward the deck. Attach as shown.

Final Details.

Step 7: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN4279 - TELESCOPE PIPE WALL MOUNT (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4

UN4280 - TELESCOPE PIPE WALL MOUNT (PM)

PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0380	CLAMP - STEERING WHEEL	2
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4

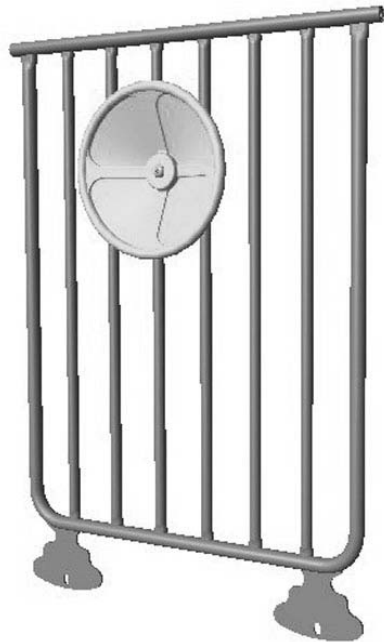
UN4438 - TELESCOPE PIPE WALL MOUNT (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0166	CASTING - EYEPIECE	1
AAU0167	CASTING - RING HALF	2
AAU0168	CASTING - TELESCOPE MACHINED	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AMC0189	SILKSCREENED LEXAN LENS	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	2

UN4439 - TELESCOPE PIPE WALL MOUNT (PM)

PART NO.	DESCRIPTION	QTY.
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AAU0166	CASTING - EYEPIECE	1
AAU0167	CASTING - RING HALF	2
AAU0168	CASTING - TELESCOPE MACHINED	1
AAU0380	CLAMP - STEERING WHEEL	2
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" w/HOLE	1
AMC0189	SILKSCREENED LEXAN LENS	1
AUN2575	BRACKET - PIPE WALL TELESCOPE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	8
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	3
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	4
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	2





Assembly View (representative model)

Model	Description
ZZUN4299	CH/EX for 4" Centers
ZZUN4300	PM for 4" Centers
ZZUN4307	CH/EX for 3.75" Centers

Installation Instructions




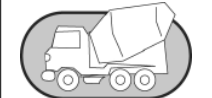
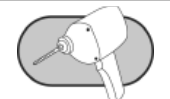

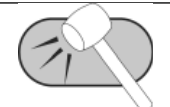
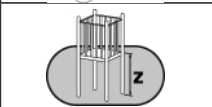
Universal Models UN4299, UN4300, & UN4307

Steering Wheel Pipe Wall Mount

Installation Preparation

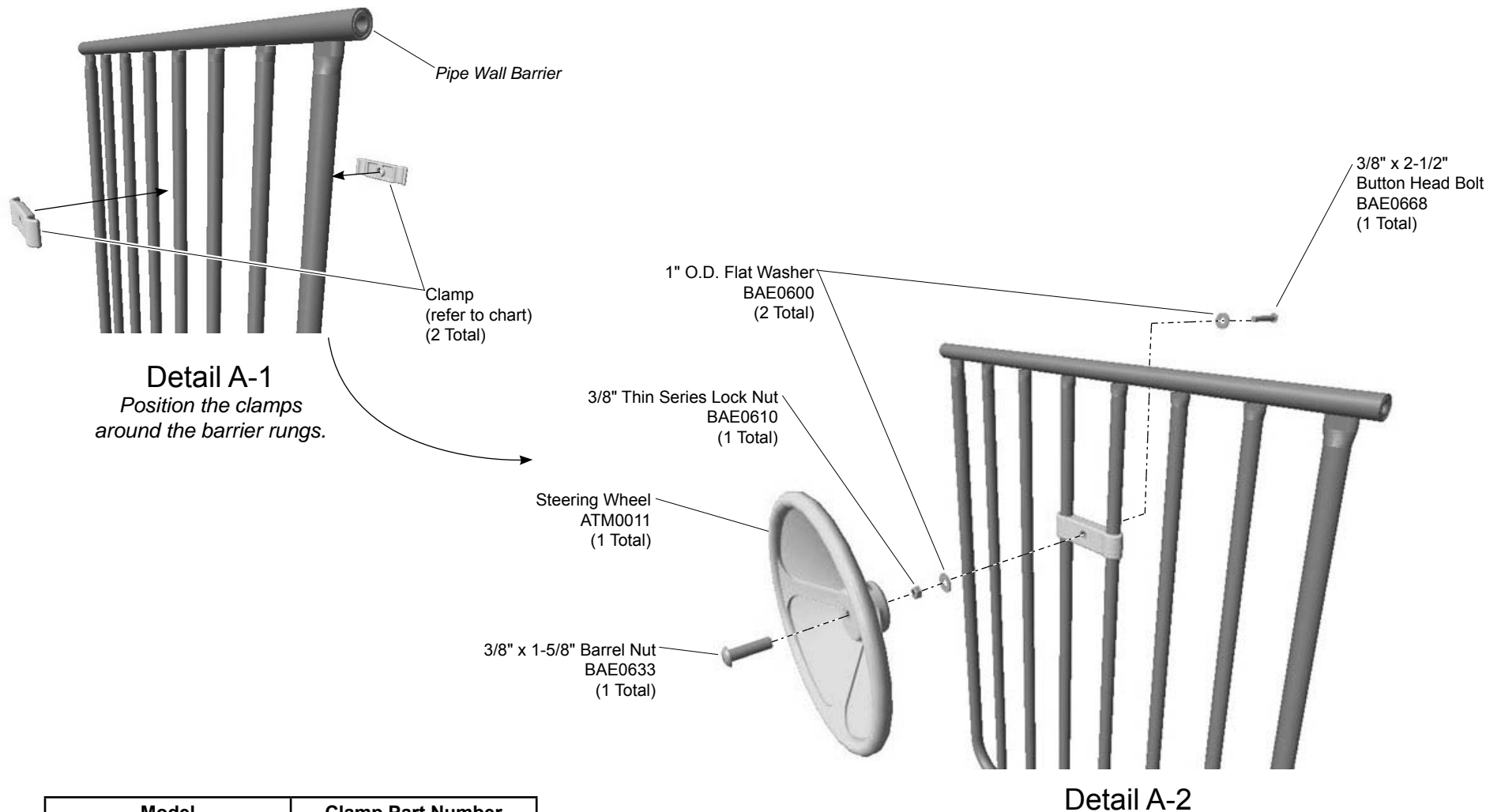
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 3.



Model	Clamp Part Number
ZZUN4299	AAU0043
ZZUN4300	AAU0380
ZZUN4307	AAU0046

Details A-1 and A-2
Step 3
Attach the steering wheel to the barrier.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the steering wheel to the pipe wall barrier.

Step 3: See **Details A-1 and A-2**. Place the steering wheel clamps around the bars on the pipe wall barrier. Working from the outside of the pipe wall barrier, insert a bolt through a flat washer, both clamps, another flat washer, and thread on a thin series lock nut. Move the clamps to the appropriate height for the intended user, and fully tighten the nut to hold the clamps in place. Insert the barrel nut into the steering wheel and thread the barrel nut / steering wheel assembly onto the bolt.

Final Details.

Step 4: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. The steering wheel should still turn freely.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN4299 - STEERING WHEEL PIPE WALL MOUNT FOR 4 in. RUNG CENTERS (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0043	CLAMP - STEERING WHEEL FOR 4" CENTERS	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1

UN4300 - STEERING WHEEL PIPE WALL MOUNT FOR 4 in. RUNG CENTERS (PM)

PART NO.	DESCRIPTION	QTY.
AAU0380	CLAMP - STEERING WHEEL	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1

UN4307 - STEERING WHEEL PIPE WALL MOUNT 3.75 in. RUNG CENTERS (CH/EX)

PART NO.	DESCRIPTION	QTY.
AAU0046	CLAMP - STEERING WHEEL FOR 3-3/4" CENTERS	2
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1-5/8" BARREL	1
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1



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Assembly View




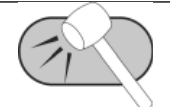

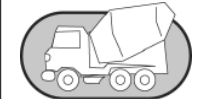

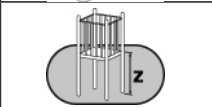
Installation Instructions

Playmakers® Model PM4090

Centerline Pipe Wall Barrier

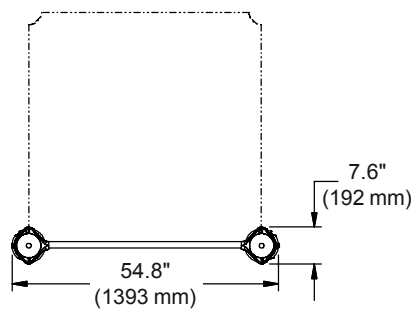
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

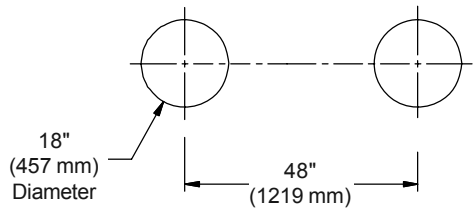
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

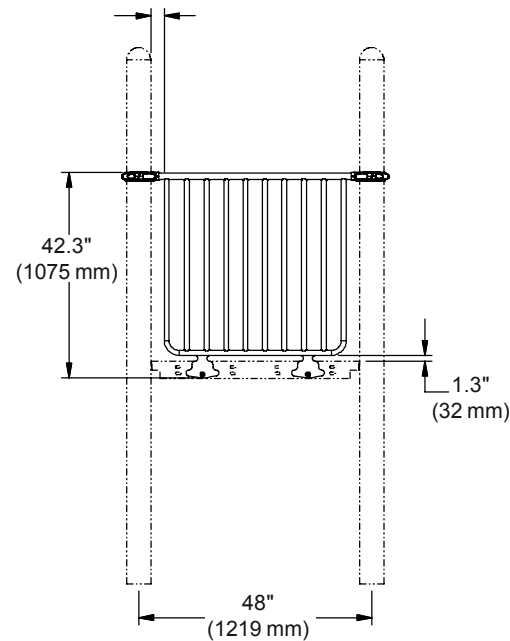
Top View



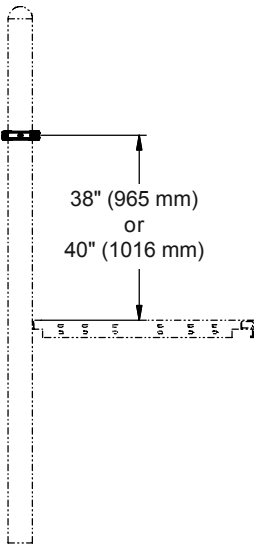
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

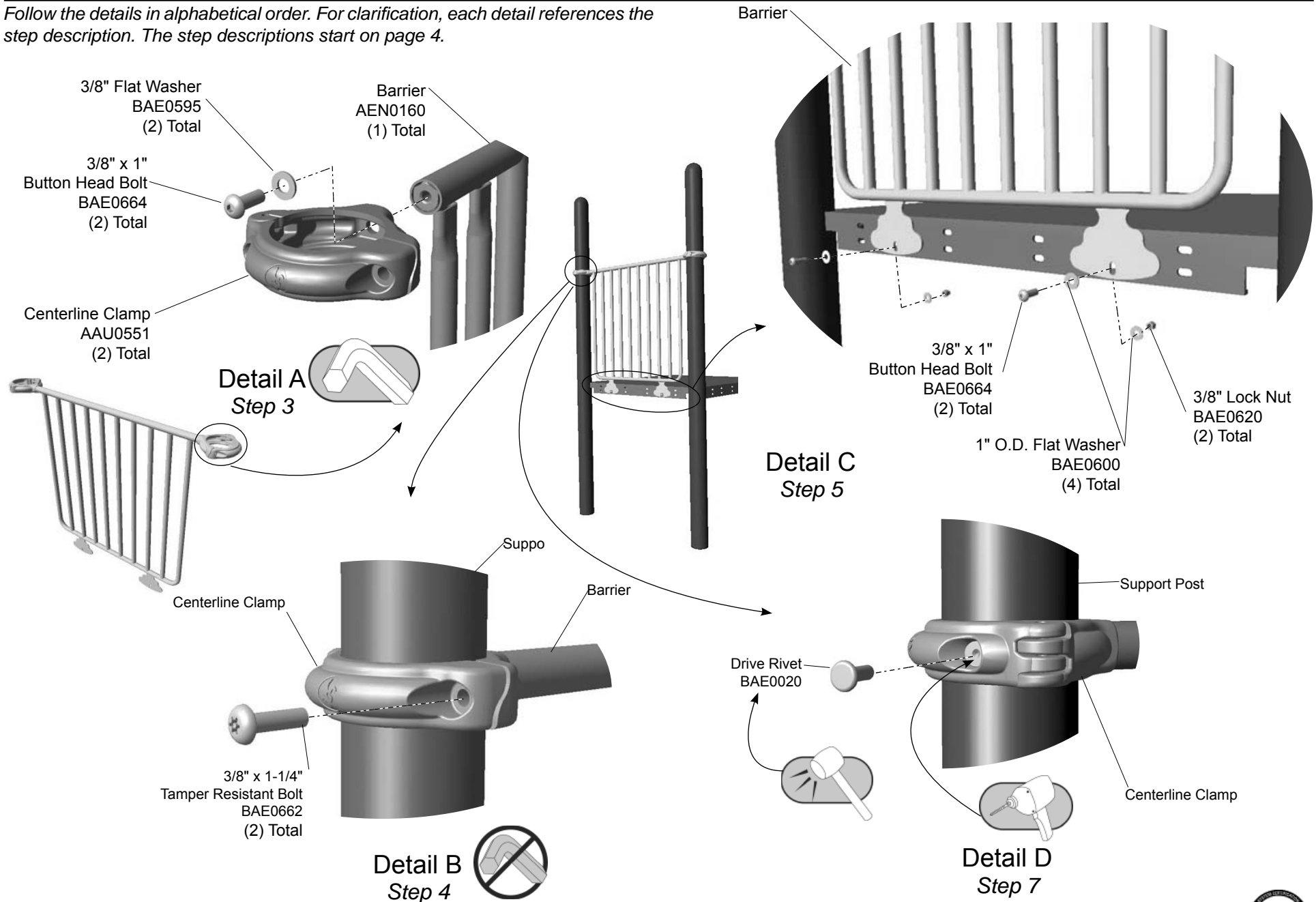


Elevation View



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

Step 3: See **Detail A**. Attach as shown. Make sure the clamps open the same direction.

Attach the clamps to the support posts.

Step 4: See **Detail B**. Lift the barrier into position against the deck. Close the clamps around the support posts. Align the barrier plates with the deck. Attach as shown. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Note: To avoid clamp interference, the deck has been provided with an upper and lower set of holes. Choose the either set of holes that works best with your clamp placement condition.

Attach the bottom of the barrier to the deck.

Step 5: See **Detail C**. Attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

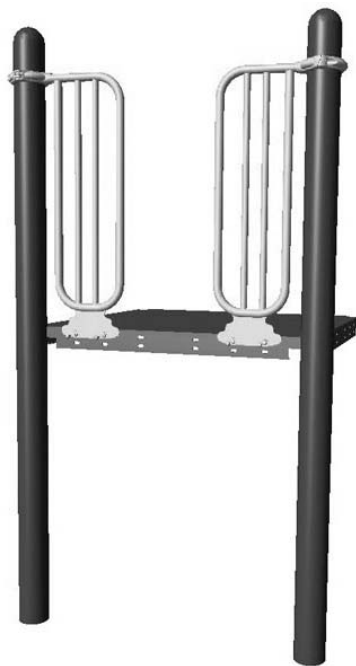
PM4090 - CENTERLINE PIPE WALL BARRIER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0160	BARRIER - 41" CENTERLINE PIPEWALL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	2
BAE0661	BOLT - 3/8"-16 x 1/2" BUTTON HEAD - SS	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2



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Assembly View

Installation Instructions




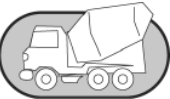
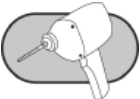

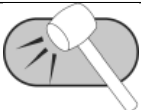
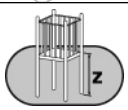
Playmakers® Model PM4288

Compliance Access Gate

Installation Preparation

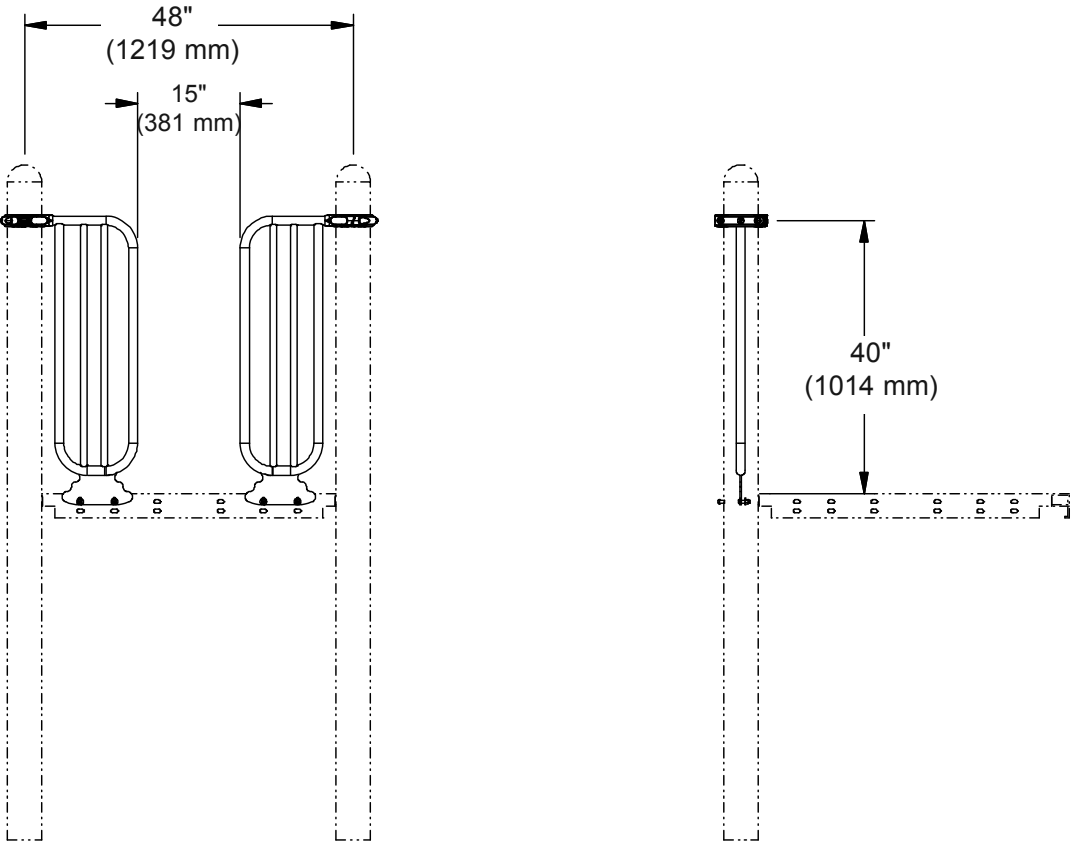
Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

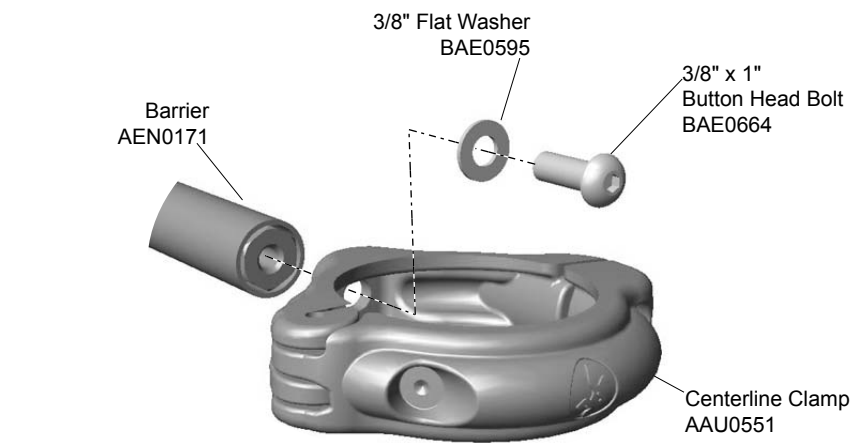
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



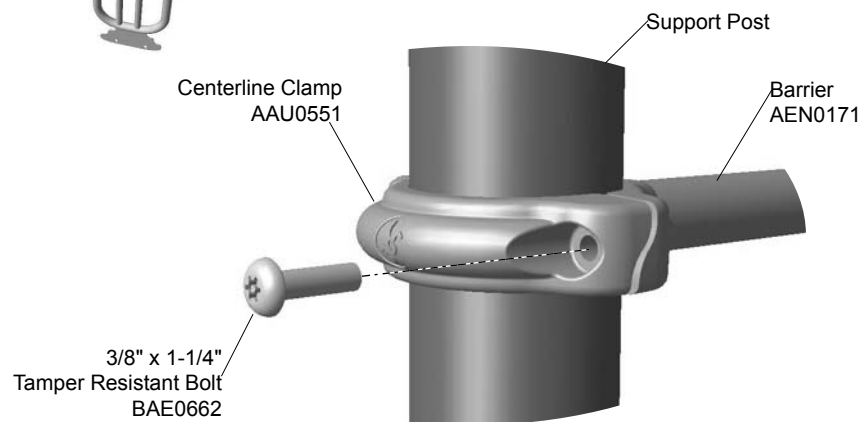
Elevation View

Installation Instructions

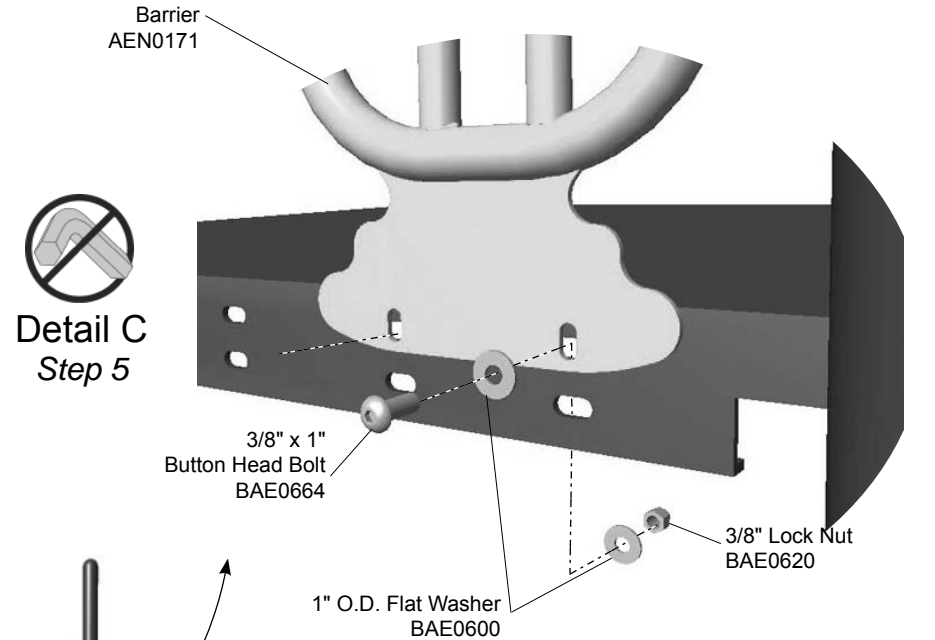
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



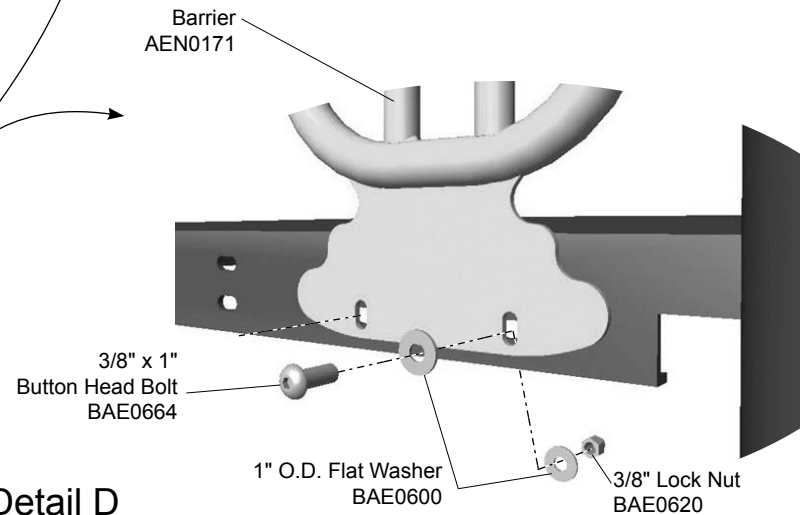
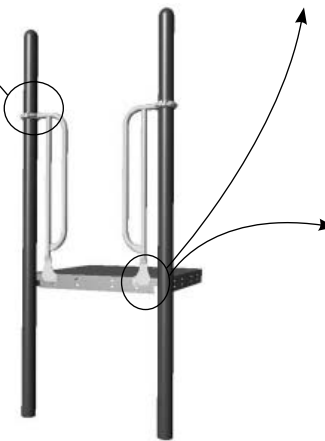
Detail A
Step 3



Detail B
Step 4



Detail C
Step 5

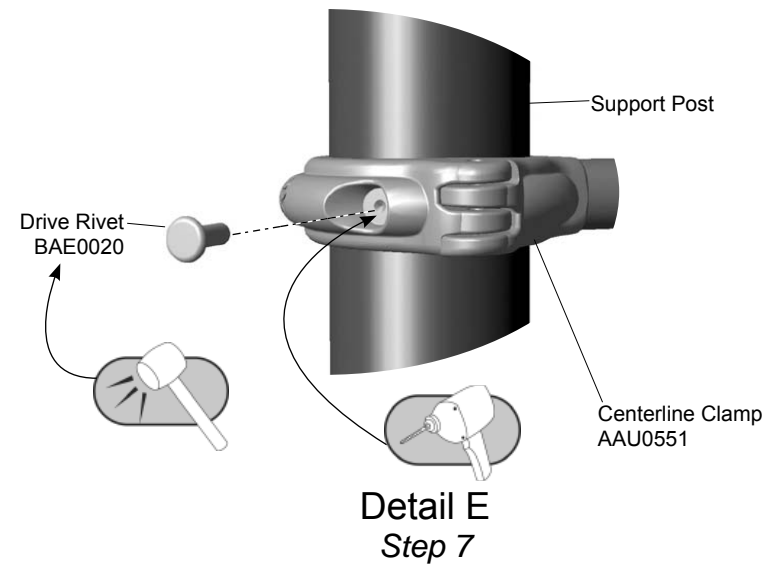


Detail D
Step 5

Installation Instructions



Step 6



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

Step 3: Attach the clamps to the barrier. See **Detail A**. Select both barriers, both clamps, and the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. Position a clamp against the top of each barrier and attach as shown. Fully tighten the connection.

Attach the clamps to the support posts.

Step 4: Attach the centerline clamps to the support posts. See **Detail B**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per clamp. Lift each barrier into position against the deck and close each clamp around a support post. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts.

Attach the barrier to the deck.

Step 5: Attach the barrier to the deck. See **Detail C and D**. Select the appropriate hardware. There are (2) two total connections, (1) one connection per barrier. The gate can be connected to either set of deck holes depending on the position of adjacent clamps. Align each gate tab with either the top or bottom hole in the deck and attach as shown.

Note: Both gates should be mounted at the same height.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4288 - COMPLIANCE ACCESS GATE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0171	BARRIER - 13" x 42-3/16" GATE w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6



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Assembly View

Installation Instructions





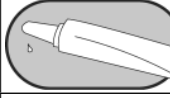


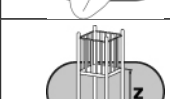
Playmakers® Model PM6388

6 ft. (1829 mm) Canyon Crossing

Deck to Deck w/ (12 in. 305 mm) Rise

Installation Preparation

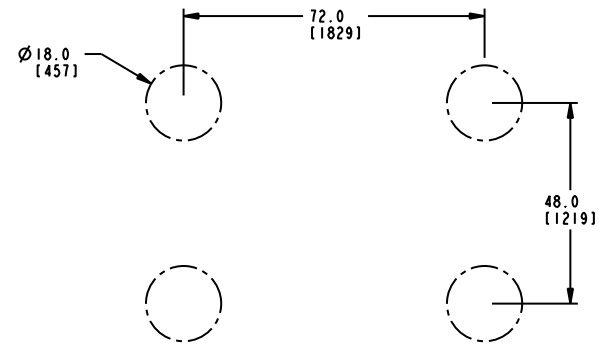
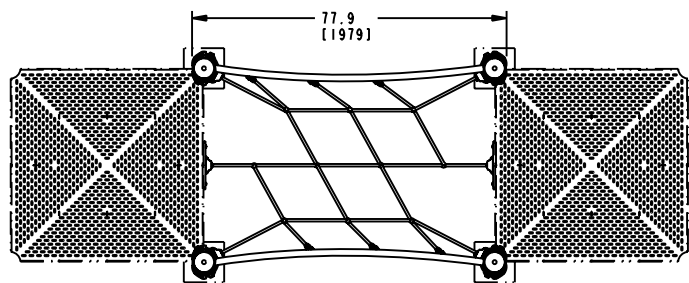
Recommended Crew: Two (2) adults
 Installation Time: 3 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

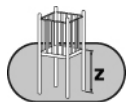
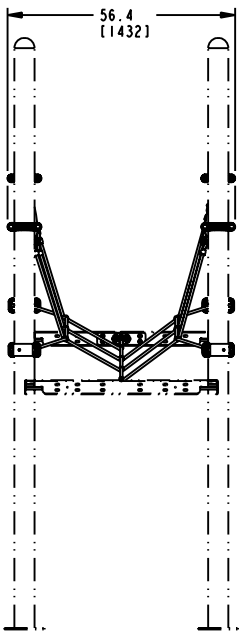
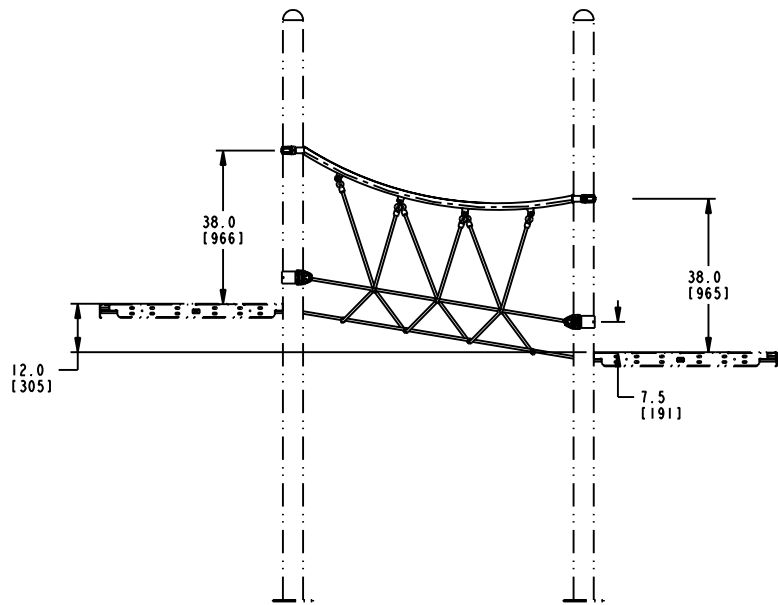
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram



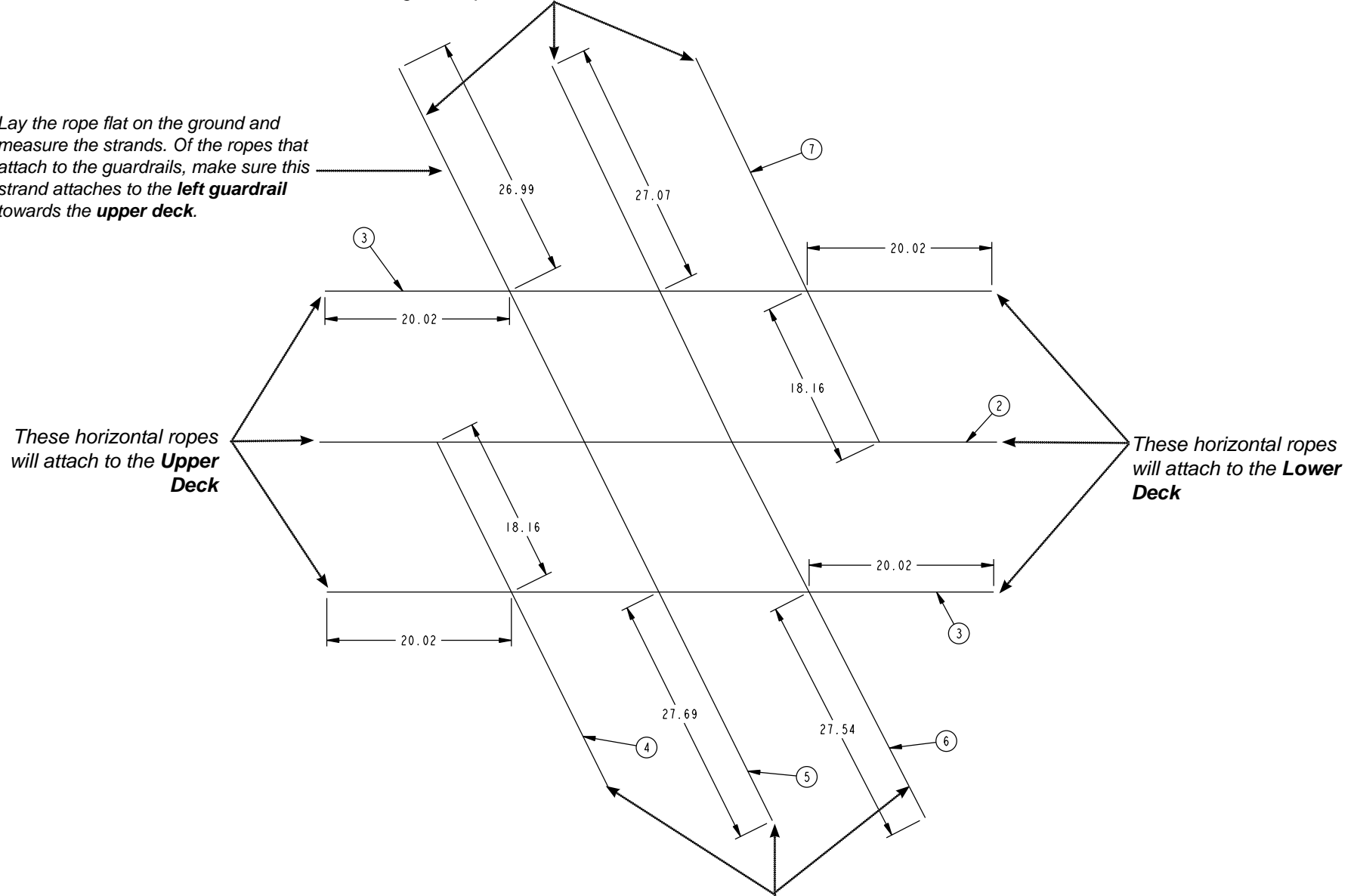
Equal to the height of the highest deck.



Installation Instructions

*These diagonal ropes will attach to the **Left Guardrail***

*Lay the rope flat on the ground and measure the strands. Of the ropes that attach to the guardrails, make sure this strand attaches to the **left guardrail** towards the **upper deck**.*



*These horizontal ropes will attach to the **Upper Deck***

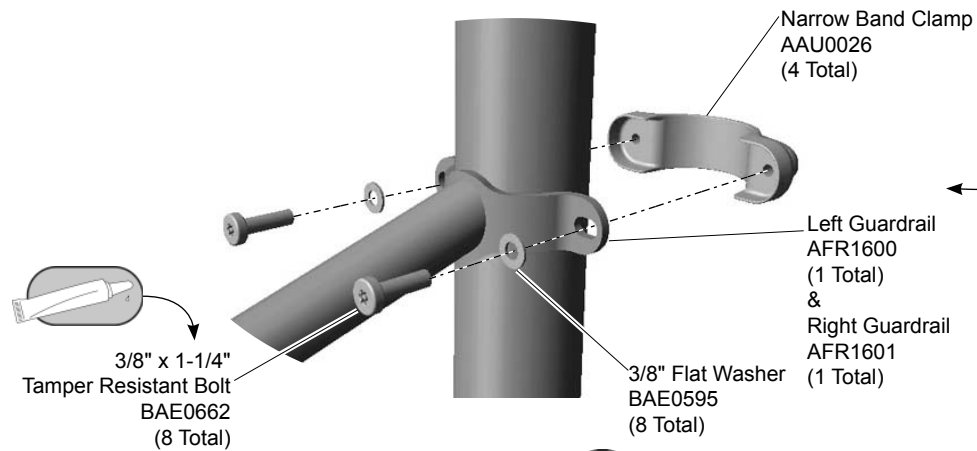
*These horizontal ropes will attach to the **Lower Deck***

*These diagonal ropes will attach to the **Right Guardrail***

Rope Orientation Top View

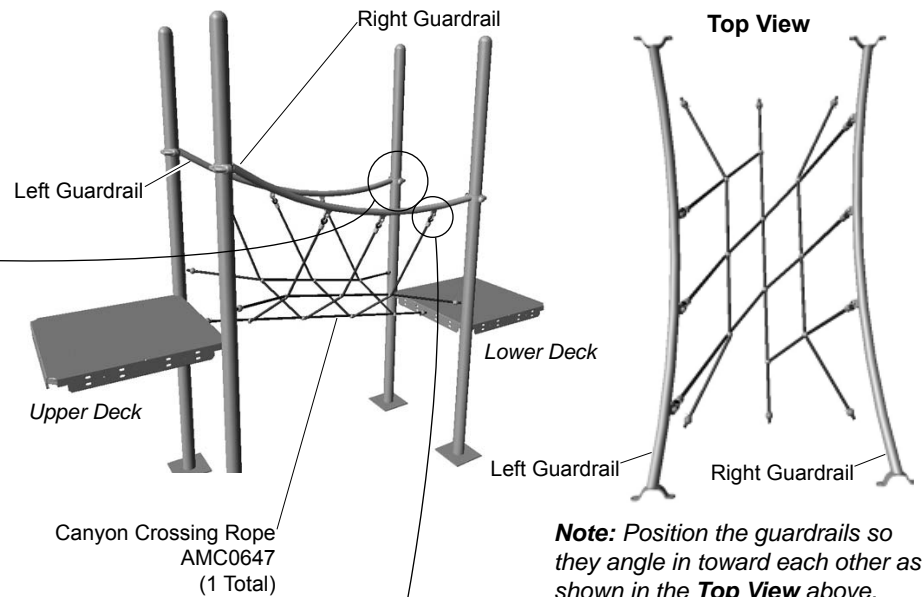
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

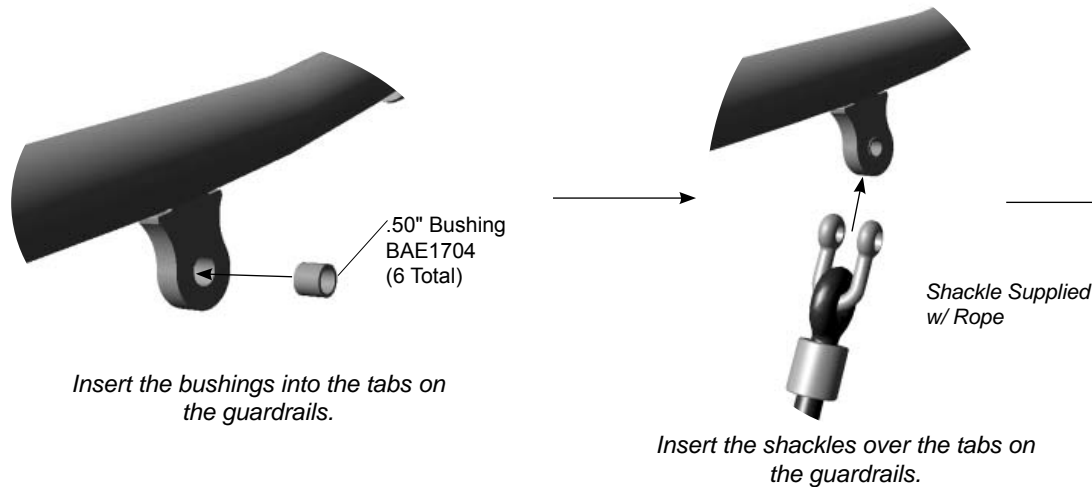


Detail A
Step 3

Attach the guardrails to the support posts.



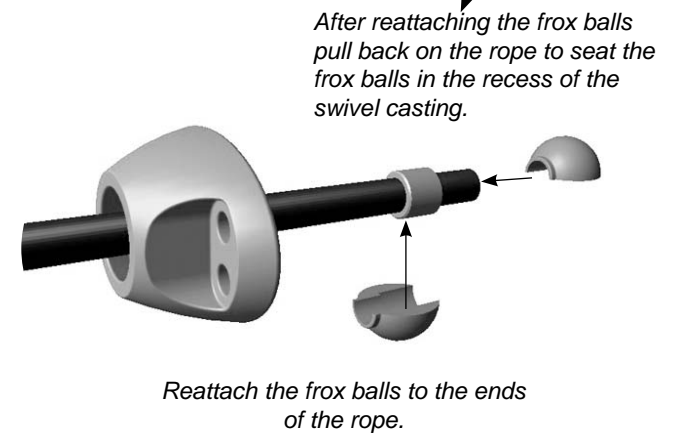
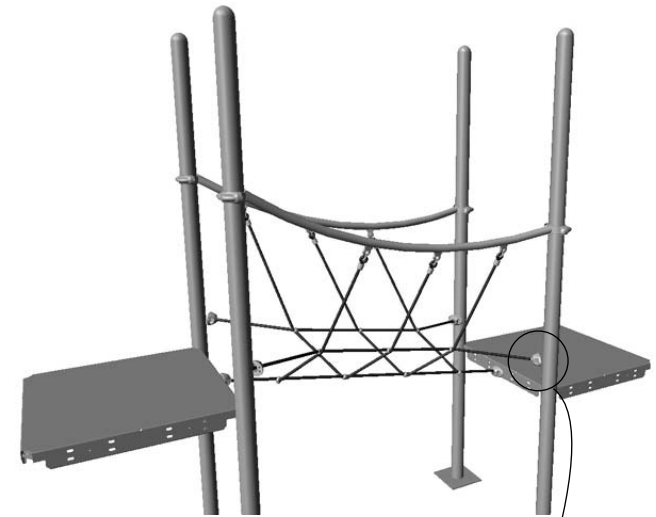
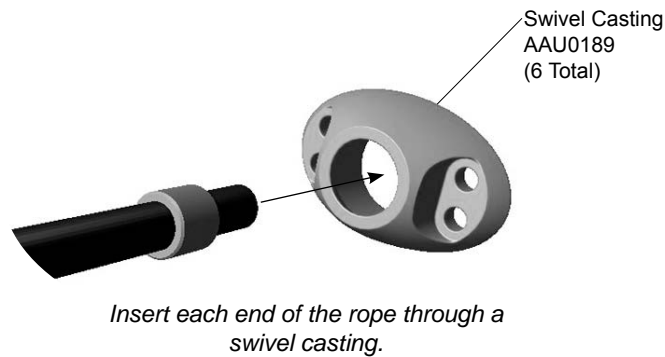
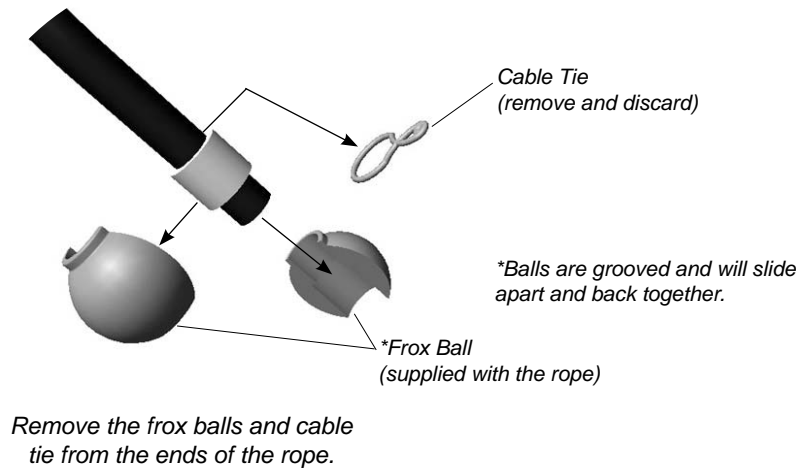
Note: Position the guardrails so they angle in toward each other as shown in the **Top View** above.



Detail B
Step 4

Attach the rope to the guardrails See **Rope Orientation Top View** on the previous page.

Installation Instructions

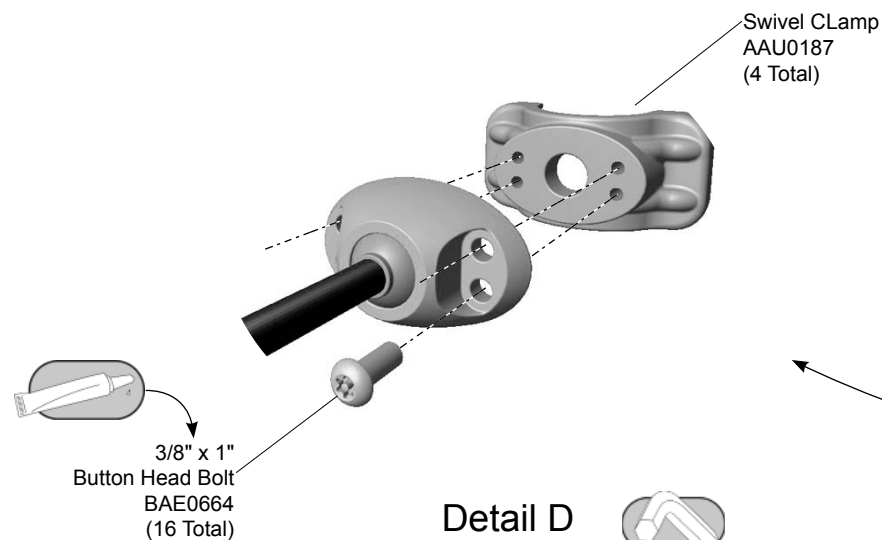


Detail B

Step 4

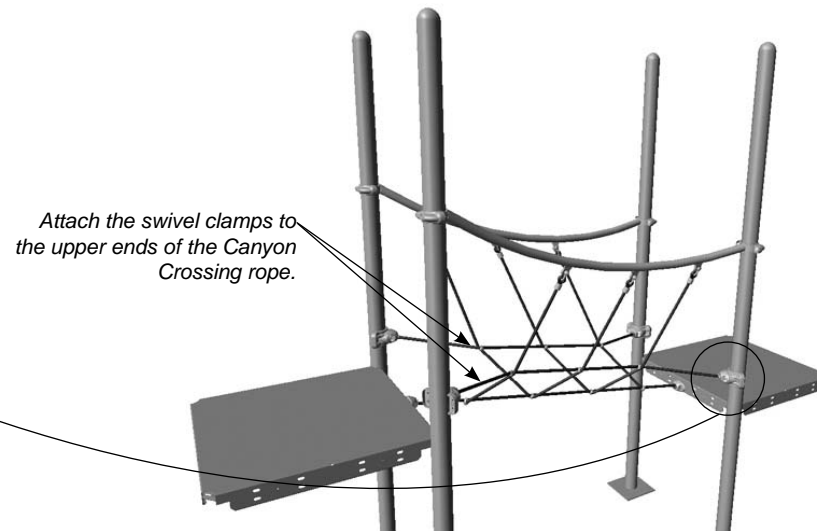
Place a swivel casting onto each end of the Canyon Crossing rope.

Installation Instructions

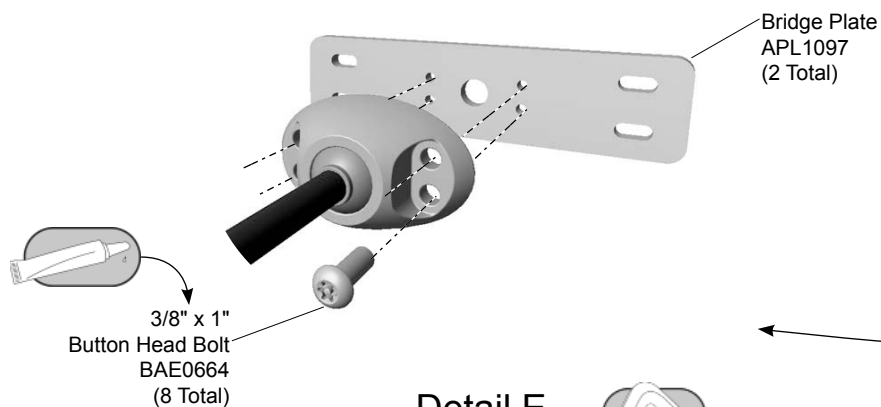


Step 6

Attach the swivel castings on the upper ends of the Canyon Crossing rope to the swivel clamps.

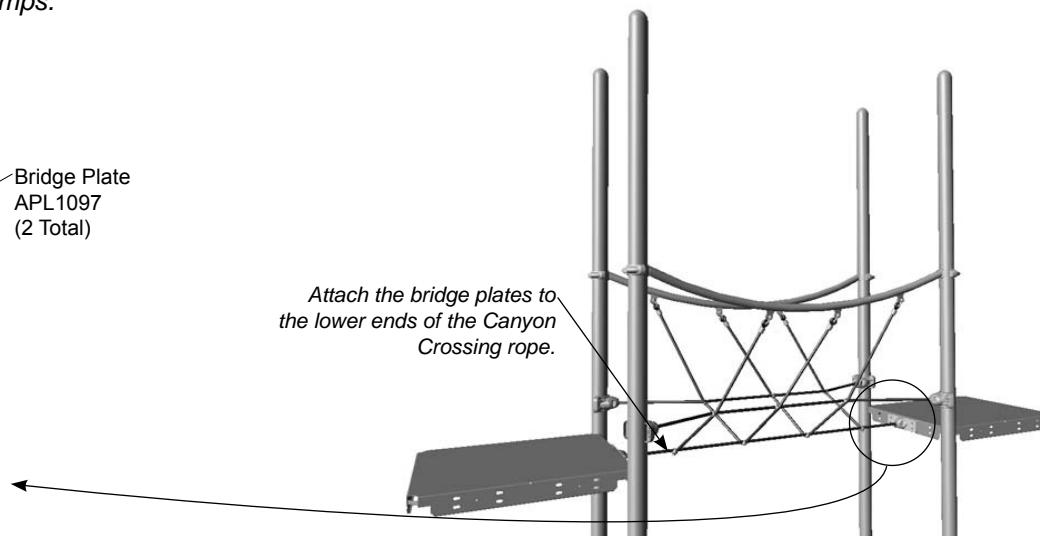


Attach the swivel clamps to the upper ends of the Canyon Crossing rope.



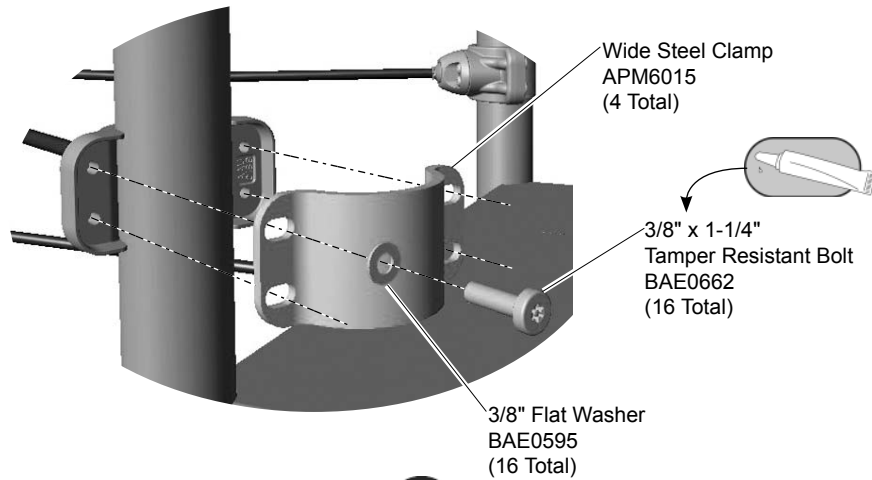
Step 7

Attach the swivel castings on the lower ends of the Canyon Crossing rope to the bridge plates.



Attach the bridge plates to the lower ends of the Canyon Crossing rope.

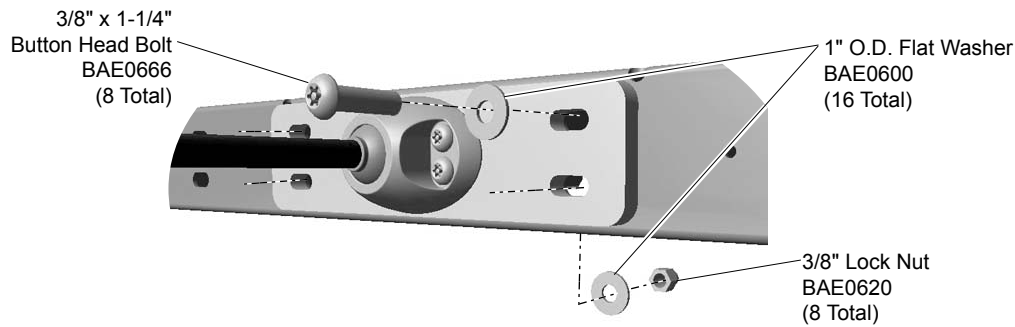
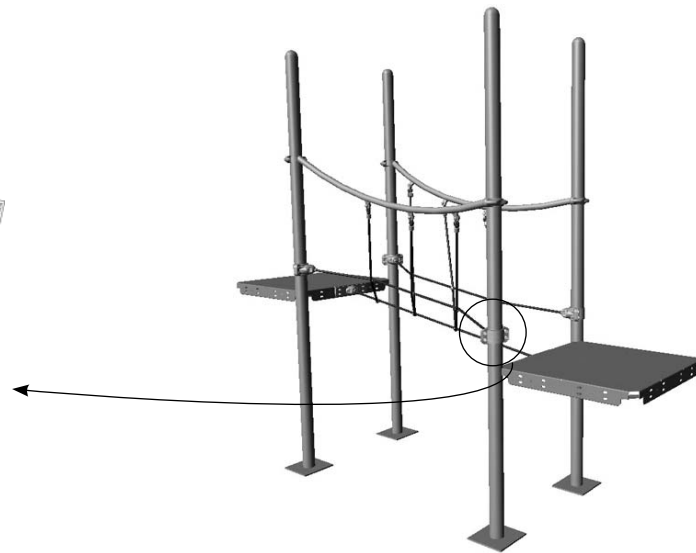
Installation Instructions



Detail F
Step 8



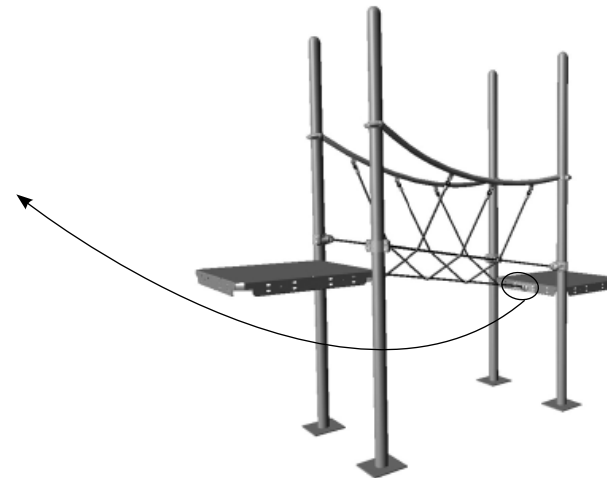
Attach the swivel clamps to the support posts.



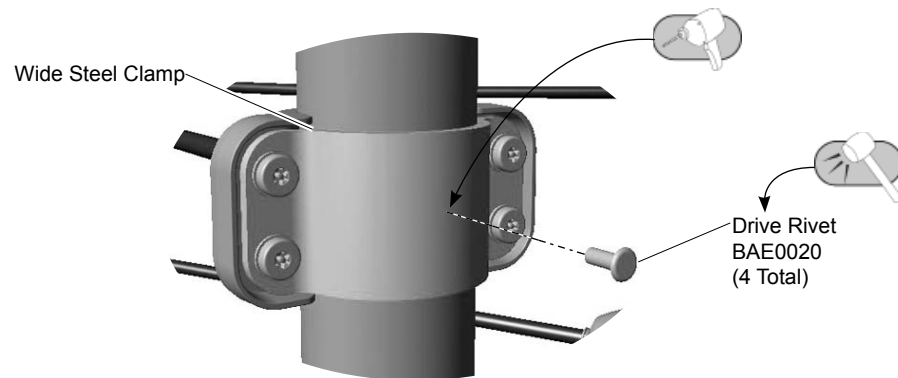
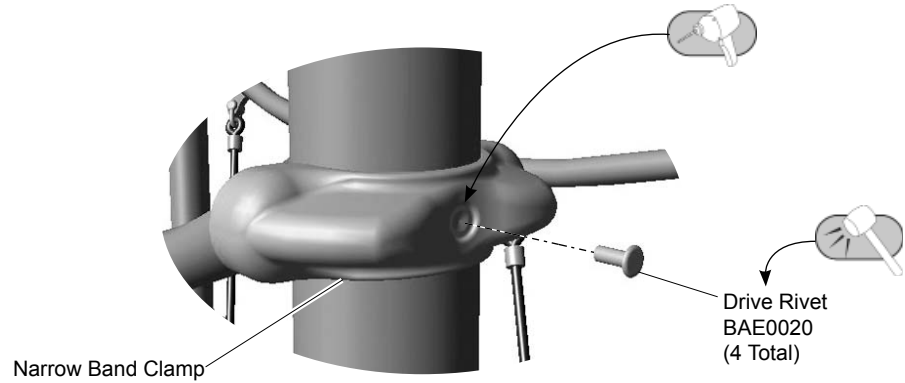
Detail G
Step 9



Attach the bridge plates to the decks.



Installation Instructions



Detail H

Step 11

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the guardrails to the support posts. See **Detail A**. Position the guardrails between the support posts at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Note: Position the guardrails so they angle in toward each other as shown in the **Top View** on the same page.

Step 4: Attach the Canyon Crossing rope to the guardrails. See **Detail B and Rope Orientation Top View**. Insert the bushings into the tabs on the guardrails. Insert the shackles on the ends of the rope over the tabs on the guardrails, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections. Rope **must be** oriented as shown in the **Rope Orientation Top View**.

Step 5: Place a swivel casting onto each end of the Canyon Crossing rope. See **Detail C**. Remove the frox balls and cable tie from the ends of the rope. Insert each end of the rope through a swivel casting and then reattach the frox balls and cable tie. Pull back on the rope to seat the frox balls in the recess of the swivel casting.

Step 6: Attach the swivel castings on the upper ends of the Canyon Crossing rope to the swivel clamps. See **Detail D**. Position each swivel casting against a swivel clamp, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Attach the swivel castings on the lower ends of the Canyon Crossing rope to the bridge plates. See **Detail E**. Position each swivel casting against a bridge plate, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 8: Attach the swivel clamps to the support posts. See **Detail F**. Position each swivel clamp against a support post at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 9: Attach the bridge plates to the decks. See **Detail G**. Position each bridge plate against a deck, align the holes in the plate with the center holes in the deck and attach as shown.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 11: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

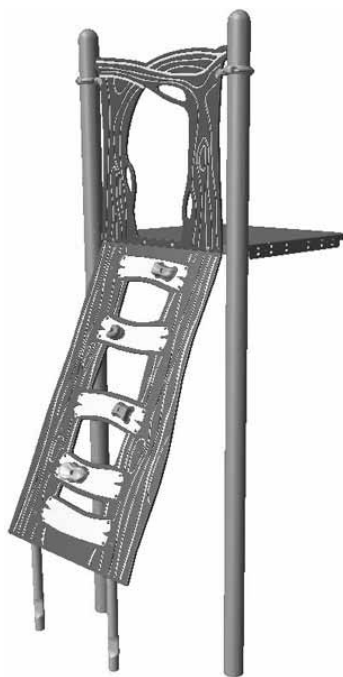
**PM6388 - 6 ft. (1829 mm) CANYON CROSSING DECK TO DECK
w/ (12 in. 305 mm) RISE**

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0187	CLAMP - 5" ALUMINUM SWIVEL	4
AAU0189	SINGLE SWIVEL CASTING	6
AFR1600	GUARDRAIL - 73.00" x 11.68" x 7.74" - LEFT	1
AFR1601	GUARDRAIL - 72.99" x 11.68" x 7.74" - RIGHT	1
AMC0647	ROPE - 6' CANYON CROSSING - 12" RISE (PM)	1
APL1097	PLATE - ROPE BRIDGE	2
APM6015	CLAMP - 5.00" DIA. x 3.00" WIDE STEEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	24
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	6



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Assembly View
(72" (1830 mm) model shown)

Model	Deck Height
ZZPM6816	48" (1219 mm)
ZZPM6817	60" (1524 mm)
ZZPM6818	72" (1829 mm)
ZZPM6819	84" (2134 mm)
ZZPM6820	96" (2438 mm)

Installation Instructions

Playmakers® Models PM6816-PM6820

Tree House Climber


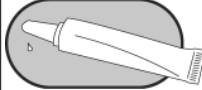

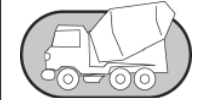
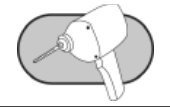


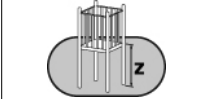
48" (1219 mm), 60" (1524 mm), 72" (1829 mm),
84" (2134 mm), & 96" (2438 mm)

Deck Heights

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.06 cubic yard (0,05 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 48"-60": ASTM/CSA: 2-12, EN: 2-14
 60"-96": ASTM/CSA: 5-12, EN: 6-14

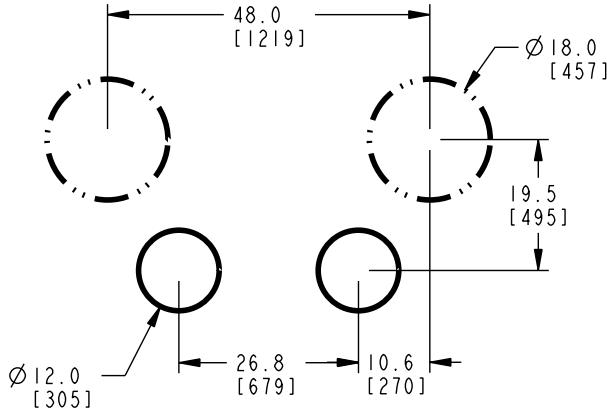
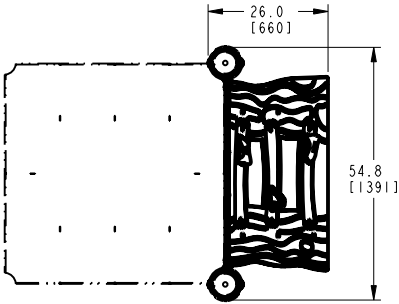
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

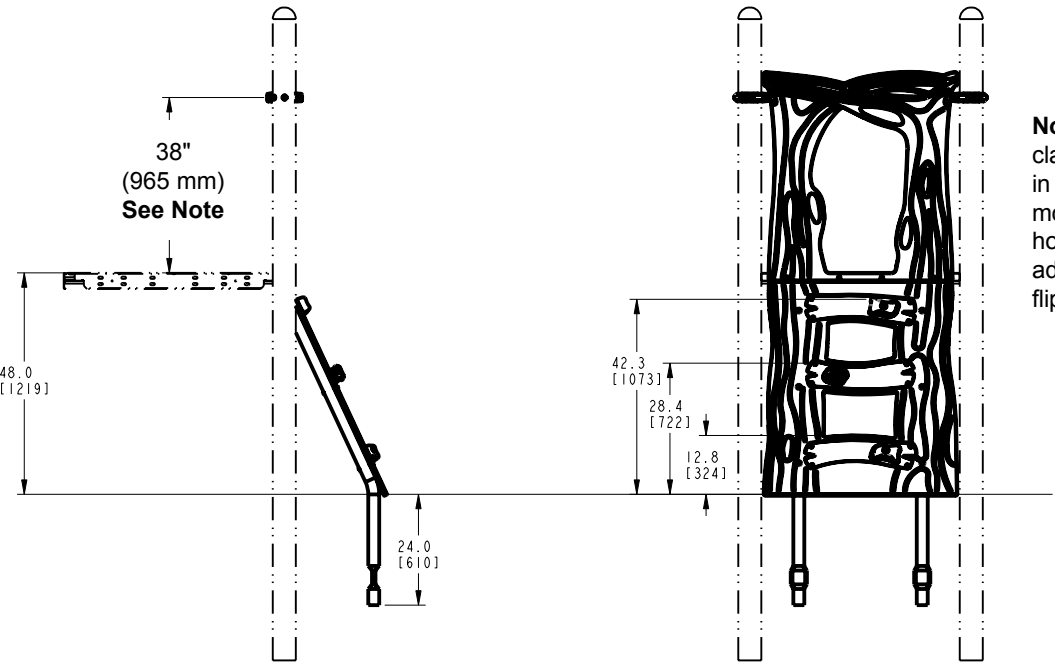
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

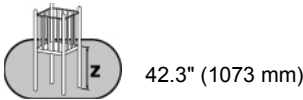


Footing Diagram



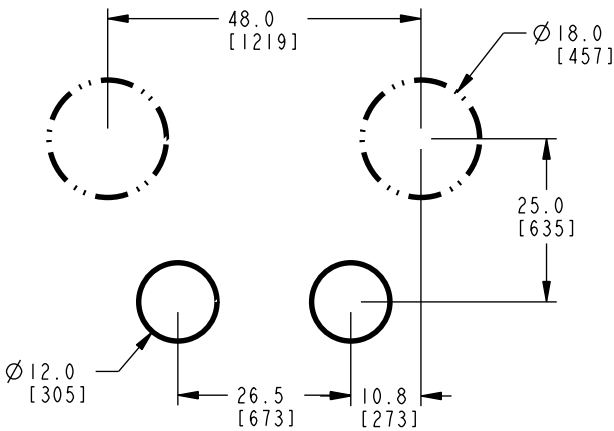
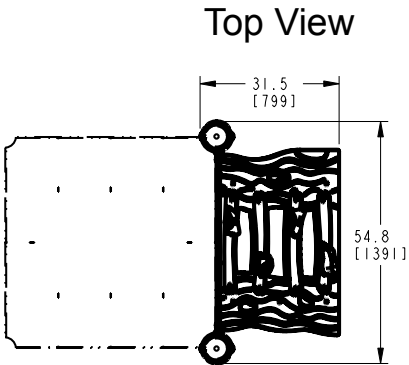
Elevation Views (PM6816)

Note: Dimension 38" (965 mm) for clamp adaptor positioned as shown in the details. The panel will be mounted to the upper set of deck holes. In case of clamp conflict, adaptor can be flipped. Dimension for flipped adaptor is 36" (915 mm).

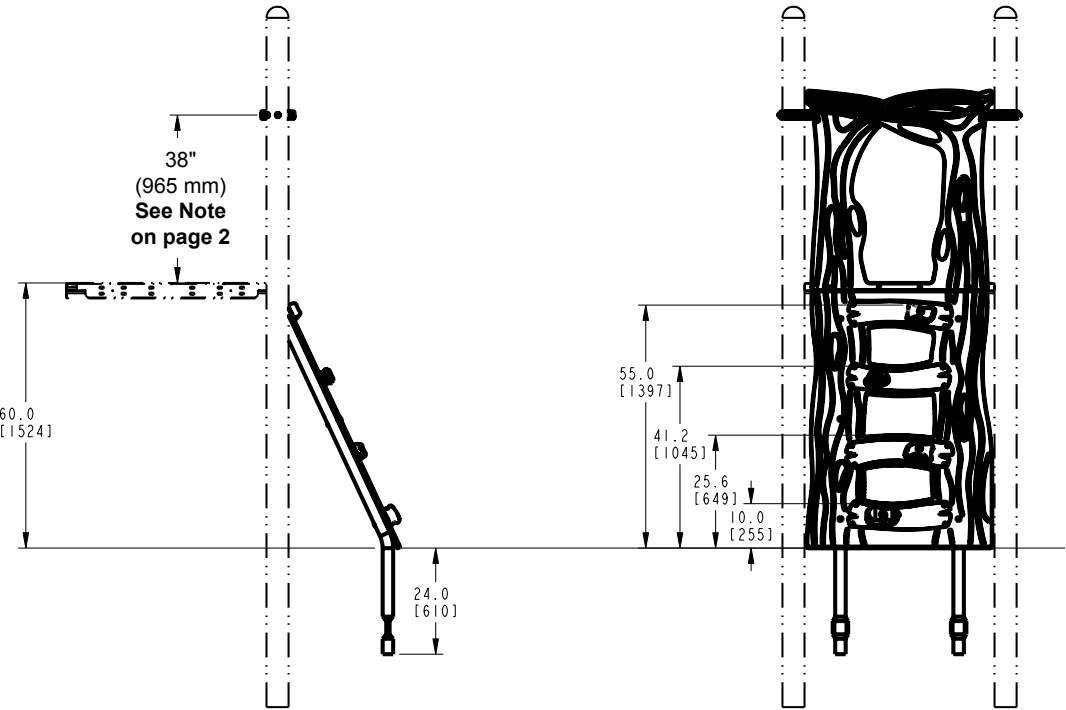


Installation Instructions

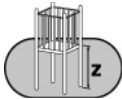
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation Views (PM6817)

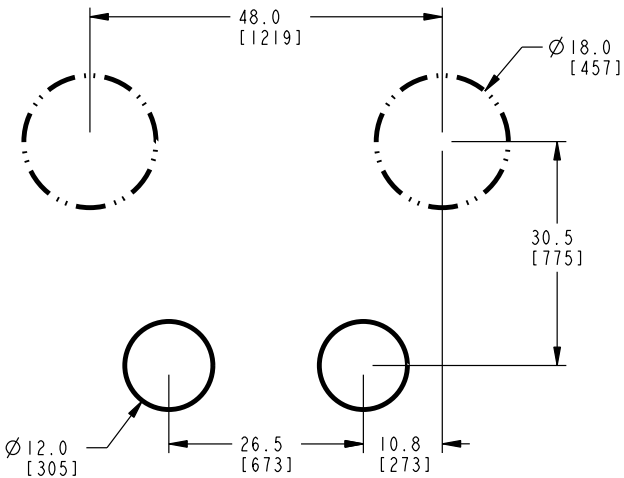
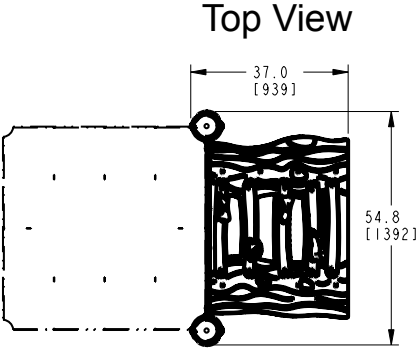


55" (1397 mm)

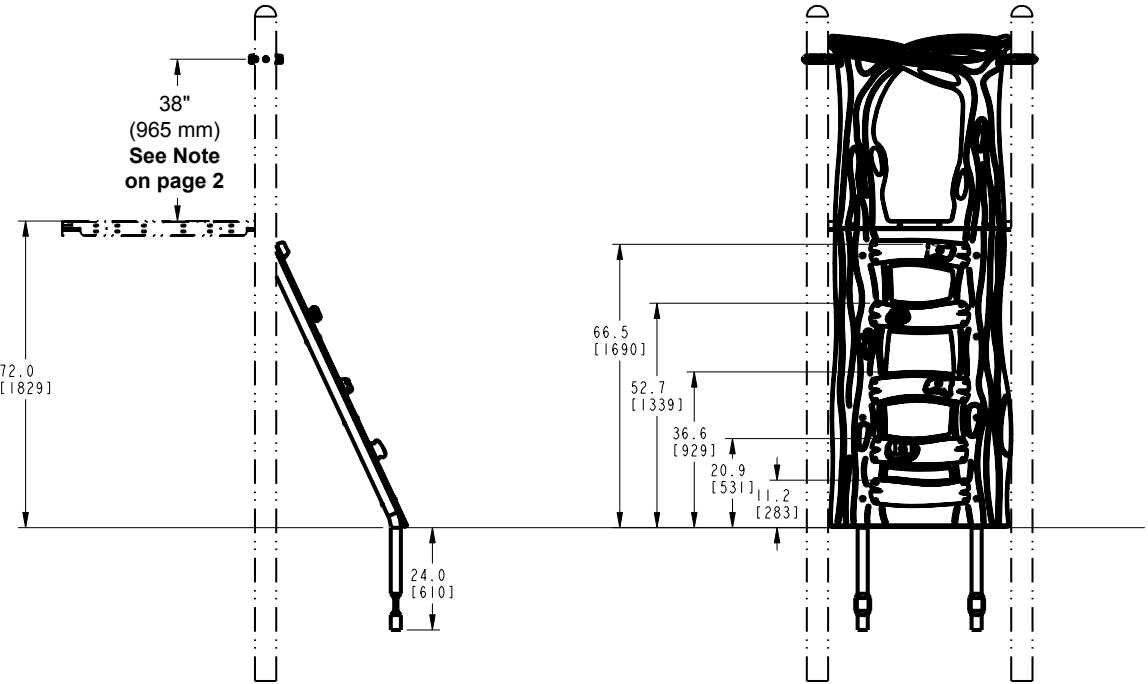


Installation Instructions

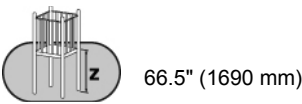
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footings Diagram

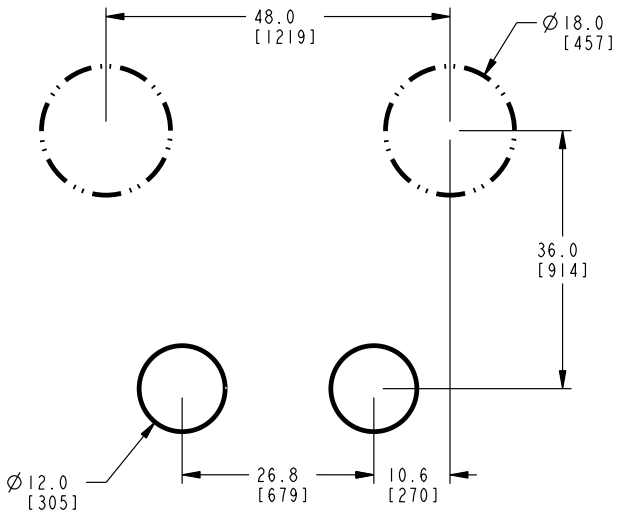
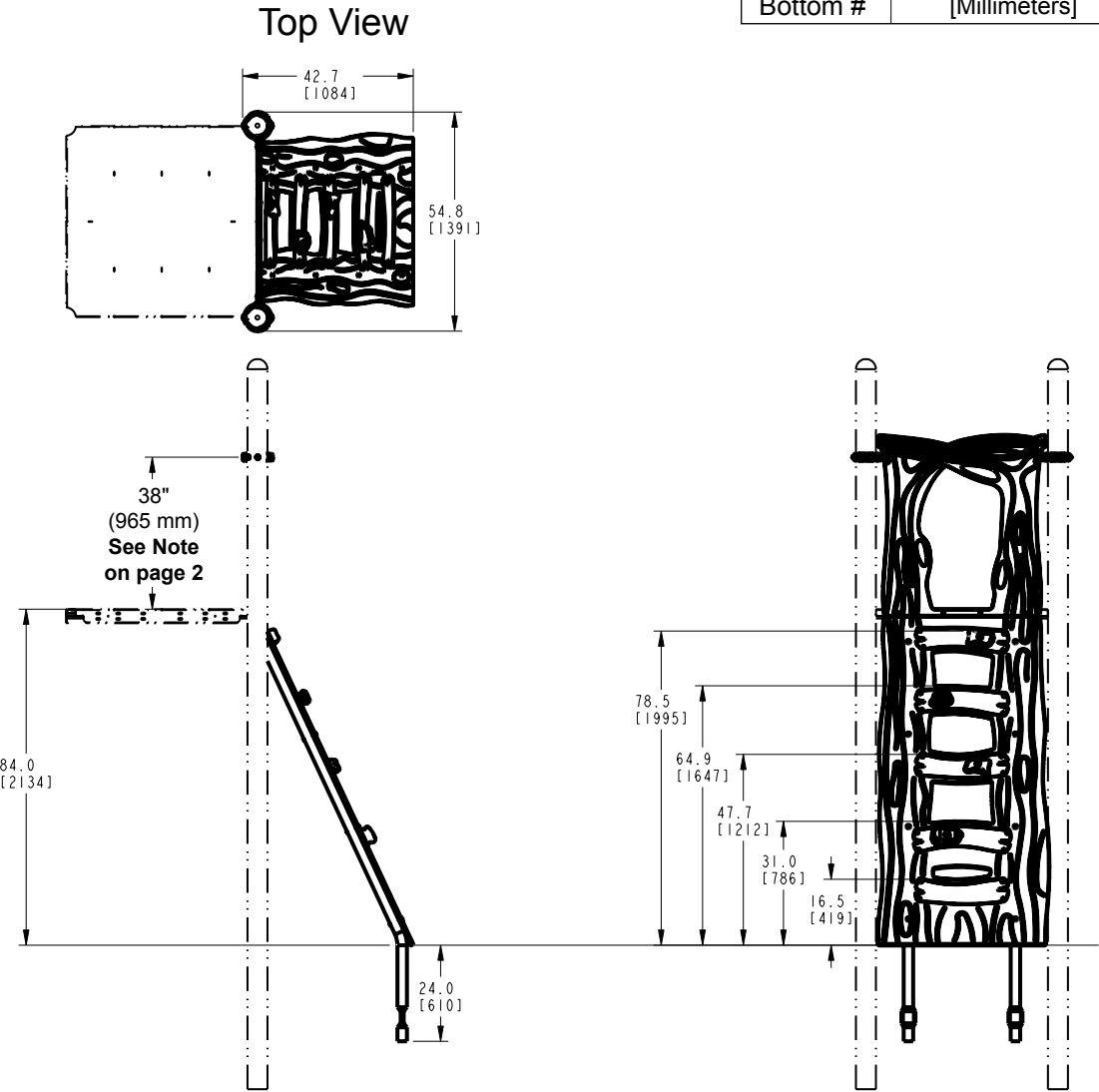


Elevation Views (PM6818)

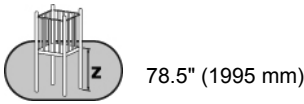


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



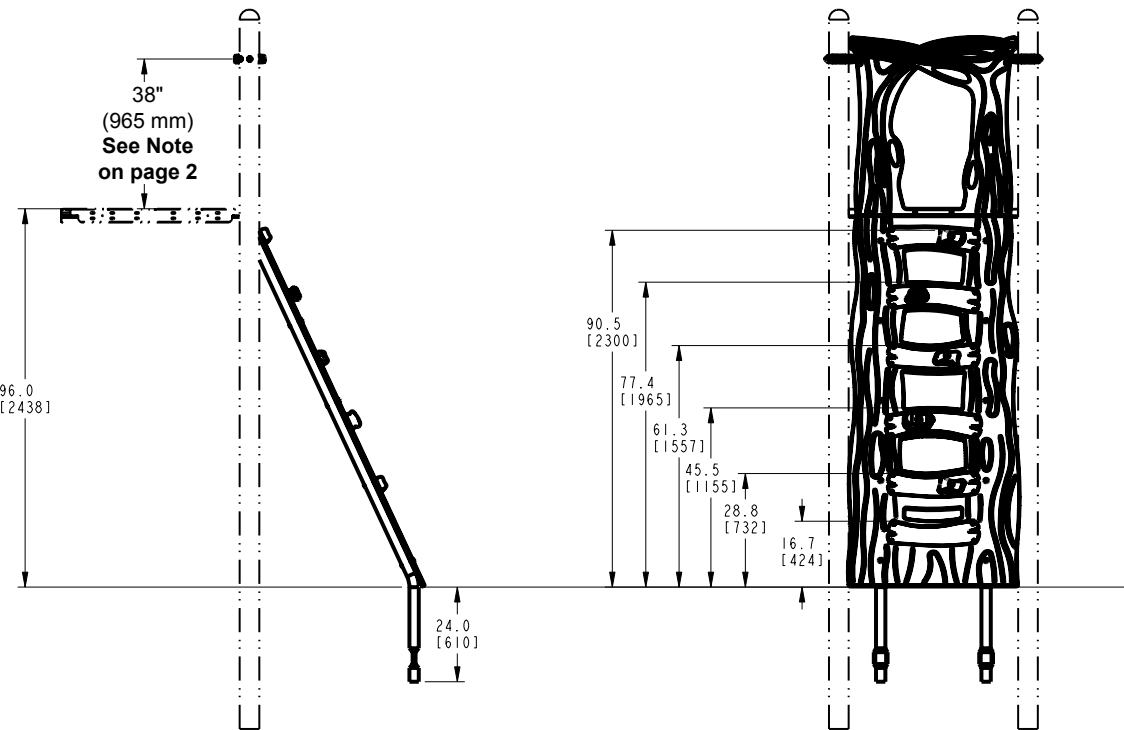
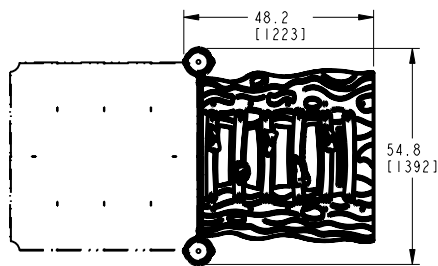
Footing Diagram



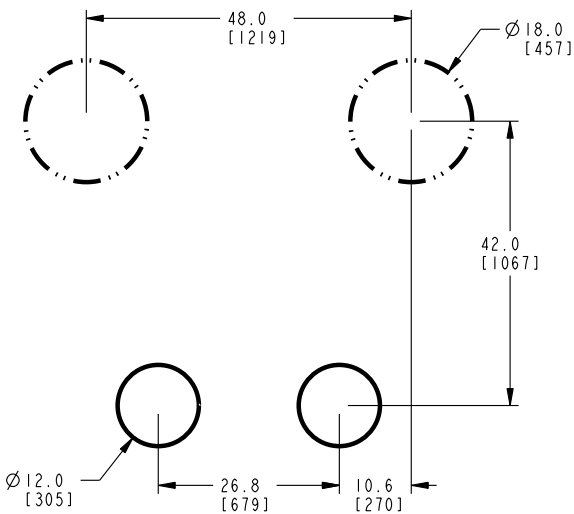
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

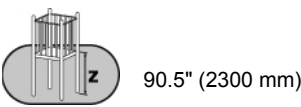
Top View



Elevation Views (PM6820)

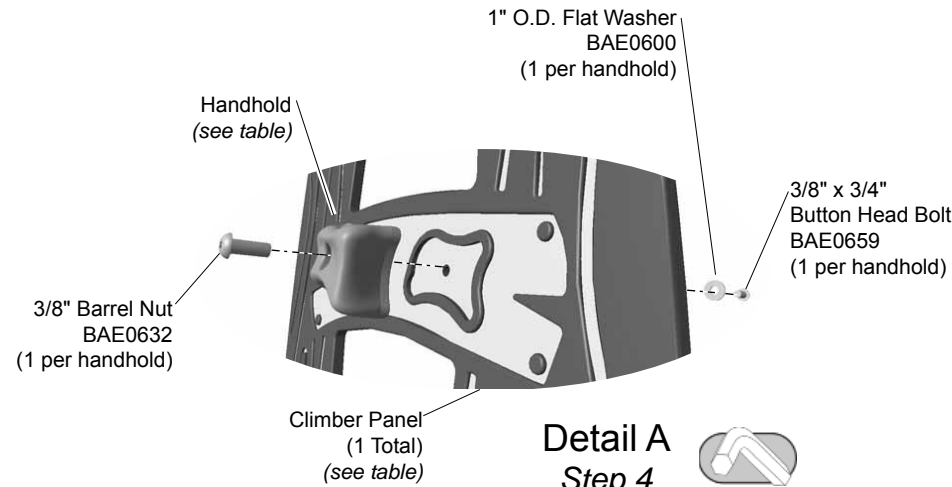


Footing Diagram

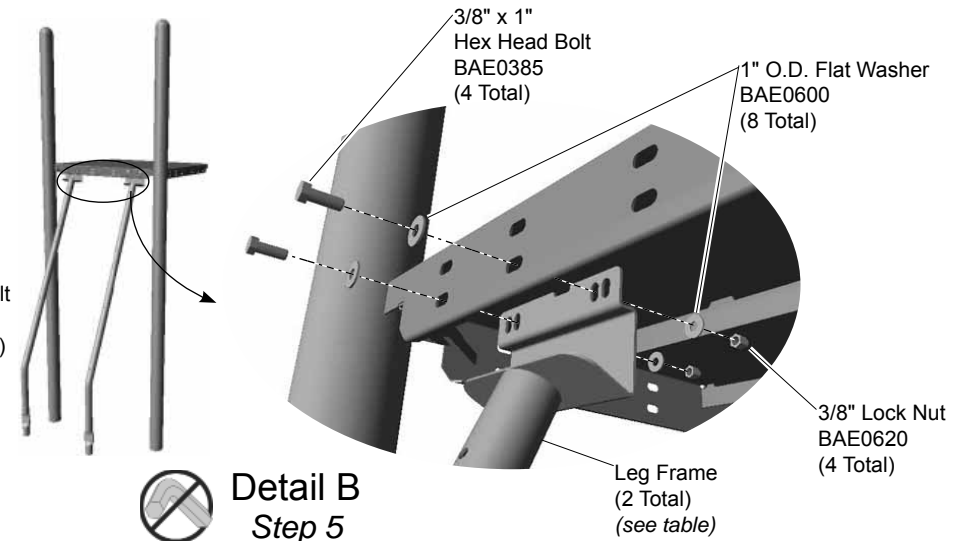
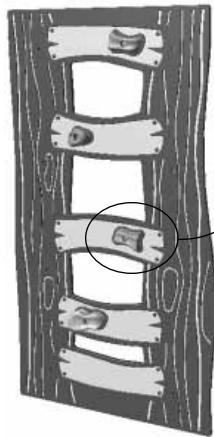


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 10.

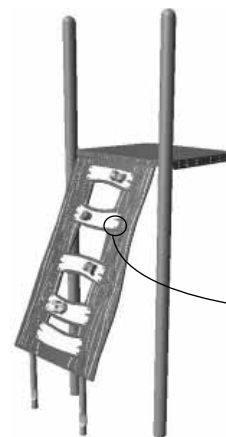


Detail A
Step 4
Attach the handholds to the climber panel.

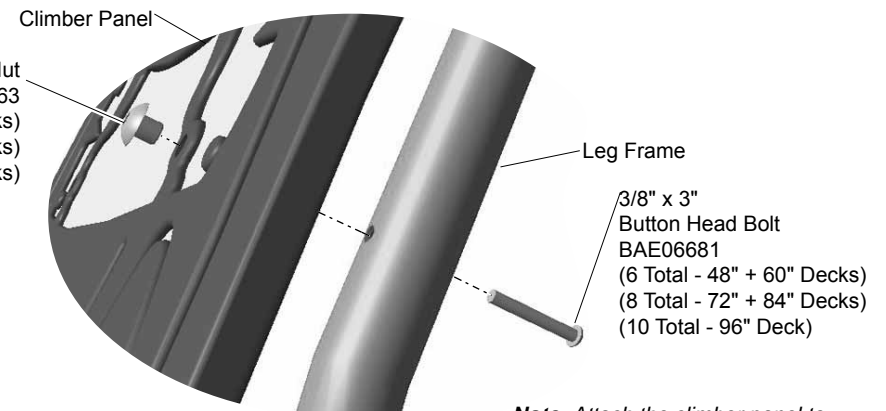


Detail B
Step 5
Attach the leg frames to the deck. Make the connections through the two middle holes in the leg bracket.

	PM6816	PM6817	PM6818	PM6819	PM6820
Leg Frame	AFR0956	AFR0958	AFR0960	AFR0962	AFR0964



3/8" Button Head Nut
BAE0663
(6 Total - 48" + 60" Decks)
(8 Total - 72" + 84" Decks)
(10 Total - 96" Decks)

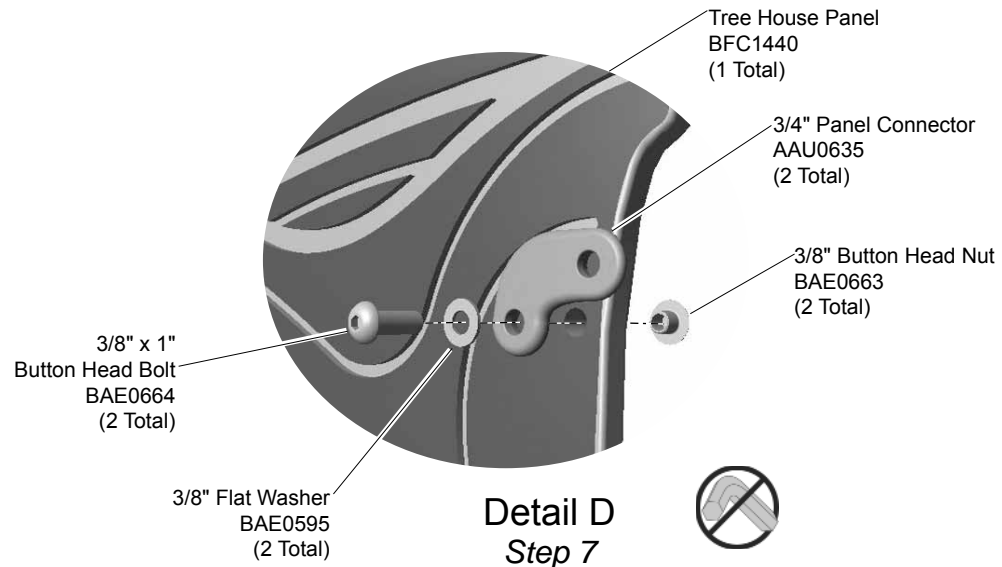


Detail C
Step 6
Attach the climber panel to the leg frames.

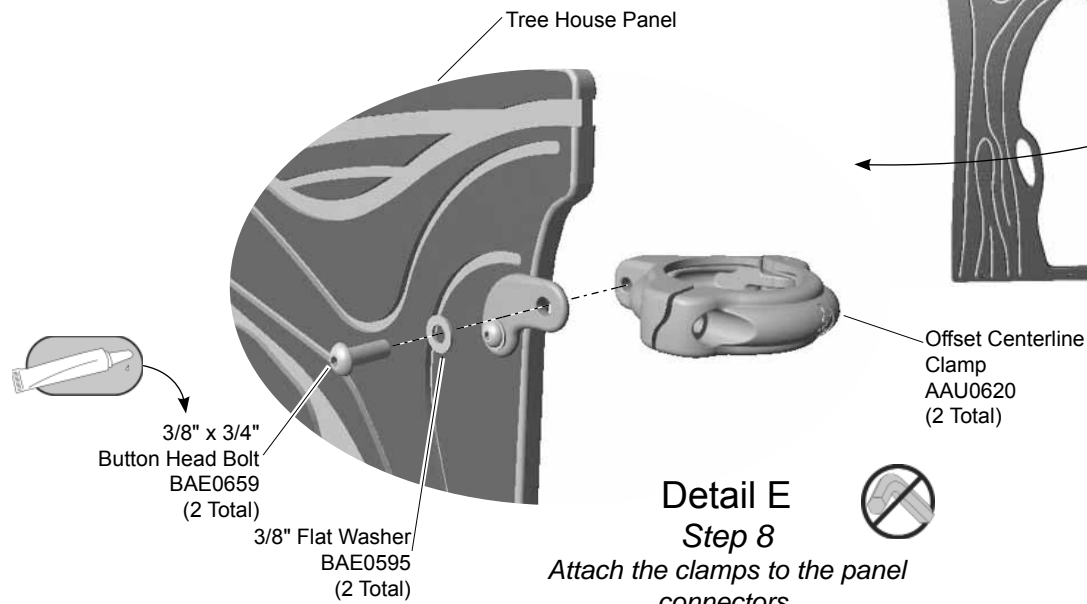
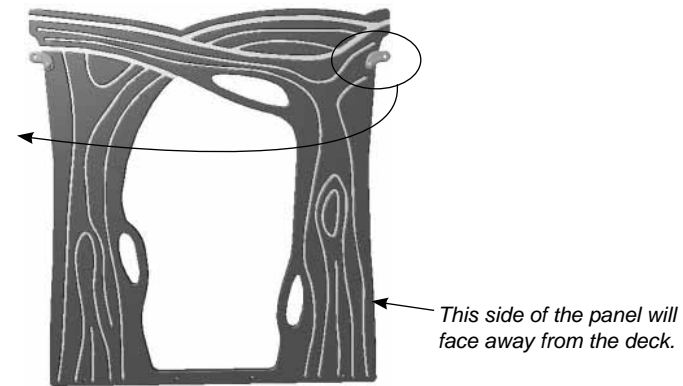
Note: Attach the climber panel to the leg frames starting at the bottom of the legs. Before making the top connection tighten the leg frames to deck connections.

# of Handholds	PM6816	PM6817	PM6818	PM6819	PM6820
Small AAU0067	1	1	1	1	1
Medium AAU0068	2	2	2	2	3
Large AAU0069	0	1	1	1	1
Panel #	BFC1454	BFC1455	BFC1456	BFC1457	BFC1458

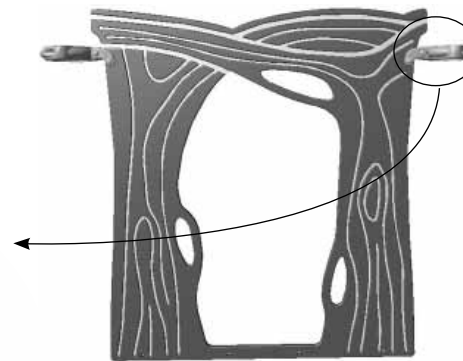
Installation Instructions



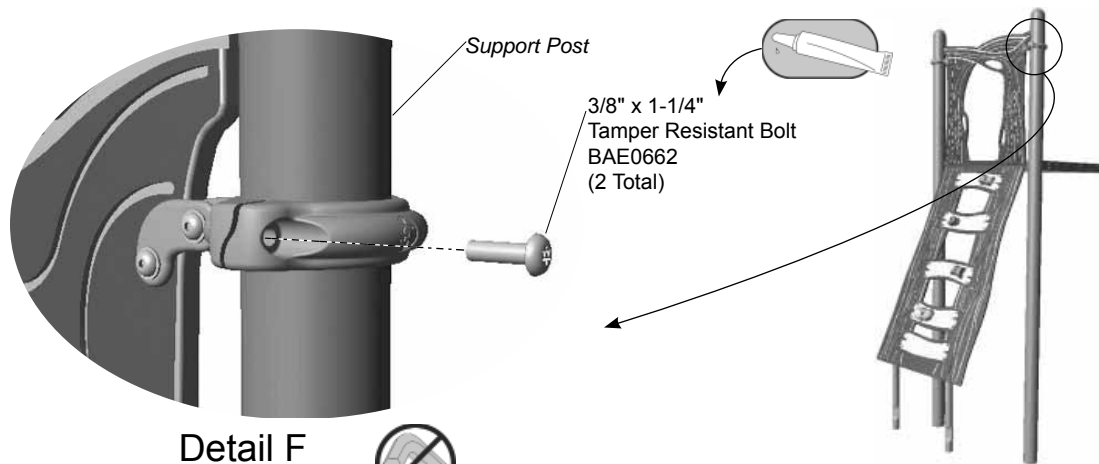
Attach the panel connectors to the tree house panel.



Attach the clamps to the panel connectors.

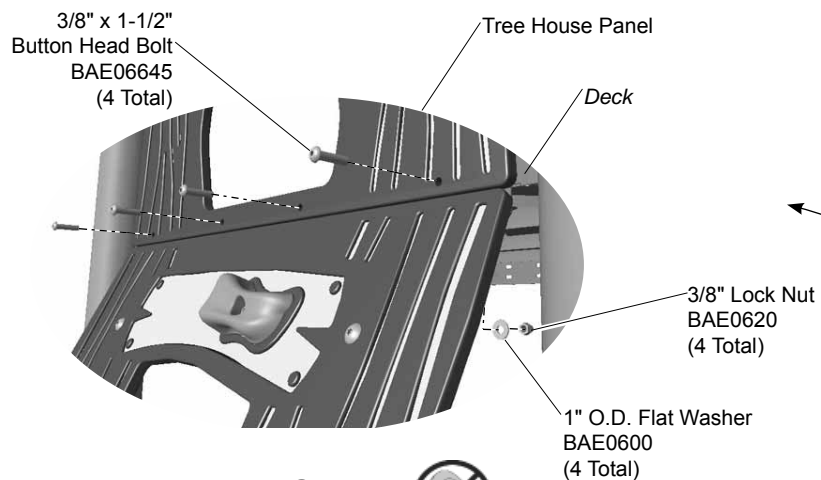


Installation Instructions



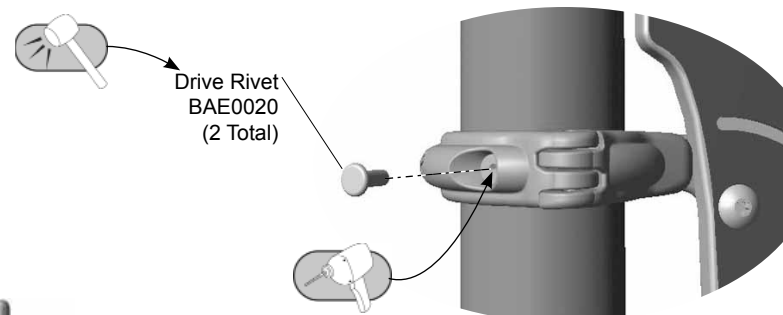
Detail F
Step 9

Attach the tree house panel to the support posts.



Detail G
Step 10

Attach the tree house panel to the deck.



Detail H
Step 12

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** located in the *Playmaker Guidelines*.

Step 4: Attach the handholds to the panel. See **Detail A**. Position each handhold into the corresponding cutout in the panel and attach as shown. Refer to the table on *page 7* for the correct panel and number of handholds. Fully tighten the hardware to pull the handhold into the panel.

Step 5: Attach the leg frames to the deck. See **Detail B**. Place the frame legs in their footings with the mounting bracket under the deck and align the lower holes. Use the slots indicated on each bracket and attach as shown.

Step 6: Attach the panel to the legs. See **Detail C**. Place the panel with the wider part at the bottom and align the side holes with the holes in the legs. Attach as shown.

Step 7: Attach the panel connectors to the panel. See **Detail D**. Position the short leg on each panel connector against a top hole on the routed side of the panel. Align the connectors with the holes and attach as shown. Leave the connections loose.

Step 8: Attach the clamps to the panel connectors. See **Detail E**. Place the flat side of each clamp against the deck side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave the connections loose for alignment adjustment.

Step 9: Attach the panel to support posts. See **Detail G** and **Elevation View**. Position the panel between the support posts and close the clamps around the support post at the height indicated. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel. Both clamps should be mounted at the same height.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Step 10: Attach the panel to the deck. See **Detail G**. Align the holes in the panel with the upper holes in the deck and attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and Nuts: Snug tighten and then tighten an additional one half turn.

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM6816 - 48" (1219 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	2
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0956	FRAME - 2.38" O.D. x 70.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	15
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	3
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	5
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1454	SHEET - 48" TREE HOUSE CLIMBER (PM)	1

PM6817 - 60" (1524 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0958	FRAME - 2.38" O.D. x 82.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1455	SHEET - 60" TREE HOUSE CLIMBER (PM)	1

PM6818 - 72" (1829 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0960	FRAME - 2.38" O.D. x 94.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1456	SHEET - 72" TREE HOUSE CLIMBER (PM)	1

PM6819 - 84" (2134 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0962	FRAME - 2.38" O.D. x 106.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1457	SHEET - 84" TREE HOUSE CLIMBER (PM)	1

PM6820 - 96" (2438 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0964	FRAME - 2.38" O.D. x 118.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	5
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	7
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	10
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1458	SHEET - 96" TREE HOUSE CLIMBER (PM)	1

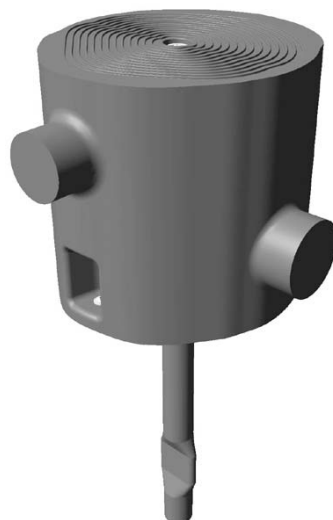


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ZZUN8396



ZZUN8428

Assembly View

Models	Stump Height
ZZUN8396	12 in. (305 mm)
ZZUN8428	16 in. (405 mm)

Installation Instructions

Universal

Models UN8396 & UN8428

Adventure Log Hop

12 in. (305 mm) & 16 in. (405 mm)

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1 hour
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 12 in. - ASTM/CSA: 2-12, EN: 2-14
 16 in. - ASTM/CSA: 2-12, EN: 2-14

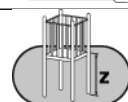
ICON KEY



Fully Tighten
Hardware



Dig Footing Holes

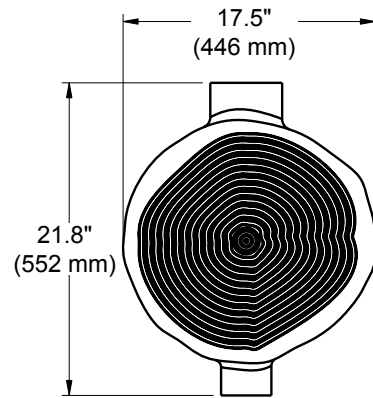


Critical Fall Height

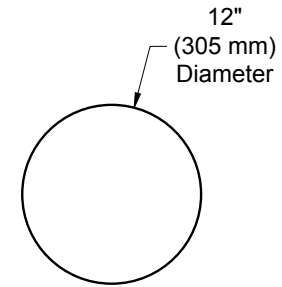


Pour Concrete

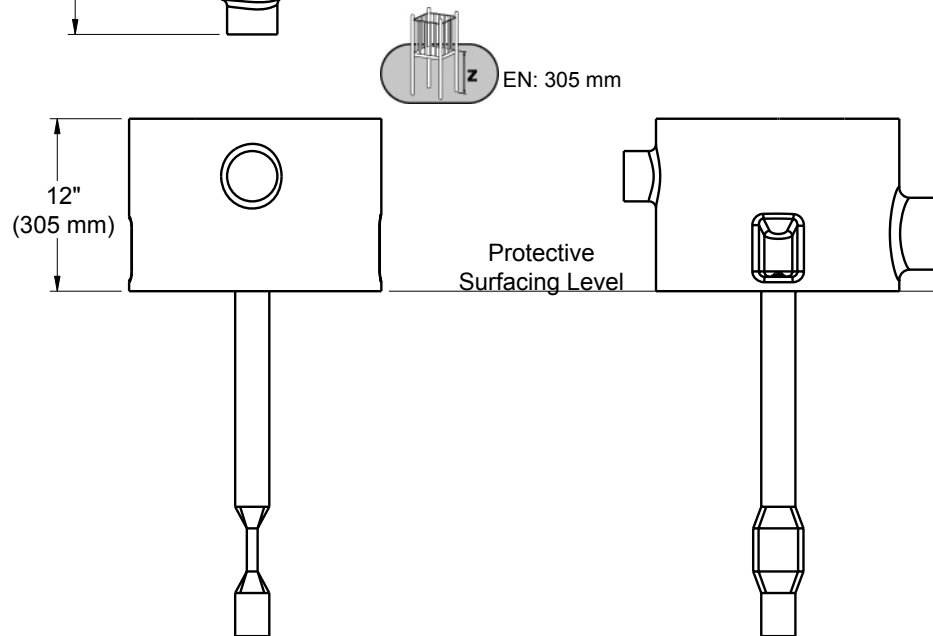
Installation Instructions



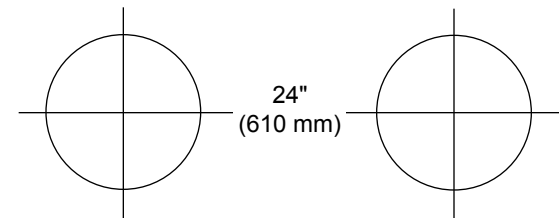
Top View



Footing Diagram
(Both Models)

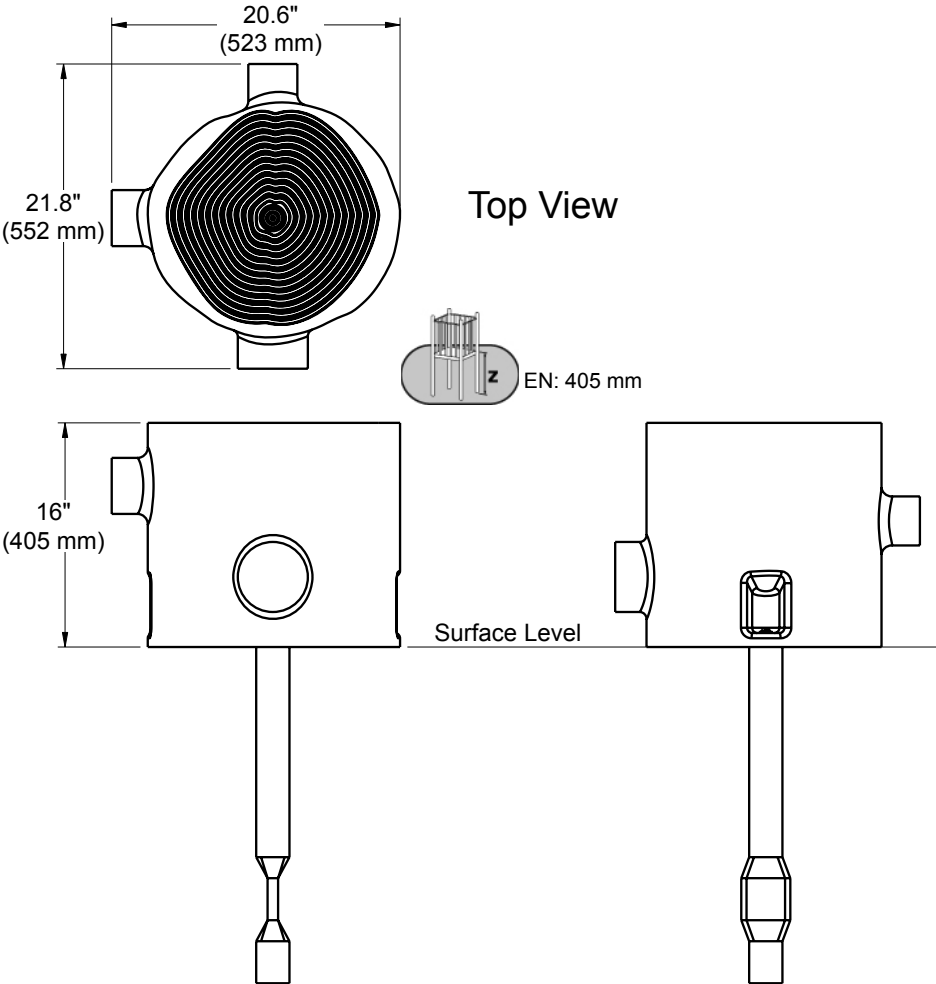


Elevation Views
ZZUN8396



*For multiple stump placement, be
sure to maintain 24" (610 mm) centers
between the anchor frames*

Installation Instructions



Elevation Views
ZZUN8428

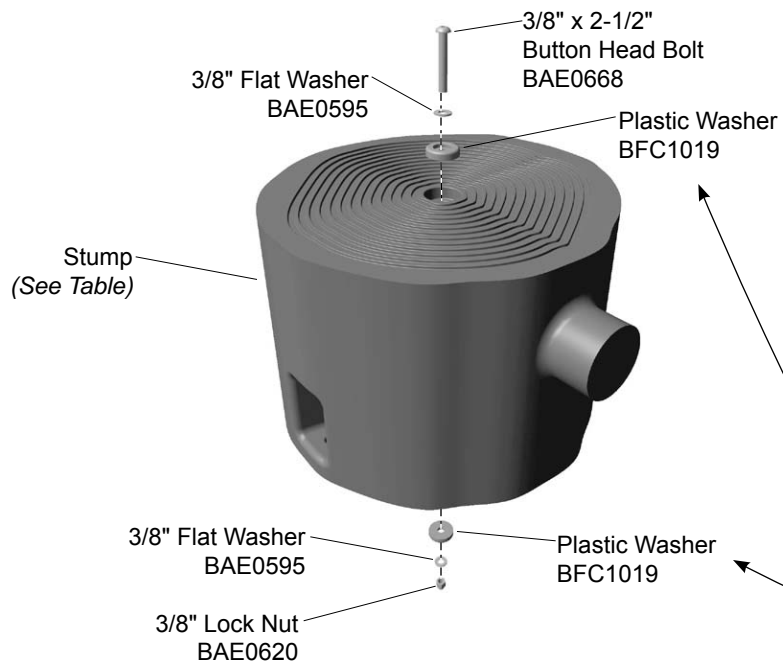


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Step 3



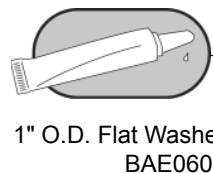
**Detail A
Step 4**



Flat washer will fit into the routed out portion of the plastic washer.

Stump
(See Table)

3/8" x 1"
Button Head Bolt
BAE0664



1" O.D. Flat Washer
BAE0600

**Detail B
Step 5**

Anchor Frame
AFR0571



Step 6

Models	Stump Height	Stump Part No.
ZZUN8396	12 in. (305 mm)	BPL0646
ZZUN8428	16 in. (405 mm)	BPL0644

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware. Reference the master layout drawing for exact placement of the component.

__Step 3: Excavate footings as shown in the **Component Footing Details**.

__Step 4: Attach the plastic washers to the stump. See **Detail A**. Select the stump, both plastic washers, and the appropriate hardware. Turn the plastic washers so the flat side faces the stump and attach as shown. Fully tighten the connection.

__Step 5: Attach the stump to the anchor frame. See **Detail B**. Select the stump assembly, and the appropriate hardware. There are (2) two connections. Position the stump on the frame with the holes aligned and attach as shown.

Final Details.

__Step 6: Place the stump assembly in the footing and plumb and level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

UN8396 - ADVENTURE LOG HOP - 12 in. (305 mm)

PART NO.	DESCRIPTION	QTY.
AFR0571	FRAME - 15-3/4" x 11" x 24-3/8"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	1
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1
BFC1019	SHEET - 1.56" O.D. x .38" THICK	2
BPL0646	STUMP - 12"	1

UN8428 - ADVENTURE LOG HOP - 16 in. (405 mm)

PART NO.	DESCRIPTION	QTY.
AFR0571	FRAME - 15-3/4" x 11" x 24-3/8"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	2
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	1
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	1
BFC1019	SHEET - 1.56" O.D. x .38" THICK	2
BPL0644	STUMP - 16"	1



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Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Universal

Models UN8396 & UN8428

Adventure Log Hop

12 in. (305 mm) & 16 in. (405 mm)



ZZUN8396



ZZUN8428

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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

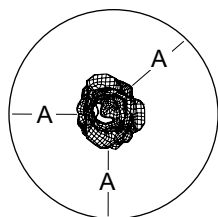
Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View (representative model)



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 1948 mm

RockBlocks™

Installation Instructions




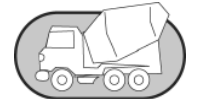
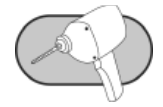


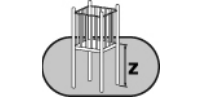
Universal Models UN8246 and UN8246S

RockBlocks Stalagmite Climber
for 2 ft. (610 mm), 3 ft. (914 mm) and
4 ft. (1219 mm) Decks
In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (in-ground): 1.75 man-hours
Installation Time (surface mount): 0.25 man-hour
Concrete Required: 0.09 cubic yard (0,06 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

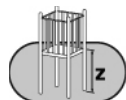
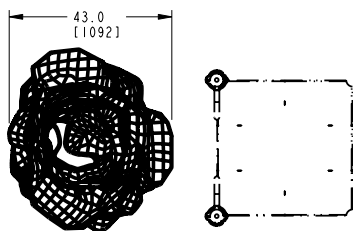
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

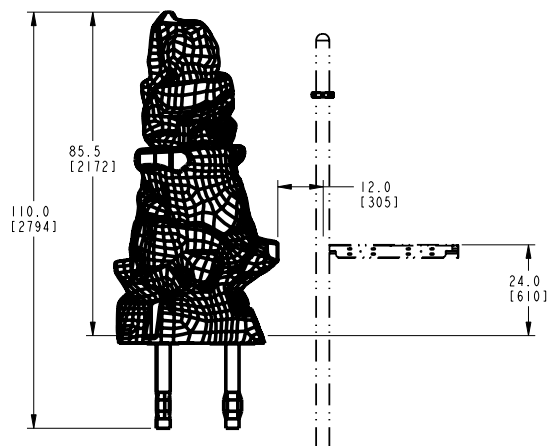
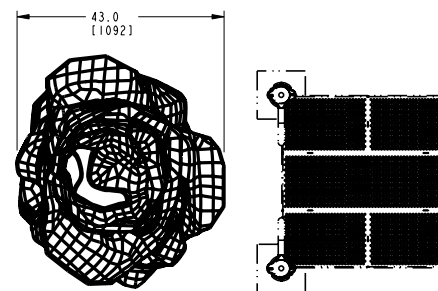
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

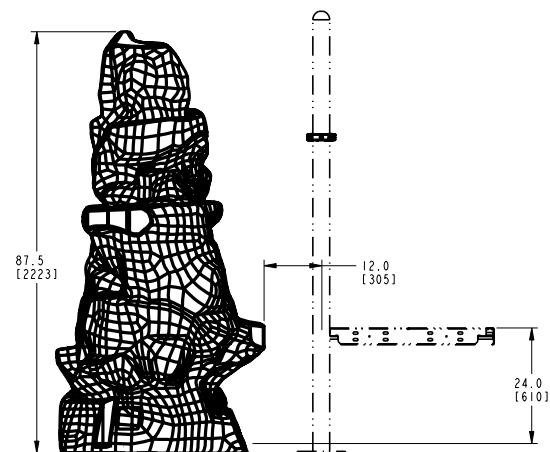
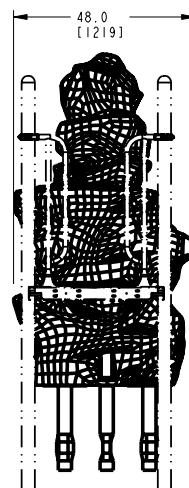


85.5" (2172 mm)

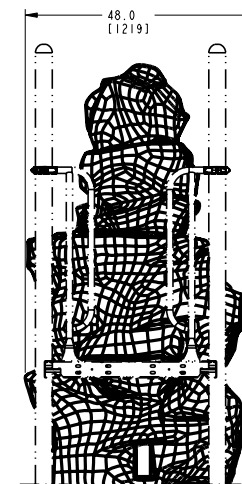
Top View



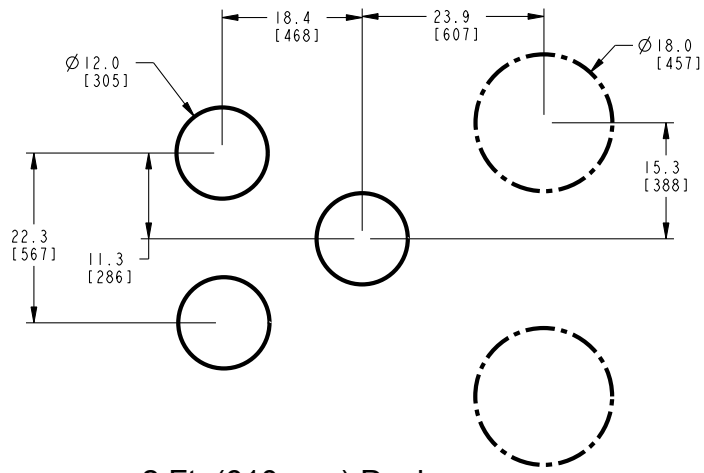
Elevation Views
UN8246



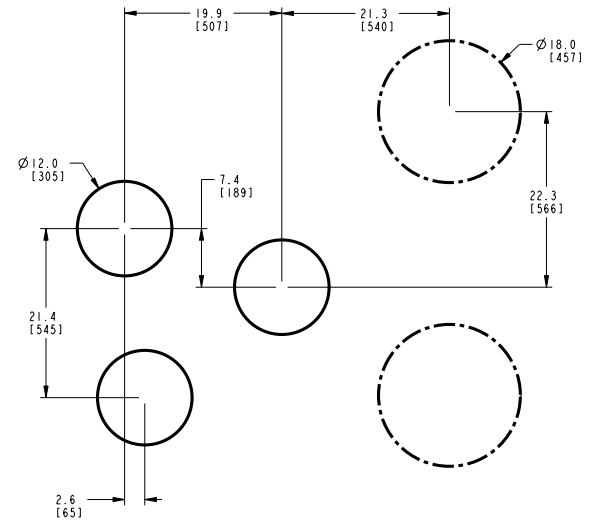
Elevation Views
UN8246S



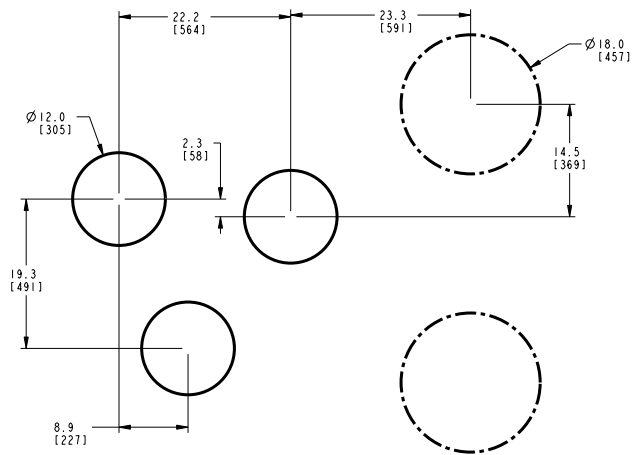
Installation Instructions



2 Ft. (610 mm) Deck



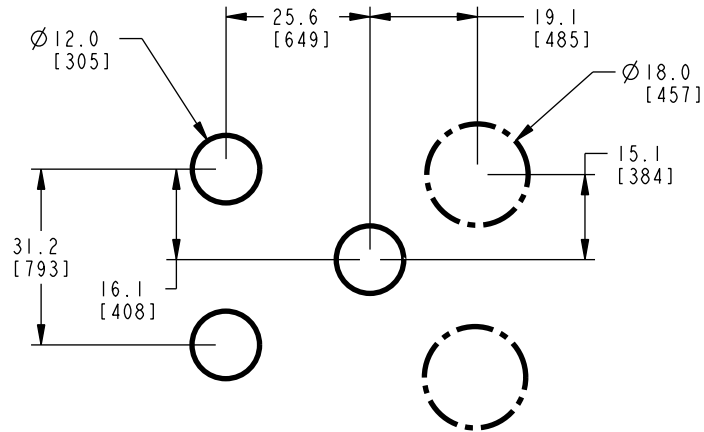
4 Ft. (1219 mm) Deck



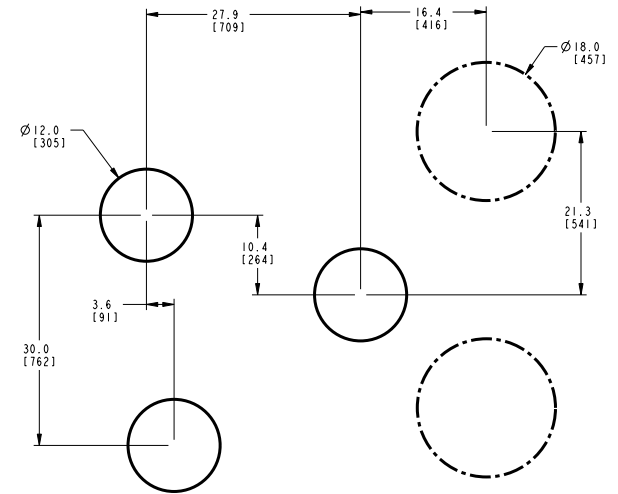
3 Ft. (914 mm) Deck

Footing Diagrams (In-Ground Model)

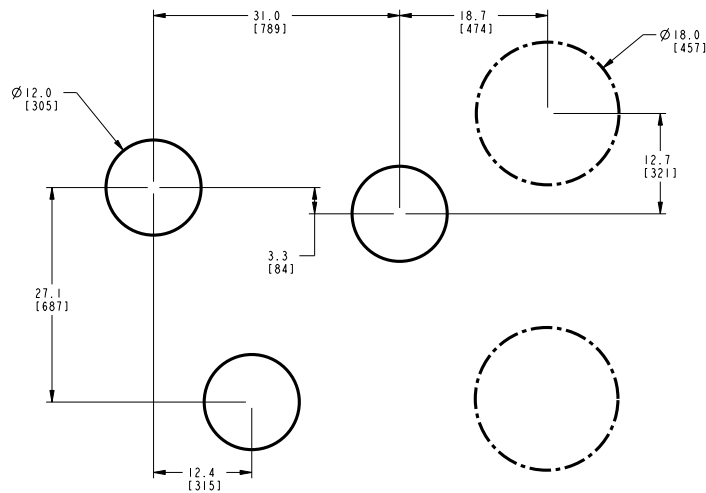
Installation Instructions



2 Ft. (610 mm) Deck



4 Ft. (1219 mm) Deck



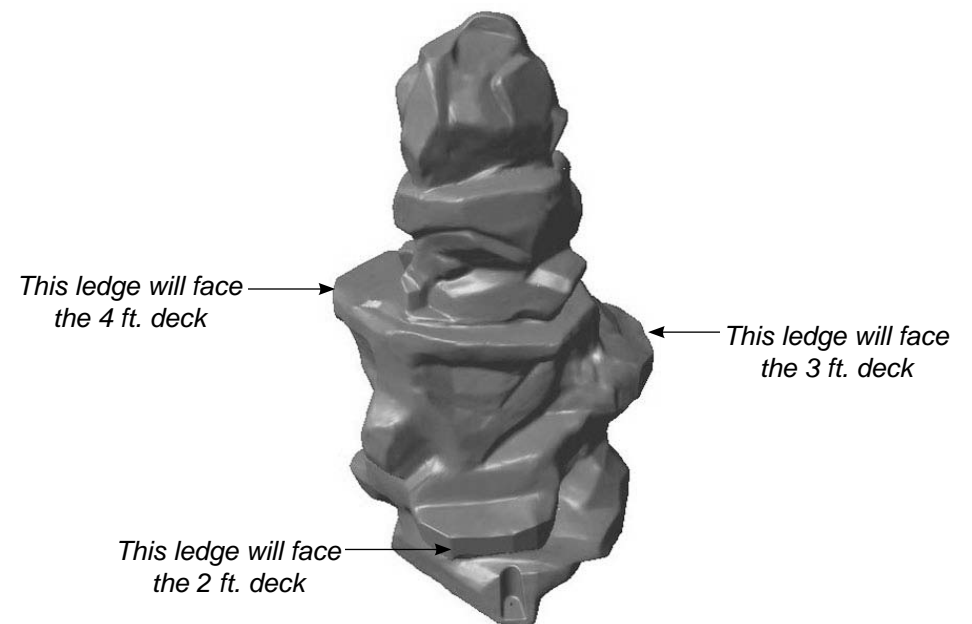
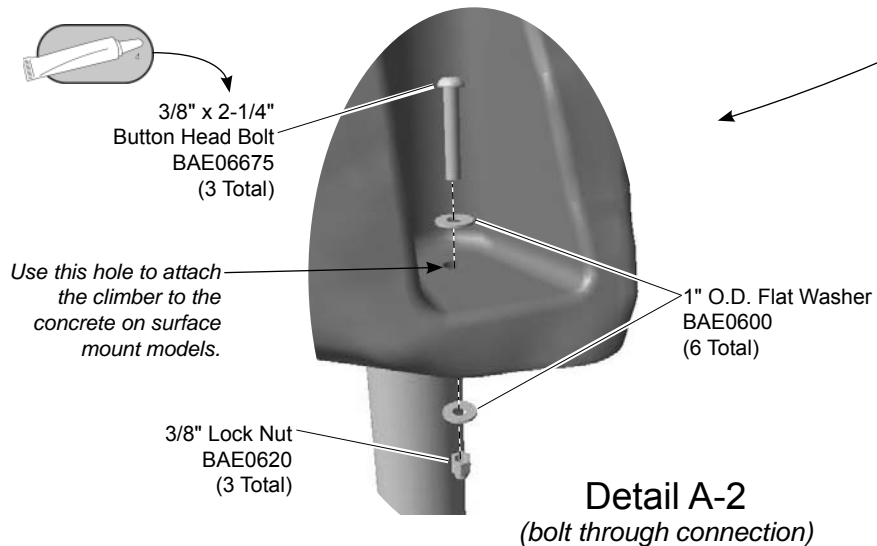
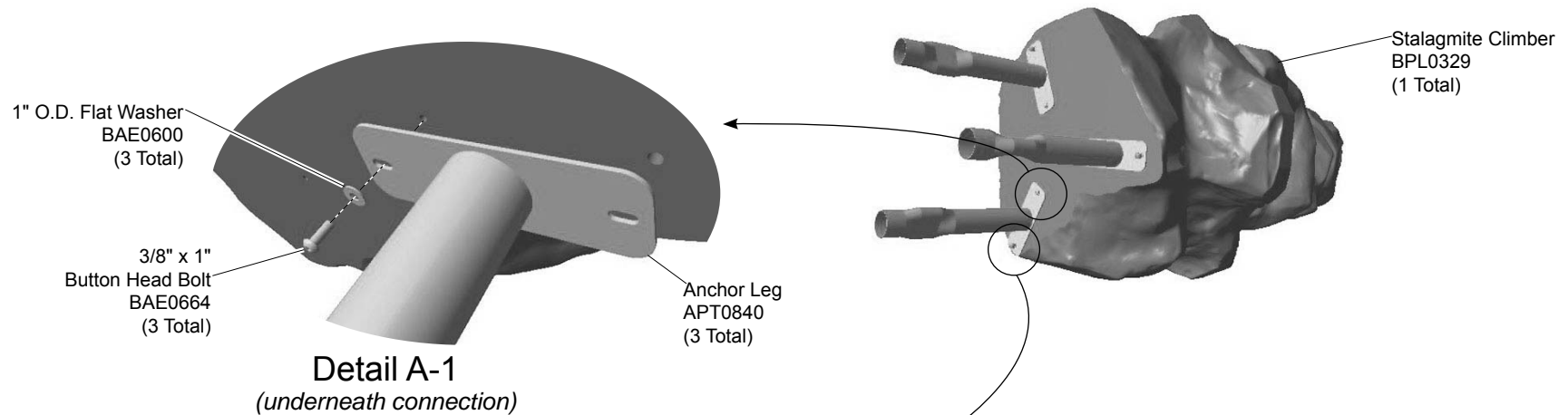
3 Ft. (914 mm) Deck

Footing Diagrams
(Surface Mount Model)

Note: Footings are wider than in ground models due to only the outside hole in the Stalagmite being used for mounting to the concrete.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Details A-1 and A-2

Step 4

Attach the anchor legs to the climber
(in-ground model only).



Stalagmite Climber Deck
Placement Reference

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Footing Details** in the Annex at the end of this document. Use the **Component Footing Detail** for the in-ground model. Reference the appropriate **Footing Diagram** for placement of the footings in conjunction with a deck.

Step 4: Attach the anchor legs to the climber (in-ground model only). See **Details A-1 and A-2**. Position the legs beneath the climber and attach as shown. Apply a drop of thread locking adhesive to the bolt threads for the underneath connections. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Final Details.

Step 5: Plumb and level the climber in, or on, it's footings. Ensure the climber is turned in the right direction for the height of the deck. See the **Stalagmite Climber Deck Placement Reference**.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 6: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

UN8246 - ROCKBLOCKS STALAGMITE CLIMBER

PART NO.	DESCRIPTION	QTY.
APT0840	POST - 22.50" x 12.00" x 4.00"	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	3
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	3
BPL0329	ROCK BLOCKS - STALAGMITE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

UN8246S - ROCKBLOCKS STALAGMITE CLIMBER SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
BPL0329	ROCK BLOCKS - STALAGMITE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Universal

Models UN8246 and UN8246S
RockBlocks Stalagmite Climber
for 2 ft. (610 mm), 3 ft. (914 mm) and
4 ft. (1219 mm) Decks
In-Ground and Surface Mount



RockBlocks™

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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ***... for Safety's Sake!***

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

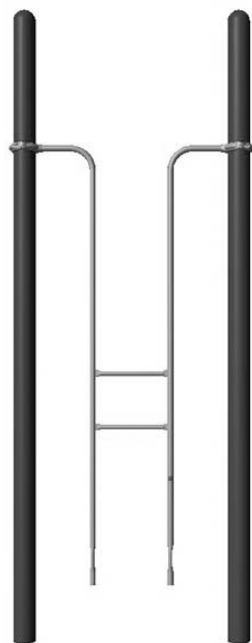
Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Assembly View (representative model)

Model	Deck Height
ZZPM5950	12" (305 mm)
ZZPM5960	24" (610 mm)
ZZPM5970	36" (915 mm)

Installation Instructions


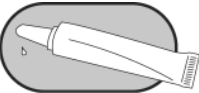

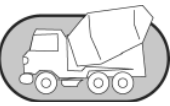
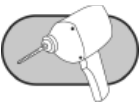


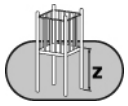
Playmakers® Models PM5950,
PM5960, and PM5970

1, 2, and 3 Rung Overhead Event Access Ladder
12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

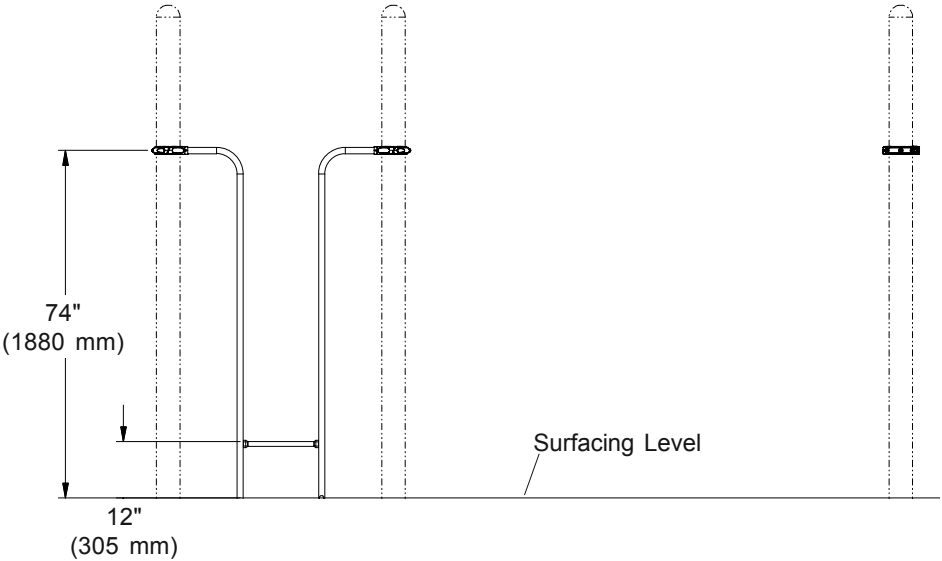
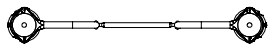
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1.5 hours
 Concrete Required: 0.06 cubic yard (0.04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY

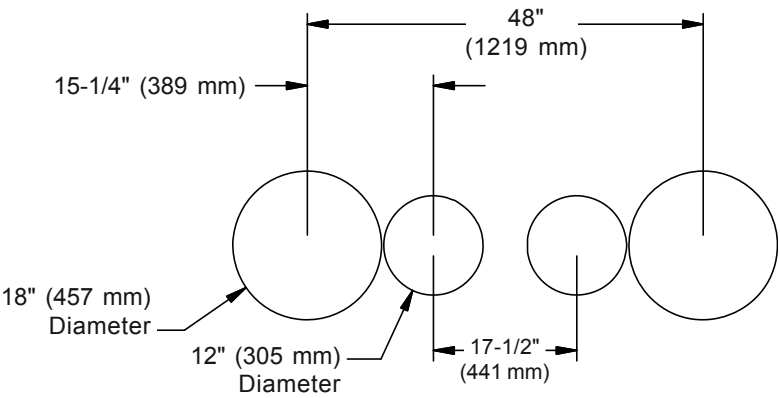
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

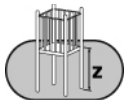


Elevation View

Elevation Views
PM5950



Footing Diagram
All Models



12" (305 mm)

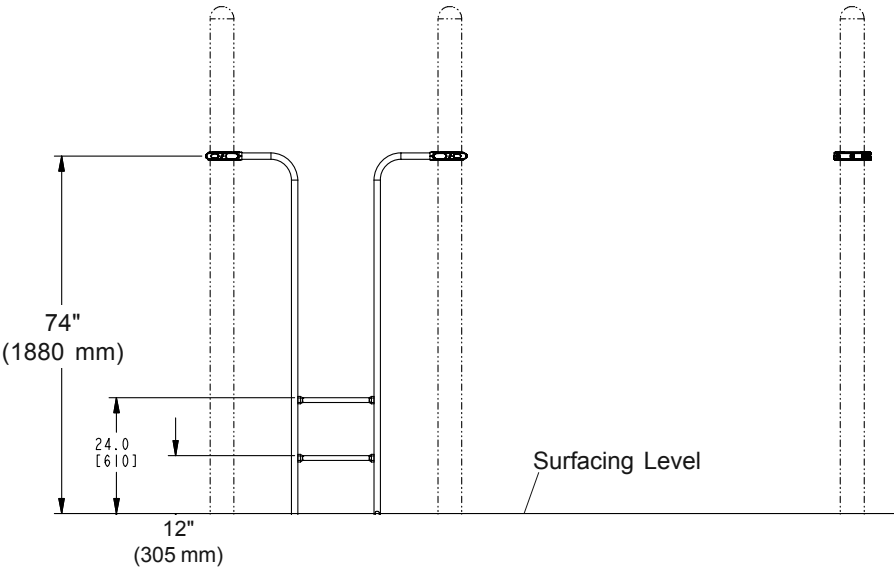
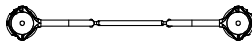


Installation Instructions

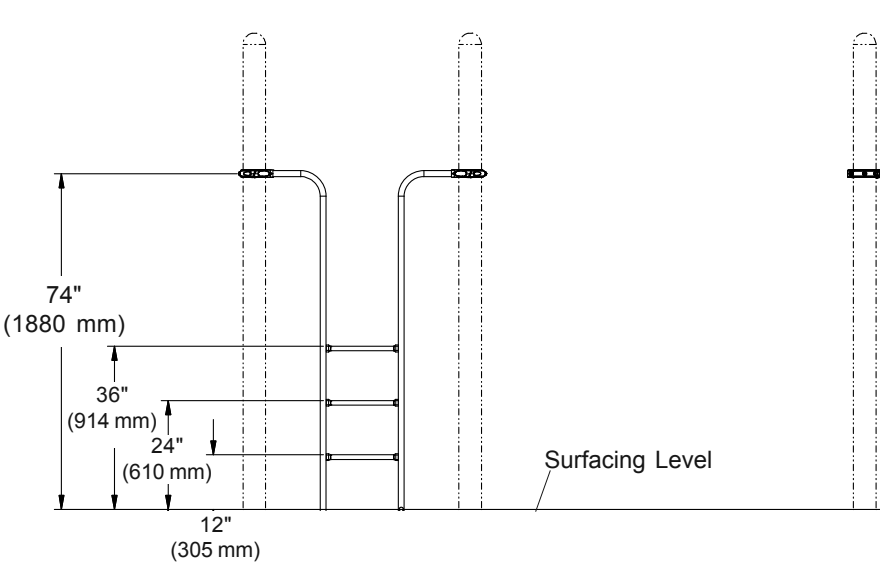
Top View



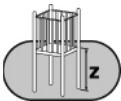
Top View



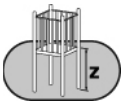
Elevation Views
PM5960



Elevation Views
PM5970



24" (610 mm)

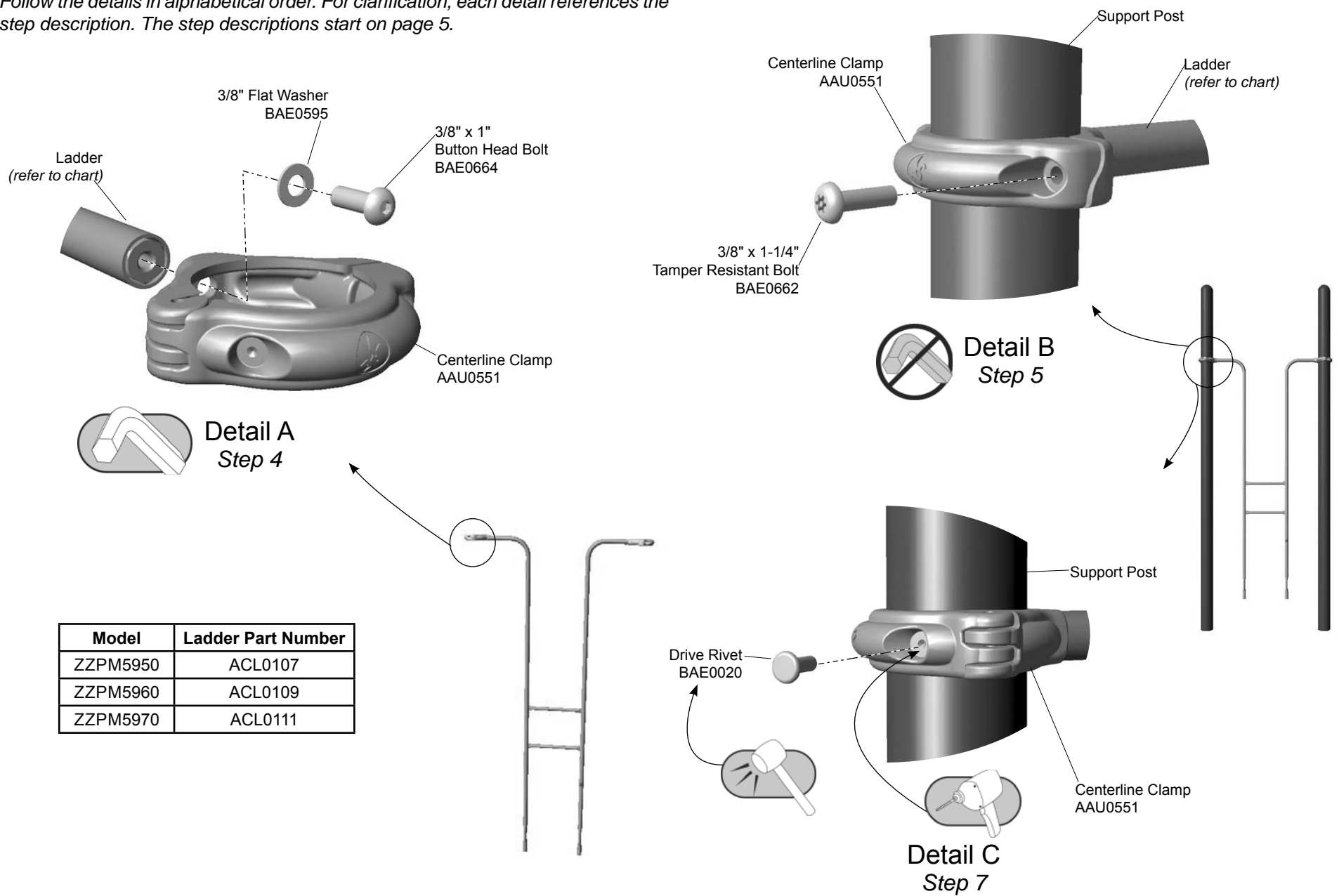


36" (914 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines*.

Attach the clamps to the access ladder.

Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.

Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.

Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2





Attention: Owner

The Overhead Components are designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Overhead Component can result in serious accidents. The following rules for the use of the component must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. The components are designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of the users.
- Do not crawl on, sit on, stand on or jump off the top of the assembly.
- Users must move in same direction across the length of the top of the component assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.
- Avoid speed contests or trying to cover too large a distance in one move.

SUPERVISION INSTRUCTIONS

PLAYWORLD SYSTEMS® OVERHEAD COMPONENTS (SEE COMPONENT LISTING BELOW)

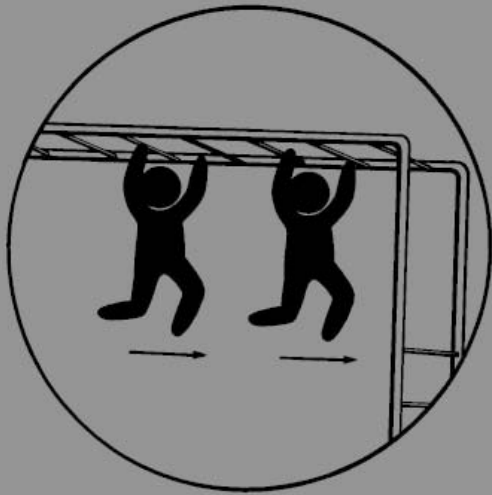
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Overhead Component in accordance with ASTM specification F1292 appropriate for the fall height of the Overhead Component .
- Review and familiarize warning document supplied with each Overhead Component shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

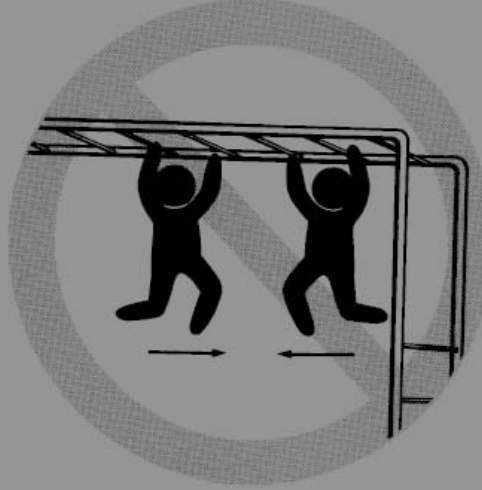
Overhead Components include:

- Horizontal Ladders
- Horizontal Hand Over Hand Ladders
- Horizontal Loop Rung Ladders
- Under Catwalk Hand Over Hand
- Under Catwalk Loop Rung Ladder
- Sky Link
- Sky Arch

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Use When Hand Rungs Are Wet



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

Overhead Component shown is for example only. May not be the component ordered.



Assembly View

Installation Instructions

Playmakers® Model PM6966




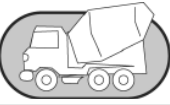
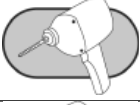

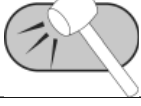
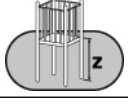
120 in. (3048 mm)

Roundabout Horizontal Ladder

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

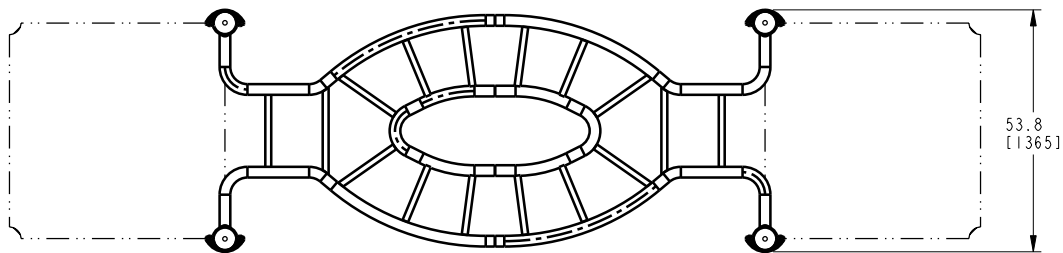
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

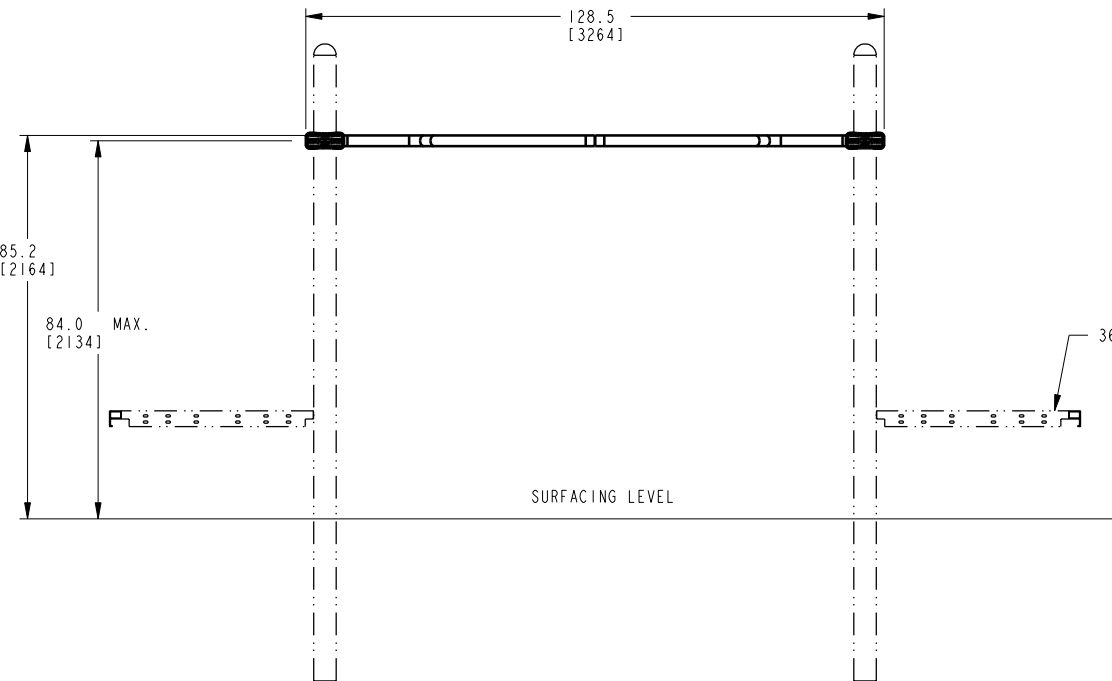
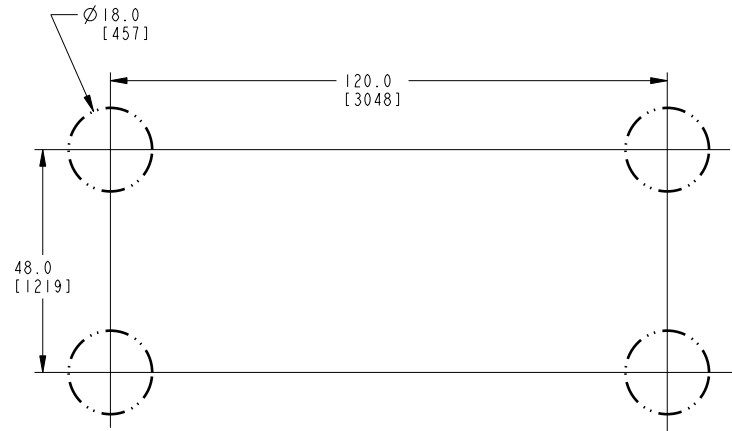
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

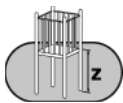
Top View



Footing Diagram



Elevation View

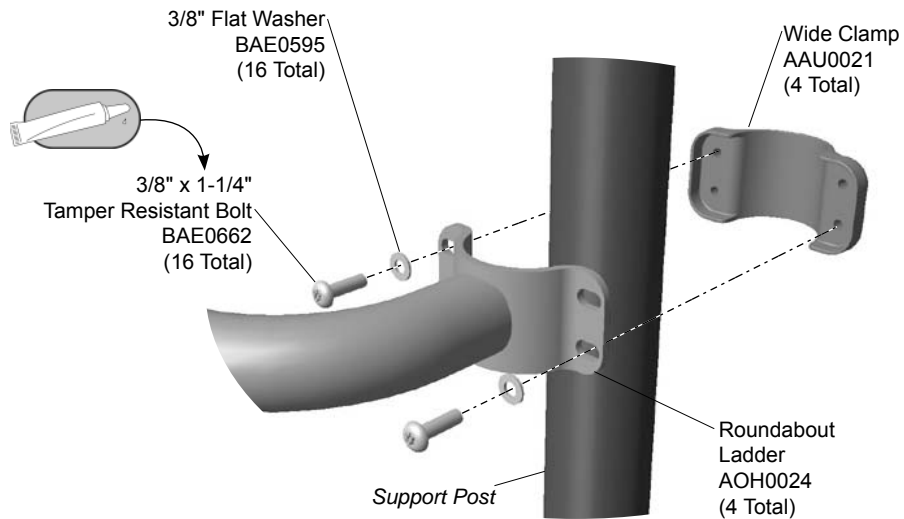


84" (2134 mm)

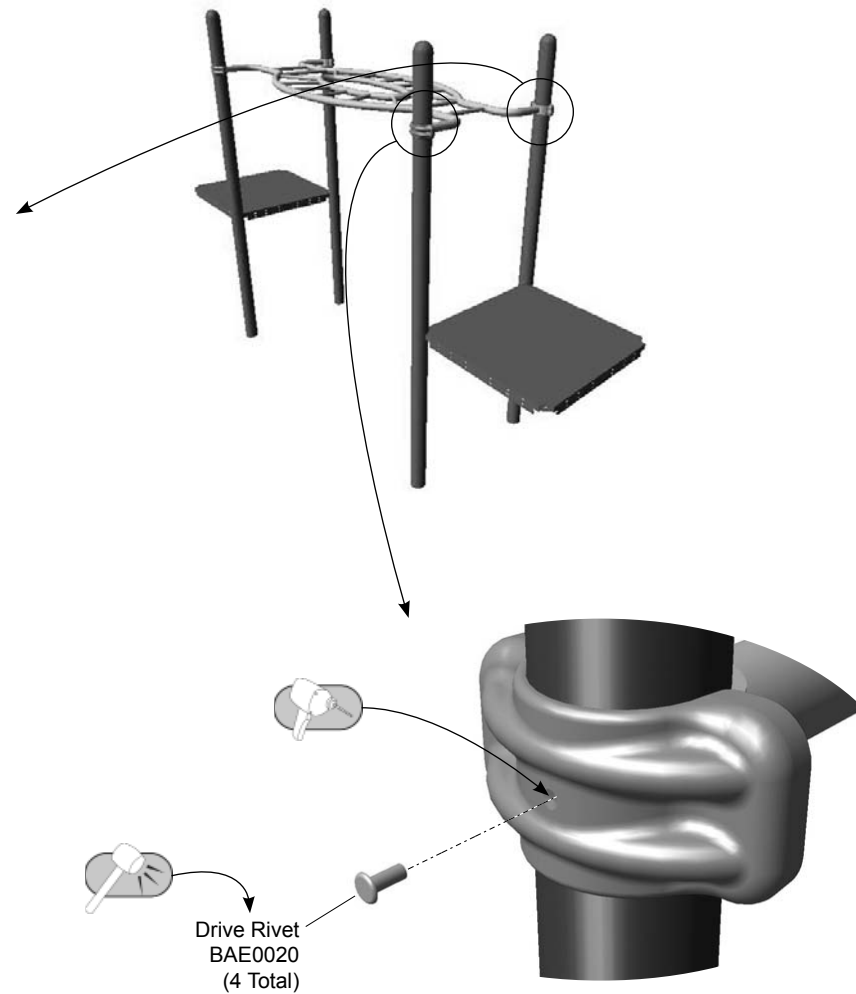


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Detail A
Step 4 
Attach the ladder to the support posts.



Detail B
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the component by referring to the master plan view.

Step 4: Attach the ladder to the support posts. See **Detail A** and **Elevation View**. Position the ladder between the support posts at the approximate height. Place each clamp around the post and against the ends of the ladder. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Start all bolts before tightening any.

Step 5: Adjust height of the assembly. See **Elevation View**. Adjust the height of the top rail so that the center of the clamp band is 84 in. (2134 mm) above the level of protective surfacing. Tighten the bolts *evenly* so that any gap is covered by the clamp casting.

Final Details.

Step 6: Plumb and level the entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

Step 7: Install the drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp band to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp band and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 8: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM6966 - 120 in. (3048 mm) ROUNDABOUT HORIZONTAL LADDER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	4
AOH0024	ROUNDABOUT LADDER - PM	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRIVE	16
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Assembly View

Installation Instructions

Playmakers®




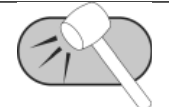

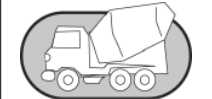

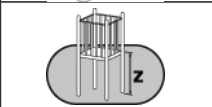
Model PM9846

Cabana Roof

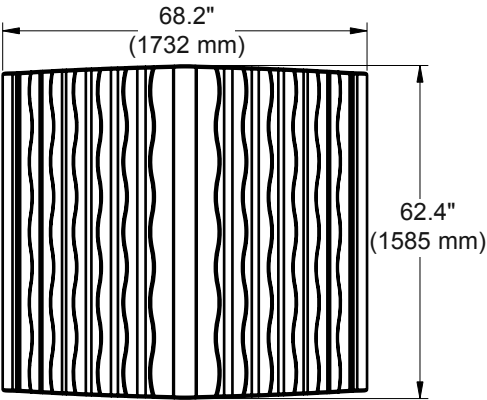
Installation Preparation

Recommended Crew: Two (2) adults

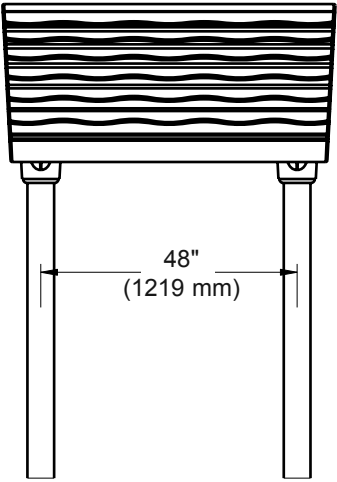
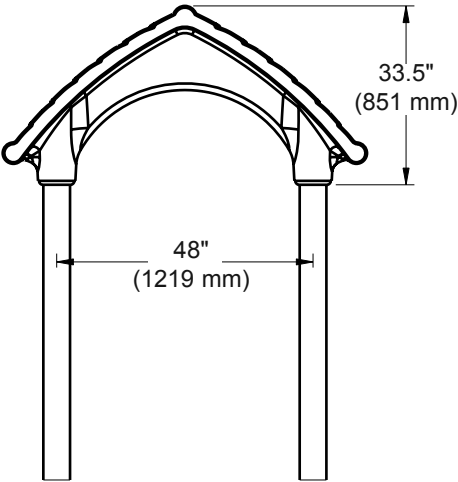
Installation Time: 1 man-hour

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions



Top View



Elevation Views
ZZPM9846

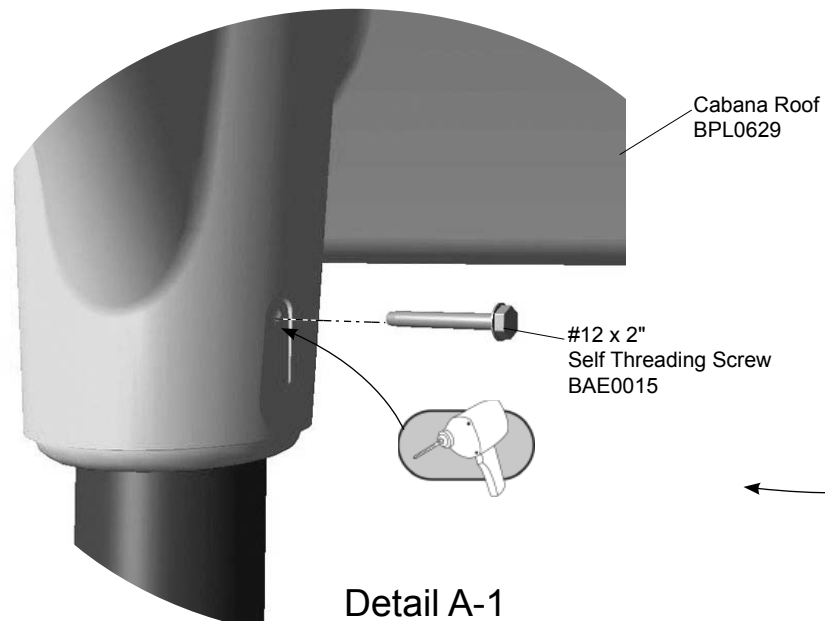


Installation Instructions

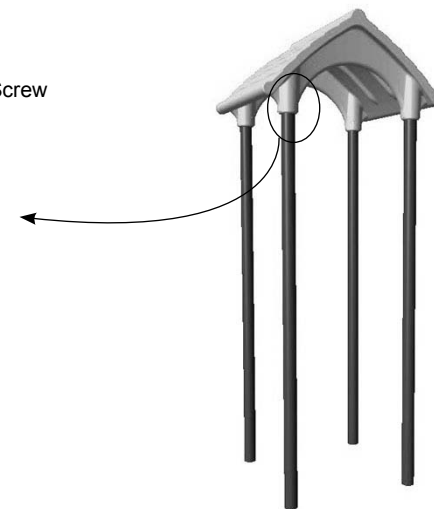
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1
Step 3



Detail A-1
Step 3



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1





Assembly View (representative model)

Installation Instructions


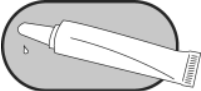

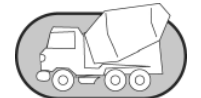
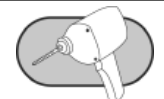

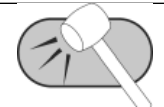
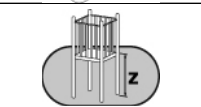
Playmakers®

Models PM9168, PM9170 and PM9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and
36" (914 mm) Rise Height

Installation Preparation

Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

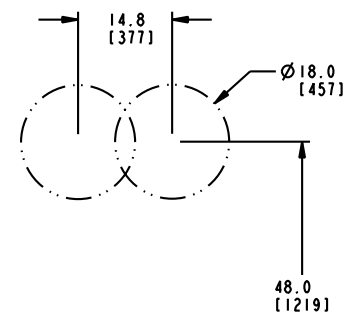
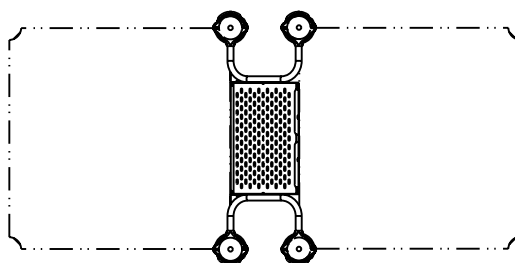
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

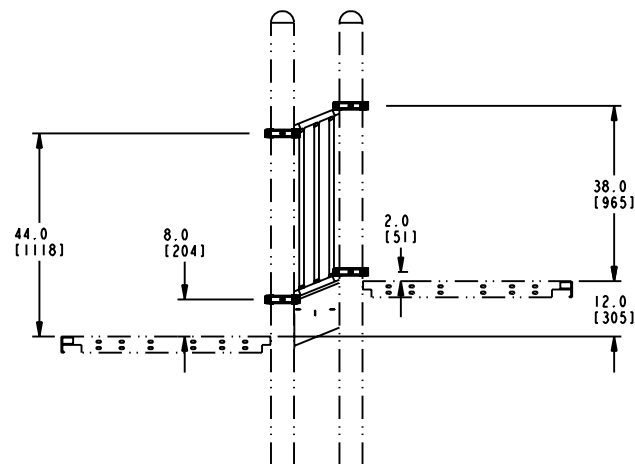
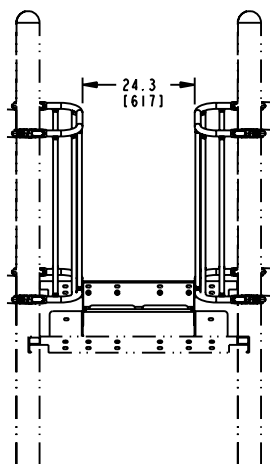
KEY

Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

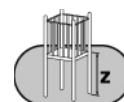
Top View



Footing Diagram



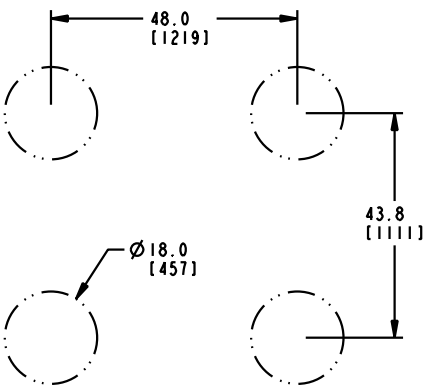
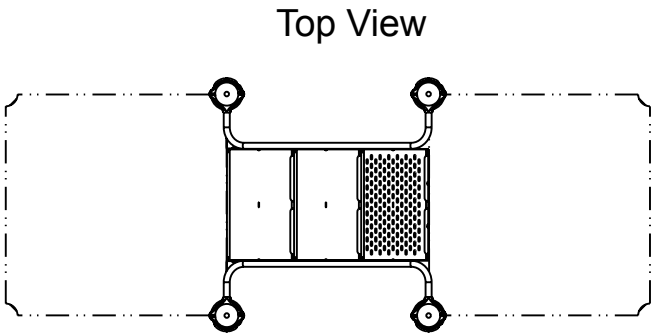
Elevation Views
PM9168



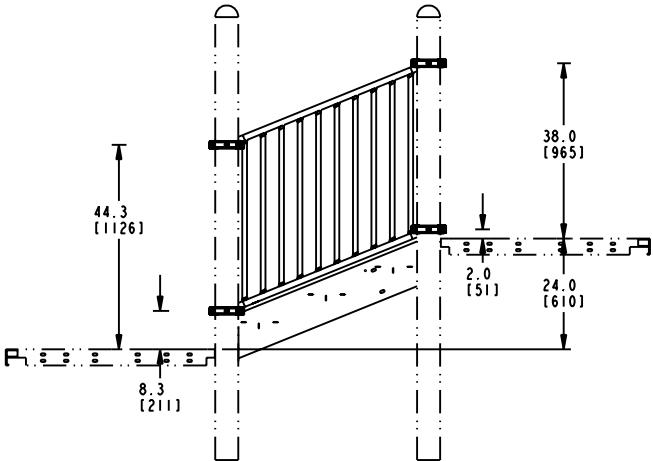
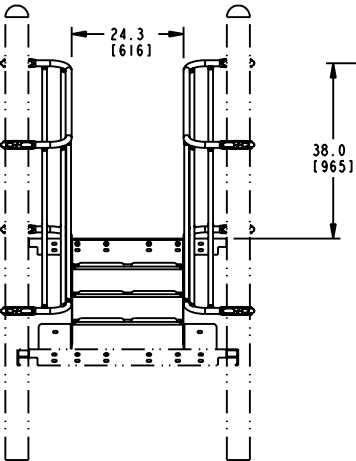
Height of the upper deck
minus 6" (152 mm)

Installation Instructions

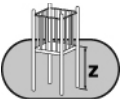
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation Views
PM9170



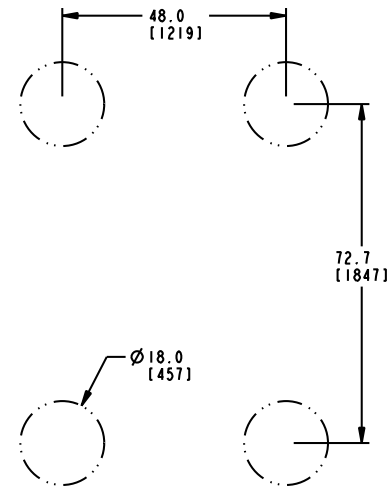
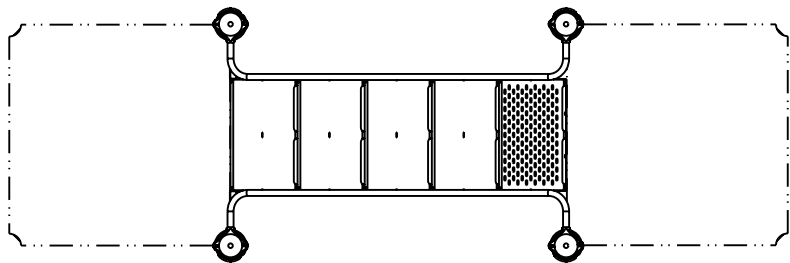
Height of the upper deck
minus 6" (152 mm)



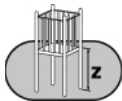
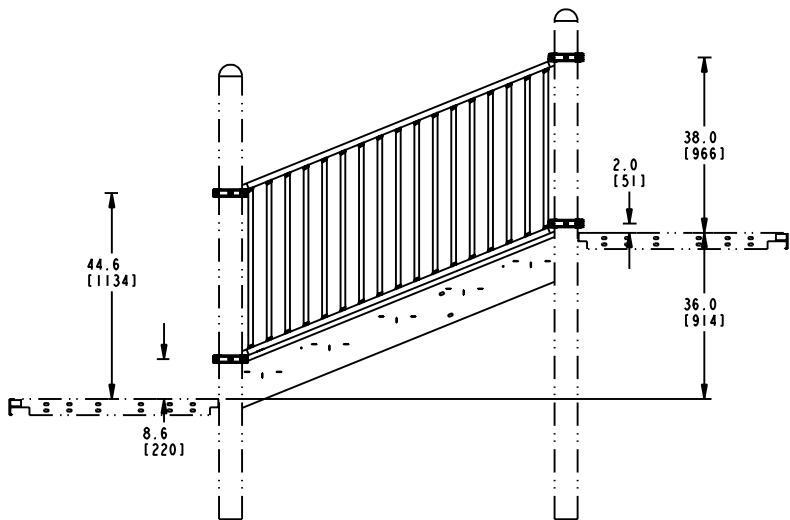
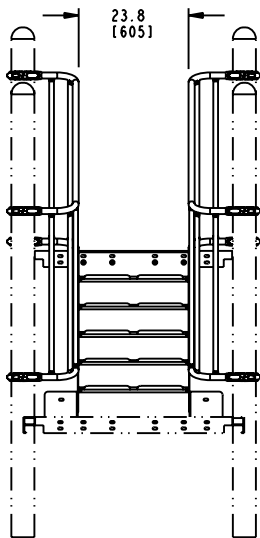
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram



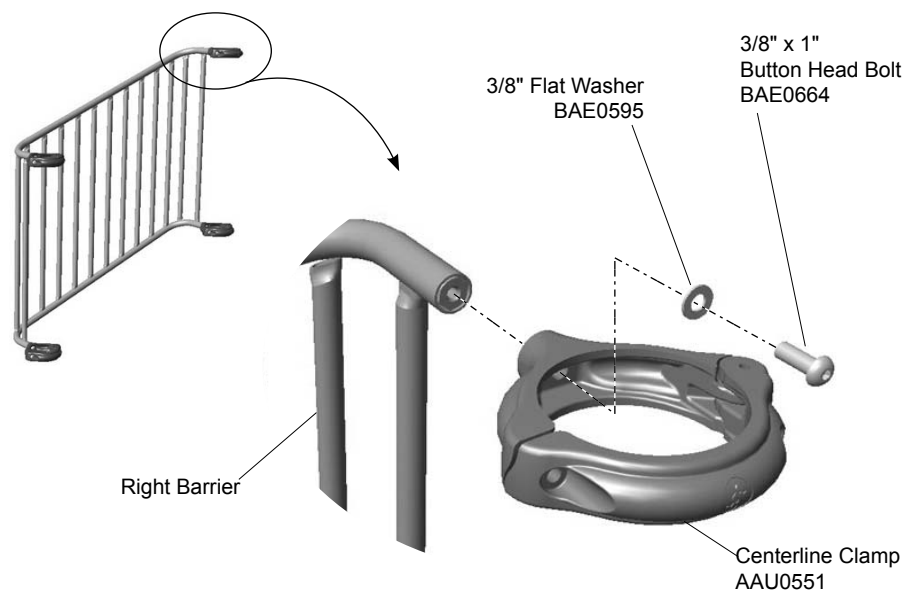
Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177



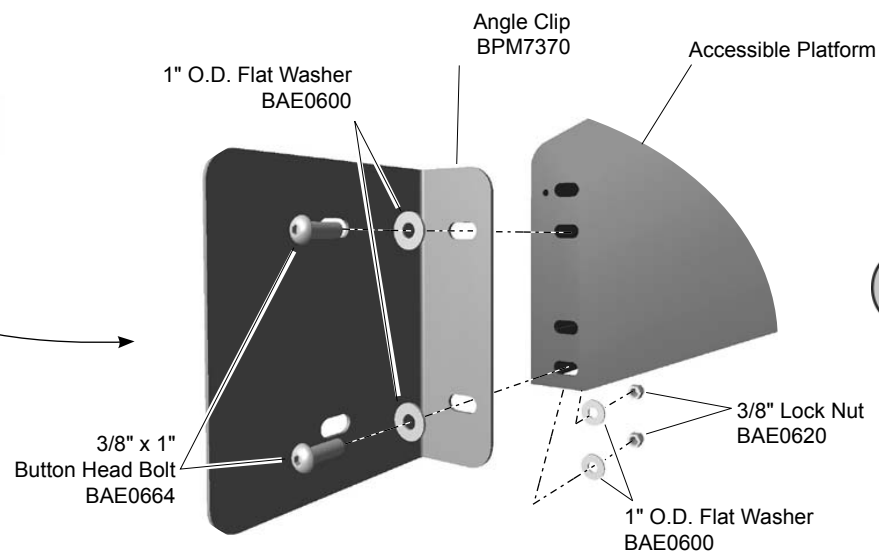
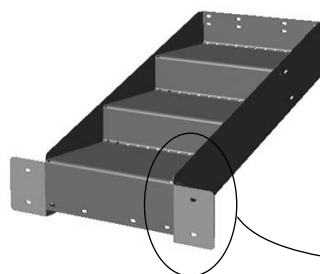
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

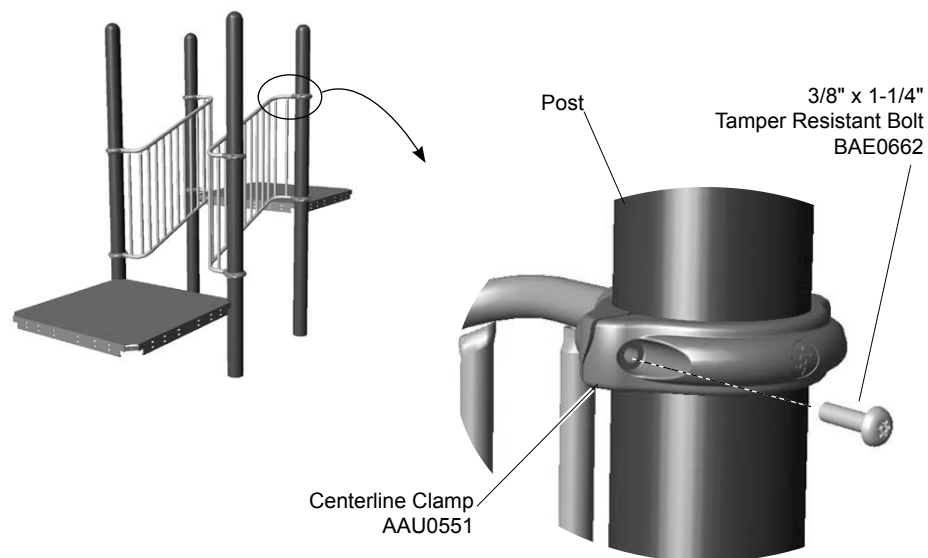


Detail A
Step 4

The front of angle clip should be even with the face of the platform



Detail C
Step 6

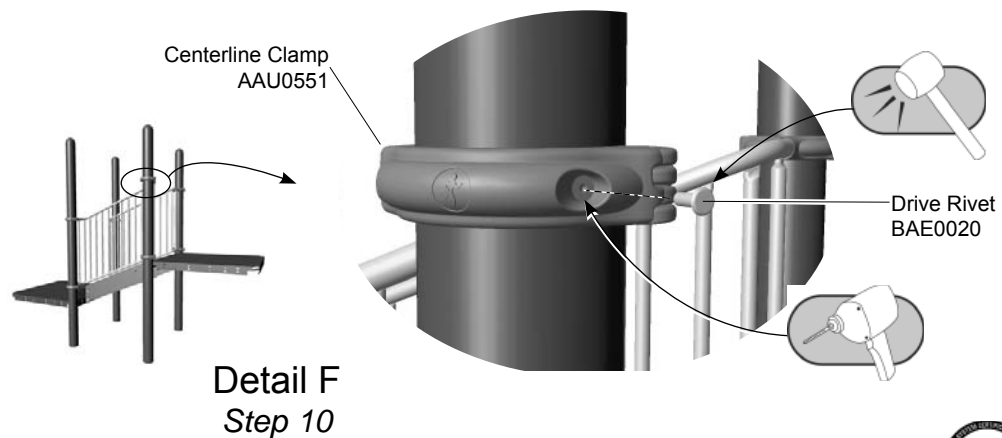
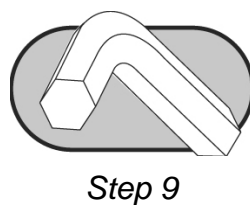
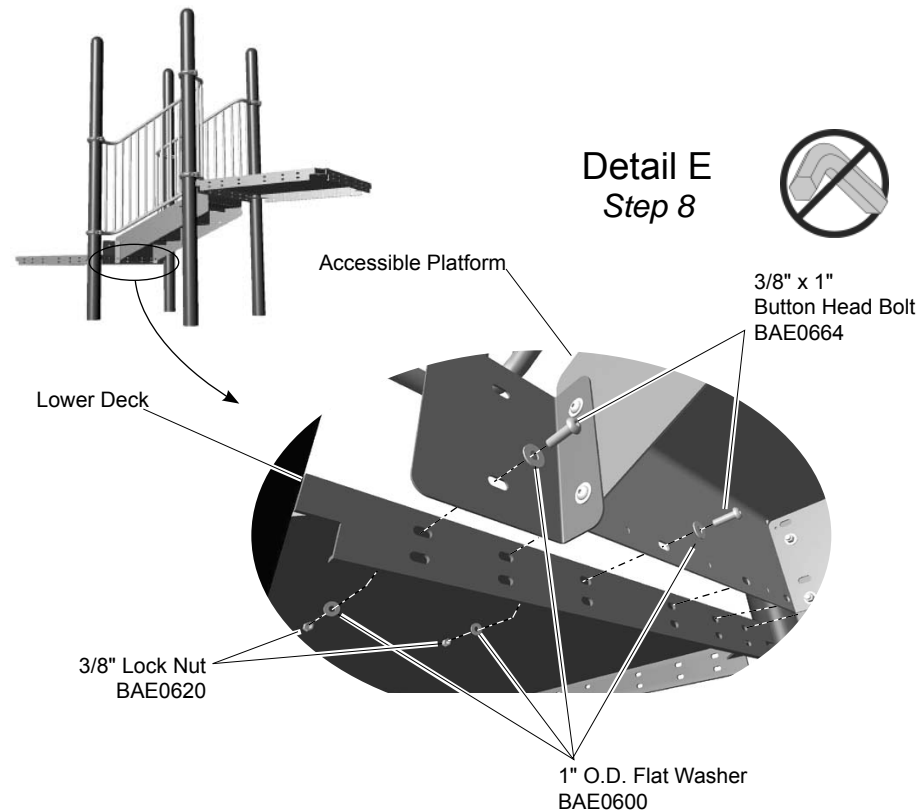
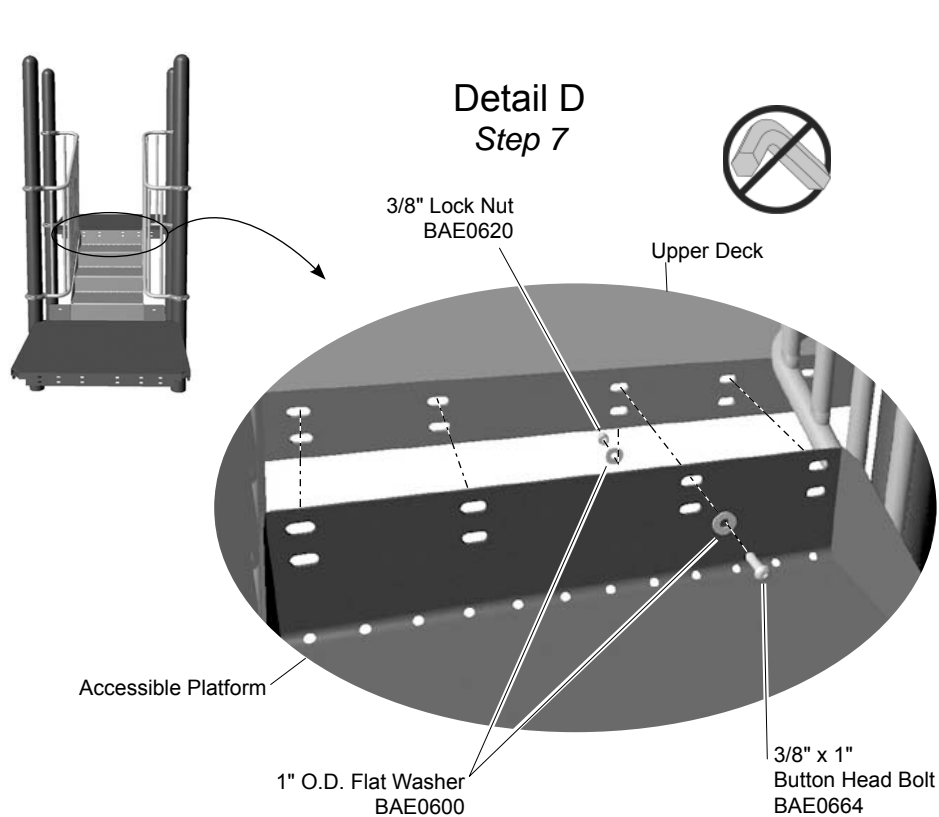


Detail B
Step 5



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

Step 10: Rivet the clamps to the posts. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®




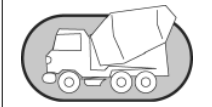
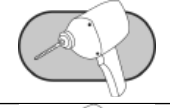

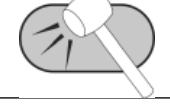
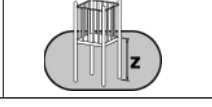
Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

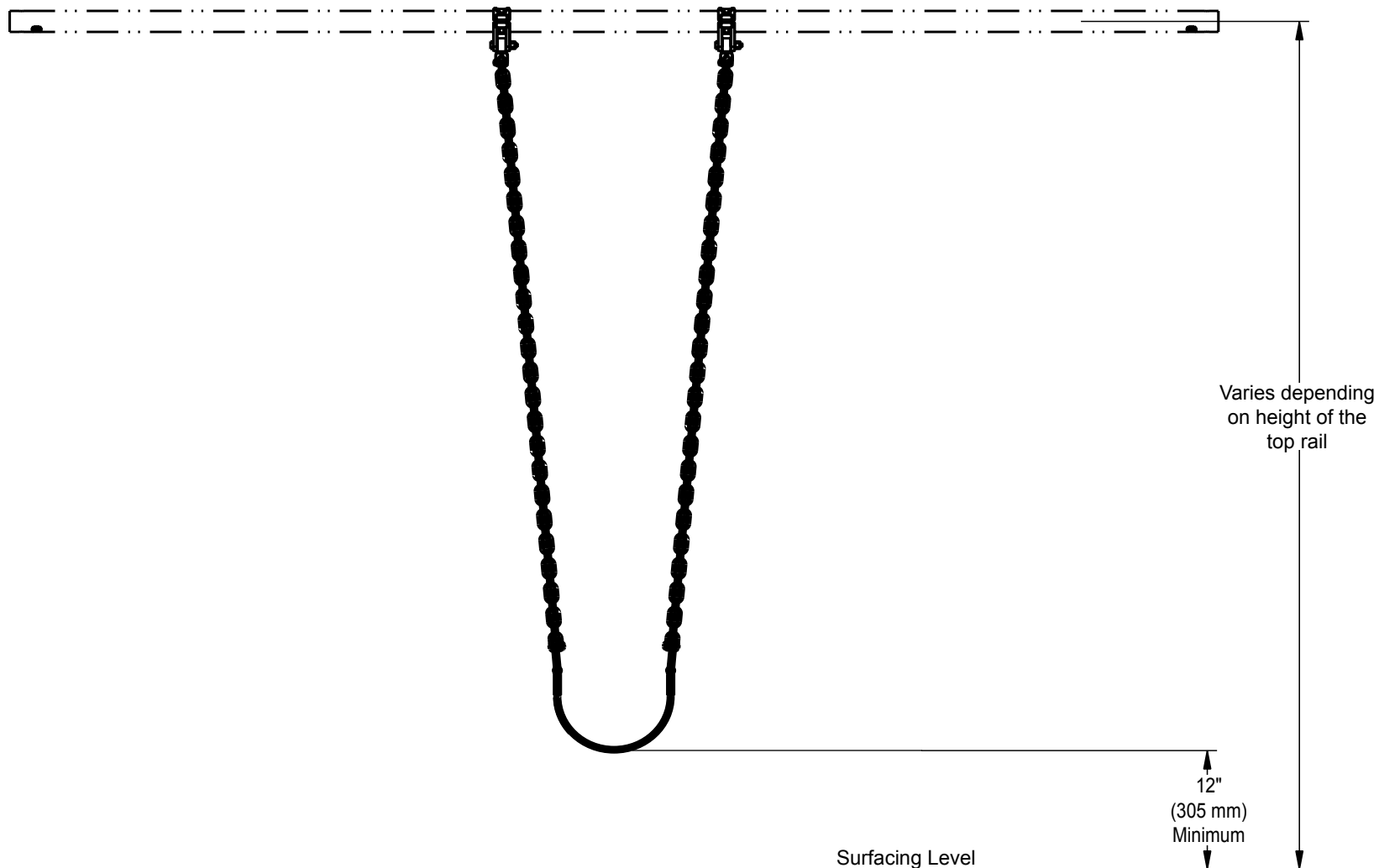
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

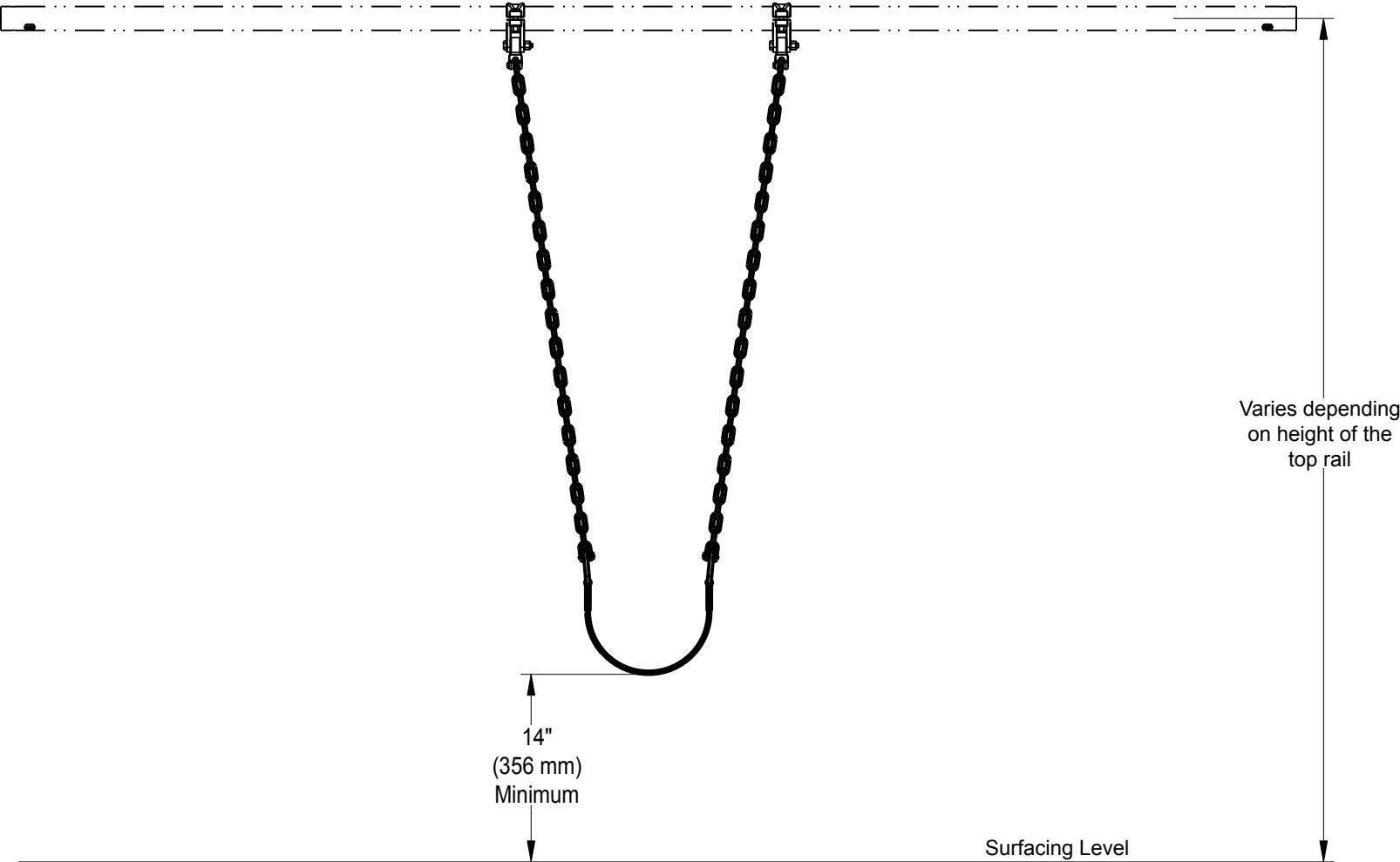
Installation Instructions



Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)

Installation Instructions



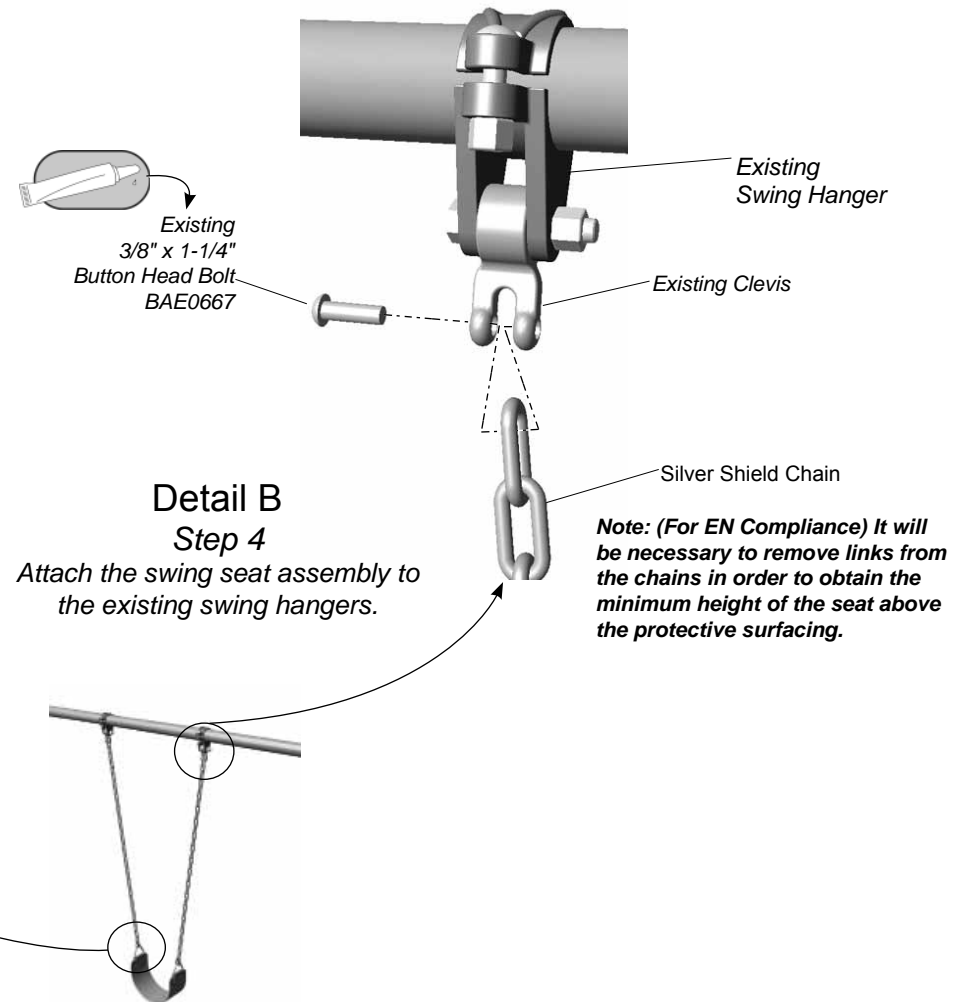
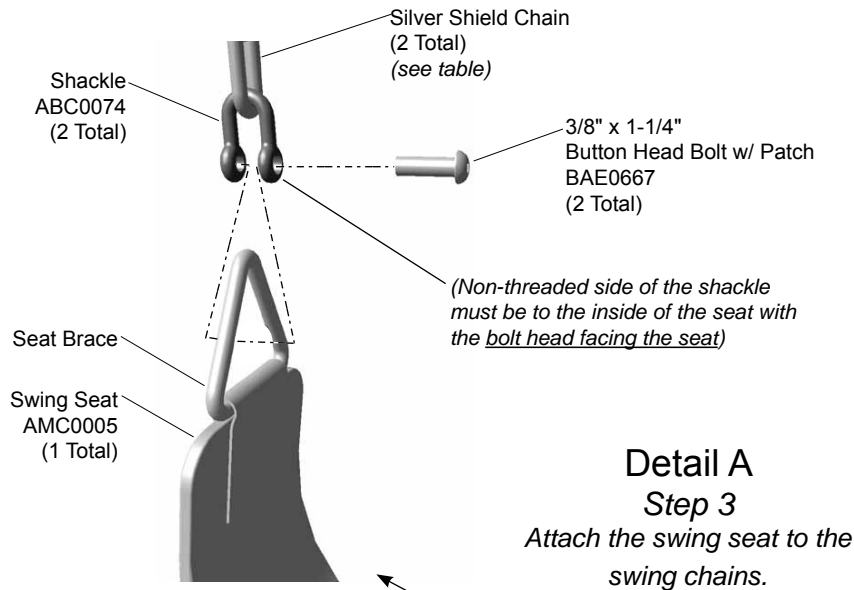
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Top Rail Height
ZZXX0325	7 ft. (2134 mm)
ZZXX0265	8 ft. (2440 mm)
ZZXX0266	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

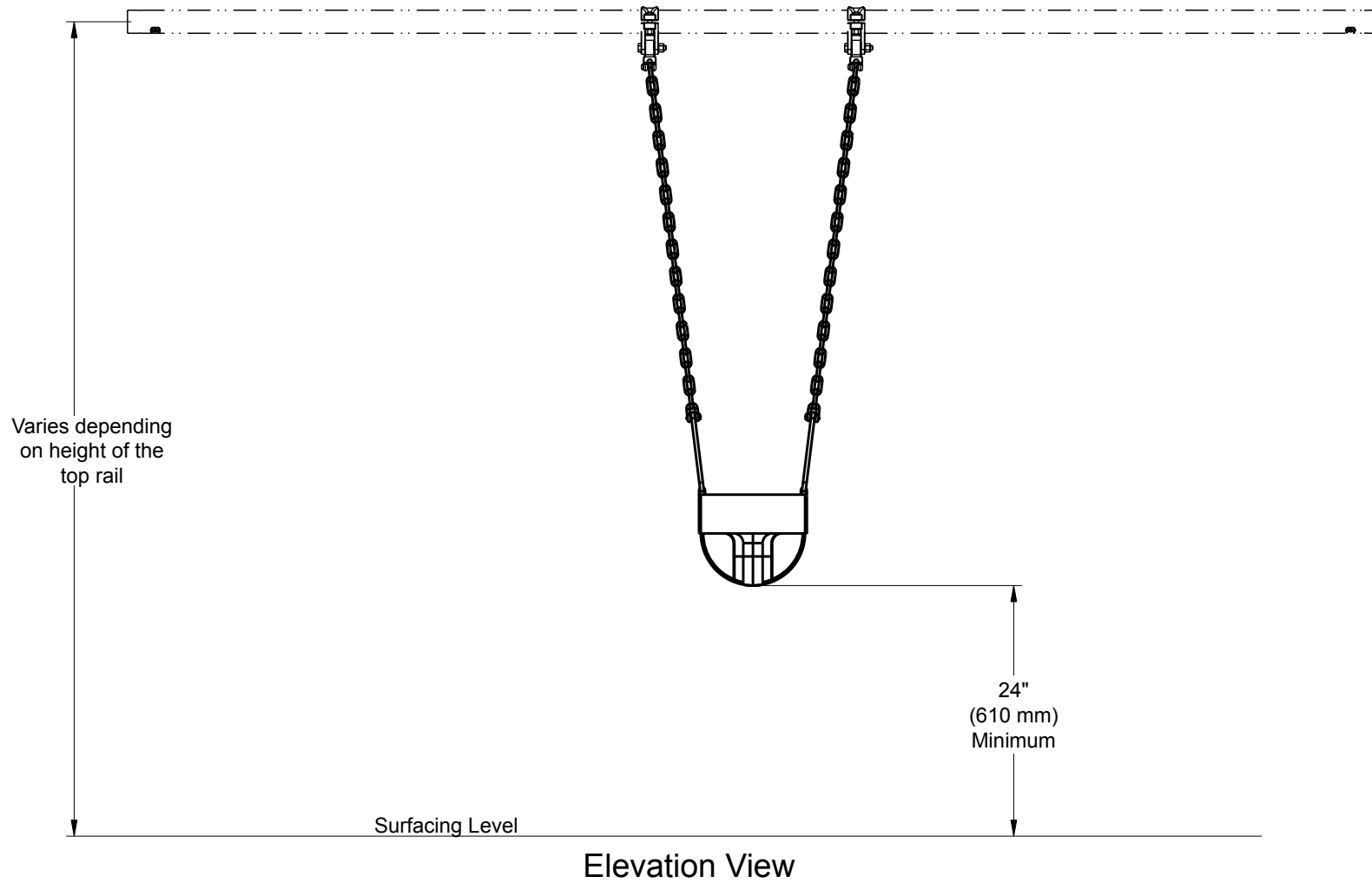
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group: Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

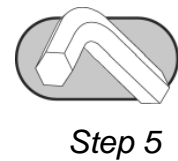
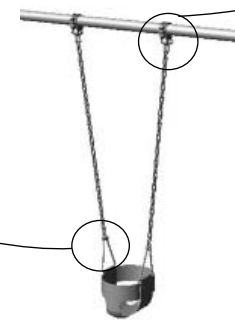
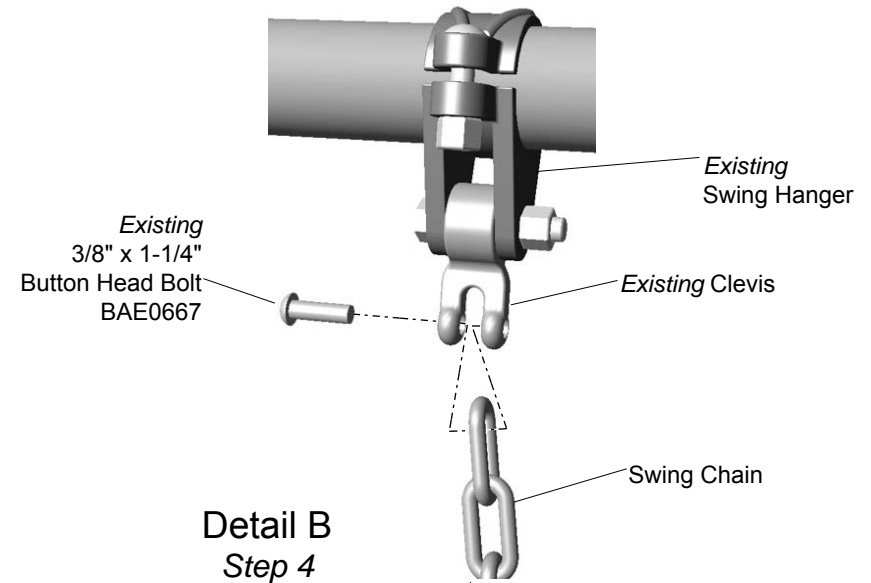
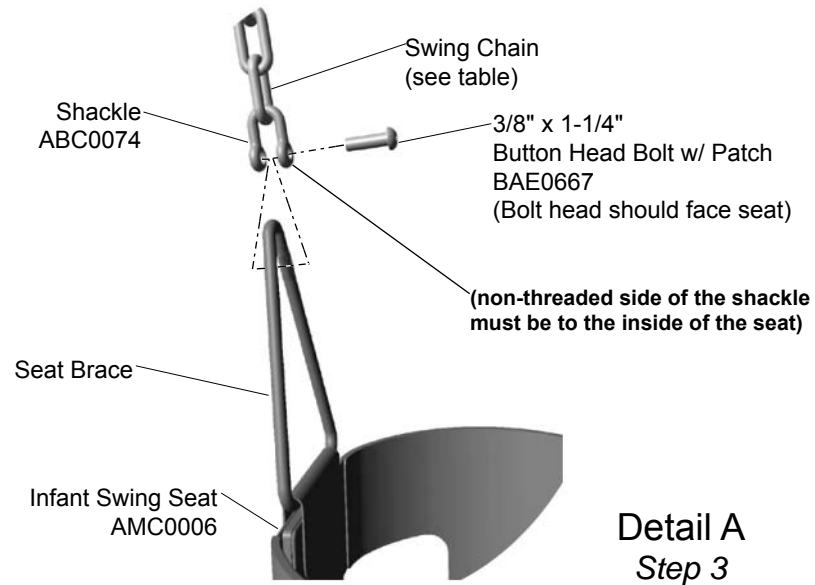
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

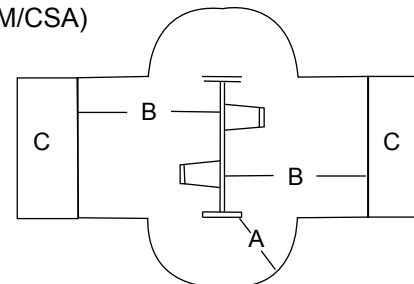
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

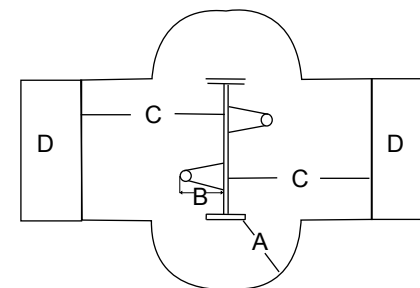
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

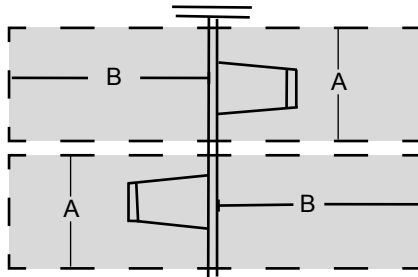
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

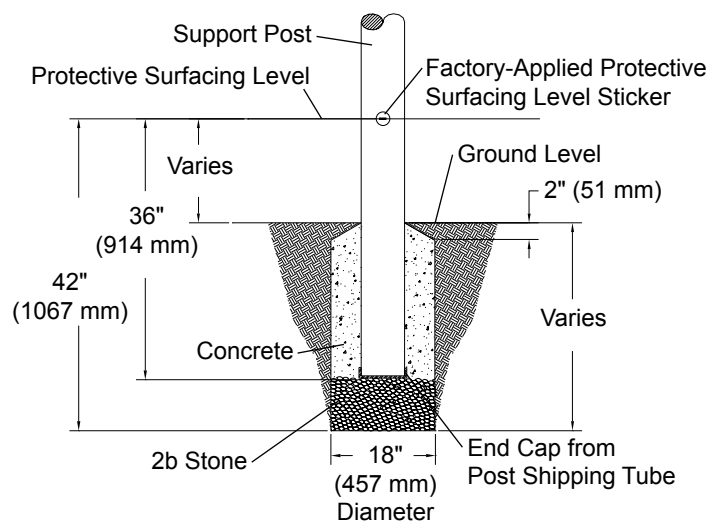
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

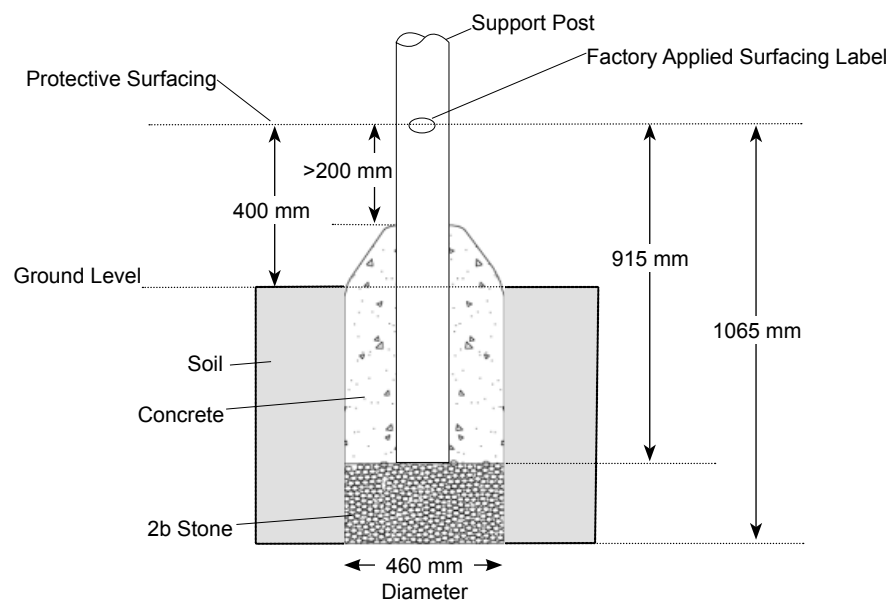
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.





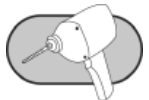
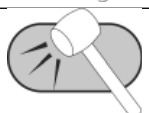

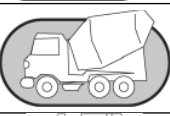

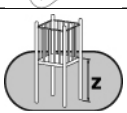
Assembly View (representative model)

Installation Instructions

Playworld Systems® Model XX0287
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

Installation Preparation

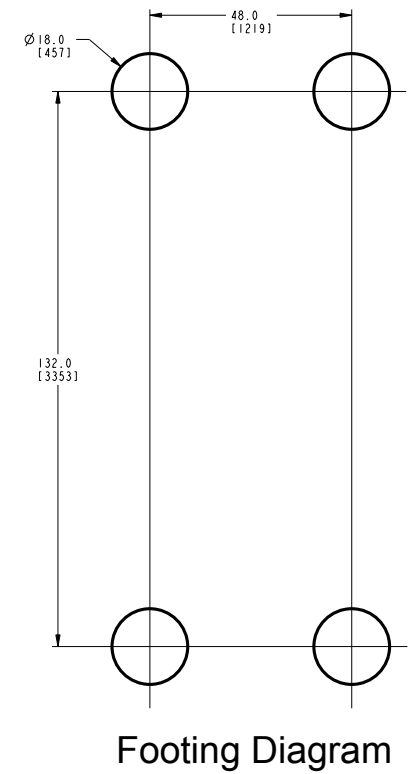
Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Page 6 of 14

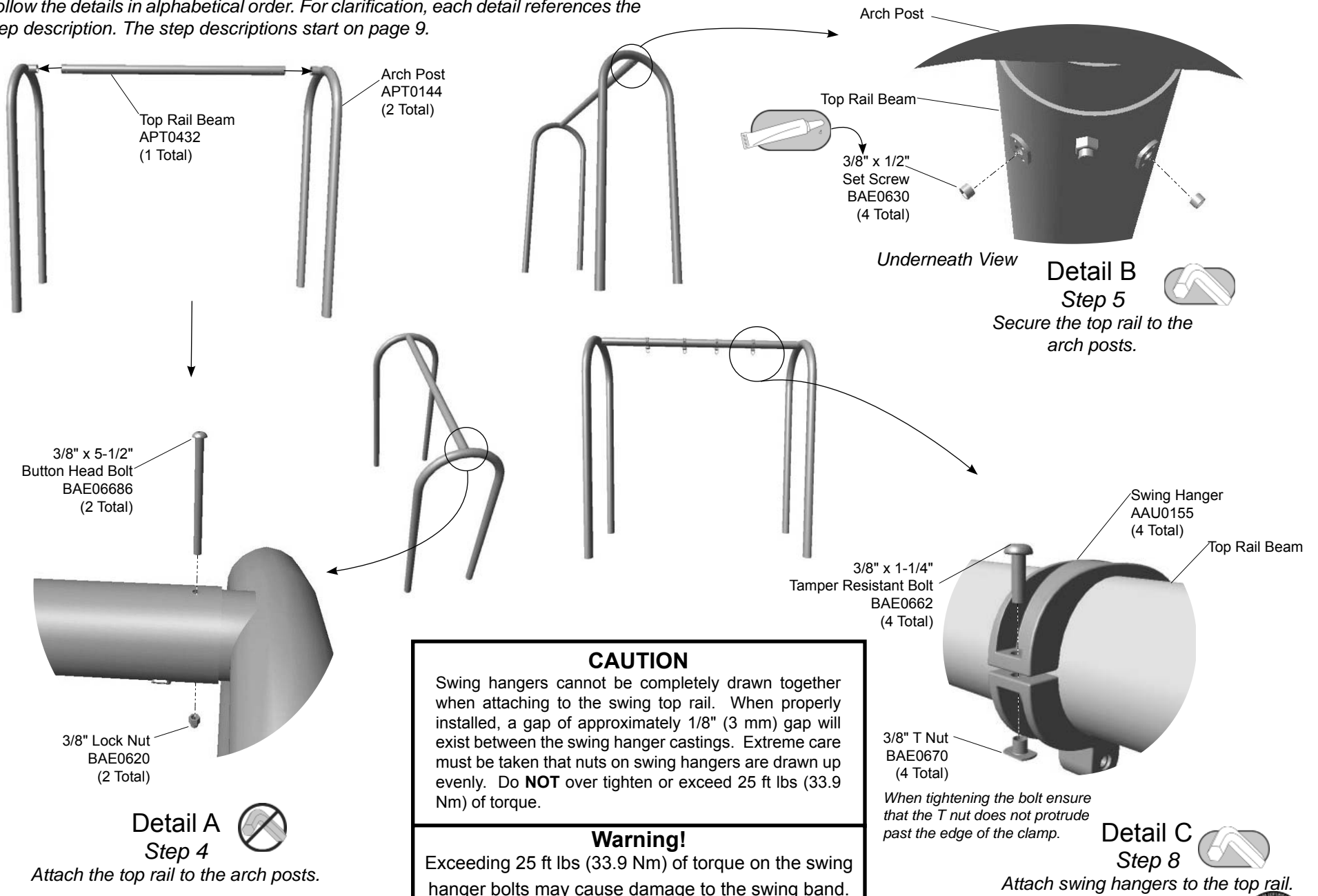
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

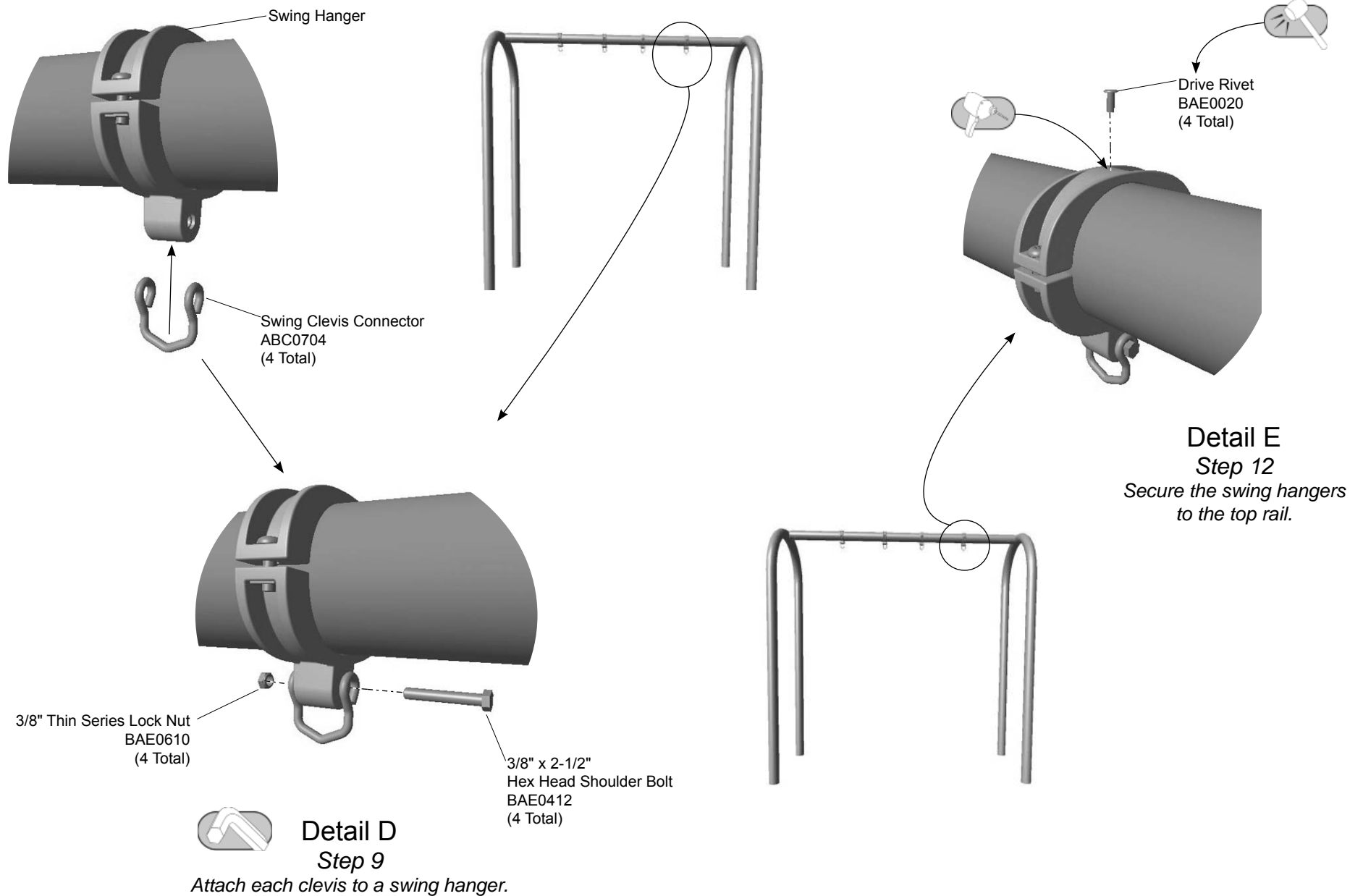


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133-1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1



The world needs play.™

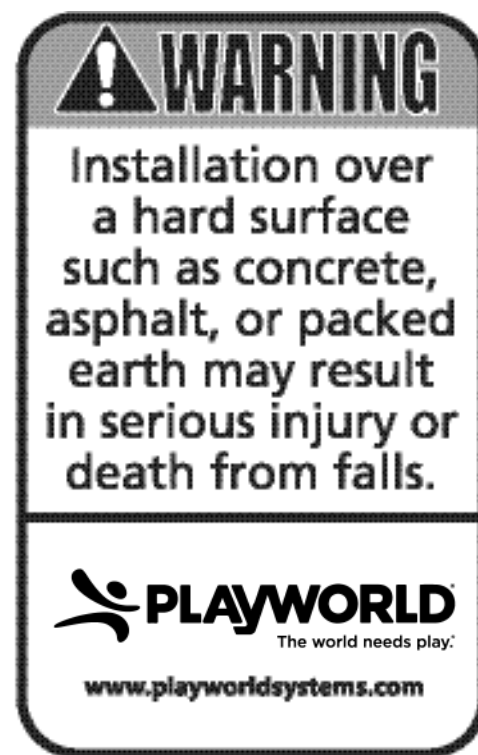
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

PLAYWORLD
The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **. . . for Safety's Sake!**

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

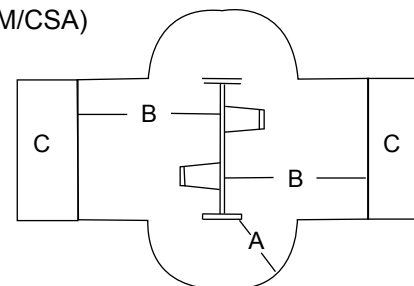
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

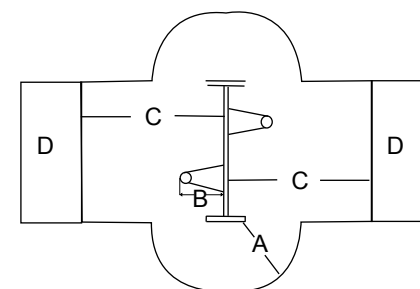
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

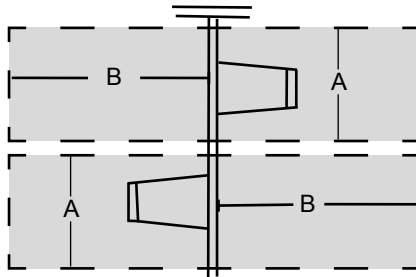
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

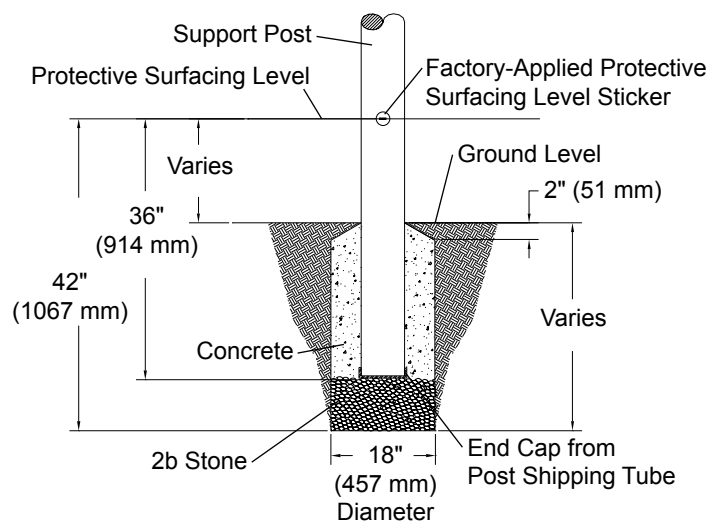
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

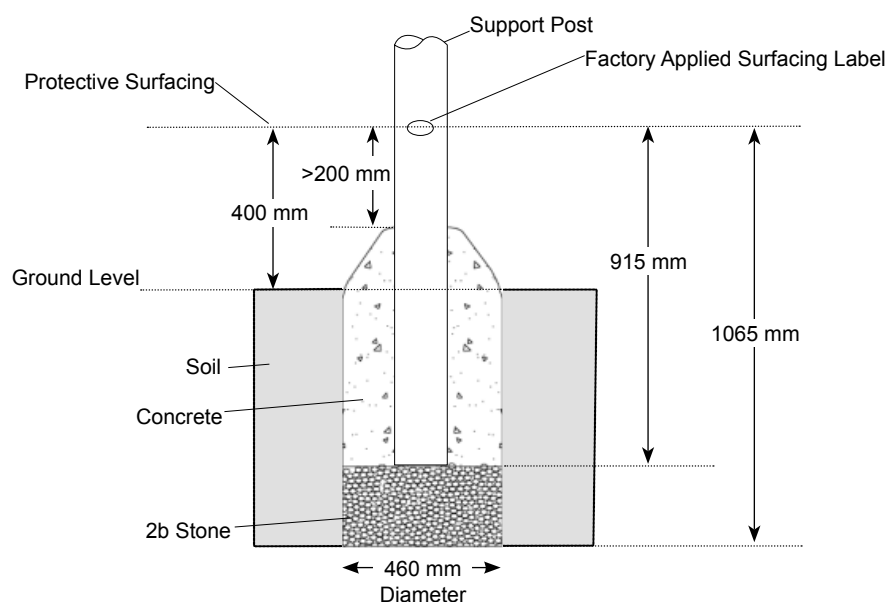
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



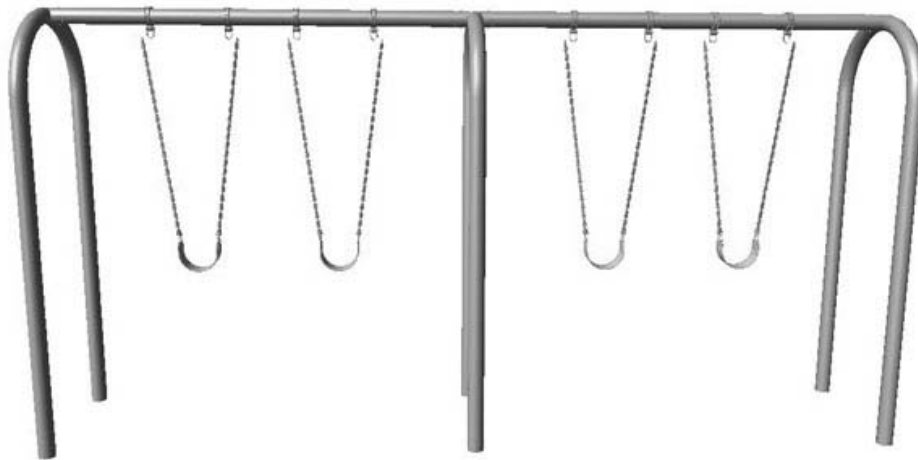
Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay


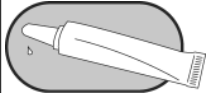

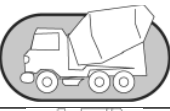



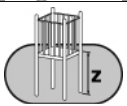


Assembly View

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 2 man-hours
Concrete Required: 0.24 cubic yard (0,18 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

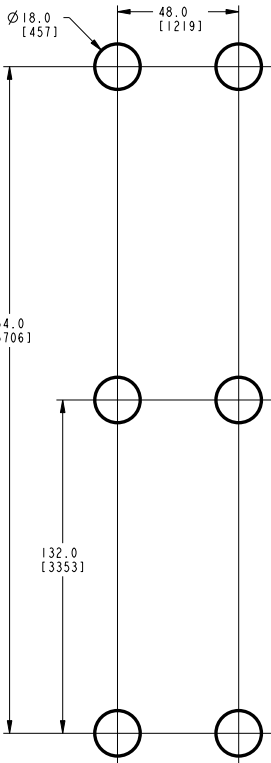
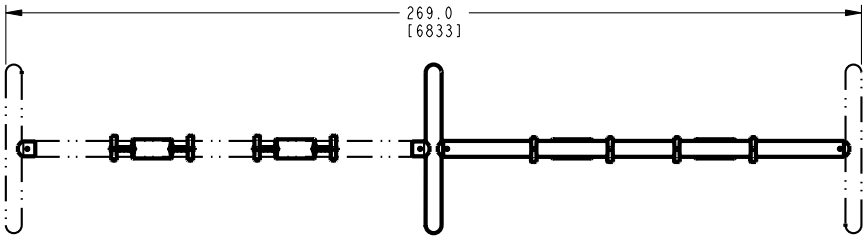
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

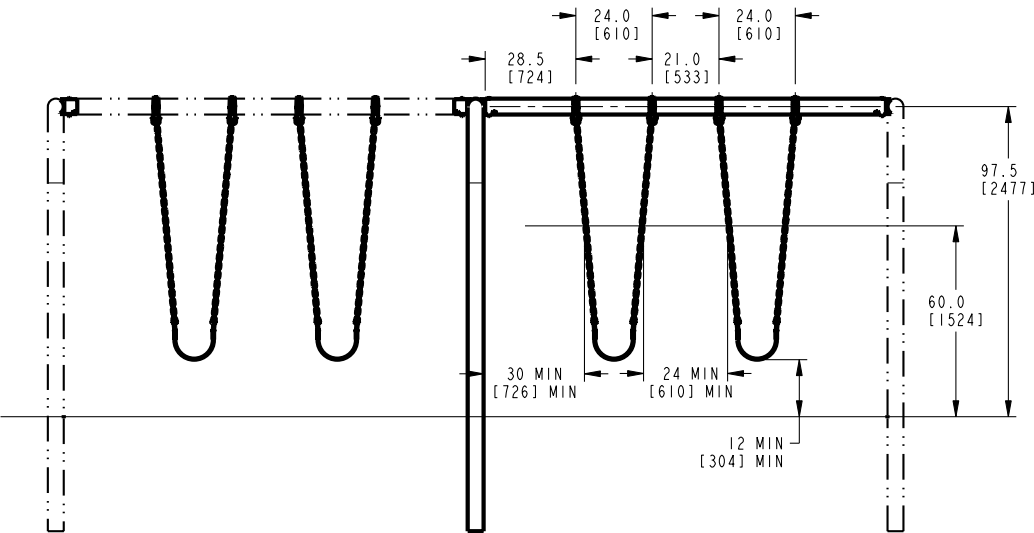
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

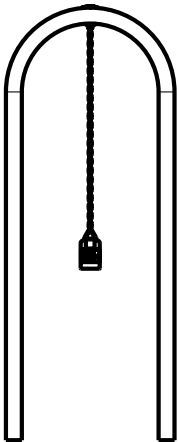


Footing Diagram

Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.

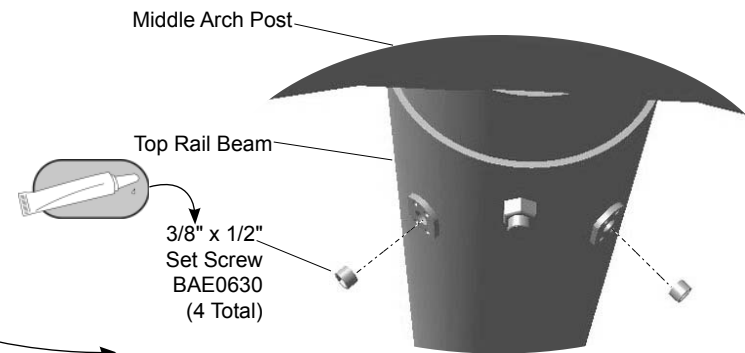
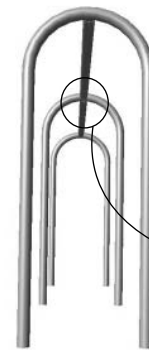
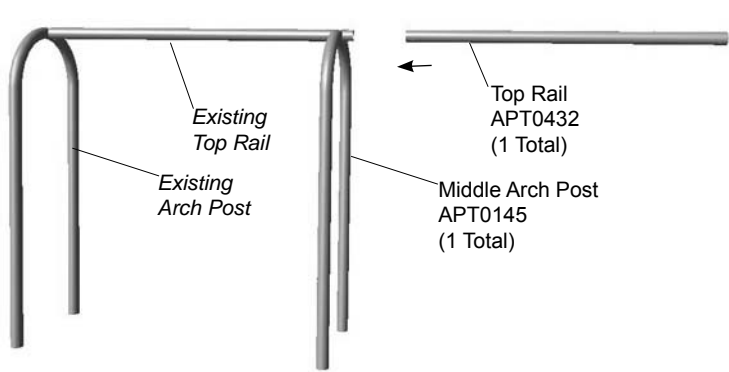


Elevation Views



Installation Instructions

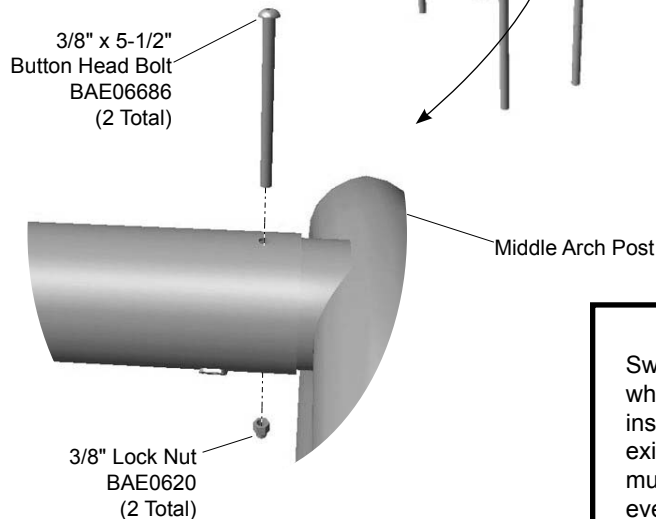
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

Detail B Step 7

Secure the top rails to the middle arch post.



Detail A Step 5

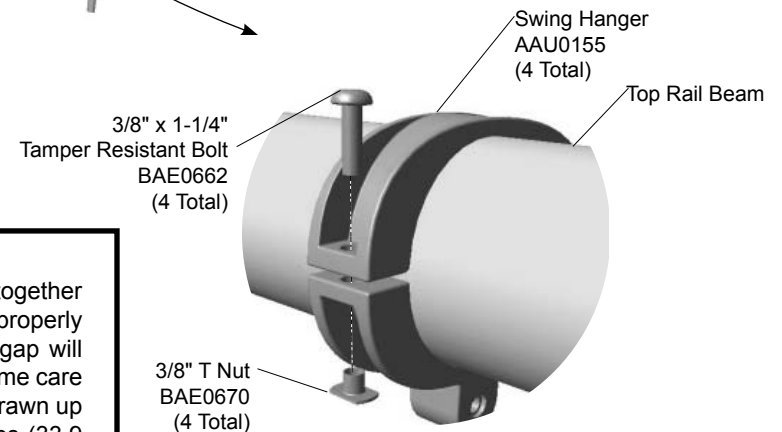
Attach both top rails (new and existing) to the middle arch support.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



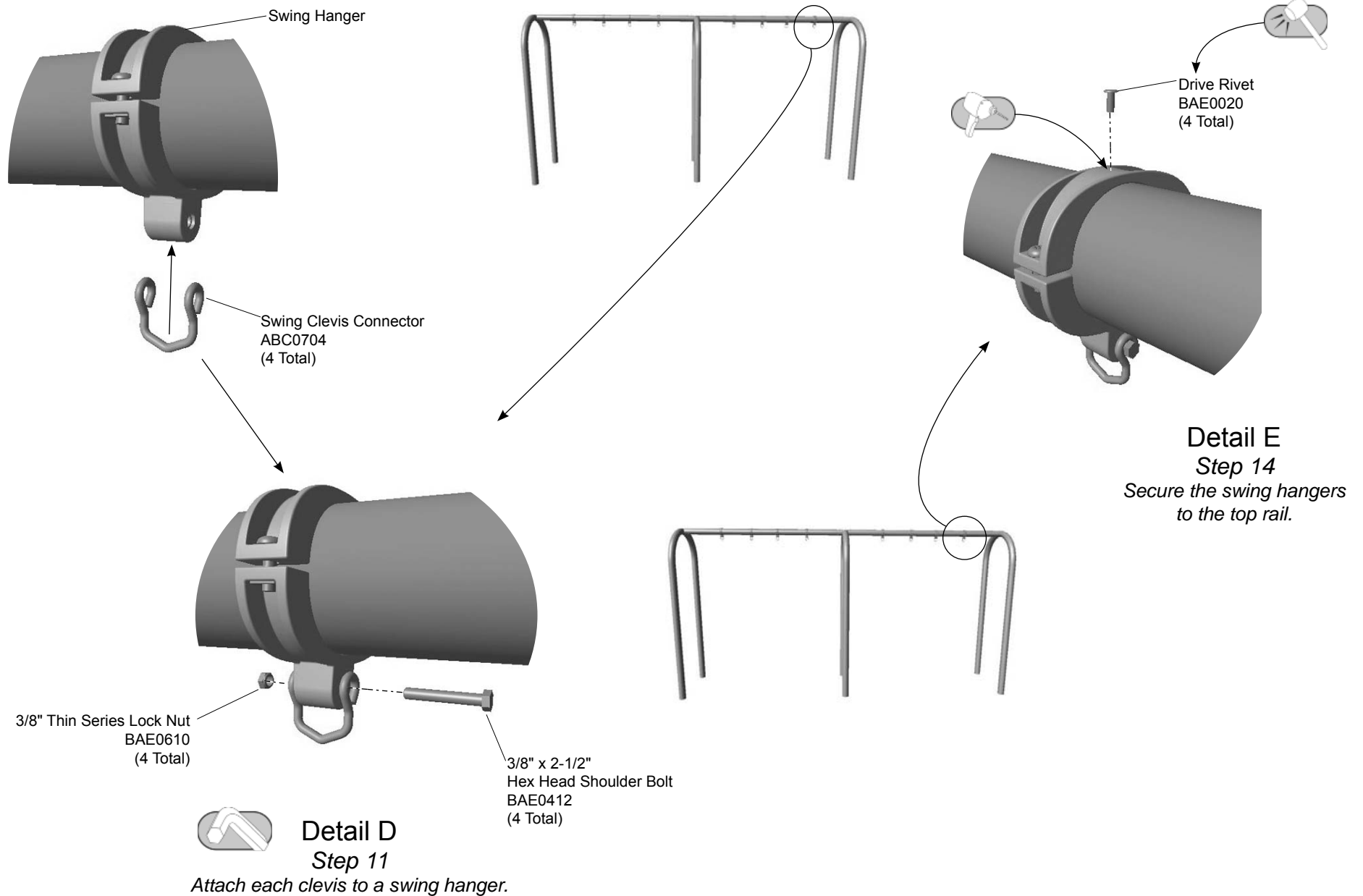
When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C Step 10

Attach swing hangers to the top rail.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - S.S.	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - S.S.	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

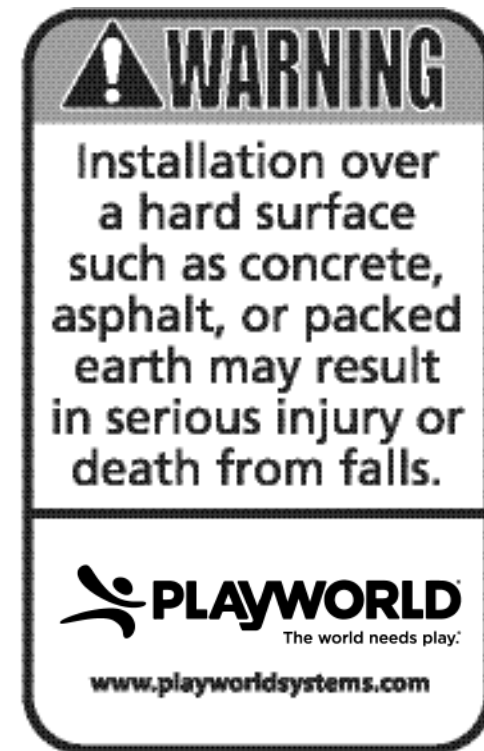


Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.

Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

PLAYWORLD
The world needs play.™

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **. . . for Safety's Sake!**

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

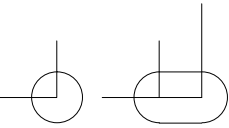
Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

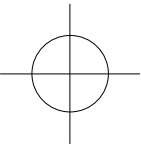
Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__

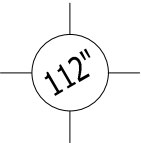
FOOTING LEGEND



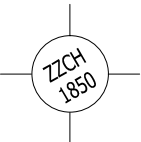
COMPONENT FOOTING (DETAIL 3)



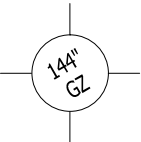
SPIRAL SLIDE CENTER POST FOOTING (DETAIL1)



SUPPORT POST FOOTING (DETAIL 1 or 4)
(112" INDICATES POST LENGTH)



CANTILEVER, "T" POST, AND COMPONENT
POST FOOTING (DETAIL 2)
(ZZCH1850 INDICATES PART NUMBER)



GROUND ZERO POST FOOTING (DETAIL 2)
(144" INDICATES POST LENGTH)

PROJECT NO:
BORDNER 1-2.LEE

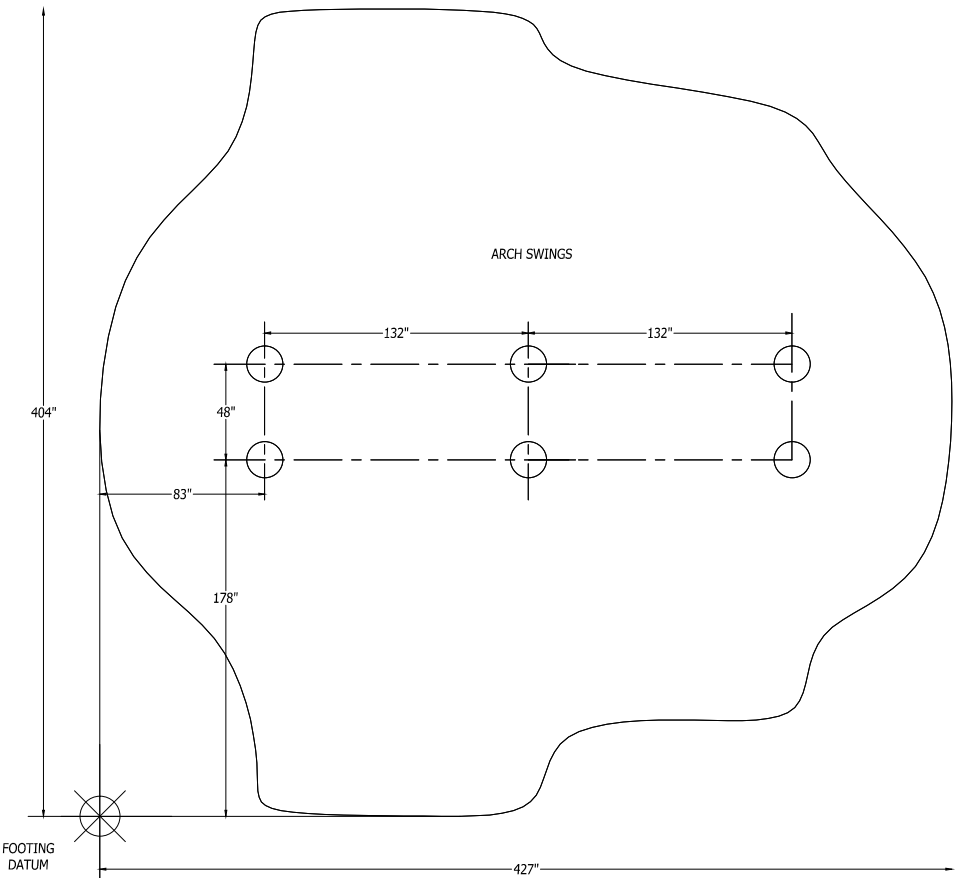
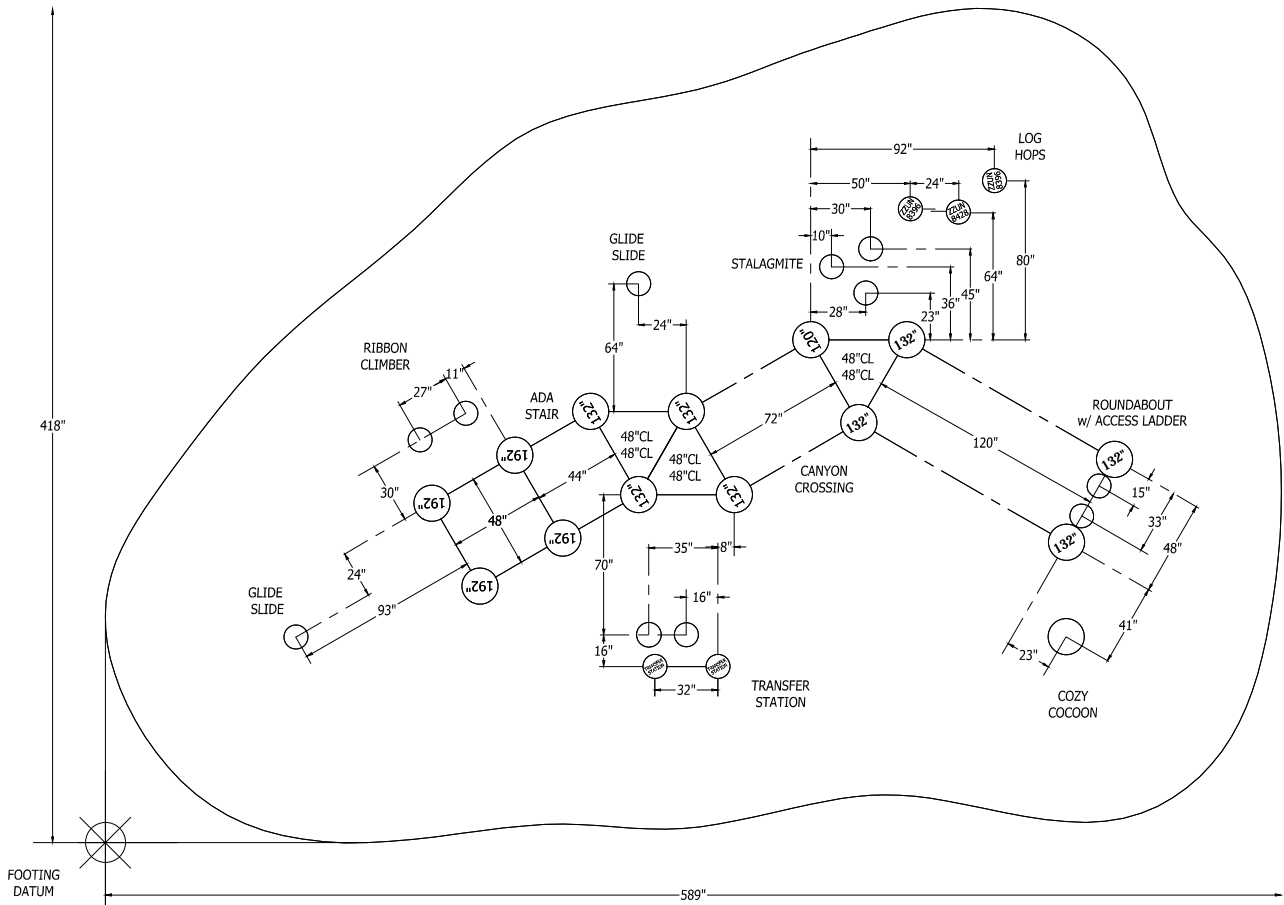
SCALE:
1/8"=1'-0"

DRAWN BY:
PSI CAD

DATE:
09-APR-17

Paper Size

B



Parts List

Part#	Description	Qty.	2 Pl	Add. Bay
185473-00	181 1/2" Beam, Specify Color	1	1	
126158-00	103" Arch (DB), Specify Color	2	1	
105327-01	5" Half Clamp, Specify Color	4	*	
152048-00	49 13/16" Swing Chain, Specify Color	3	3	
167712-00	Clamp Hardware Package	2	1	
113027-00	3/8" x 1 3/8" BHCS w/Pin, SST	8	4	
100351-00	3/8" Tee Nut, SST	8	4	
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	4	2	
128296-00	3/8" Hex Jam Nut, SST	8	4	
107329-01	Tire, Tire Ring&Hdw.Pkg.Unassembled,Boxed 1	1	1	
171029-00	Tire Ring	1	1	
130910-00	Tire w/LSI Logo	1	1	
184295-00	Tire Swing Hardware Package	1	1	
100292-00	3/8" x 1 1/4" BHCS w/Pin Limited Thread, SST	3	3	
100329-00	5/16" Hex Nylok Nut, SST	6	6	
100365-00	3/8" SAE Flat Washer, SST	6	6	
138915-00	Bolt Link, SST	3	3	
139152-00	1/4" x 3/4" Drive Rivet, AL/AL	3	3	
155239-00	U-Bolt, SST	3	3	
156846-00	Play Safe Label, 2-12 Years	1	1	
182213-00	Hot Surface Warning Label	1	1	
182212-00	Entanglement Warning Label	1	1	
115176-00	Hard Surface Warning Label	1	1	
178243-00	Tire Bolt Cover, Black	3	3	
177973-00	Tire Swing Hanger Hardware Package	1	1	
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread Bolt, SST ..	3	3	
116144-00	Insert, SST	1	1	

DB = Direct Bury

* = 5" Half Clamps From 2 PL. Need To Be Used.

Specifications

Arch Posts:	See PlayBooster® (PB) General Specifications.
Beam:	Weldment comprised of 5" O.D. x 11 GA (.120") galvanized steel tubing, 3 1/2" O.D. RS-20 (.125") galvanized steel tubing and 7 GA. (.179") flat steel gussets. Tee clamps and tire swing clamps are mechanically attached at factory with stainless steel fasteners. Finish: ProShield®, color specified.
Insert:	Made from 303 stainless steel.
Chain:	Steel 3/16" straight link chain, 800 lb. working load limit. Finish: TenderTuff™, color specified.
Tire:	Rotationally molded from U.V. stabilized, E.V.A. (ethyl vinyl acetate) and high density polyethylene, blended to retain flexibility at below freezing temperatures, black in color. Tire measures 28" O.D. x 14" I.D. x 6" high.
Tire Ring:	Fabricated from 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing.

Hanger Assembly: Machined from 303 stainless steel, with oil impregnated bronze bearings.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: 1 Place - Approx. 8 man hours

Additional Bay - Approx. 4 man hours

Actual Size: 1 Place - 3'-11" x 15'-6 1/2" (1,19 m x 4,74 m)

Additional Bay - 3'-11" x 15'-4" (1,19 m x 4,67 m)

Area Req: 1 Place - 22' x 27'-6 1/2" (6,71 m x 8,39 m)

Additional Bay - 21'-4" x 22' (6,50 m x 6,71 m)

Concrete Req.: 1 Place - Approx. 7.5 cu. ft.

Additional Bay - Approx. 3.75 cu. ft.

Weight: 1 Place - 294 lbs.

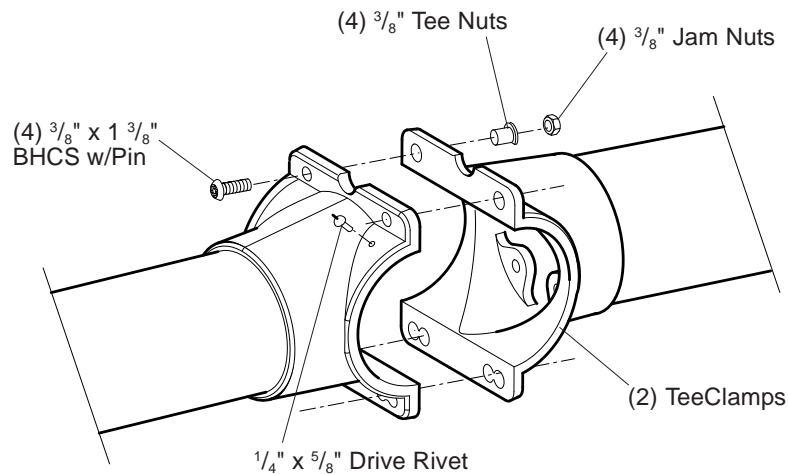
Additional Bay - 219 lbs.

Fall Height: 78" (1,98 m)

Installation Instructions

- 1) Dig footings, spaced as shown. Refer to the Typical Concrete Footing Detail Spec Sheet.
- 2) Set arches in position and attach the 181 1/2" beam to the center of the arches using 5" half clamps, 3/8" x 1 3/8" BHCS w/pin and 3/8" tee nuts with 3/8" jam nuts. Refer to the Tee Clamp Position Detail. When installing back to back swing beams refer to the Back To Back Tee Clamps Detail.
- 3) Level beam, plumb posts and temporarily prop in position. Pour concrete footings and let set for 72 hours before proceeding.
- 4) Refer to the Tire Swing Seat Spec Sheet for tire attachment.
- 5) Attach swing chains to tire swing hanger assembly using 3/8" x 1 1/4" BHCS w/pin limited thread bolts and insert. Refer to Detail.
- 6) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet. Refer to the Back To Back Tee Clamps Detail.
- 7) Apply Play Safe and Warning Labels, as shown.
- 8) Install protective surfacing before users are allowed to play on the structure.

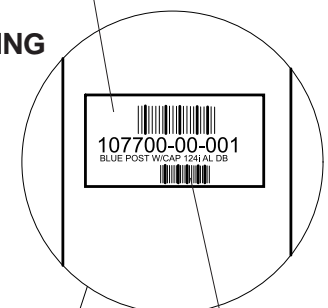
**DETAIL
BACK TO BACK
TEE CLAMPS**



NOTE: Drill 1/4\"

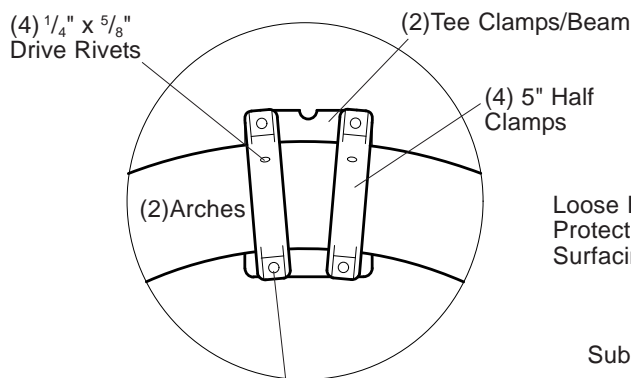
**DETAIL
CONCRETE FOOTING**

Part Number Label
Example



Number Indicates
Post Length

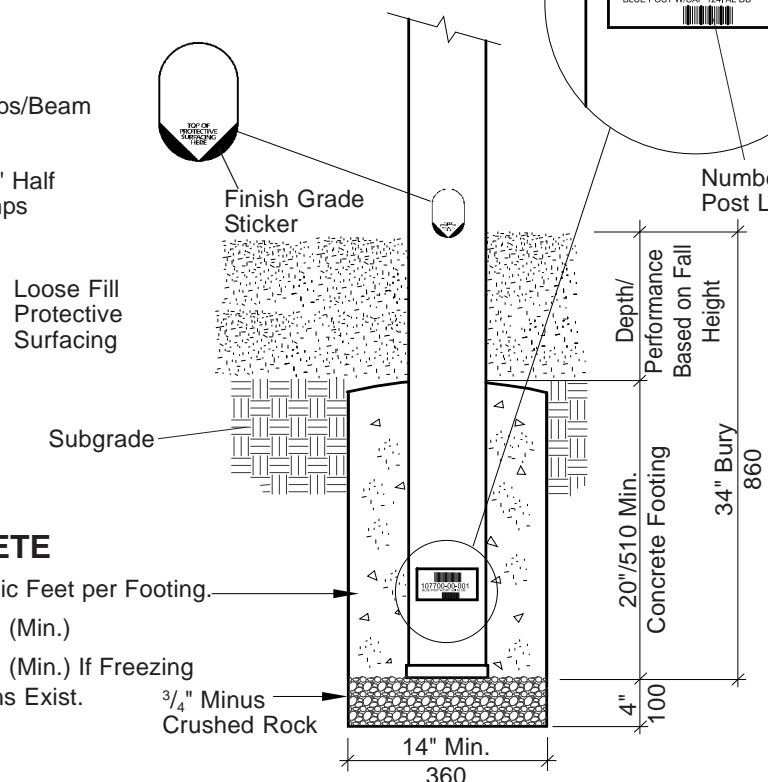
**DETAIL
TEE CLAMP POSITION**



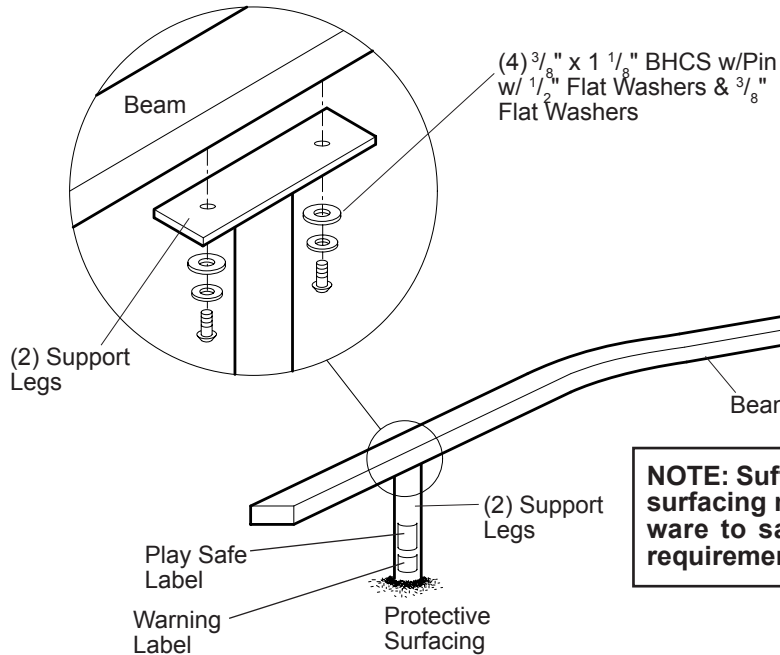
NOTE: Use Inside Holes
For (4) 3/8\"

CONCRETE

- 1.87 Cubic Feet per Footing.
- 2000 PSI (Min.)
- 3000 PSI (Min.) If Freezing Conditions Exist.



DETAIL



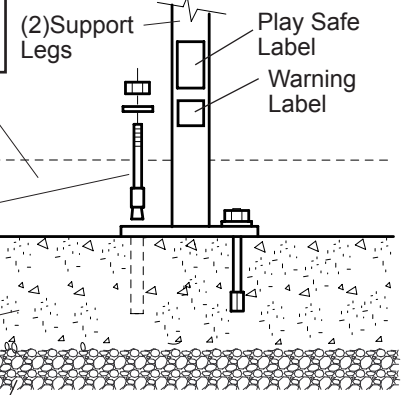
**SECTION
SURFACE MOUNT**

NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

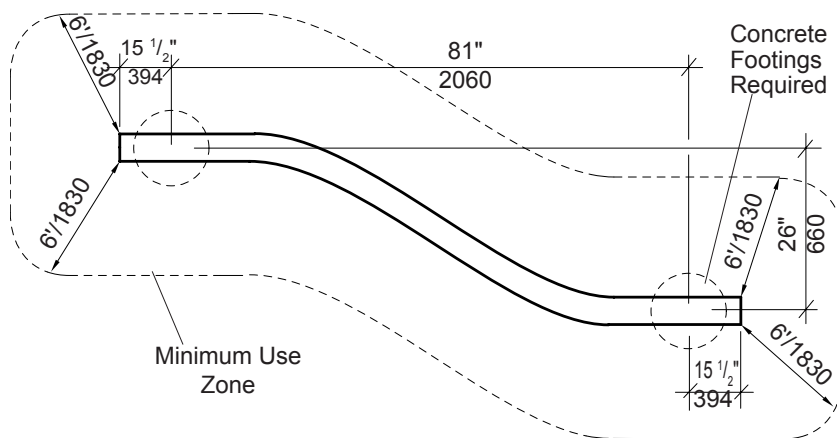
(4) 1/2" x 2 3/4" Expansion Anchors w/ 1/2" Flat Washers & 1/2" Standard Hex Nuts

Concrete Slab

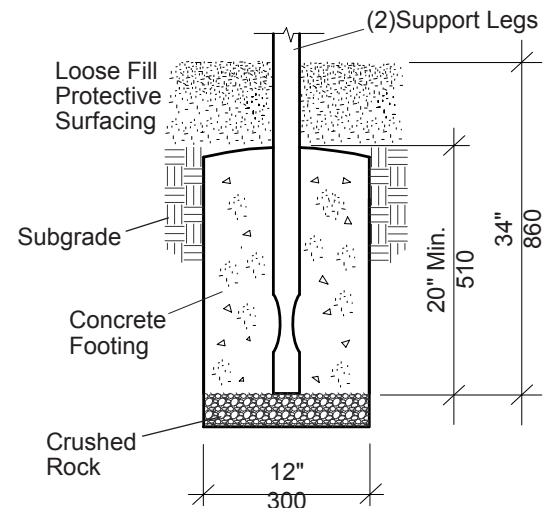
Crushed Rock



PLAN VIEW/ FOOTING LAYOUT



**SECTION
CONCRETE FOOTING**



Sports & Fitness 100041 Curved Balance Beam

Parts List

Part#	Description	Qty.
147727	Curved Balance Beam, Specify Color.....	1
113443	(DB) Support Leg, Specify Color.....	2
114954	(SM) Support Leg, Specify Color	2
183898	Curved Balance Beam Hardware Package	1
100198-	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	4
100362	$\frac{3}{8}$ " Flat Washer, SST	4
100363	$\frac{1}{2}$ " Flat Washer, SST	4
156846	Play Safe Label, 2-12 Yrs.....	1
183064	Warning Label	1
121348	4-Hole (SM) Hardware Package	1
100266	$\frac{1}{2}$ " x $2\frac{3}{4}$ " Expansion Anchors.....	4
100322	$\frac{1}{2}$ " Standard Hex Nut, SST	4
100363	$\frac{1}{2}$ " Flat Washer, SST	4

DB = Direct Bury

SM = Surface Mount

Specifications

Beam: Weldment comprised of $1\frac{1}{2}$ " x 3" 11 GA (.120") rectangular steel tubing. Finish: TenderTuft®, color specified.

Support Leg: Weldment comprised of 1.900" O.D. RS-20 (.090" - .100") galvanized steel tubing and $\frac{3}{8}$ " x $2\frac{1}{2}$ " mounting plate. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Actual Size: 11 $\frac{1}{2}$ " high x 3" wide x 9'-4" long.

Installation Time: Approx. 1 $\frac{1}{4}$ man hour

Concrete Req: DB - Approx. 3 cu. ft.

Min. Area Req: 14' 6" x 21' 4" (4,42 m x 6,50 m)

Fall Height: 12" (0,30 m)

Weight: DB - 60 lbs.

SM - 58 lbs.

Installation Instructions

Direct Bury

- 1) Dig footings spaced as shown.
- 2) Using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin, $\frac{1}{2}$ " flat washers and $\frac{3}{8}$ " flat washers, fasten support legs to balance beam.
- 3) Place balance beam in holes, block up, plumb and level.
- 4) Pour concrete footings and let concrete cure for a minimum of 72 hours before users are allowed to play on the structure.
- 5) Install protective surfacing before users are allowed to play on the structure.
- 6) Apply labels as shown.

Surface Mount

- 1) Using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin, $\frac{1}{2}$ " flat washers and $\frac{3}{8}$ " flat washers, fasten support legs to balance beam.
- 2) Place balance beam in position and drill through holes in support legs 3" deep into concrete slab using $\frac{1}{2}$ " masonry bit.
- 3) Tap $\frac{1}{2}$ " x $2\frac{3}{4}$ " expansion anchors through support leg holes and into concrete. Secure with $\frac{1}{2}$ " flat washers and $\frac{1}{2}$ " standard hex nuts screwed down tight.
- 4) Install protective surfacing before users are allowed to play on the structure.
- 5) Apply labels as shown.

BRITTINGHAM PARK – COMMUNITY GARDEN

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

MODEL NUMBERS NOT FOUND

111404I

111404H

111404G

111404E

111404D

111404C

111404A

Component List

Date: 02/27/2017

Rep Organization: Gerber Leisure Products

By: Dirk

Contact Person: Hollie Rickey

Project Title: Brittingham Park

Location: Madison, WI

NOTE: All non-black core Permalene will be Custom after 12/31/2016.

PlayBooster® (5-12 years)					
PHASE-1 Direct Bury Aluminum					
QTY	NO.	DESCRIPTION			
PlayBooster®					
Slides					
1	131437A	Single Wave Slide 72"Dk DB			
Climbers W/Permalene Handholds					
1	128986A	Catwalk Climber			
1	122570A	Cliff Climber 48"Dk DB			
1	152908C	Deck Link w/Handrails			
		Permalene infill panel 3 Steps			
1	122914A	Loop Arch 48"Dk DB			
1	145624D	Vertical Ascent 72"Dk			
Climbers Other					
1	126194A	Fish Net DB			
Overhead Events					
1	119805A	Single Beam Loop Horiz Lad			
		84"Connected Between Decks			
Enclosures					
1	116244A	Pipe Barrier Above Deck			
More Fun					
1	111357A	Chinning Bar Alum DB			
1	120901A	Grab Bar			
1	118089A	Loop Seat			
1	120818A	Playstructure Seat			
1	153165A	Stationary Cyclor Accessible			
1	111357B	Turning Bar Alum DB			
Decks					
1	121948A	Kick Plate 8"Rise			
4	111228A	Square Tenderdeck			
Posts					
2	111404G	100"Alum Post DB			
6	111404E	116"Alum Post DB			
2	111404D	124"Alum Post DB			
2	111404C	132"Alum Post DB			
4	111404A	148"Alum Post DB			
1	111404I	84"Alum Post DB			
Freestanding Play					
Kids In Motion					
1	148638A	Stand-Up Seesaw DB			
Swings					
1	221292A	5" Arch Swing Frame			
		8' Beam Height Only			

Component List

Date: 02/27/2017

Rep Organization: Gerber Leisure Products

By: Dirk

Contact Person: Hollie Rickey

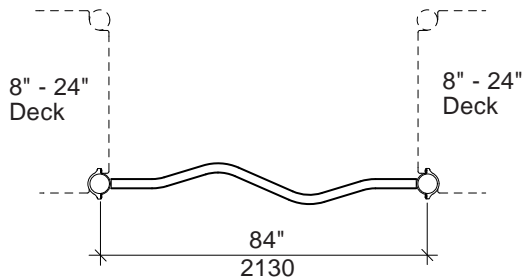
Project Title: Brittingham Park

Location: Madison, WI

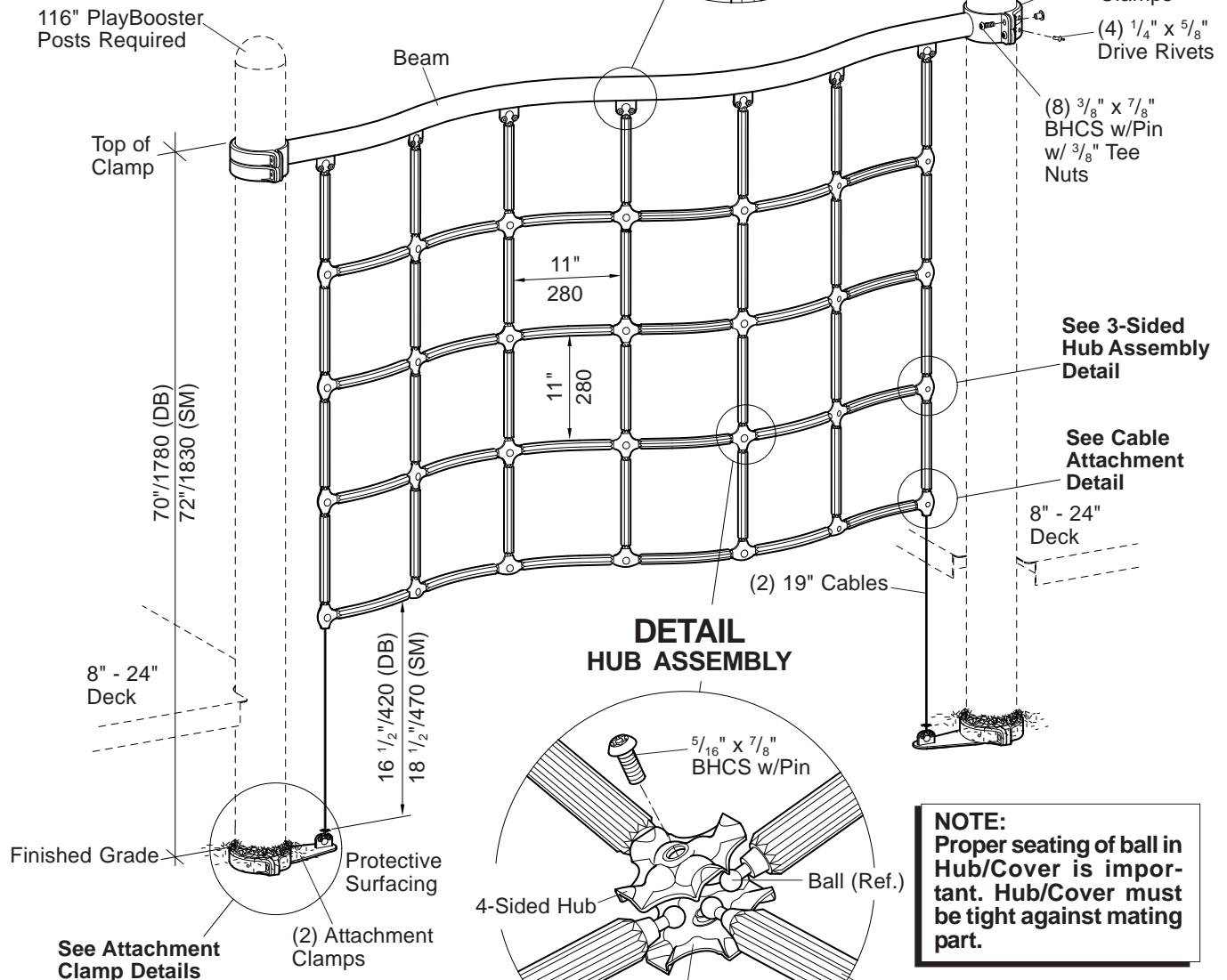
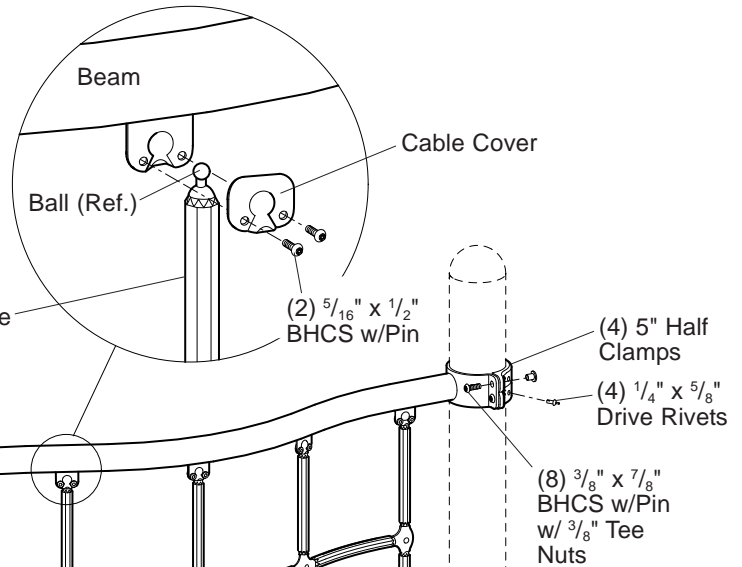
NOTE: All non-black core Permalene will be Custom after 12/31/2016.

PlayBooster® (5-12 years)						
PHASE-1 Direct Bury Aluminum						
QTY	NO.	DESCRIPTION				
1	221293A	5" Arch Swing Frame Additional Bay 8' Beam Height Only				
2	174018A	Belt Seat ProGuard Chains for 8' Beam Height				
2	176038A	Full Bucket Seat ProGuard Chains for 8' Beam Height				
Signs						
1	182503C	Welcome Sign (LSI Provided) Ages 5-12 years Direct Bury				

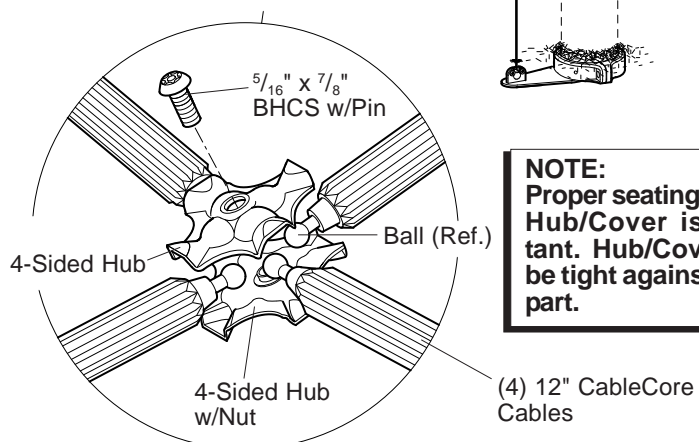
PLAN VIEW/FOOTING LAYOUT



DETAIL COVER ATTACHMENT



DETAIL HUB ASSEMBLY



NOTE:
Proper seating of ball in Hub/Cover is important. Hub/Cover must be tight against mating part.

NOTE:
Can be attached to 32" & 40" decks if a vertical ladder is used off access decks over 32".

PlayBooster®

126194 Fish Net Climber

Sheet 1 of 2

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #16408300

Parts List

Part#	Description	Qty.
105327	5" Half Clamp, Specify Color	6
145562	12" CableCore Cable, Red	52
142732	Beam, Specify Color	1
132730	Cable Cover, Specify Color	9
134920	4-Sided Hub, Specify Color	15
134921	4-Sided Hub w/Nut, Specify Color	15
134922	3-Sided Hub, Specify Color	13
134923	3-Sided Hub w/Nut, Specify Color	13
152707	19" Cable, Red	2
151787	Attachment Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, AL/SST	6
152734	Fish Net Hardware Package	1
131849	5/16" x 1/2" BHCS w/Pin, SST	22
132626	5/16" x 7/8" BHCS w/Pin, SST	28
100196	3/8" x 7/8" BHCS w/Pin, SST	12
100351	3/8" Tee Nut, SST	12

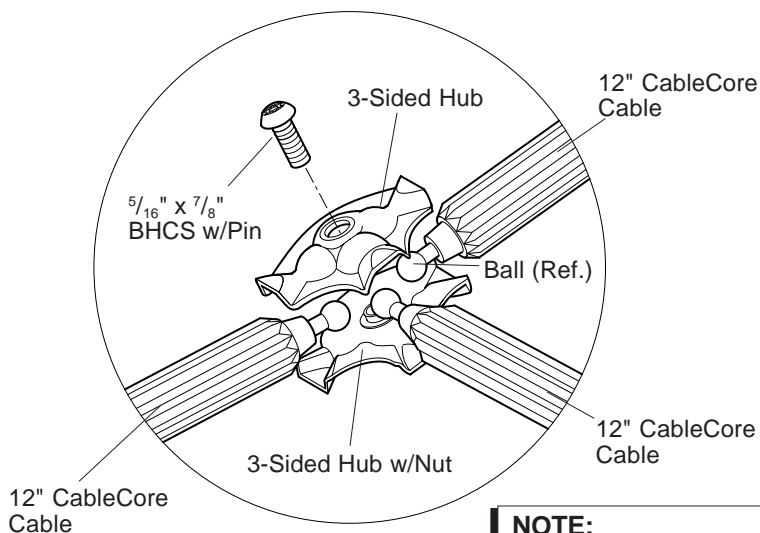
Specifications

Beam:	Weldment comprised of formed 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and 1/4" x 3" wide steel clamps. Finish: ProShield®, color specified.
CableCore:	Made from 3/16" 7-19 galvanized aircraft cable. Coated with U.V. stabilized polyurethane elastomer measuring 1" in diameter, red in color.
Hub/Cover:	Formed from 12 GA (.105") HRPO low carbon sheet steel. Finish: ProShield, color specified.
19" Cable:	Made from 3/16" 7-19 galvanized aircraft cable. Coated with U.V. stabilized polyvinyl chloride (PVC), red in color.
Attachment Clamp:	Weldment comprised of 1/4" HRPO flat steel, 1/4" x 1 1/2" HR flat steel and 1/4" x 1 3/4" wide steel zinc plated clamp. Finish: ProShield, color specified.
Half Clamp:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 2 3/4 man hours
Weight:	67 lbs.
Fall Height:	56" (1420 mm)

Installation Instructions

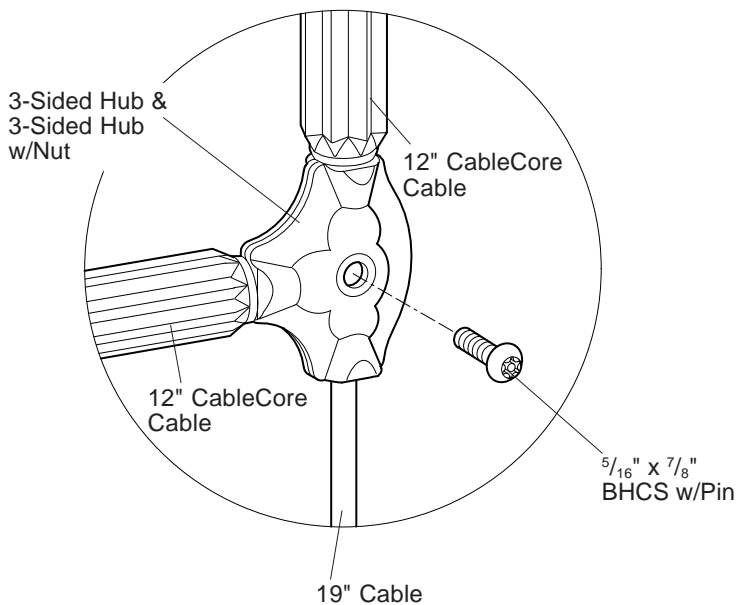
- 1) Assemble the CableCore ladder using CableCore Cables, 3-sided hubs, 3-sided hubs with nuts, 4-sided hubs, 4-sided hubs with nuts, 19" cables, and 5/16" x 7/8" BHCS w/pin. Refer to the Hub Assembly Details and Cable Attachment Detail. **NOTE: Proper seating of ball in Hub/Cover is important. Hub/Cover must be tight against mating part.**
- 2) Attach the CableCore ladder to the beam using cable covers and 5/16" x 1/2" BHCS w/pin. Refer to the Cover Attachment Detail. **NOTE: Proper seating of ball in Hub/Cover is important. Hub/Cover must be tight against mating part.**
- 3) Mark posts for the appropriate height of the beam.
- 4) Fasten beam to marked position on posts using 5" half clamps, 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts, as shown.
- 5) Attach cables to attachment clamps using cable covers and 5/16" x 1/2" BHCS w/pin. Refer to the Attachment Clamp Detail.
- 6) Attach attachment clamps to posts using 5" half clamps, 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts. Refer to the Attachment Clamp Details.
- 7) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Offset Hanger Clamp Spec Sheet.
- 8) Install protective surfacing before users are allowed to play on the structure.

DETAIL 3-SIDED HUB ASSEMBLY

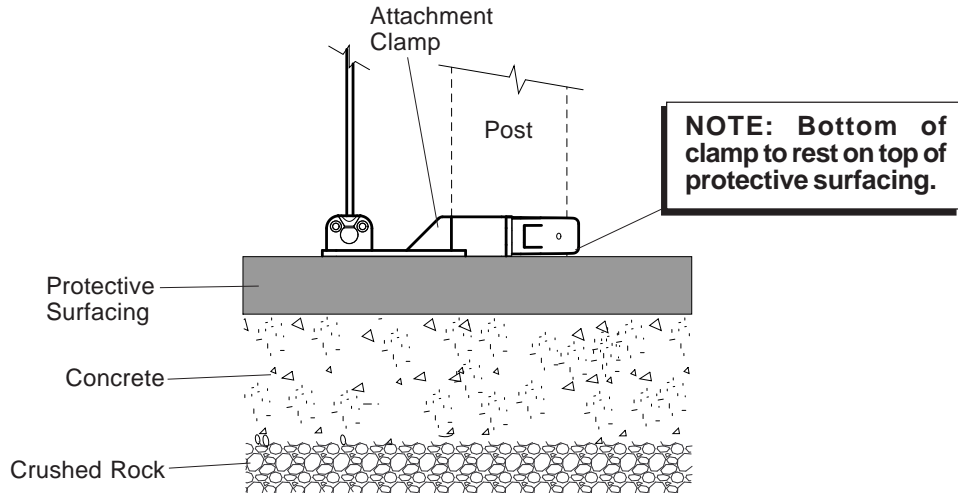


NOTE:
Proper seating of ball in Hub/Cover is important. Hub/Cover must be tight against mating part.

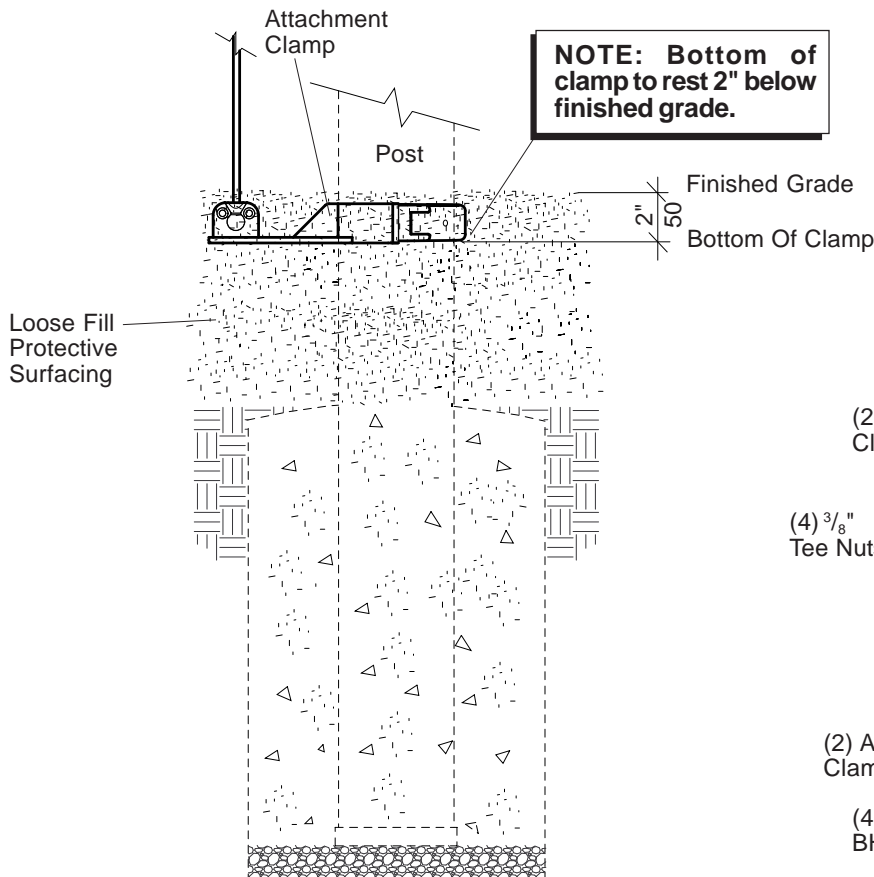
DETAIL CABLE ATTACHMENT



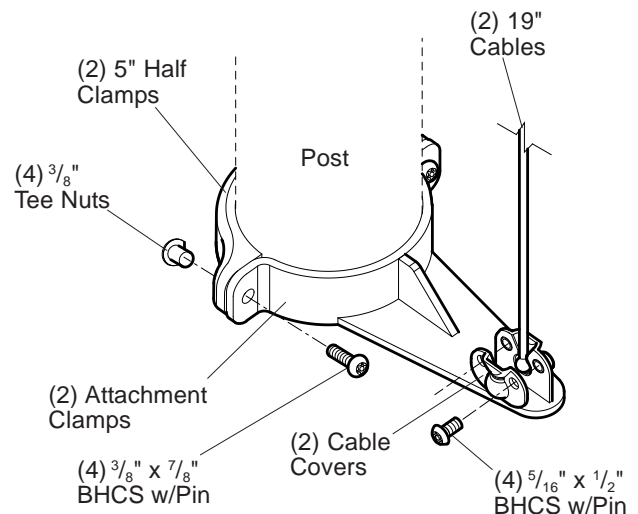
DETAIL SURFACE MOUNT



DETAIL DIRECT BURY



DETAIL ATTACHMENT CLAMP



Parts List

Part#	Description	Qty.
152391	Climber Plank 48"/56", Specify Color	1
122130	Climber Plank 64"/72", Specify Color	1
165144	Upper Bracket, Specify Color	1
139563	Handhold Panel, Specify Color	2
122122	Climber Bracket, Specify Color	1
113729	Offset Hanger Clamp, Specify Color	2
105327	5" Half Clamp, Specify Color	4
122776	Spacer Panel, Specify Color	1
165147	121 1/4" Cable, (48" Deck)	1
165148	125" Cable, (56" Deck)	1
165149	140" Cable, (64" Deck)	1
165150	143" Cable, (72" Deck)	1
165145	Footer (DB), Specify Color	1
165146	Footer (SM), Specify Color	1
113468	Spacer Tube, Specify Color	2
Multiple *	Climber Assembly 48"/56"	1
122204	Climber Step, Specify Color	9
122595	Step Base, Specify Color	3
175695	48"/56" Cliff Hardware Package	1
123224	3/8" x 1 11/16" BHCS w/Pin, SST	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
113027	3/8" x 1 3/8" BHCS w/Pin, SST	18
100327	3/8" Standard Hex Nut, SST	6
100353	3/8" Flange Nut w/Pin, SST	18
100365	3/8" SAE Flat Washer, SST	28
Multiple *	Climber Assembly 64"/72"	1
122204	Climber Step, Specify Color	12
122595	Step Base, Specify Color	4
175696	64"/72" Cliff Hardware Package	1
123224	3/8" x 1 11/16" BHCS w/Pin, SST	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
113027	3/8" x 1 3/8" BHCS w/Pin, SST	24
100327	3/8" Standard Hex Nut, SST	6
100353	3/8" Flange Nut w/Pin, SST	24
100365	3/8" SAE Flat Washer, SST	34
175697	Cliff Climber Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100290	3/8" x 7/8" BHCS w/Pin Ltd. Thread Bolt, SST	2
127179	5/8" O.D. x 3/8" Bushing, SST	2
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
100196	3/8" x 7/8" BHCS w/Pin, SST	8
100351	3/8" Tee Nut, SST	8
100353	3/8" Flange Nut w/Pin, SST	6
100365	3/8" SAE Flat Washer, SST	4
100610	1/2" x 5/8" Drive Rivet AL/SST	4
111392	2 Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor	2
100322	1/2" Standard Hex Nut, SST	2
100363	1/2" Flat Washer, SST	2

* = See Your L.S.I. Representative For Part Number

DB=Direct Bury

SM=Surface Mount

Specifications

Climber Bracket:	Fabricated from formed 3/16" x 2" HR flat steel. Finish: ProShield®, color specified.
Climber Plank:	Flange formed from 11 GA (.120") sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" diameter holes. Finish: TenderTuff, color specified.
Footer:	Weldment comprised of 1.660" O.D. RS-20 (.085"-.095") galvanized steel tubing and 3/16" x 2" HR flat steel. Finish: ProShield, color specified.
Upper Bracket:	Weldment comprised of formed 1.660" O.D. RS-20 (.085"-.095") galvanized steel tubing and 1/4" x 1 3/4" wide steel half clamps. Finish: ProShield, color specified.
Climber Step/Step Base/Panels:	Solid color Permalene®, color specified.
Cable:	Made of tightly woven, polyester-wrapped, six stranded galvanized-steel cable with a polypropylene core. Connector fabricated from 1.250" O.D. 6061-T6 aluminum.

Specifications are subject to change without notice.

Offset Hanger

Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners are socketed and pinned tamper-proof in design, either stainless steel (SST) or carbon steel plated with zinc/nickel and iridescent chromate finish.

Installation Time: SM - Approx. 2 man hours
DB - Approx. 2 1/2 man hours

Concrete Req.: Approx. 2 cu. ft.

Area Req.: 6' / 1.83 m minimum use zone at exit

Weight: 48" & 56" - 138 lbs.

64" & 72" - 155 lbs.

Fall Height: Deck Height

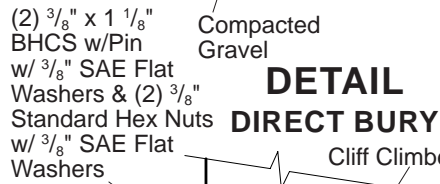
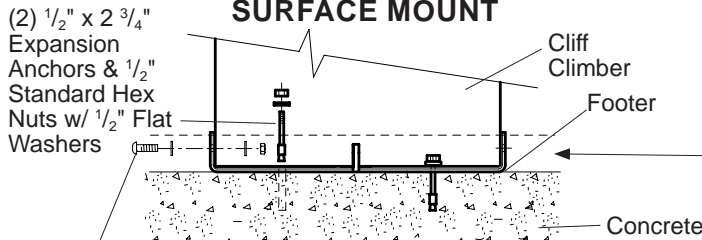
Installation Instructions

- 1) Dig footing holes spaced as shown.
- 2) Attach upper bracket to posts at height shown using 5" half clamps, 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts.
- 3) Attach handhold panel to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. See Detail.
- 4) Attach offset hanger clamp assemblies to posts at height shown. Using half clamps and 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.
- 5) Attach handhold panel to offset hanger clamp assemblies using 3/8" x 3 3/4" BHCS w/pin, spacer tubes and 3/8" flange nuts w/pin. See Panel Attachment Detail.
- 6) Attach step base and climber steps to the climber plank using 3/8" x 1 3/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Refer to the Step Attachment Detail.
- 7) Attach footer to climber plank and climber plank to climber bracket using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to the Plank Attachment Detail.
- 8) Attach climber bracket to the face of the deck using spacer panel, 3/8" x 1 11/16" BHCS w/pin and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to the Plank Attachment Detail.
- 9) Attach cable to upper bracket, using 5/8" O.D. x 3/8" bushing and 3/8" x 7/8" BHCS w/pin limited thread. Refer to the Cable/Bracket Attachment Detail.
- 10) Attach cable to the bottom of the climber plank, using 5/8" O.D. x 3/8" bushing and 3/8" x 7/8" BHCS w/pin limited thread. Refer to the Cable/Plank Attachment Detail.
- 11) **(Direct Bury)** With cliff climber in final position, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) Mark anchor bolt locations on concrete slab through holes in footer and remove challenge climber from climber bracket. Drill 1/2" x 3" deep holes on marks into concrete using hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Reposition challenge climber and reattach to the climber bracket. Fasten footer to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.

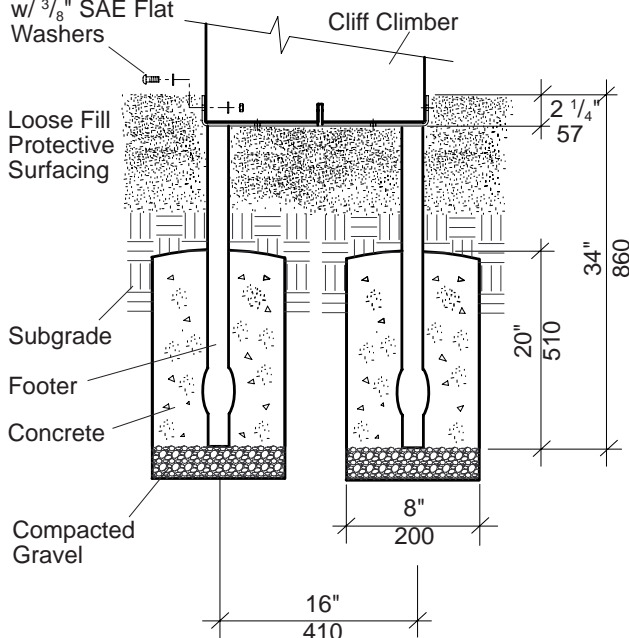
- 12) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 13) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
SURFACE MOUNT**

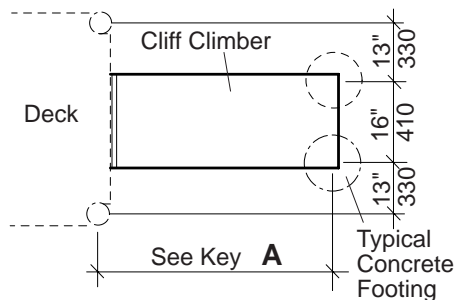


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

**DETAIL
DIRECT BURY**

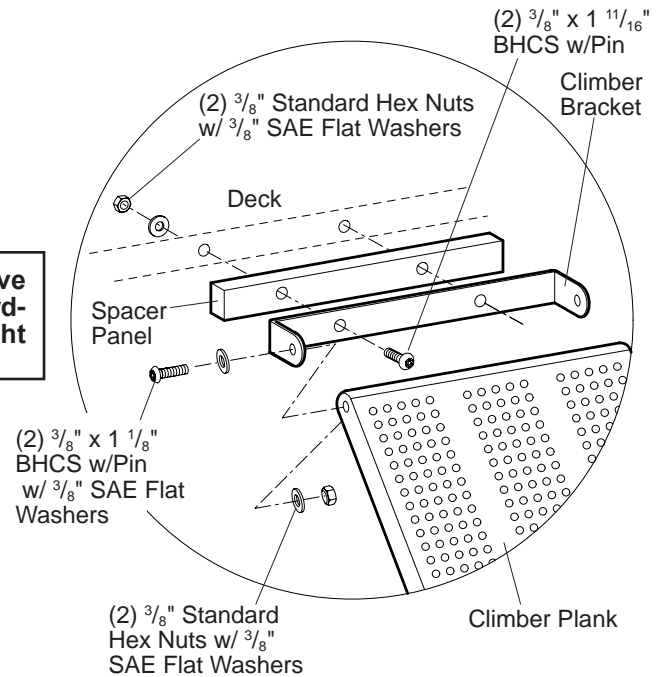


PLAN VIEW/DB FOOTING LAYOUT

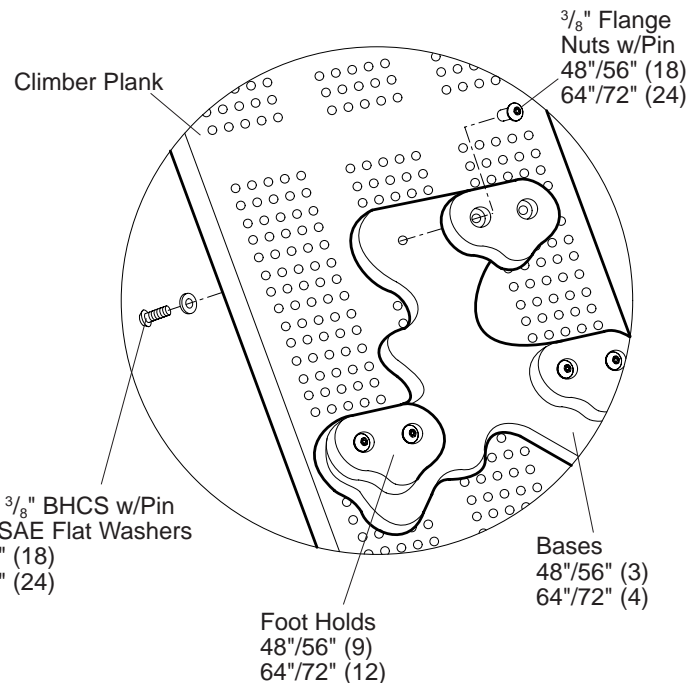


KEY Height	Dimension "A"	Angle "B"
Off 48" / 1220 Deck	48" / 1220	50°
Off 56" / 1490 Deck	37" / 940	60°
Off 64" / 1630 Deck	58" / 1470	50°
Off 72" / 1830 Deck	47" / 1190	60°

**DETAIL
PLANK ATTACHMENT**

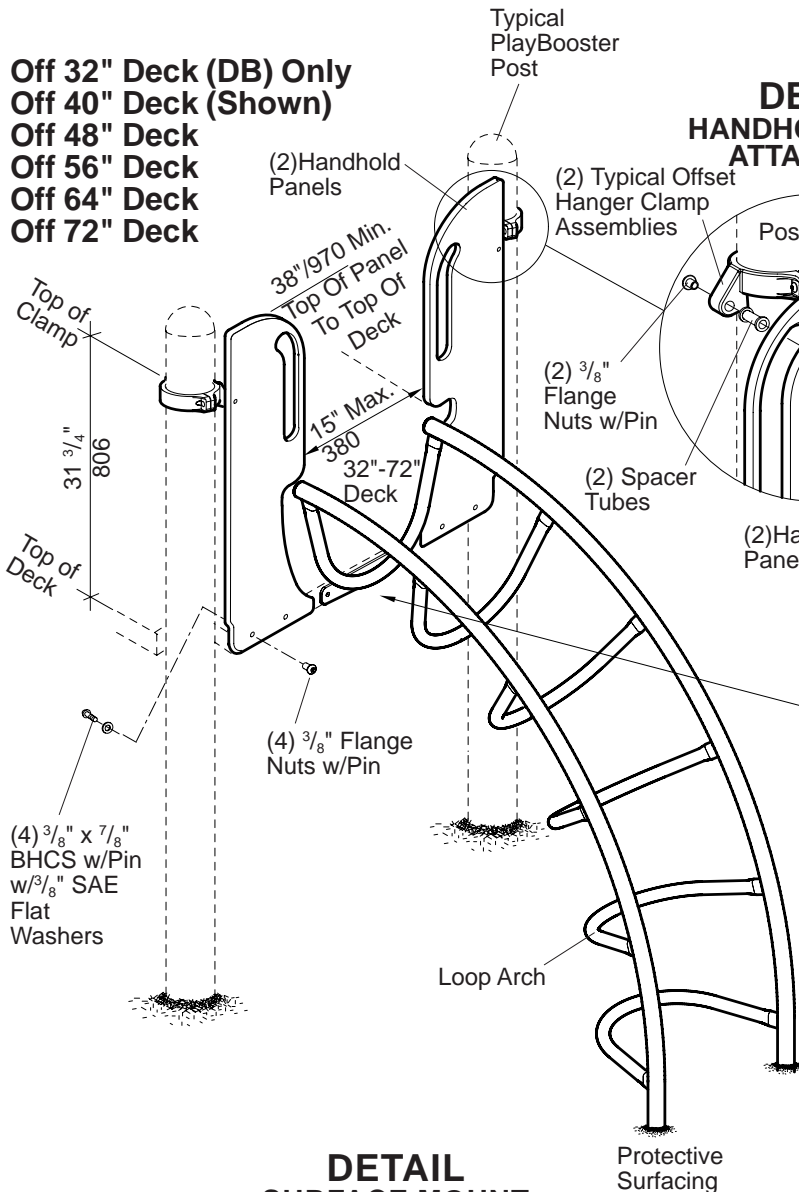


**DETAIL
FOOT HOLD ATTACHMENT**

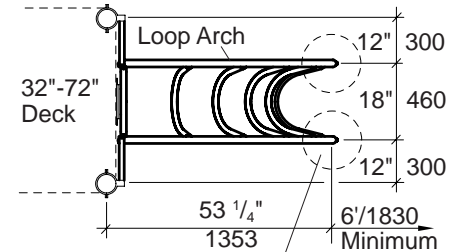
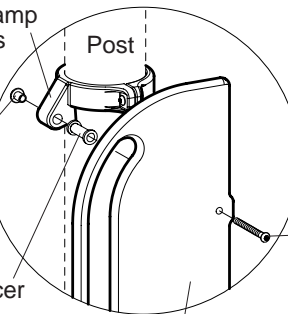


PLAN VIEW/FOOTING LAYOUT

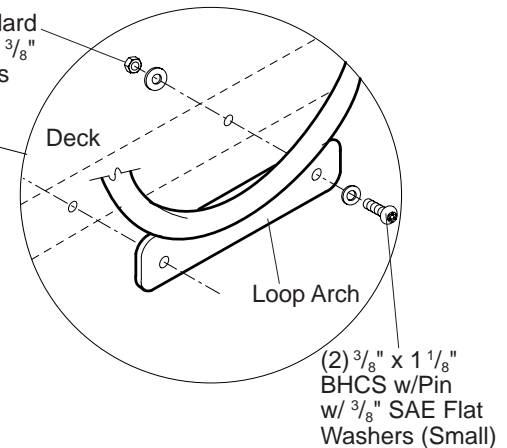
Off 32" Deck (DB) Only
Off 40" Deck (Shown)
Off 48" Deck
Off 56" Deck
Off 64" Deck
Off 72" Deck



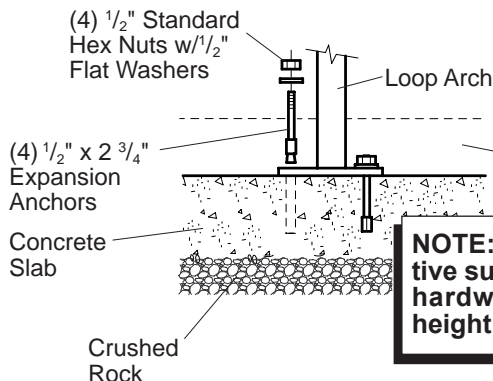
DETAIL HANDHOLD PANEL ATTACHMENT



DETAIL DECK ATTACHMENT

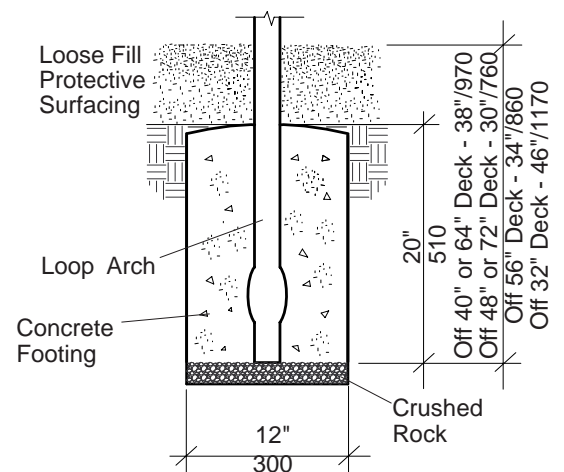


DETAIL SURFACE MOUNT



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

DETAIL DIRECT BURY



Parts List

Part#	Description	Qty.
139561	Handhold Panel, Specify Color	2
111595	32", 40" & 48" Loop Arch (DB), Specify Color	1
111596	56" Loop Arch (DB), Specify Color	1
111597	64" & 72" Loop Arch (DB), Specify Color	1
111598	40" Loop Arch (SM), Specify Color	1
111599	48" Loop Arch (SM), Specify Color	1
111600	56" Loop Arch (SM), Specify Color	1
111601	64" Loop Arch (SM), Specify Color	1
111602	72" Loop Arch (SM), Specify Color	1
105327	5" Half Clamp, Specify Clamp	2
113729	Offset Hanger Clamp, Specify Color	2
113468	Spacer Tube, Specify Color	2
211597	Loop Arch (Tenderdeck) Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	2
100327	3/8" Standard Hex Nut, SST	2
100362	3/8" Flat Washer, SST	2
100365	3/8" SAE Flat Washer, SST	2
139551	Handhold (Tenderdeck) Hardware Package	1
124460	3/8" x 3 3/4" BHCS w/Pin, SST	2
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	6
100365	3/8" SAE Flat Washer, SST	4
121348	4 Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor	4
100322	1/2" Standard Hex Nut, SST	4
100363	1/2" Flat Washer, SST	4
DB = Direct Bury		
SM = Surface Mount		

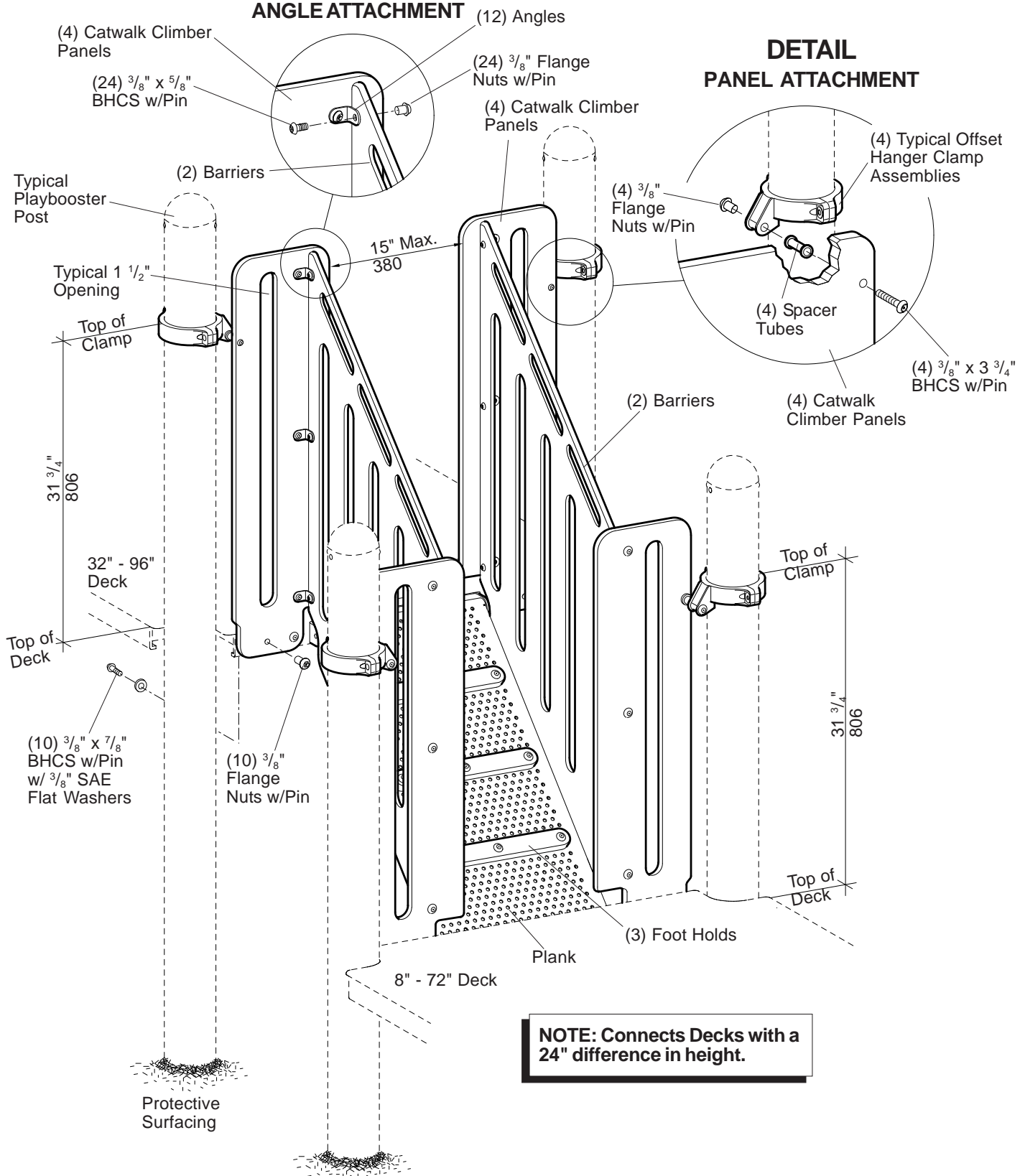
Specifications

Loop Arch:	Weldment comprised of 1.660 O.D. RS-20 (.085" - .095") galvanized steel tubing, 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing and 1/4" flat steel. Finish: ProShield®, color specified.
Handhold Panel:	Solid color Permalene®, color specified.
Spacer Tube:	Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". Finish: ProShield, color specified.
Offset Hanger Clamp Assembly:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	SM - Approx. 1 1/2 man hours DB - Approx. 2 1/2 man hours
Concrete Req.:	Approx. 2.6 cu. ft.
Weight:	32", 40" & 48" - 85 lbs. 56" - 91 lbs. 64" & 72" - 97 lbs.
Fall Height:	Deck Height

Installation Instructions

- 1) **(Direct Bury)** Dig footing holes spaced as shown.
 - 2) Attach loop arch to deck using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers (small) and 3/8" standard hex nuts with 3/8" flat washers (large).
 - 3) Attach handhold panels to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin.
 - 4) Attach offset hanger clamps to posts at heights shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
 - 5) Attach handhold panels to the offset hanger clamp assemblies using 3/8" x 3 3/4" BHCS w/pin, spacer tubes and 3/8" flange nuts w/pin. Refer to the Handhold Panel Attachment Detail.
 - 6) **(Direct Bury)** With loop arch in final position, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.
- (Surface Mount)** Mark anchor bolt locations on concrete slab through holes in anchor plate and remove loop arch. Drill 1/2" x 3" deep holes on marks into concrete using hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Reposition loop arch and reattach to the face of the deck following step 2. Fasten anchor plates to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.
- 7) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
ANGLE ATTACHMENT**



Parts List

Part#	Description	Qty.
128292	Plank, Specify Color	1
128302	Foot Hold, Specify Color	3
141224	Catwalk Climber Panel, Specify Color	4
141225	Catwalk Climber Barrier, Specify Color	2
122122	Bracket, Specify Color	2
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
113468	Spacer Tube, Specify Color	4
141480	Catwalk Climber Hardware Package	1
100195	3/8" x 5/8" BHCS w/Pin, SST	24
100196	3/8" x 7/8" BHCS w/Pin, SST	23
100198	3/8" x 1 1/8" BHCS w/Pin, SST	12
100327	3/8" Standard Hex Nut, SST	8
100351	3/8" Tee Nut, SST	8
100353	3/8" Flange Nut w/Pin, SST	47
100365	3/8" SAE Flat Washer, SST	31
105207	1/8" x 1 1/2" x 1 1/2" Angle, SST	12
124460	3/8" x 3 3/4" BHCS w/Pin, SST	4

Specifications

Plank: Flange formed from 11 GA (.120") sheet steel conforming to ASTM A1011. Standing surface is perforated with 1/4" diameter holes. Finish: TenderTuff, color specified.

Foot Hold: Solid color Permalene®, color specified.

Panel/Barrier: Solid color Permalene, color specified.

Bracket: Fabricated form formed 3/16" x 2" HR flat steel. Finish: ProShield®, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". Finish: ProShield, color specified.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

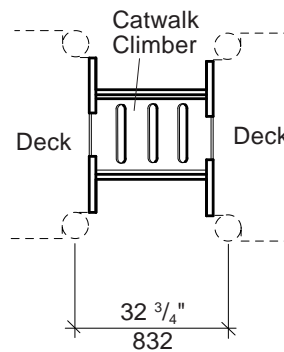
Installation Time: Approx. 2 1/2 man hours

Weight: 112 lbs.

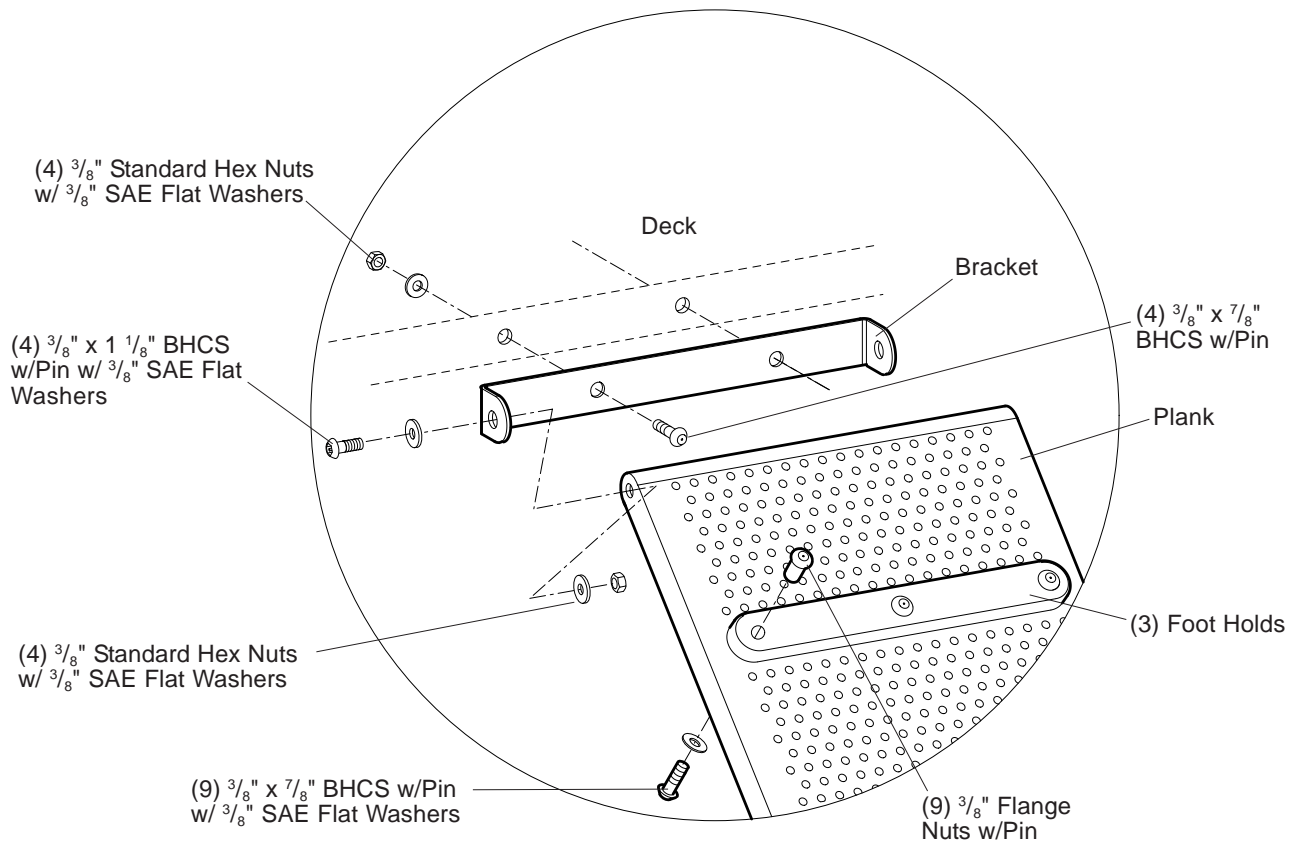
Installation Instructions

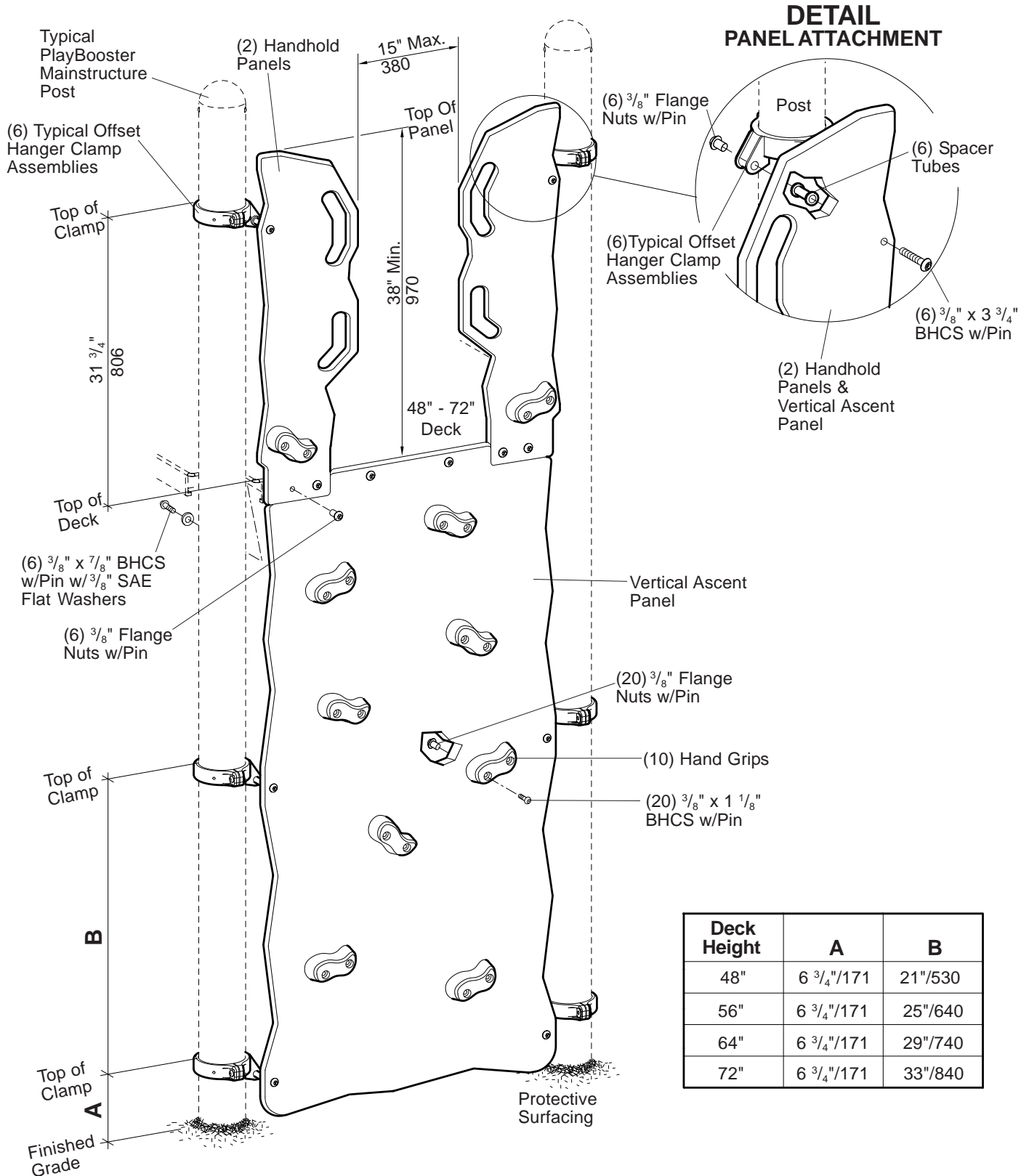
- 1) Attach Catwalk Climber panels to the face of the deck using 3/8" x 7/8" BHCS w/Pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin, as shown.
- 2) Attach offset hanger clamps to posts at height shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/Pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 3) Attach Catwalk Climber panels to the offset hanger clamp assemblies using 3/8" x 3 3/4" BHCS w/Pin, spacer tubes and 3/8" flange nuts w/pin. Refer to the Panel Attachment Detail.
- 4) Attach foot holds to the plank using 3/8" x 7/8" BHCS w/Pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Refer to the Plank Attachment Detail.
- 5) Attach brackets to the face of the decks using 3/8" x 7/8" BHCS w/Pin and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to the Plank Attachment Detail.
- 6) Attach the plank to the brackets using 3/8" x 1 1/8" BHCS w/Pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers.
- 7) Attach barriers to the Catwalk Climber panels using angles, 3/8" x 5/8" BHCS w/Pin and 3/8" flange nuts w/pin, as shown. Refer to the Angle Attachment Detail.
- 8) Attach barriers to plank using 3/8" x 7/8" BHCS w/Pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin.
- 9) Install protective surfacing before users are allowed to play on the structure.

PLAN VIEW/FOOTING LAYOUT



DETAIL PLANK ATTACHMENT





Deck Height	A	B
48"	6 $\frac{3}{4}$ "/171	21"/530
56"	6 $\frac{3}{4}$ "/171	25"/640
64"	6 $\frac{3}{4}$ "/171	29"/740
72"	6 $\frac{3}{4}$ "/171	33"/840

PlayBooster®

145624 Vertical Ascent®, 48"-72"

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #18298100

Parts List

Part#	Description	Qty.
182957	Vertical Ascent Handhold Panel, Specify Color.....	2
145597	Vertical Ascent Panel, 48" Deck, Specify Color	1
145596	Vertical Ascent Panel, 56" Deck, Specify Color	1
145595	Vertical Ascent Panel, 64" Deck, Specify Color	1
145585	Vertical Ascent Panel, 72" Deck, Specify Color	1
105327	5" Half Clamp, Specify Color	6
113729	Offset Hanger Clamp, Specify Color	6
113468	Spacer Tube, Specify Color	6
100610	1/4" x 5/8" Drive Rivet, AL/SST	6
145792	Hand Grip Set	1
143110	Hand Grip, Blue	2
143110	Hand Grip, Yellow	2
143110	Hand Grip, Red	3
143110	Hand Grip, Green	3
145616	Vertical Ascent Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	6
100198	3/8" x 1 1/8" BHCS w/Pin, SST	32
100351	3/8" Tee Nut, SST	12
100353	3/8" Flange Nut w/Pin, SST	32
100365	3/8" SAE Flat Washer, SST	6
124460	3/8" x 3 3/4" BHCS w/Pin, SST	6

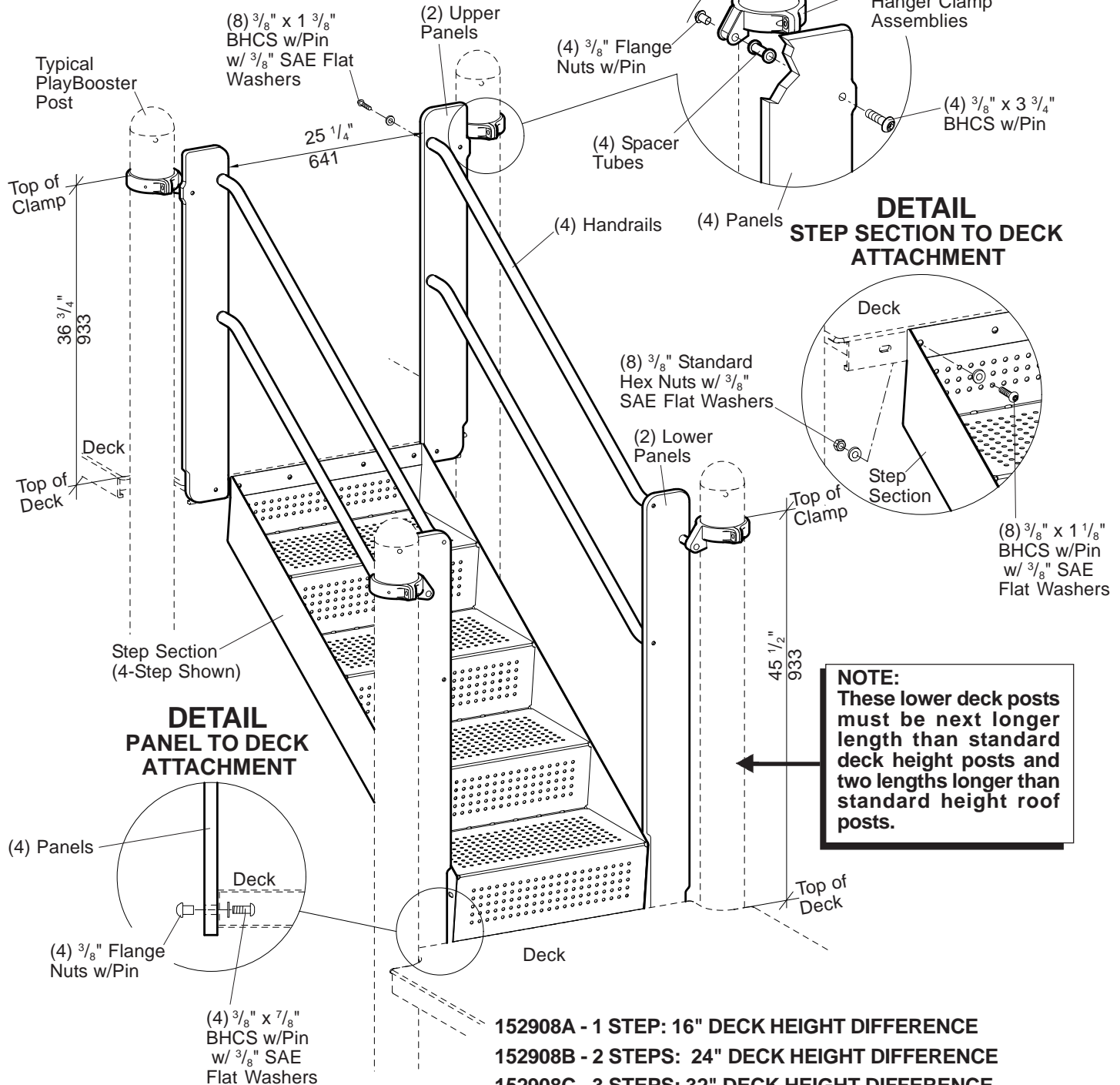
Specifications

Hand Grip:	Made from Polyester Resin. Hand Grips measure approx. 5 3/4" long x 2 1/4" wide x 1 3/4" high.
Panels:	Solid color Permalene®, color specified.
Spacer Tube:	Made from 6061-T6 aluminum 7/8" O.D. Finish: ProShield®, color specified.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 2 man hours
Weight:	48" Deck Height - 83 lbs. 56" Deck Height - 91 lbs. 64" Deck Height - 99 lbs. 72" Deck Height - 106 lbs.
Fall Height:	53 1/2"/1358 (48" Deck Height) 61 1/2"/1562 (56" Deck Height) 69 1/2"/1765 (64" Deck Height) 77 1/2"/1968 (72" Deck Height)

Installation Instructions

- 1) Attach handhold panels and vertical ascent panel to deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin, as shown.
- 2) Attach handhold panels and vertical ascent panel to offset hanger clamps using 3/8" x 3 3/4" BHCS w/pin, spacer tubes and 3/8" flange nuts w/pin. Refer to the Panel Attachment Detail.
- 3) Attach offset hanger clamps to posts at heights shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 4) Attach hand grips to handhold panels and vertical ascent panel using 3/8" x 1 1/8" BHCS w/pin and 3/8" flange nuts w/pin, as shown.
- 5) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
PANEL TO CLAMP
ATTACHMENT**



- 152908A - 1 STEP: 16" DECK HEIGHT DIFFERENCE**
152908B - 2 STEPS: 24" DECK HEIGHT DIFFERENCE
152908C - 3 STEPS: 32" DECK HEIGHT DIFFERENCE
152908D - 4 STEPS: 40" DECK HEIGHT DIFFERENCE

Parts List

Part#	Description	Qty.
144696	1-Step Section, Specify Color	1
144698	2-Step Section, Specify Color	1
144700	3-Step Section, Specify Color	1
144702	4-Step Section, Specify Color	1
144704	1-Step Handrail, Specify Color	4
144706	2-Step Handrail, Specify Color	4
144708	3-Step Handrail, Specify Color	4
144710	4-Step Handrail, Specify Color	4
144712	Lower Panel, Specify Color	2
144711	Upper Panel, Specify Color	2
113468	Spacer Tube, Specify Color	4
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
156286	Deck Link/Handrail Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	16
100327	3/8" Standard Hex Nut, SST	8
100351	3/8" Tee Nut, SST	8
100353	3/8" Flange Nut w/Pin, SST	8
100365	3/8" SAE Flat Washer, SST	28
113027	3/8" x 1 3/8" BHCS w/Pin, SST	8
124460	3/8" x 3 3/4" BHCS, SST	4

Specifications

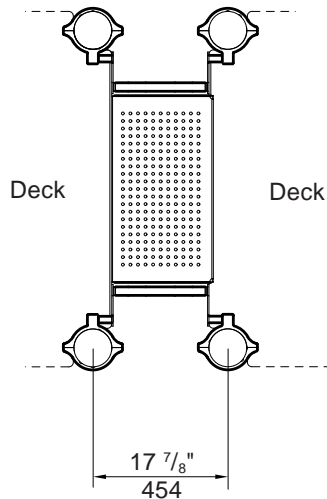
Panels:	Solid color Permalene®, color specified.
Handrail:	Weldment comprised of formed 1 1/8" O.D. x 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts with 3/8" internal threads. Finish: TenderTuff, color specified.
Step Sections:	Formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is 24 3/8" wide x 14" deep and is perforated with 5/16" diameter holes. Finish: TenderTuff, color specified.
Spacer Tube:	Made from 6061-T6 aluminum 7/8" O.D. x 1 11/16". Finish: ProShield®, color specified.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 1 1/2 man hours
Weight:	1-Step - 95 lbs. 2-Step - 129 lbs. 3-Step - 165 lbs. 4-Step - 201 lbs.
Fall Height:	Deck Height

Installation Instructions

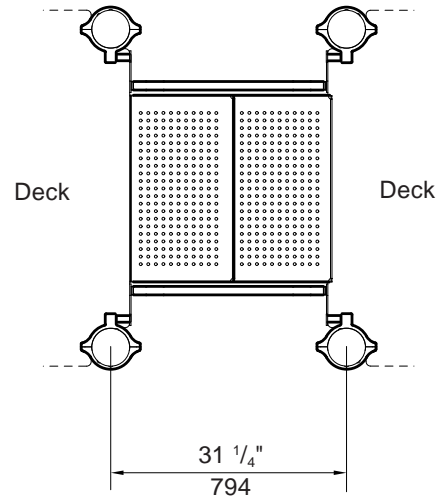
- 1) Attach step section to decks using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers, as shown. Refer to the Step Section To Deck Attachment Detail.
- 2) Attach upper and lower panels to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Refer to the Panel to Deck Attachment Detail.
- 3) Attach offset hanger clamps to posts at heights shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 4) Attach upper and lower panels to offset hanger clamps using 3/8" x 3 1/4" BHCS, spacer tubes and 3/8" flange nuts w/pin. Refer to the Panel To Clamp Attachment Detail.
- 5) Attach handrails to upper and lower panels using 3/8" x 1 3/8" BHCS w/pin and 3/8" SAE flat washers, as shown.
- 6) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 7) Install protective surfacing before users are allowed to play on the structure.

PLAN VIEW/FOOTING LAYOUTS

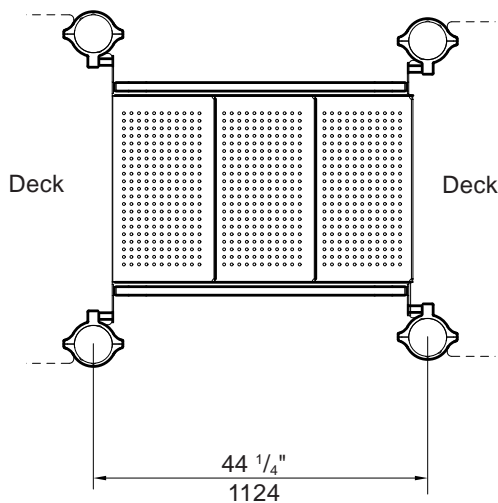
FOOTINGS/ 1-STEP



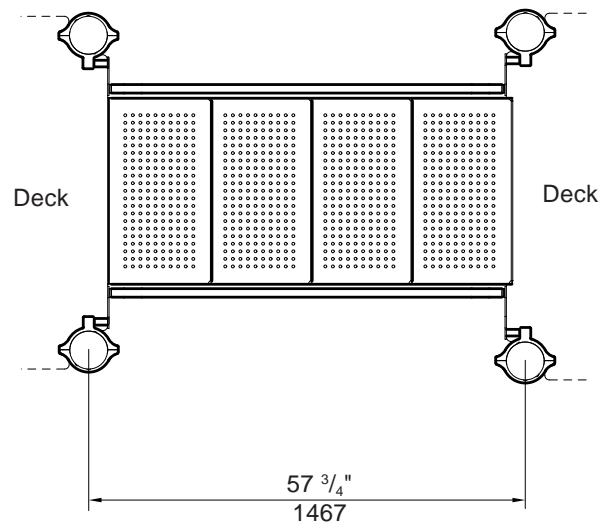
FOOTINGS/ 2-STEP

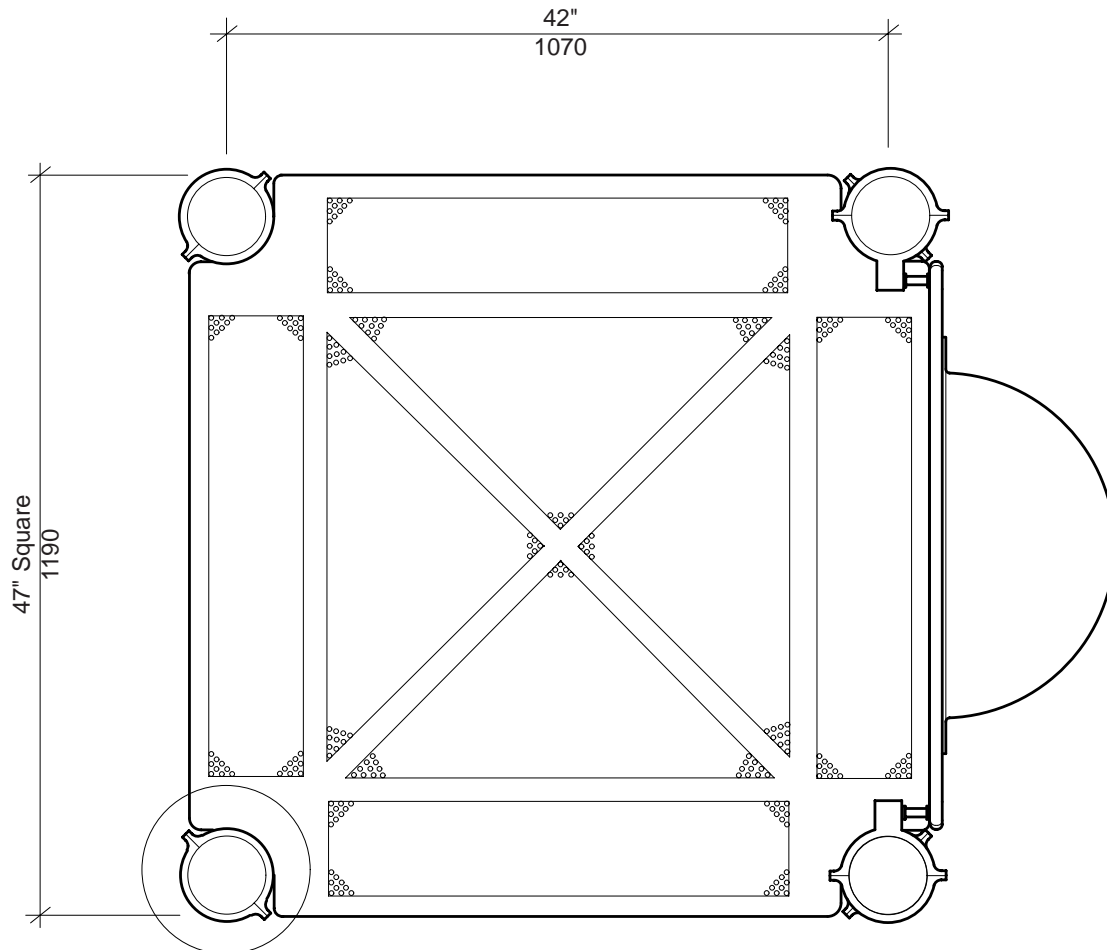


FOOTINGS/ 3-STEP



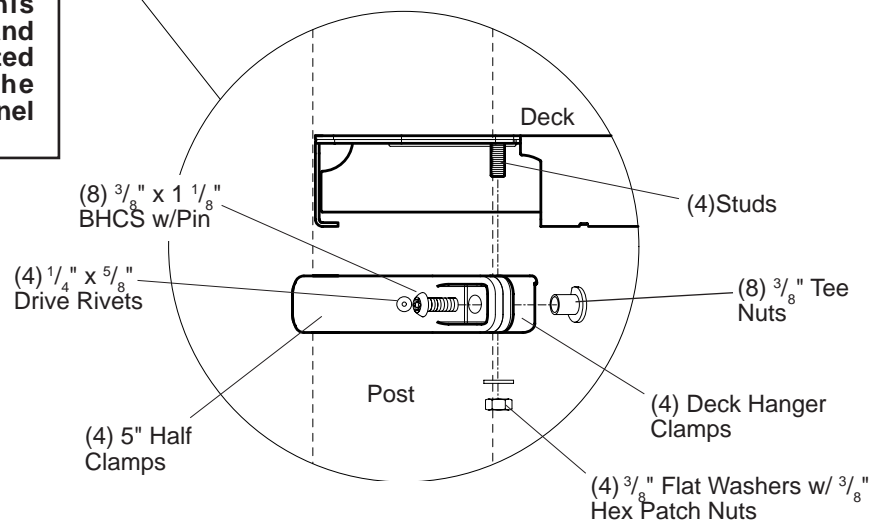
FOOTINGS/ 4-STEP





**DETAIL
DECK HANGER CLAMP**

NOTE: When using this deck, ALL enclosures and components are mounted on the OUTSIDE of the posts like the bubble panel shown above.



Parts List

Part#	Description	Qty.
145656	Tenderdeck, Specify Color	1
105327	5" Half Clamp, Specify Color	4
106022	5" Deck Hanger Clamp, Specify Color	4
119491	Hardware Package	1
100198	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	8
100321	$\frac{3}{8}$ " Hex Patch Nut, SST.....	4
100351	$\frac{3}{8}$ " Tee Nut, SST.....	8
100362	$\frac{3}{8}$ " Flat Washer, SST	4
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, SST	4

Specifications

Square Deck: Flange formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is perforated with $\frac{5}{16}$ " diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 $\frac{5}{8}$ " x 47" x 47". Finish: TenderTuff™, color specified.

**Deck Hanger
Clamp Assembly:** Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

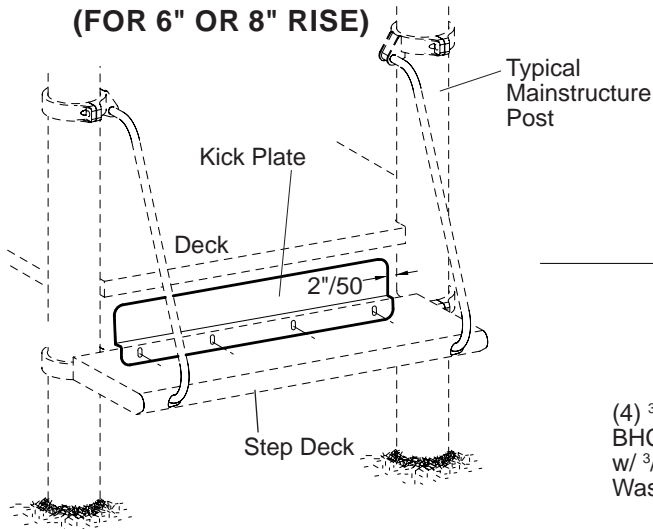
Installation Time: Approx. 1 man hour

Weight: 119 lbs.

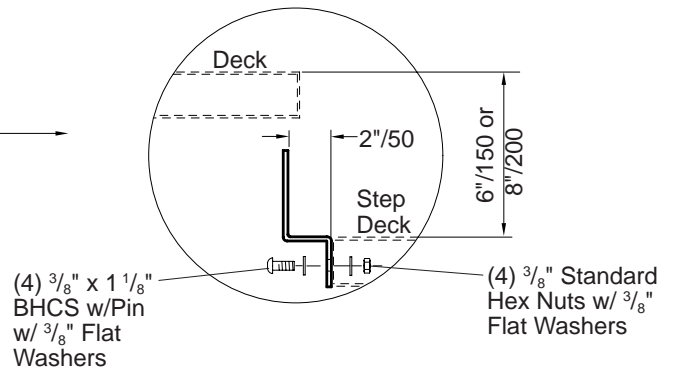
Installation Instructions

- 1) Mark posts for the appropriate height of the deck you are installing.
- 2) Fasten hanger clamps to marked position on posts. See Detail on front of sheet.
- 3) Lift deck into position, lining up studs underneath deck with deck hanger clamp as shown. Attach with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " hex patch nuts.
- 4) Level deck and plumb posts. Install the drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 5) After all enclosures/components are installed, pour concrete footings per the Typical Concrete Footing Detail Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.

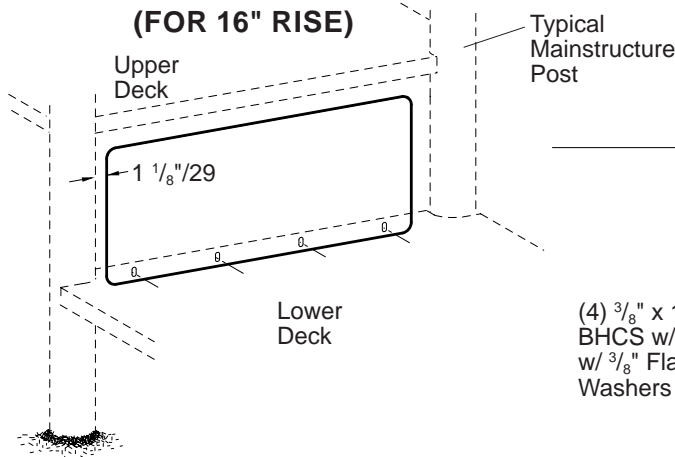
**KICK PLATE
(FOR 6" OR 8" RISE)**



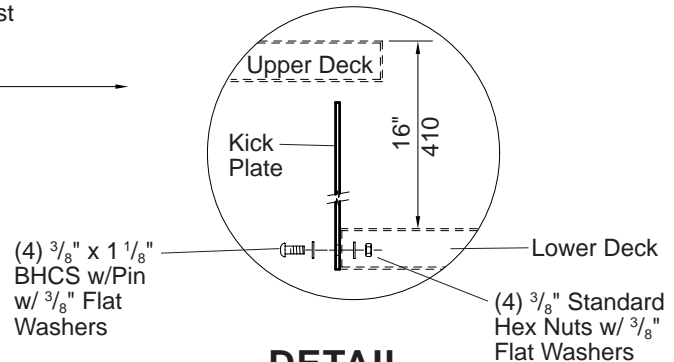
**DETAIL
KICK PLATE ATTACHMENT
(FOR 6" OR 8" RISE)**



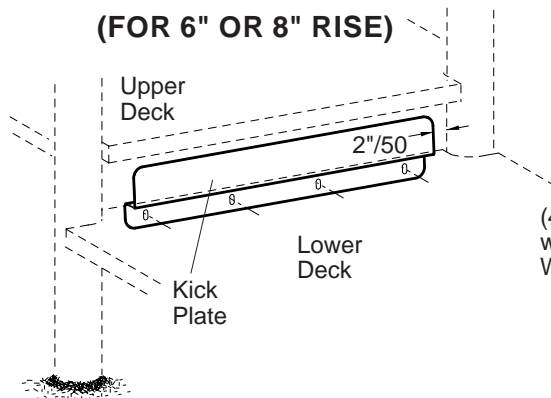
**KICK PLATE
(FOR 16" RISE)**



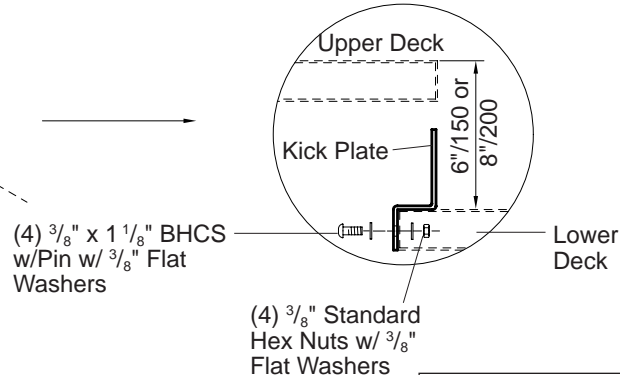
**DETAIL
KICK PLATE ATTACHMENT
(FOR 16" RISE)**



**KICK PLATE
(FOR 6" OR 8" RISE)**



**DETAIL
KICK PLATE ATTACHMENT
(FOR 6" OR 8" RISE)**



**NOTE: Kick Plates mount
to face of lower deck.**



PlayBooster® 121948 Kick Plates, Tenderdecks, 6", 8" & 16"

Parts List

Part#	Description	Qty.
121819	Kick Plate (For 6" or 8" Rise), Specify Color	1
121818	Kick Plate (For 16" Rise), Specify Color	1
156058	Kick Plate Tenderdeck Hardware Package	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	4
100327	$\frac{3}{8}$ " Standard Hex Nut, SST	4
100362	$\frac{3}{8}$ " Flat Washer, SST	8

Specifications

Kick Plate: Fabricated from 11 GA (.120") HR flat steel. Finish: TenderTuff™, brown or gray in color.

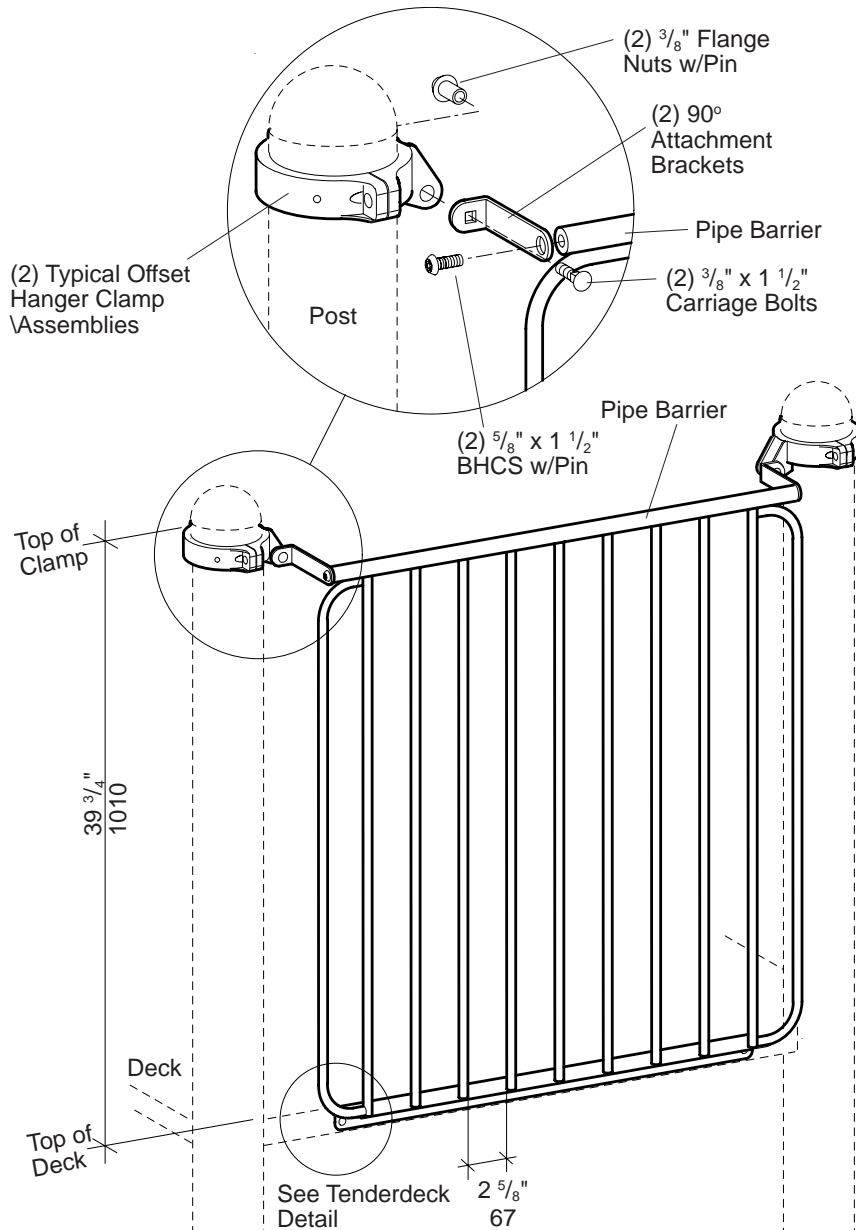
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. $\frac{1}{4}$ man hour
Weight: Kick Plate (For 6" or 8" Rise) 13 lbs.
Kick Plate (For 16" Rise) 23 lbs.

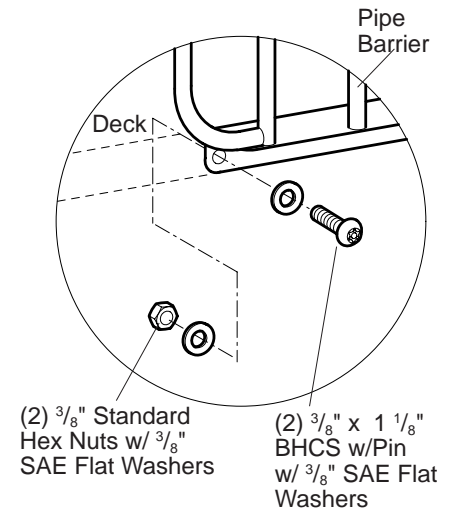
Installation Instructions

- 1) Locate kick plates as labeled on your plan drawing.
- 2) Attach kick plate using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " flat washers, as shown. **NOTE:** *Kick plates mount to face of lower deck.*
- 3) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
90° ATTACHMENT BRACKETS**



**DETAIL
TENDERDECKS**



DECK MOUNT

Parts List

Part#	Description	Qty.
ABOVE DECK		
132755	Pipe Barrier, Specify Color	1
128824	90° Attachment Bracket, Specify Color.....	2
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, AL/SST	2
132739	Barrier, Above Deck Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	6
100201	5/8" x 1 1/2" BHCS w/Pin, SST	2
100351	3/8" Tee Nut, SST.....	4
100353	3/8" Flange Nut w/Pin, SST.....	2
116017	3/8" x 1 1/2" Carriage Bolt w/Patch, SST.....	2
100327	3/8" Standard Hex Nut, SST	2
100365	3/8" SAE Flat Washer, SST.....	4
BELOW DECK		
132755	Pipe Barrier, Specify Color	1
128824	90° Attachment Bracket, Specify Color.....	2
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
113464	Angled Panel Bracket, Specify Color.....	1
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
132741	Barrier, Below Deck Hardware Package	1
116017	3/8" x 1 1/2" Carriage Bolt, SST	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100203	5/8" x 2 1/4" BHCS w/Pin, SST	2
100351	3/8" Tee Nut, SST.....	8
100201	5/8" x 1 1/2" BHCS w/Pin, SST	2
100327	3/8" Standard Hex Nut, SST	2
100365	3/8" SAE Flat Washer, SST.....	4
100353	3/8" Flange Nut w/Pin, SST	2

Specifications

Barrier:	Weldment comprised of 5/8" solid steel vertical rails, 1 1/8" O.D. x 11 GA (.120") steel horizontal rails with 203 or 303 stainless steel welded inserts with 5/8" internal threads, 1 1/2" x 1 1/2" x 29 1/2" angle iron. Barrier measures 33 7/8" wide x 39 13/16" high. Finish: TenderTuff™, color specified.
90° Bracket:	Formed from 1/4" x 1 1/4" HRPO flat steel. Finish: ProShield®, color specified.
Angled Panel Brkt.:	Weldment comprised of .190" thick 5052 aluminum formed angle with (2) 6061-T6 aluminum threaded tubes 1 1/8" O.D. x 1 1/2" long. Finish: ProShield, color specified.
Offset Hanger Clamp Assembly:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications)
Installation Time:	Approx. 1 man hour
Weight:	Above Deck 52 lbs. Below Deck 56 lbs.

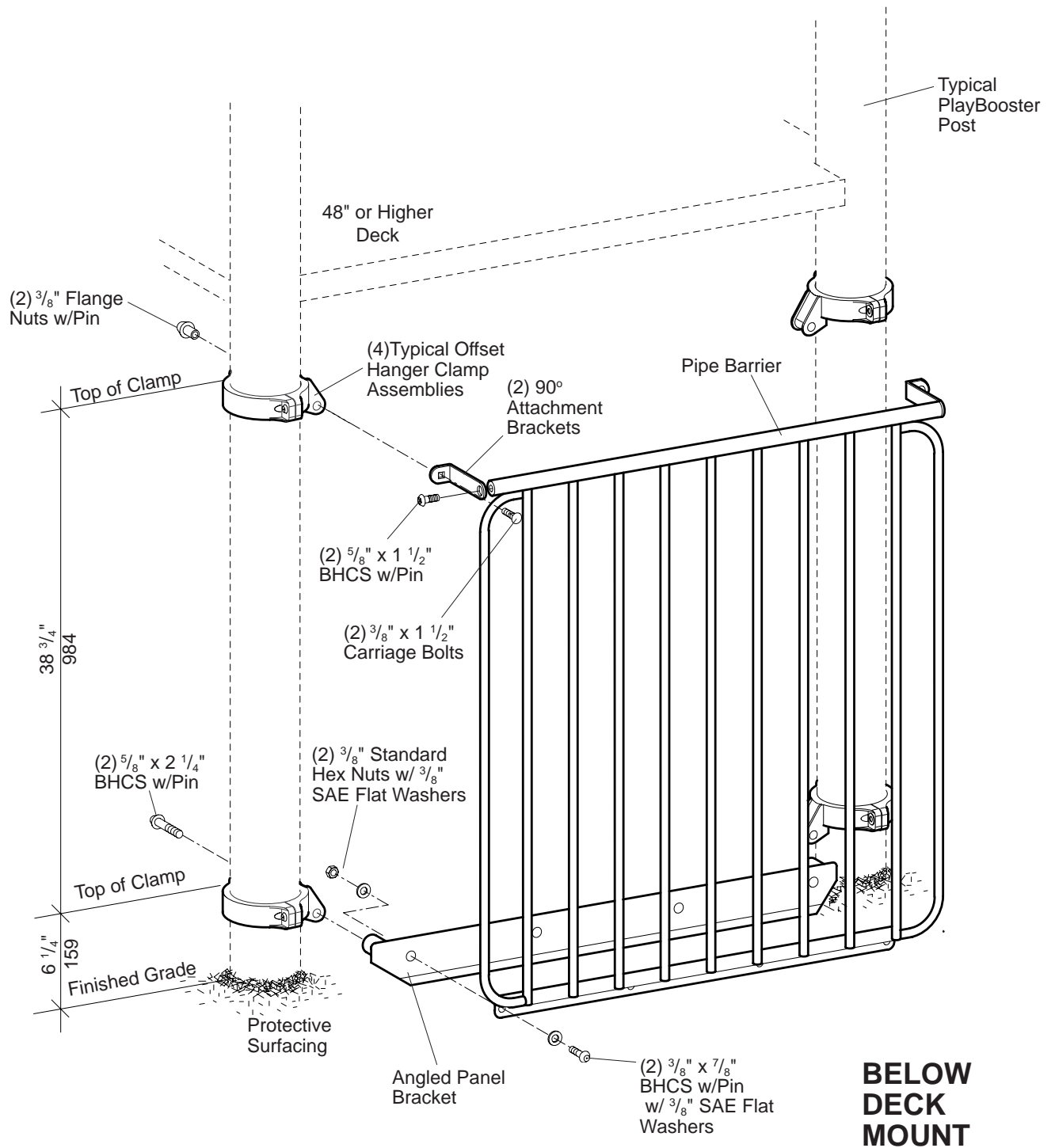
Installation Instructions

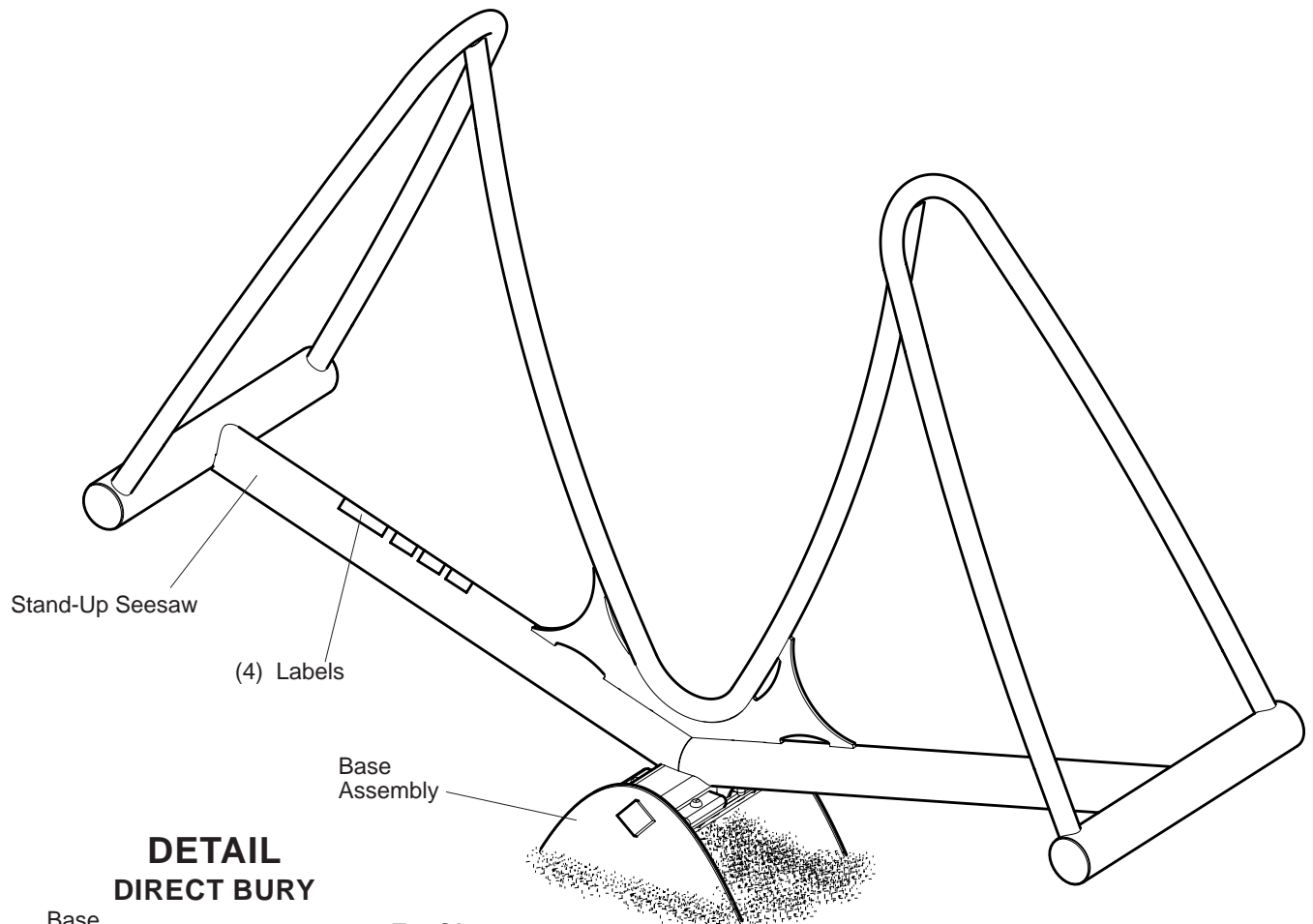
ABOVE DECK (See Sheet 1 of 2)

- 1) Attach pipe barrier to the face of the deck using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer To The Tenderdeck Detail..
- 2) Attach offset hanger clamps to posts at height shown, using 5" half clamps and 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.
- 3) Attach the 90° attachment brackets to pipe barrier using 5/8" x 1 1/2" BHCS w/pin. Refer To The 90° Attachment Bracket Detail.
- 4) Attach the 90° attachment brackets to the offset hanger clamps using 3/8" x 1 1/2" carriage bolts and 3/8" flange nuts w/pin. Refer To The 90° Attachment Bracket Detail.
- 5) Install protective surfacing before users are allowed to play on the structure.

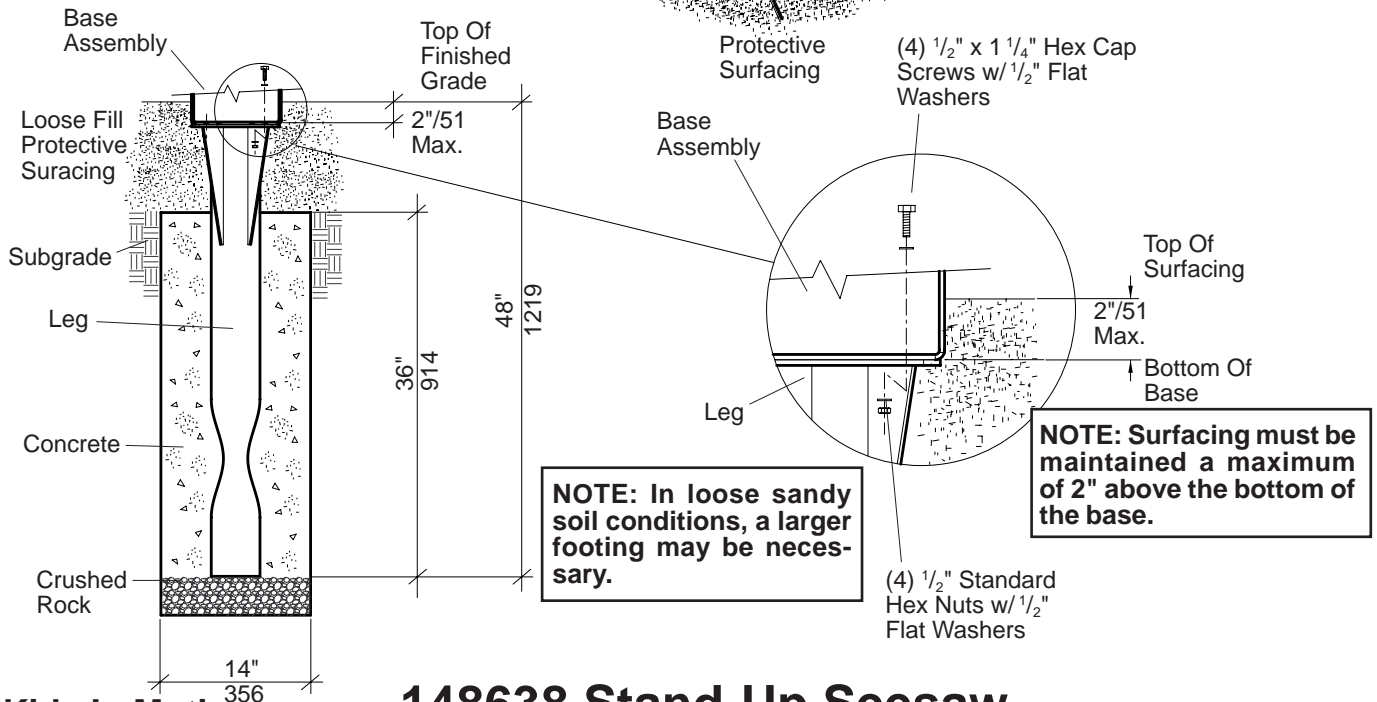
BELOW DECK (See Sheet 2 of 2)

- 1) Attach offset hanger assemblies to posts at height shown. Using 5" half clamps and 3/8" x 1 1/8" BHCS w/pin and with 3/8" tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.
- 2) Attach angled panel bracket to bottom of pipe barrier using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. See Below Deck Mount.
- 3) Attach angled panel bracket with pipe barrier to offset hanger clamp assemblies using 5/8" x 2 1/4" BHCS w/pin. See Below Deck Mount.
- 4) Attach the 90° attachment brackets to pipe barrier using 5/8" x 1 1/2" BHCS w/pin. Refer To The 90° Attachment Bracket Detail.
- 5) Attach the 90° attachment brackets to the offset hanger clamps using 3/8" x 1 1/2" carriage bolts and 3/8" flange nuts w/pin. Refer To The 90° Attachment Bracket Detail.
- 6) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec sheet.
- 7) Install protective surfacing before users are allowed to play on the structure.





**DETAIL
DIRECT BURY**



Parts List

Part#	Description	Qty.
148881	Leg, (DB) Specify Color	1
149304	Stand-Up Seesaw Assembly, Specify Color	1
208324	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/Pin Limited Thread, SST.....	8
100351	$\frac{3}{8}$ " T-Nut, SST.....	12
123224	$\frac{3}{8}$ " x 1 $\frac{1}{16}$ " BHCS w/Pin, SST.....	4
128296	$\frac{3}{8}$ " Hex Jam Nut, SST.....	12
147530	Pivot Assy., Specify Color.....	1
156257	Base Assy., Specify Color	1
219123	Torsion Half Clamp, Specify Color.....	1
185471	$\frac{9}{16}$ " O.D. Spacer, Aluminum	4
156370	Bolt Cover, Tan.....	4
149272	$\frac{3}{8}$ " D-Cut Flat Washer, SST.....	8
181001	1.125" O.D. x 5 $\frac{7}{8}$ " Lg. Polyurethane Rod	4
154164	Bushing.....	4
214491	Seesaw Extension Plate, Specify Color.....	2
184503	Seesaw Leg Hardware Package (DB)	1
100216	$\frac{1}{2}$ " x 1 $\frac{1}{4}$ " Hex Cap Screw, SST	4
100363	$\frac{1}{2}$ " Flat Washer, SST	8
156847	Play Safe Label 5-12 Years.....	1
182213	Hot Surface Warning Label	1
182212	Entanglement Warning Label	1
115176	Hard Surface Warning Label	1
129692	$\frac{1}{2}$ " Standard Hex Nut, SST/Patch	4
185403	Spring Animal Hardware Package (SM)	1
100262	$\frac{1}{2}$ " x 6" L-Anchors	4
100322	$\frac{1}{2}$ " Standard Hex Nut, SST	4
100363	$\frac{1}{2}$ " Flat Washer, SST	4
156847	Play Safe Label 5-12 Years.....	1
182213	Hot Surface Warning Label	1
182212	Entanglement Warning Label	1
115176	Hard Surface Warning Label	1

DB = Direct Bury
SM = Surface Mount

Specifications

Stand-Up Seesaw

Assembly: (Pivot Assembly) Weldment comprised of 1.315" O.D. RS20 (.080"-.090" wall) galvanized steel tube, 2.875" O.D. RS40 (.160"-.170" wall) galvanized steel tube, 12 Ga. (.105") sheet HRPO steel and $\frac{1}{4}$ " sheet HRPO steel. Finish: ProShield®, color specified.

(Base Assembly) Weldment comprised of $\frac{1}{4}$ " sheet HRPO steel and 2" SQ. HR steel bar. Finish: ProShield, color specified.

(Torsion Half Clamp) Fabricated from $\frac{1}{4}$ " sheet HRPO steel. Finish: ProShield, color specified.

(Extension Plate) $\frac{3}{8}$ " (9.52 mm) HRPO steel. Finish: ProShield, color specified.

(Polyurethane Rod) 1.125" O.D..

(Bolt Covers) ABS Polymer Thermoplastic, Tan in color.

(Bushings) Plastic (UHMW), Black in color.

Leg: Weldment comprised of 5.000" O.D. x 11 Ga. (.120") galvanized steel tube, $\frac{3}{8}$ " sheet HRPO steel and $\frac{3}{16}$ " sheet HRPO steel. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: DB - Approx. 2 man hours

SM - Approx. 2 man hours

Concrete Req.: DB - Approx. 3 cu. ft.

SM - Approx. 1.5 cu. ft. (existing concrete slab)

Weight: DB - 156 lbs.

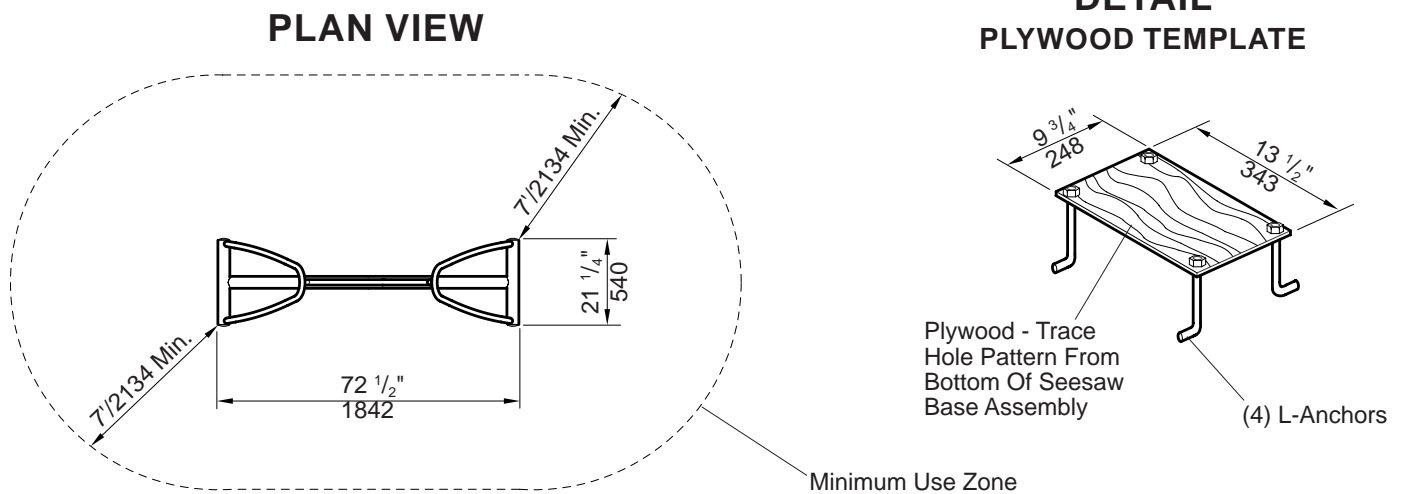
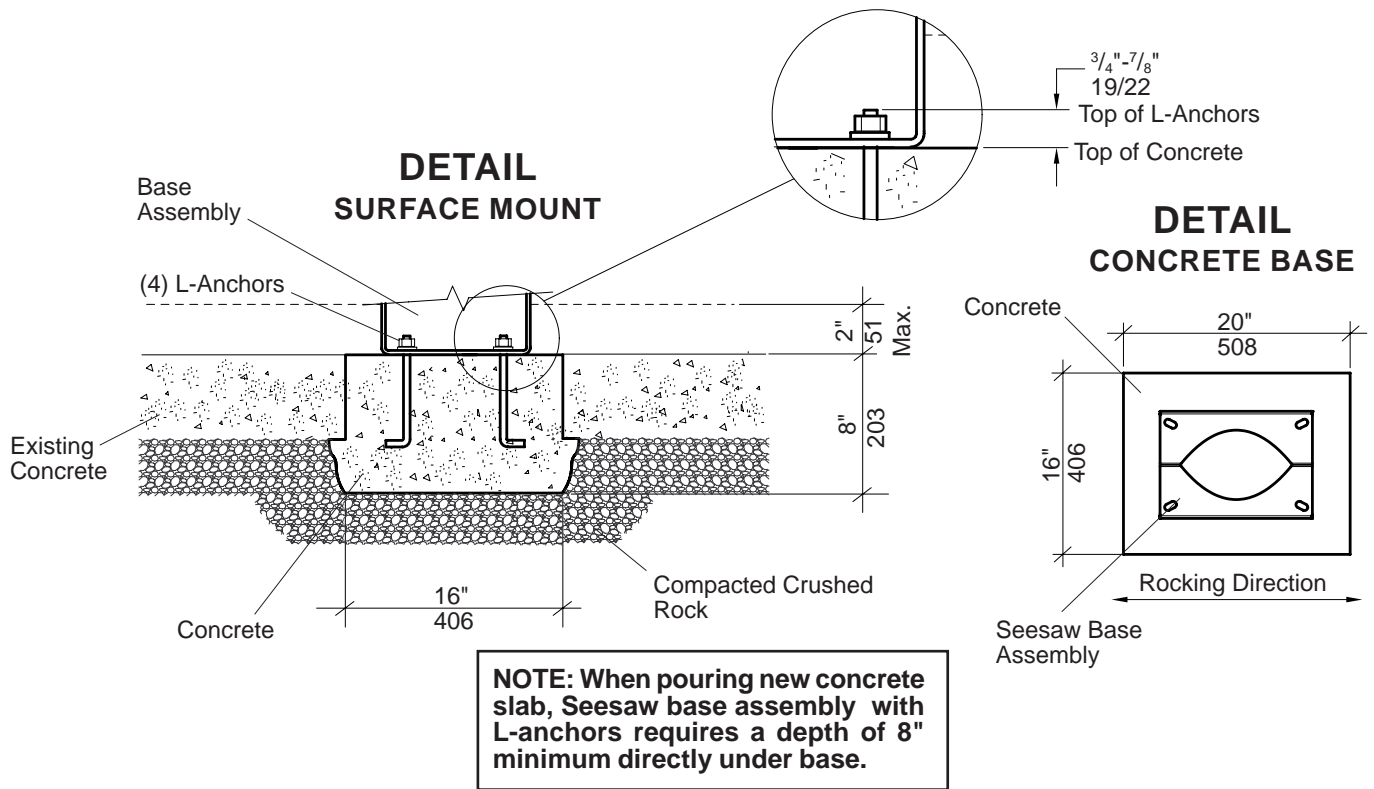
SM - 115 lbs.

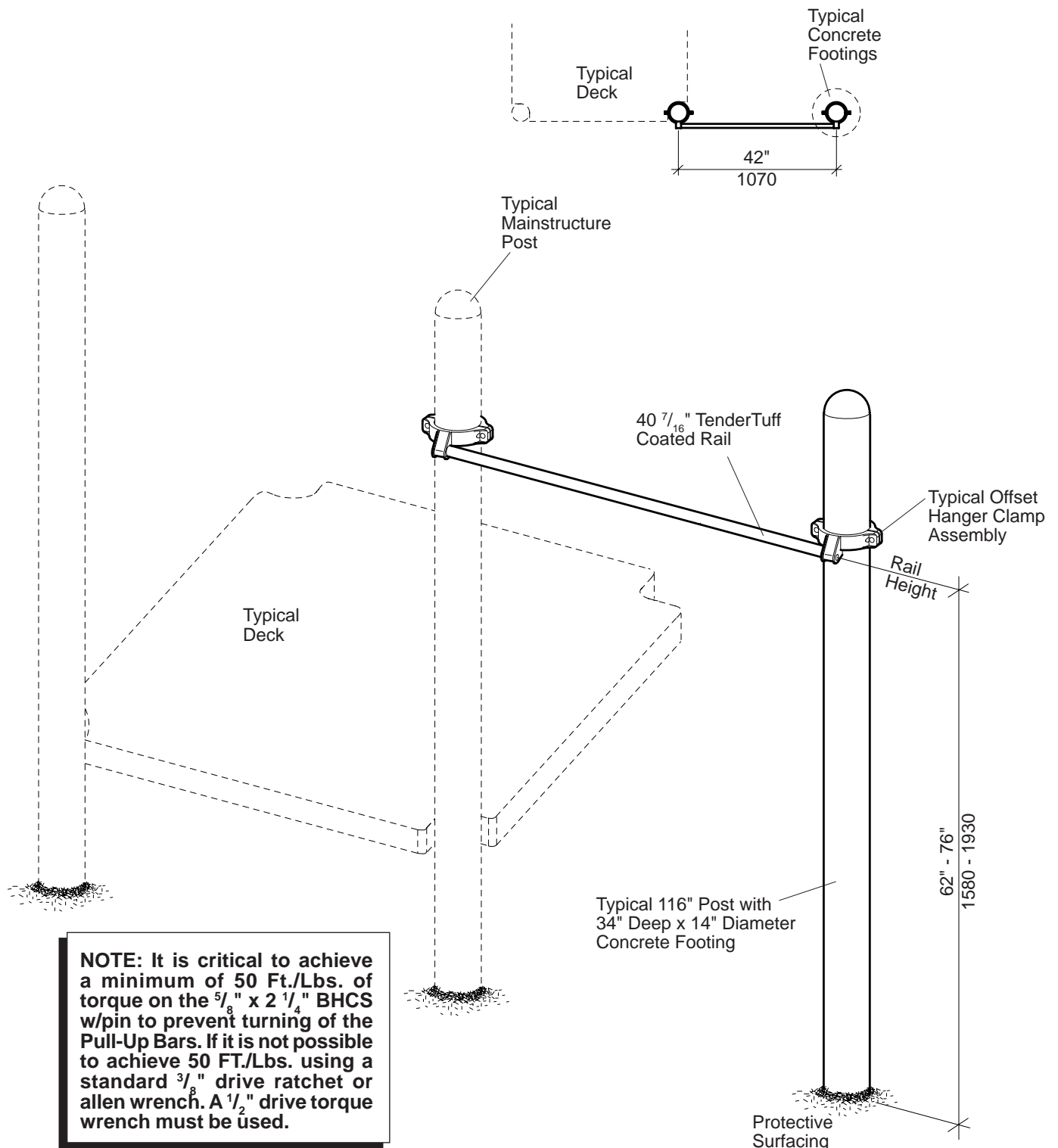
Area Required: 15' 10" x 20' 1" (4,80 m) x (6,10 m)

Fall Height: 27" (700 mm)

Installation Instructions

- (Direct Bury)** Dig footing to depth as shown. Refer to the Direct Bury Detail.
- Lay Stand-Up Seesaw on its side and attach leg using $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " hex cap screws with $\frac{1}{2}$ " flat washers and $\frac{1}{2}$ " standard hex nuts with $\frac{1}{2}$ " flat washers.
- Lift Stand-Up Seesaw upright and place leg in footing hole. With Stand-Up Seesaw plumb pour concrete footing. Allow concrete footing to cure for a minimum of 72 hours before users are allowed to play on the structure.
- Apply Play Safe and Warning Labels, as shown.
- Install protective surfacing 2" above bottom of base assembly before users are allowed to play on the component.
- (Surface Mount)** Cut a rectangular hole in existing concrete to size as shown. After existing concrete has been removed, dig down deep enough to allow for compacted crushed rock and 8" of concrete. Refer to the Surface Mount and Concrete Base Details. **NOTE:** When pouring new concrete slab, Seesaw base assembly with L-anchors requires a depth of 8" minimum directly under base.
- Lay seesaw on its side. Using the base assembly as a pattern, make a plywood template for L-anchor placement and fasten L-anchors to template. Allow $\frac{3}{4}$ " - $\frac{7}{8}$ " of thread to protrude from template.
- Pour concrete in footing hole and lay template on surface of concrete. Push L-anchors into concrete and level plywood template. Allow concrete to cure for 72 hours before removing template. Refer to the Plywood Template Detail.
- Lift Seesaw assembly upright and place over L-anchors. Fasten Seesaw assembly to L-anchors using $\frac{1}{2}$ " standard hex nuts with $\frac{1}{2}$ " flat washers.
- Apply Play Safe and Warning Labels, as shown.
- Install protective surfacing 2" maximum above bottom of base assembly before users are allowed to play on the component.





Parts List

Part#	Description	Qty.
107694	116" Aluminum Post, DB, Specify Color.....	1
107628	94" Aluminum Post, 12" SM, Specify Color.....	1
107623	84" Aluminum Post, 2" SM, Specify Color.....	1
107520	116" Steel Post, DB, Specify Color.....	1
107470	84" Steel Post, 2" SM, Specify Color.....	1
107473	94" Steel Post, 12" SM, Specify Color.....	1
108569	40 7/16" TenderTuff Rail, Specify Color.....	1
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, SST	2
100351	3/8" Tee Nut, SST.....	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100203	5/8" x 2 1/4" BHCS w/Pin, SST	2

Specifications

Rail: Weldment comprised of 1.125" O.D. x 11 GA (.120") steel tubing with 203 or 303 stainless steel 5/8" threaded inserts. Finish: TenderTuff™, color specified.

Post: See PlayBooster® (PB) General Specifications.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1 1/2 man hours

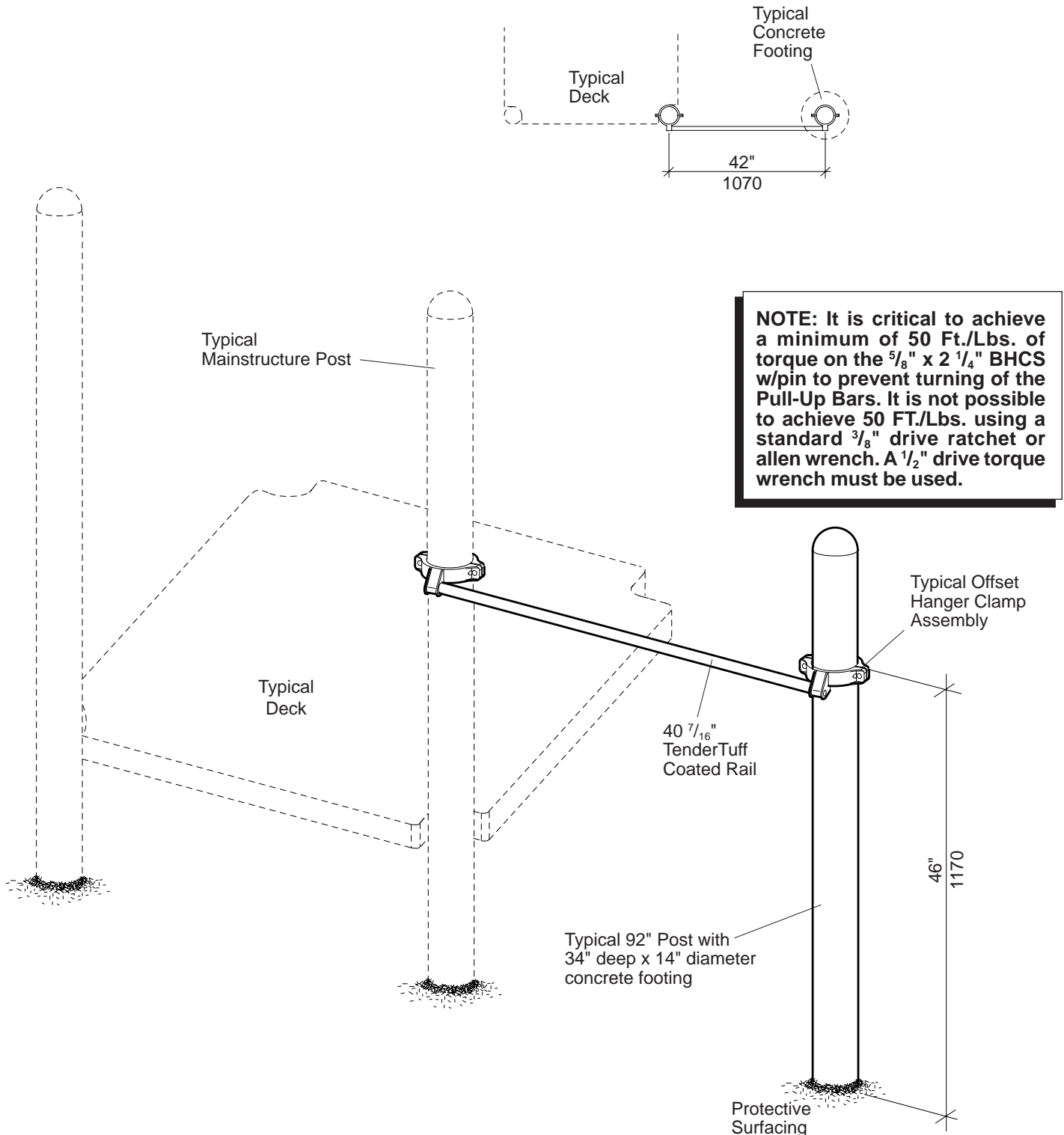
Concrete Req.: Approx. 1.6 cu. ft.

Area Req.: 6' (1.83 m) minimum use zone

Weight:
41 lbs. Aluminum DB
38 lbs. Aluminum SM
68 lbs. Steel SM
80 lbs. Steel DB

Installation Instructions

- 1) Dig footing hole spaced as shown. Refer to the Typical Concrete Footing Detail sheet.
- 2) Set 92" post in footing hole and attach 40 7/16" rail assembly to post at height shown using offset hanger clamp. Refer to the Typical Offset Hanger Clamp Assembly Spec sheet. **NOTE:** It is critical to achieve a minimum of 50 Ft./Lbs. of torque on the 5/8" x 2 1/4" BHCS w/pin to prevent turning of the Pull-Up Bars. If it is not possible to achieve 50 FT./Lbs. using a standard 3/8" drive ratchet or allen wrench. A 1/2" drive torque wrench must be used.
- 3) Temporarily brace post in plumb position and level rail. Pour concrete footing.
- 4) Install drive rivets in all clamps. Refer to the Typical Offset Hanger Clamp Assembly sheet.
- 5) Install protective surfacing before users are allowed to play on the structure.



Parts List

Part#	Description	Qty.
107681	92" Aluminum Post,DB, Specify Color.....	1
108569	40 7/16" TenderTuff Rail, Specify Color.....	1
107610	60" Alum. Post 2" SM, Specify Color	1
107617	70" Alum. Post 12" SM, Specify Color	1
107509	92" Steel Post DB, Specify Color	1
107460	60" Steel Post 2" SM, Specify Color	1
107466	70" Steel Post 12" SM, Specify Color	1
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
100610	1/4" x 5/8" Drive Rivet, SST	2
100351	3/8" Tee Nut, SST.....	4
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100203	5/8" x 2 1/4" BHCS w/Pin, SST	2

Specifications

Rail: Weldment comprised of 1.125" O.D. x 11 GA (.120") steel tubing with 203 or 303 stainless steel 5/8" threaded inserts. Finish: TenderTuff™, color specified.

Post: See PlayBooster® (PB) General Specifications.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1 1/2 man hours

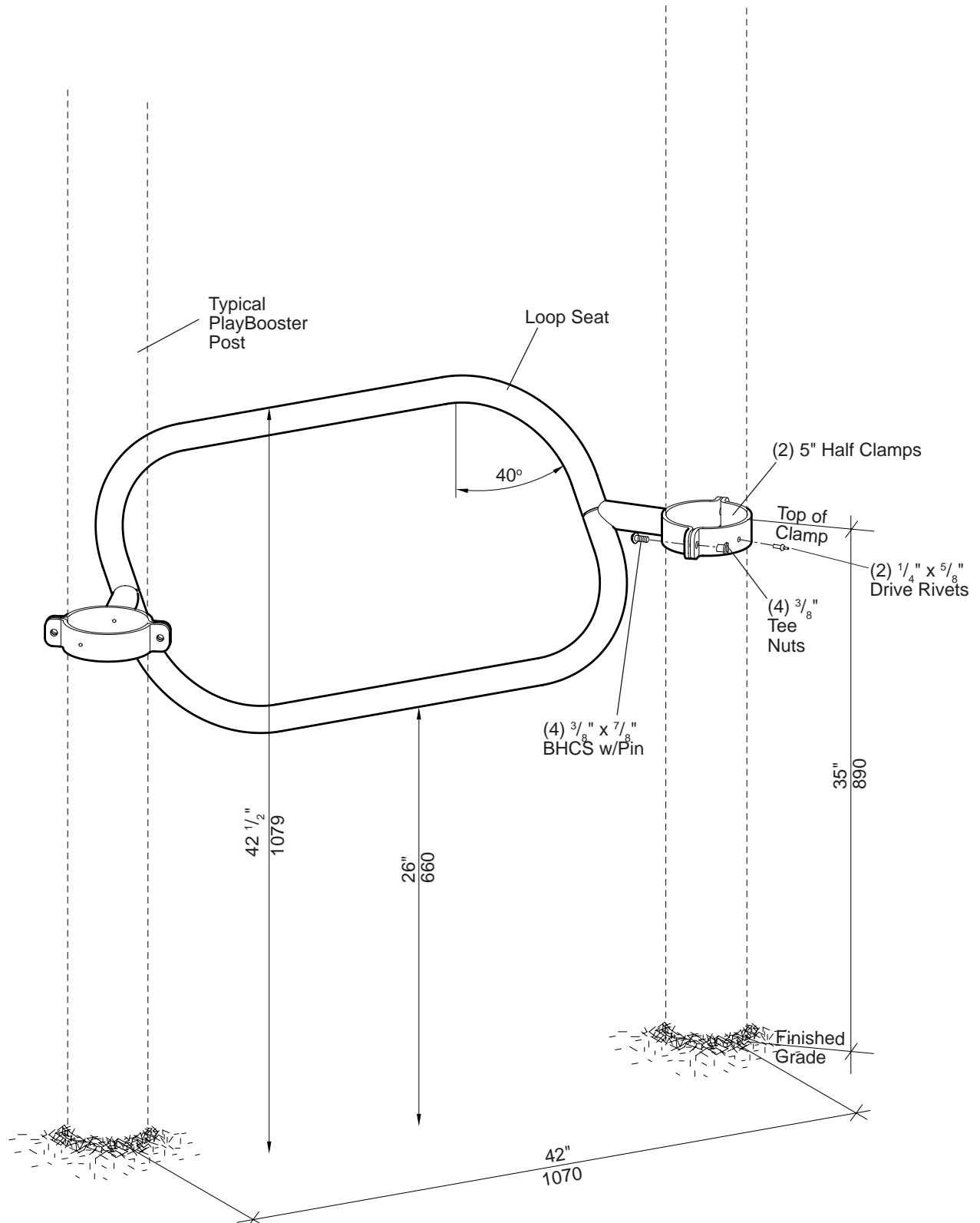
Concrete Req.: Approx. 1.6 cu. ft.

Area Req.: 6' (1,83 m) minimum use zone

Weight:
 35 lbs. Aluminum DB
 32 lbs. Aluminum SM
 56 lbs Steel SM
 68 lbs Steel DB

Installation Instructions

- 1) Dig footing hole spaced as shown. Refer to the Typical Concrete Footing Detail sheet.
- 2) Set 92" post in footing hole and attach 40 7/16" rail assembly to post at height shown using offset hanger clamp. Refer to the Typical Offset Hanger Clamp Assembly Spec sheet. **NOTE:** *It is critical to achieve a minimum of 50 Ft./Lbs. of torque on the 5/8" x 2 1/4" BHCS w/pin to prevent turning of the Pull-Up Bars. It is not possible to achieve 50 FT./Lbs. using a standard 3/8" drive ratchet or allen wrench. A 1/2" drive torque wrench must be used.*
- 3) Temporarily brace post in plumb position and level rail. Pour concrete footing.
- 4) Install drive rivets in all clamps. Refer to the Typical Offset Hanger Clamp Assembly sheet.
- 5) Install protective surfacing before users are allowed to play on the structure.



PlayBooster®

118089 Loop Seat

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #16052000



PlayBooster® 118089 Loop Seat

Parts List

Part#	Description	Qty.
130926	Loop Seat, Specify Color	1
105327	5" Half Clamp, Specify Color	2
106945	Loop Seat Hardware Package	1
100196	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	4
100351	$\frac{3}{8}$ " Tee Nut, SST.....	4
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, SST	2

Specifications

Loop Seat: Weldment comprised of 1.660" O.D. RS-20 (.085" - .095") galvanized steel tubing and formed $\frac{1}{4}$ " x 1 $\frac{3}{4}$ " stainless steel clamps. Finish: TenderTuff™, color specified.

**Offset Hanger
Clamp Assembly:** Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: $\frac{1}{2}$ man hour
Weight: 19 lbs.

Installation Instructions

- 1) Attach loop seat to posts at height shown using half clamps, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts, as shown.
- 2) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all half clamps. Refer to the Offset Hanger Clamp Assembly Sheet.
- 3) **NOTE:** *This product is not considered playground equipment, however, if it is used in a playground environment, protective surfacing is recommended around the product.*

Parts List

Part#	Description	Qty.
153952	Playstructure Seat, Specify Color.....	1
105327	5" Half Clamp, Specify Color	2
106022	5" Deck Hanger Clamp, Specify Color	2
106676	Seat Hardware Package	1
100198	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	4
100321	$\frac{3}{8}$ " Hex Patch Nut, SST.....	2
100351	$\frac{3}{8}$ " Tee Nut, SST.....	4
100362	$\frac{3}{8}$ " Flat Washer, SST	2
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	2

Specifications

Seat: Flange formed from 11 GA (.120") sheet steel. Seating surface is perforated with $\frac{5}{16}$ " diameter holes. Finish: TenderTuff™, color specified.

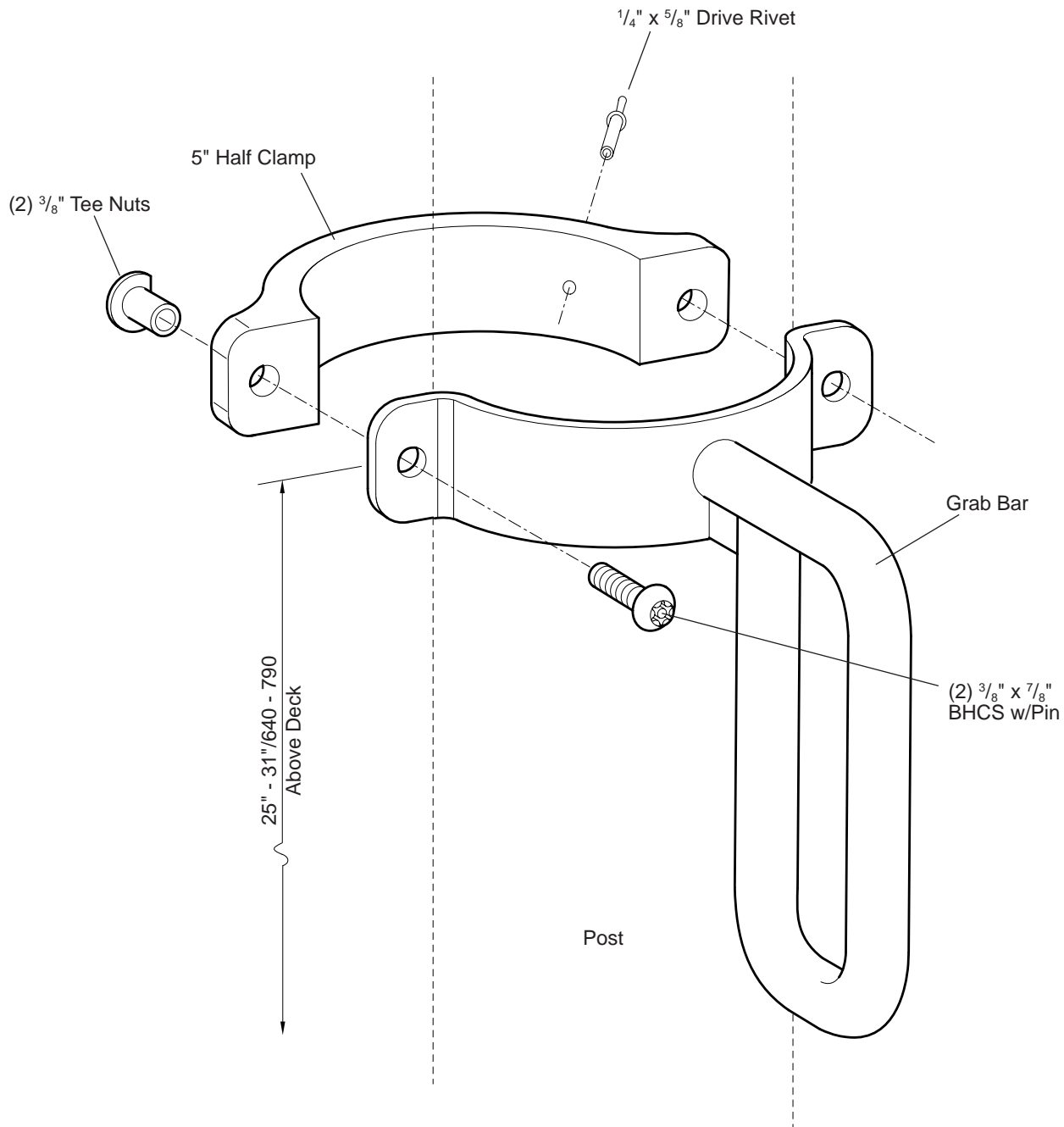
Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1 man hour
Weight: 26 lbs.

Installation Instructions

- 1) Playstructure seat attaches offset to posts. Refer to your site layout for where and which direction the playstructure seat needs to be installed. **NOTE:** If panel is attached to Playstructure Seat, deck height must be 56".
- 2) Mark posts for the appropriate height of the playstructure seat you are installing. **NOTE:** Height is adjustable 8"-16".
- 3) Fasten 5" deck hanger clamps to the marked position on posts using 5" half clamps and $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 4) Position seat over 5" deck hanger clamps and attach using $\frac{3}{8}$ " hex patch nuts with $\frac{3}{8}$ " flat washers, as shown.
- 5) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.



Parts List

Part#	Description	Qty.
105327	5" Half Clamp, Specify Color	1
141541	Grab Bar, Specify Color	1
106518	Grab Bar Hardware Package	1
100196	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin, SST	2
100351	$\frac{3}{8}$ " Tee Nut, SST.....	2
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	1

Specifications

Grab Bar: Weldment comprised of formed $\frac{7}{8}$ " O.D. 11 GA (.120") and $\frac{1}{4}$ " x 1 $\frac{3}{4}$ " stainless steel half clamp. Finish: TenderTuff™, color specified.

Half Clamp: Cast aluminum. Finish: ProShield®, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

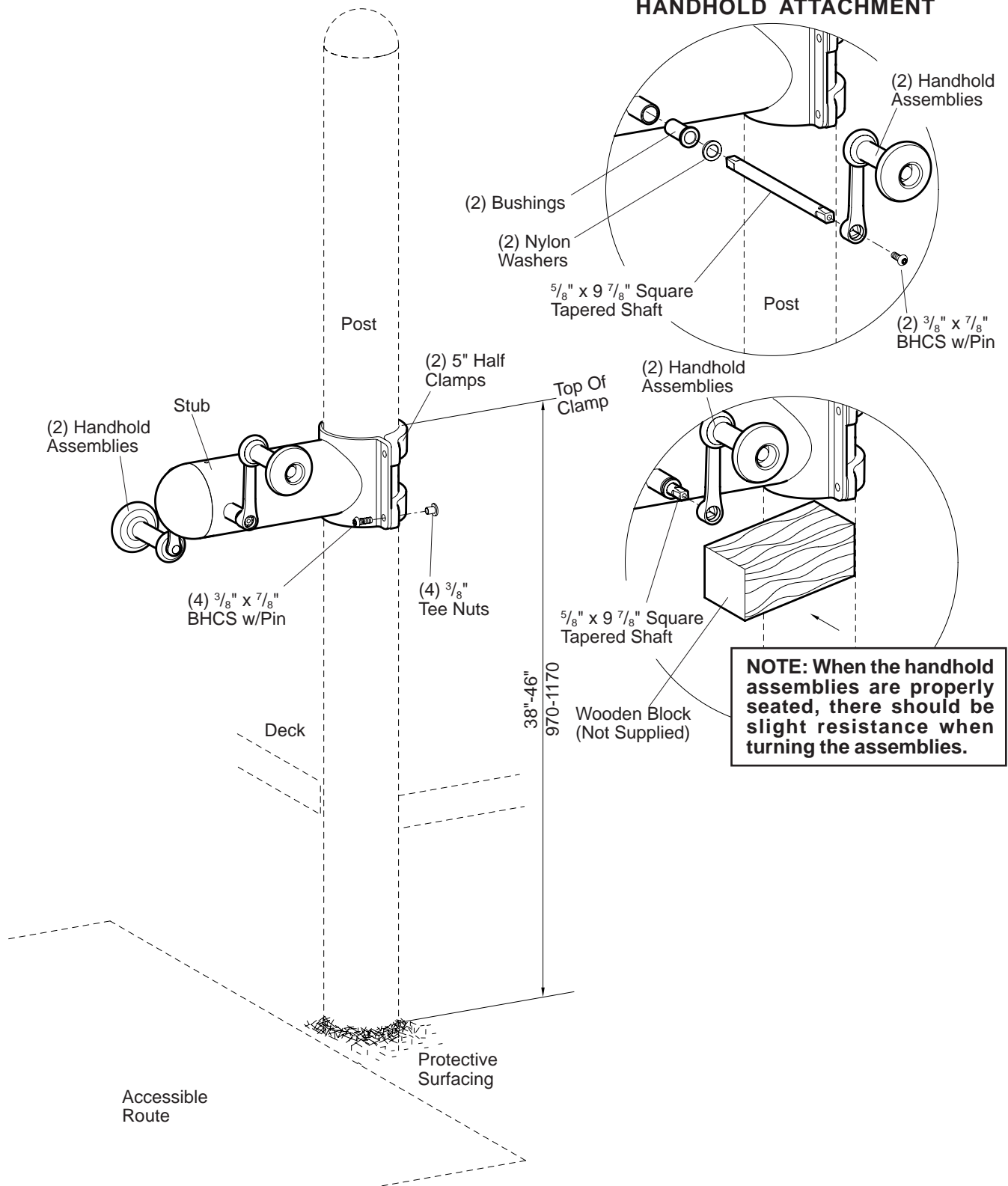
Installation Time: Approx. $\frac{1}{4}$ man hour

Weight: 5 lbs.

Installation Instructions

- 1) Attach grab bar to post at height shown, using a 5" half clamp, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts.
- 2) Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivet in 5" half clamp. Refer to the Offset Hanger Clamp Spec Sheet.
- 3) Install protective surfacing before users are allowed to play on the structure.

DETAIL HANDHOLD ATTACHMENT



PlayBooster® 153165 Stationary Cycler, Accessible

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #16057500

Parts List

Part#	Description	Qty.
100610	1/4" x 5/8" Drive Rivet, AL/SST	2
105327	5" Half Clamp, Specify Color	2
160567	5/8" x 9 7/8" Tapered Shaft.....	1
153101	Stub, Specify Color	1
153972	Handhold Assembly	2
152231	Handhold, Black	2
153577	Handle Crank Weldment, Specify Color	2
153714	Retaining Ring.....	2
160570	Stationary Cyler Acc. Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	6
100351	3/8" T-Nut, SST.....	4
151036	Bushing, Oilite.....	2
156037	Nylon Washer	2

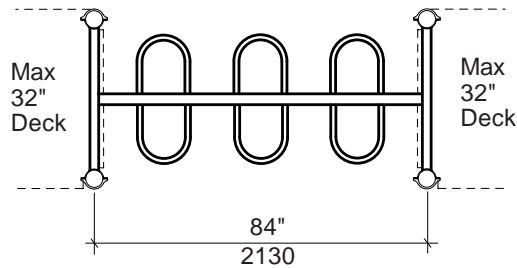
Specifications

Handhold:	Handhold fabricated from high density polyethylene, black in color.
Handhold Crank:	Weldment comprised of 3/4" O.D. stainless steel shaft and forged carbon steel.
Stub:	Weldment comprised of 5.000" O.D. x 11 Ga. (.120") steel tube, 1/4" x 6" HRPO flat steel and 1.063" O.D. 1018 steel shaft housing. Finish: ProShield®, color specified.
Shaft:	.625" O.D. stainless steel.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 1/4 man hour
Weight:	22 lbs.

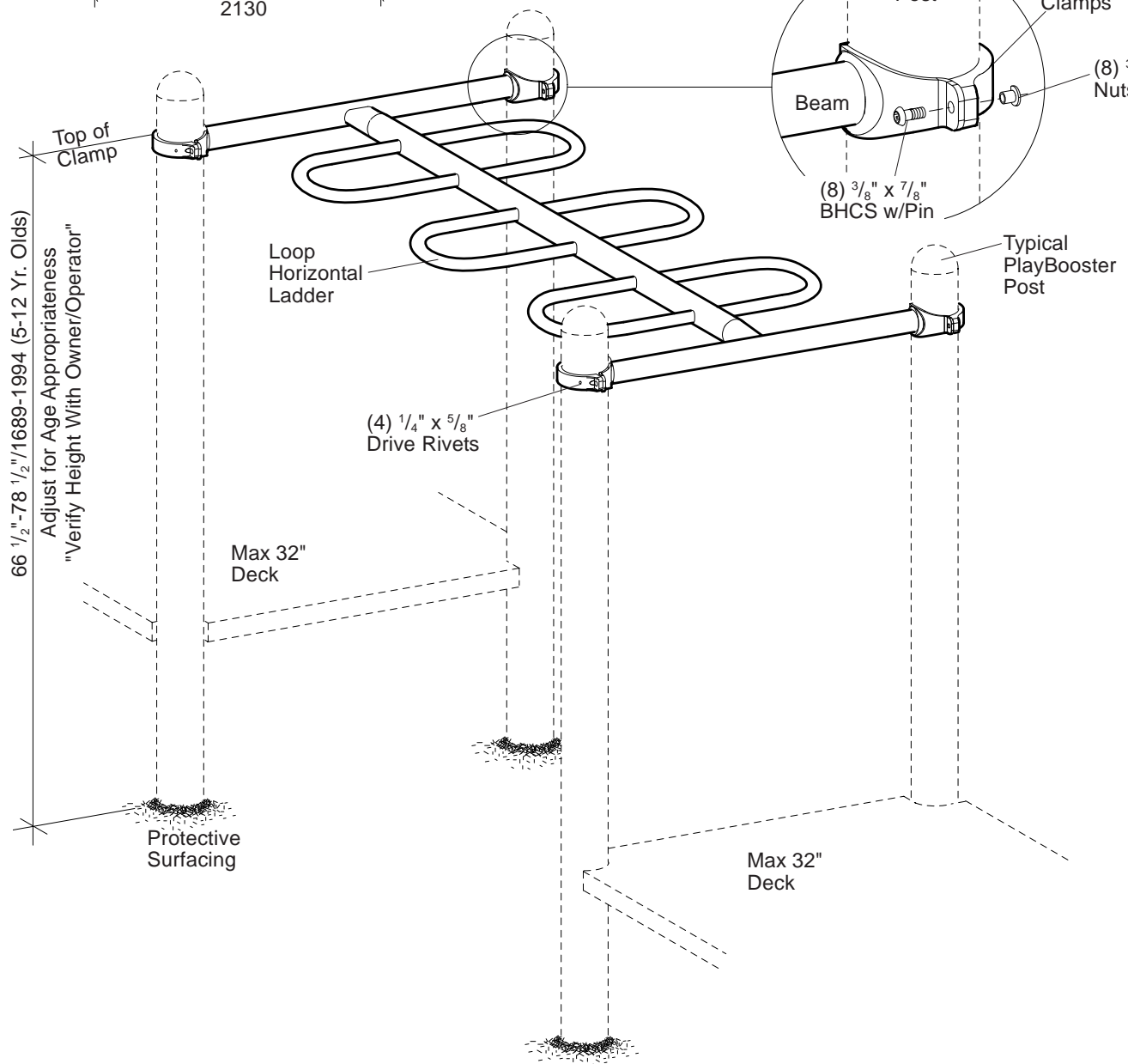
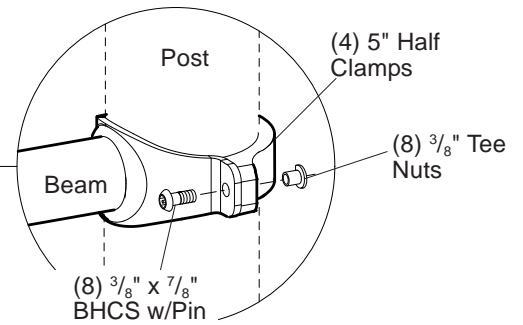
Installation Instructions

- 1) Attach stub to post at height shown using 5" half clamps, 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts, as shown.
- 2) Position handhold assemblies onto square tapered shaft with bushings and nylon washers as shown on illustration. Using a rubber mallet and block of wood, not supplied, (to protect the painted surface of the assemblies) to properly seat the handhold assemblies onto tapered shaft. **NOTE:** When the handhold assemblies are properly seated, there should be slight resistance when turning the assemblies. Once the handhold assemblies are seated properly, assemble the 3/8" x 7/8" BHCS w/pin and tighten to approximately 25 ft/lbs. of torque.
- 3) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.

PLAN VIEW



**DETAIL
BEAM ATTACHMENT**



PlayBooster® 119805 Horizontal Ladder, Loop, Single Beam 84"

Parts List

Part#	Description	Qty.
145940	Loop Horizontal Ladder, Specify Color	1
105327	5" Half Clamp, Specify Color	4
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
149233	Horizontal Ladder, Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	8
100351	3/8" Tee Nut, SST	8

Specifications

Loop Ladder: Weldment comprised of 2.375" O.D. RS-40 (.130"-.140") galvanized steel tubing, 1.315" O.D. x RS-20 (.080"-.090") galvanized steel tubing and 1/4" HRPO flat steel. Finish: ProShield®, color specified.

Clamp: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1 man hour

Area Req.: 6' (1,83 m) minimum use zone

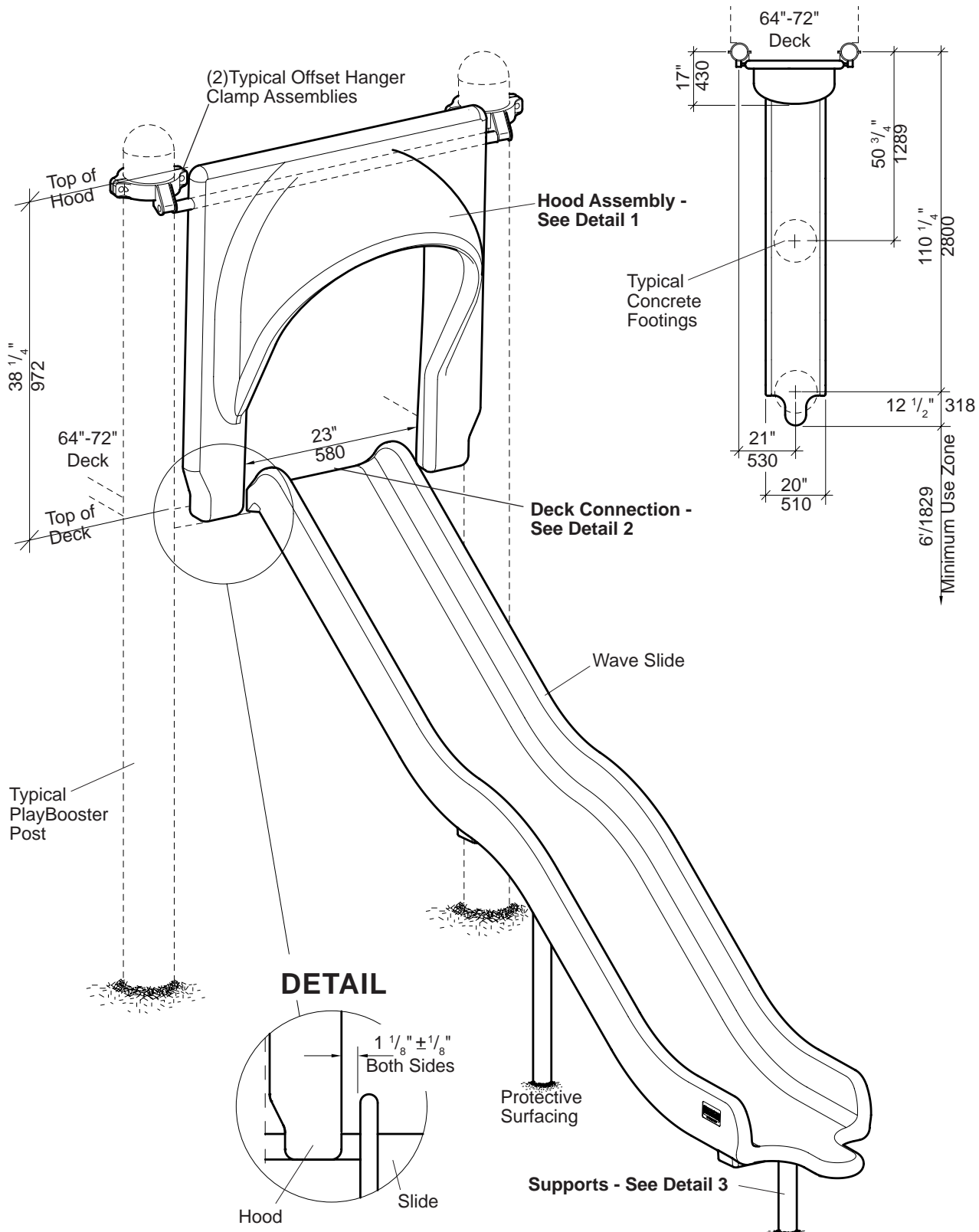
Weight: 79 lbs.

Max. Fall Height: 67"-79" (1,70 m - 2,00 m) 5-12 Yr. Olds.

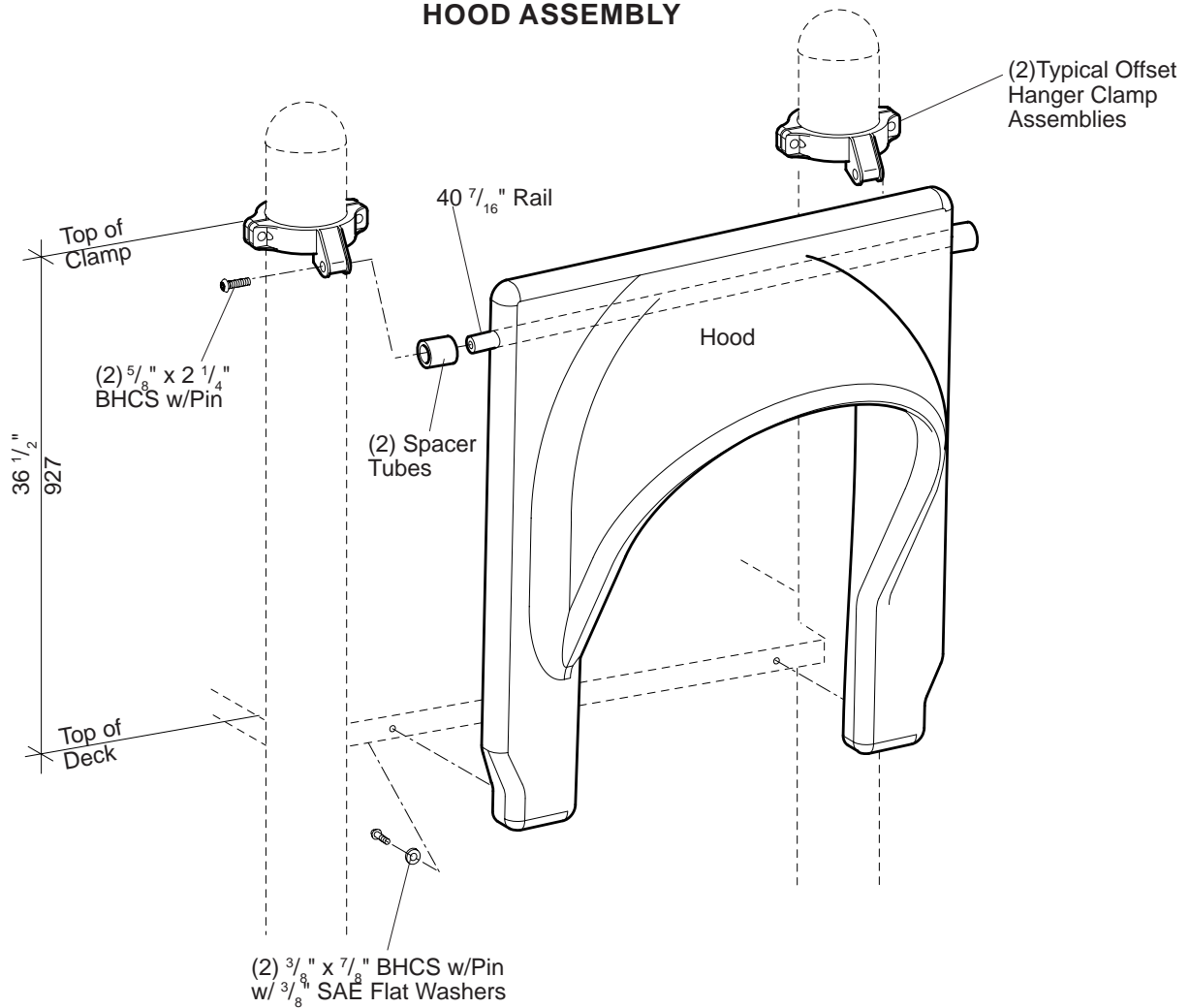
Installation Instructions

- 1) Mark posts for the appropriate height of the loop horizontal ladder. Adjust height for age appropriateness.
- 2) Lift loop horizontal ladder into position and attach to posts using 5" half clamps with 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts.
- 3) Be sure loop horizontal ladder is level, if not, adjust clamps to do so.
- 4) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 5) Install protective surfacing before users are allowed to play on the structure.

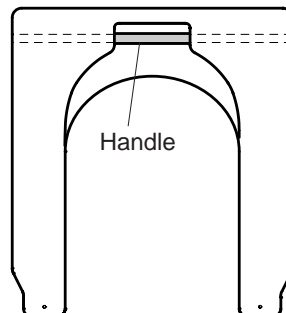
PLAN VIEW/ FOOTING LAYOUT



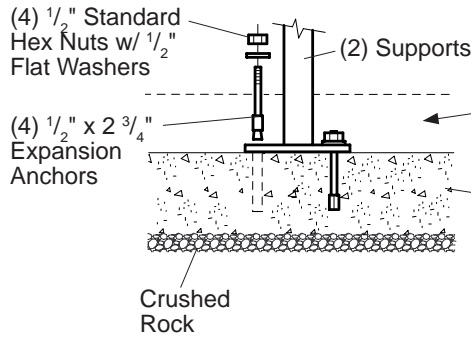
DETAIL 1 HOOD ASSEMBLY



HOOD - HANDLE DETAIL

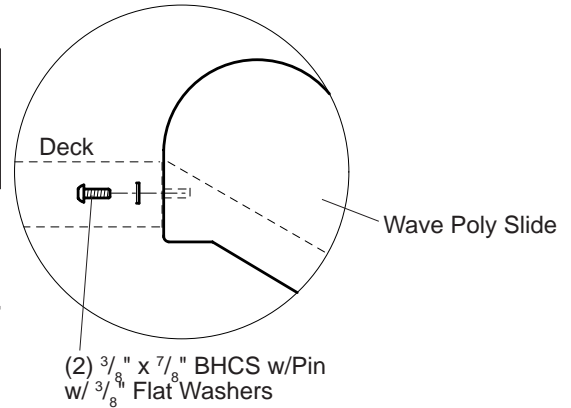


**DETAIL
SURFACE MOUNT**

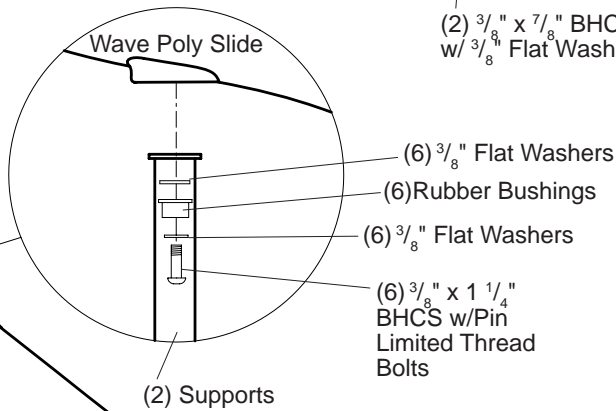


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

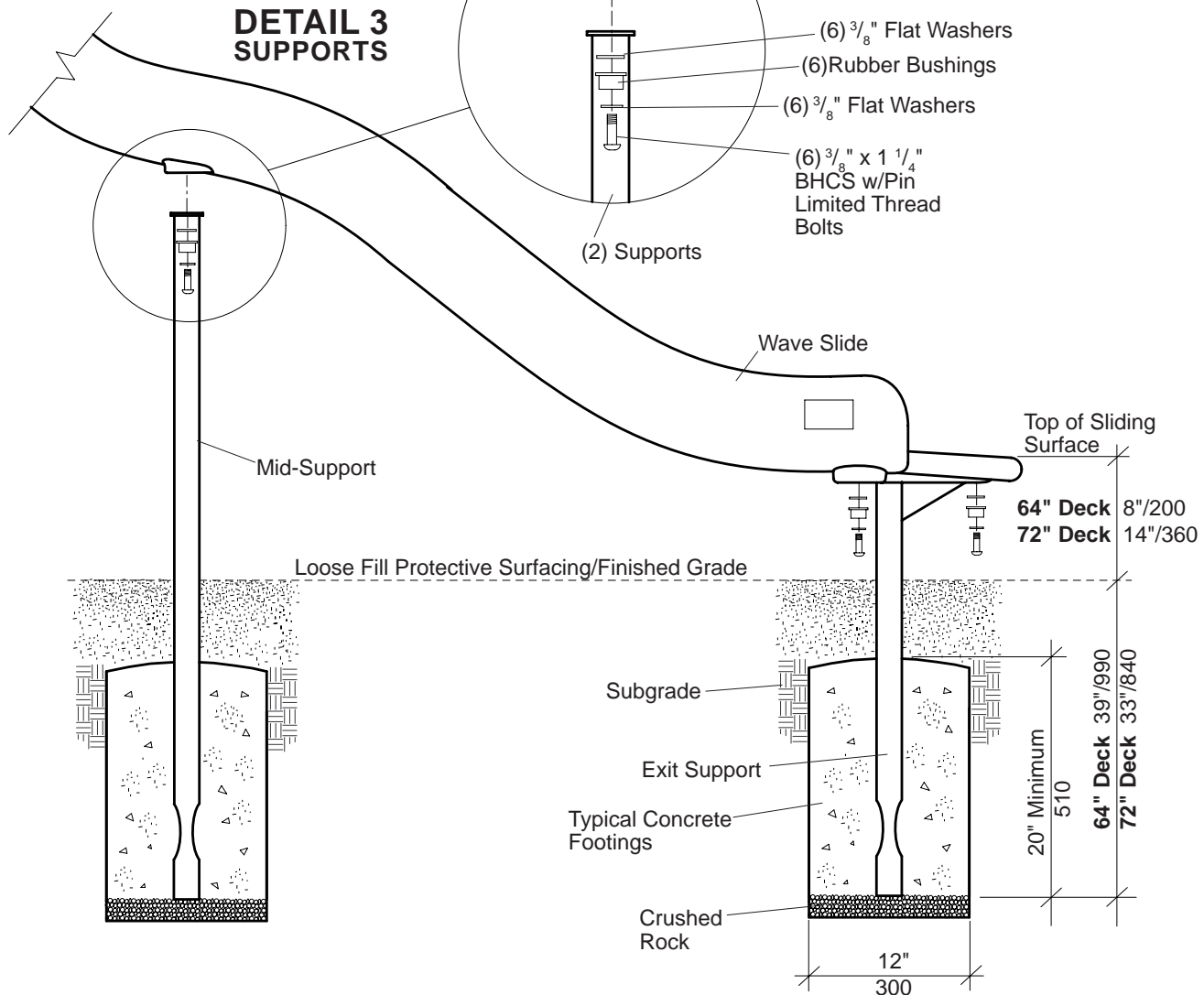
**DETAIL 2
DECK CONNECTION**



**DETAIL
SUPPORT ATTACHMENT**



**DETAIL 3
SUPPORTS**



Parts List

Part#	Description	Qty.
130612	Wave Slide, Specify Color	1
134180	Slide Hood, Specify Color.....	1
103201	Exit Support, (DB), Specify Color	1
130691	Mid-Support, (DB), Specify Color.....	1
131653	Exit Support, 64" Deck (SM), Specify Color.....	1
103198	Exit Support, 72" Deck (SM), Specify Color.....	1
131655	Mid-Support, 64" Deck (SM), Specify Color.....	1
131651	Mid-Support, 72" Deck (SM), Specify Color.....	1
100583	40 ⁷ / ₁₆ " Rail, Specify Color.....	1
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	2
132443	Spacer Tube, Specify Color.....	2
131672	Slide Hardware Package	1
100292	³ / ₈ " x 1 ¹ / ₄ " BHCS w/Pin Ltd. Thread Bolt, SST.....	6
111442	Rubber Bushing.....	6
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	2
100362	³ / ₈ " Flat Washer, SST	14
106578	Hood Hardware Package	1
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	2
100362	³ / ₈ " Flat Washer, SST	2
100203	⁵ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	2
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	4
100351	³ / ₈ " Tee Nut, SST.....	4
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	2
121348	4-Hole (SM) Hardware Package	1
100266	¹ / ₂ " x 2 ³ / ₄ " Expansion Anchor	4
100322	¹ / ₂ " Standard Hex Nut, SST	4
100363	¹ / ₂ " Flat Washer, SST	4

DB = Direct Bury

SM = Surface Mount

Specifications

Hood/Slide:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Mid-Support:	Weldment comprised of 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and ¹ / ₄ " x 3" mounting plate. Finish: ProShield®, color specified.
Exit Support:	Weldment comprised of 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and ¹ / ₄ " mounting plate. Finish: ProShield, color specified.
Spacer Tube:	Fabricated from 1.3125 O.D. x 16 Ga. (.065) steel tubing. Finish: ProShield, color specified.
Rail:	1 ¹ / ₈ " O.D. 6005-T5 aluminum extrusion with ⁵ / ₁₆ " wall. Finish: ProShield, color specified.
Offset Hanger Clamp Assembly:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

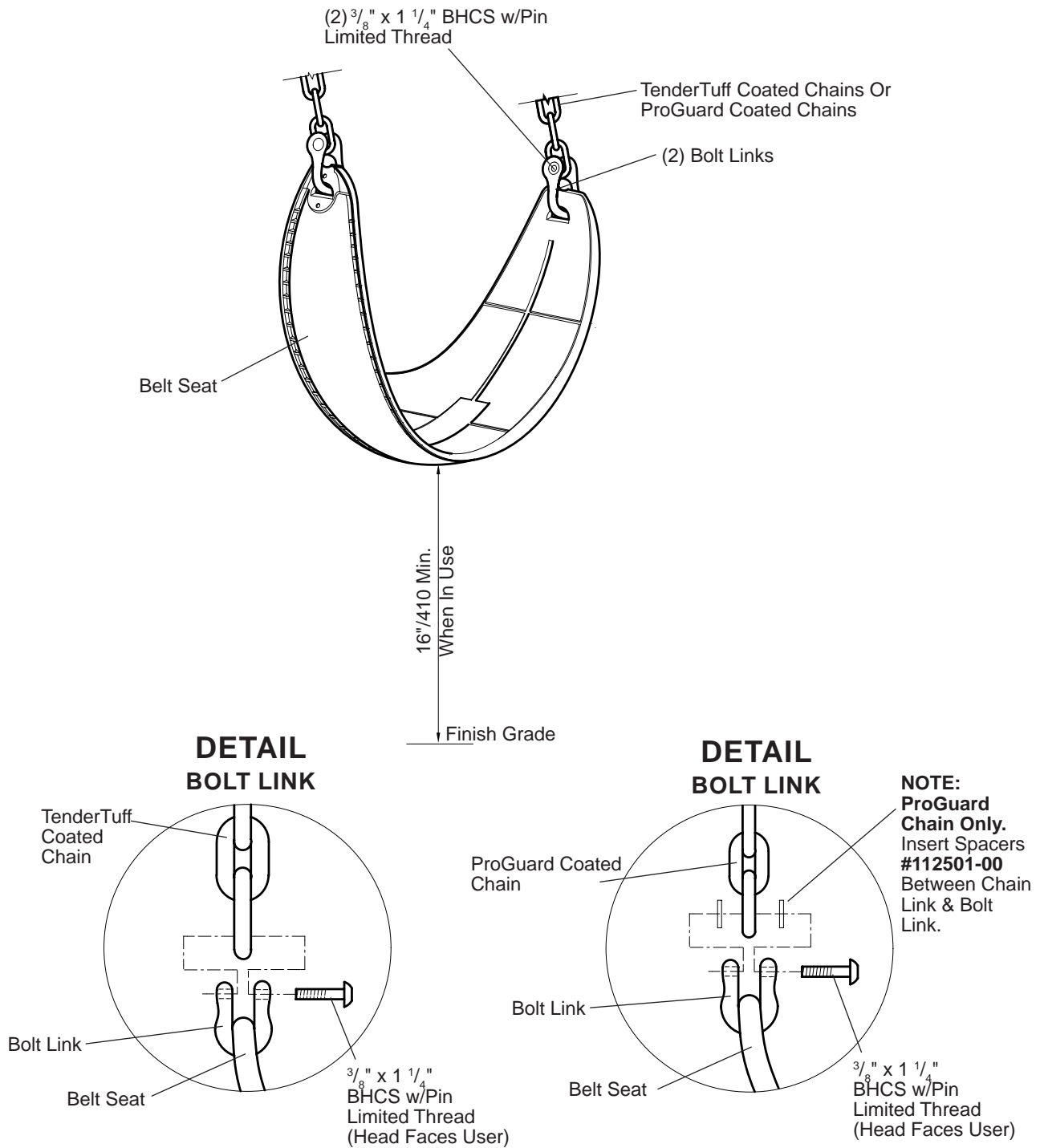
Installation Time:	Approx. 3 man hours
Concrete Req.:	Approx. 2.6 cu. ft.
Area Req.:	6' (1.83 m) minimum use zone at exit
Weight:	121 lbs.
Fall Height:	64" Deck (1.63 m) 72" Deck (1.83 m)

Installation Instructions

- (Direct Bury)** Dig footings spaced as shown.
- Insert 40 ⁷/₁₆" rail through hood, place spacer tubes over each end of the 40 ⁷/₁₆" rail, attach to offset hanger clamps as shown using ⁵/₈" x 2 ¹/₄" BHCS w/Pin. Position hood against face of deck and line up holes in hood and deck. Attach hood to deck using ³/₈" x ⁷/₈" BHCS w/Pin with ³/₈" flat washers. See Detail 1.
- Attach offset hanger clamps to posts with 5" half clamps using ³/₈" x 1 ¹/₈" BHCS w/Pin and ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- Attach supports to slide using ³/₈" x 1 ¹/₄" BHCS w/Pin limited thread bolts, ³/₈" flat washers and rubber bushings. See Detail 3. **NOTE:** *Attach bolts in the center of the slots to allow for expansion and contraction. Snug bolts down only. Do not overtighten!*
- Attach slide to the face of the deck using ³/₈" x ⁷/₈" BHCS w/Pin and ³/₈" flat washers. See Detail 2.
- (Direct Bury)** With supports plumb pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) Mark anchor bolt locations on concrete slab through holes in anchor plate and remove slide. Drill ¹/₂" x 3" deep holes on marks into concrete using a hammer drill and ¹/₂" masonry bit. Tap expansion anchors into drilled holes. Reposition slide and reattach to the face of the deck following step 6. Fasten anchor plates to expansion anchors using ¹/₂" standard hex nuts with ¹/₂" flat washers.

- Install protective surfacing before users are allowed to play on the structure.



Swings

174018 Belt Seat

Sheet 1 of 2

Parts List

Part #	Description	Qty.
7 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
178679	57 7/16" Chain, TenderTuff, Specify Color.....	2
175251	57 7/16" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
8 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
152050	67 7/8" Chain, TenderTuff, Specify Color	2
174404	67 7/8" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
10 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
152052	90 11/16" Chain, TenderTuff, Specify Color.....	2
174884	90 11/16" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2

Specifications

Chain Spacer: Made from white nylon measuring .080" x .785" O.D.

Chain/ProGuard: Steel 3/16" straight link chain, 800 lb. working load limit. Finish: ProGuard.

Chain/Coated: Steel 3/16" straight link chain, 800 lb. working load limit. Finish: TenderTuff®, color specified.

Belt Seats: Molded from U.V. stabilized black EPDM rubber encapsulating a weldment comprised of a 22 GA (.029") spring stainless steel sheet, and (4) .105" thick stainless steel washers. The belt seat elliptical shape measures 7" wide x 26" long x .700" thick.

Bolt Link: Stainless Steel.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: 1/4 man hour per seat

Weight: 8 lbs. (7 Ft. Beam w/ProGuard Chains)
9 lbs. (7 Ft. Beam w/TenderTuff Chains)
8 lbs. (8 Ft. Beam w/ProGuard Chains)
9 lbs. (8 Ft. Beam w/TenderTuff Chains)
10 lbs. (10 Ft. Beam w/ProGuard Chains)
11 lbs. (10 Ft. Beam w/TenderTuff Chains)

Installation

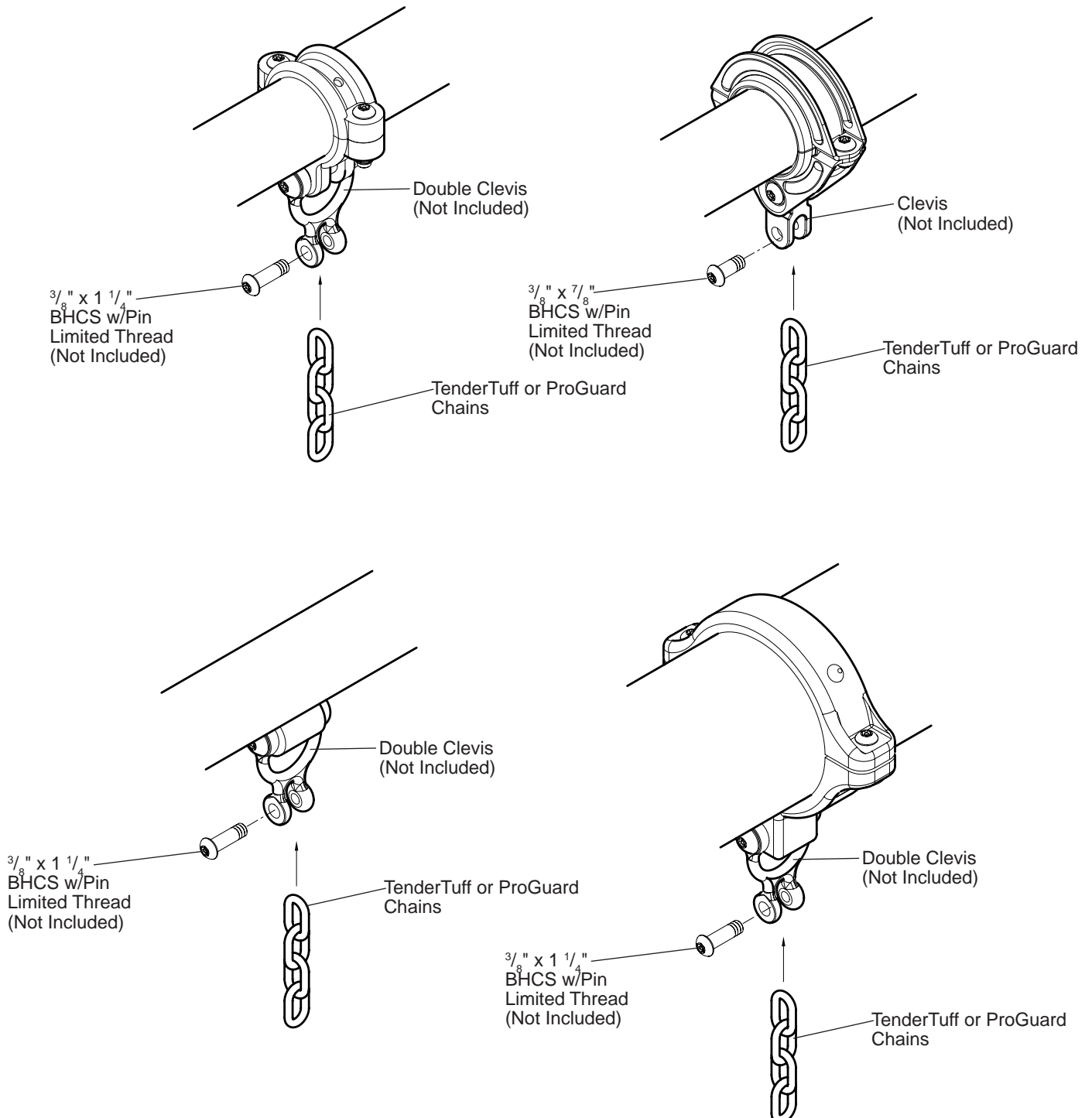
Swing Hangers With Double Clevis

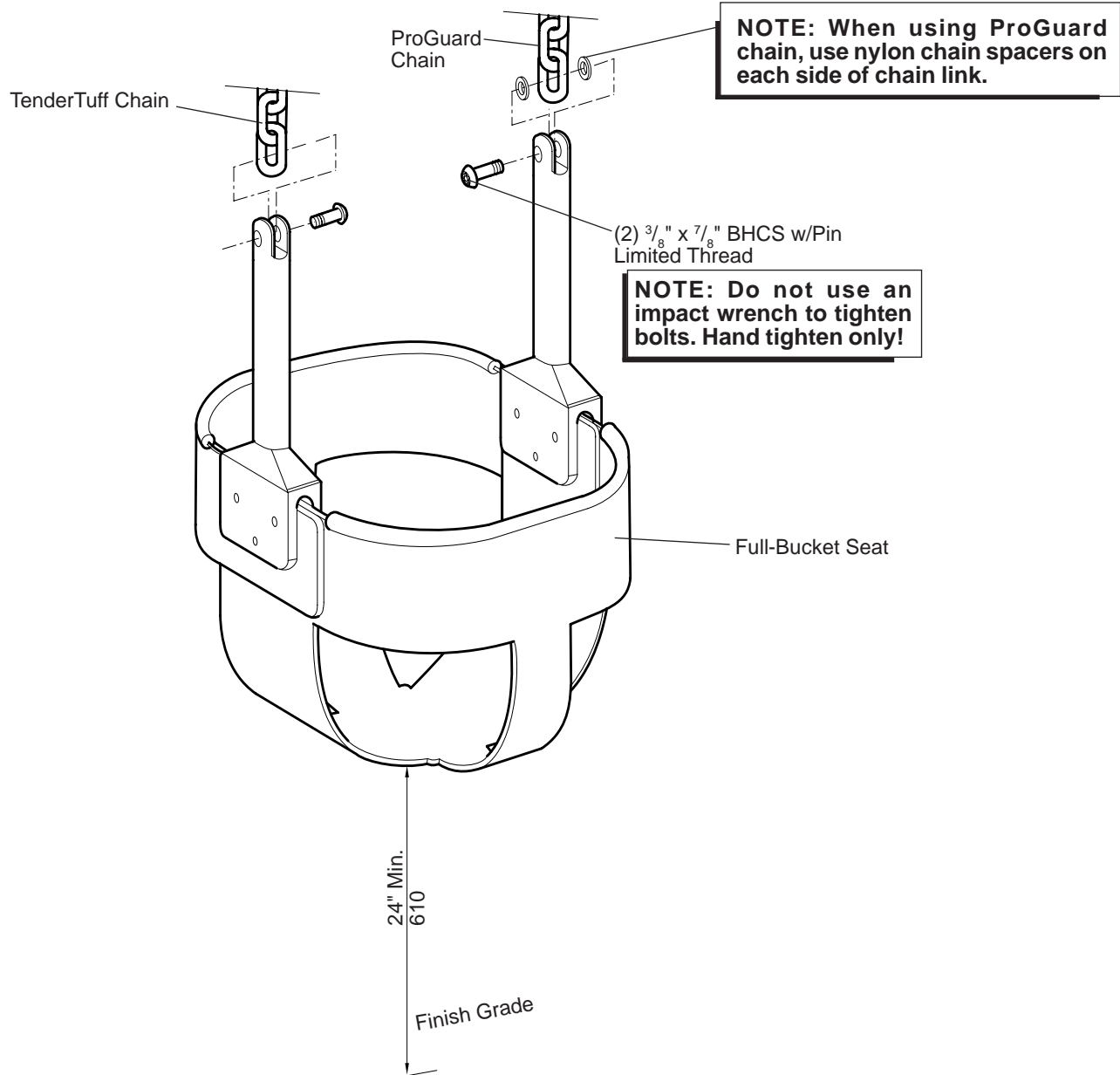
- 1) Attach chains to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

Anti-wrap Swing Hangers

- 1) Attach chains to aluminum clevis using 3/8" x 7/8" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

SWING HANGER OPTIONS





Swings

176038 Full-Bucket Seat, w/Chains

Sheet 1 of 2

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #21059200

Parts List

Part#	Description	Qty.
<u>7 Ft. High Beam (5" Dia. Beam)</u>		
186276	Full-Bucket Swing Seat, Black	1
141739	43 ³ / ₁₆ " Chain, TenderTuff, Specify Color	2
175248	43 ³ / ₁₆ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4
<u>8 Ft. High Beam</u>		
186276	Full-Bucket Swing Seat, Black	1
160110	52 ⁹ / ₁₆ " Chain, TenderTuff, Specify Color	2
174882	52 ⁹ / ₁₆ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4
<u>10 Ft. High Beam</u>		
186276	Full-Bucket Swing Seat, Black	1
152051	76 ⁷ / ₁₆ " Chain, TenderTuff, Specify Color	2
174883	76 ⁷ / ₁₆ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4
<u>7 Ft. High Beam (Tot)</u>		
186276	Full-Bucket Swing Seat, Black	1
152053	37 ¹ / ₂ " Chain, TenderTuff, Specify Color	2
175247	37 ¹ / ₂ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4
<u>75" High Beam (Toddler)</u>		
186276	Full-Bucket Swing Seat, Black	1
152016	29 ⁷ / ₈ " Chain, TenderTuff, Specify Color	2
174881	29 ⁷ / ₈ " Chain, ProGuard	2
138414	Bucket Seat Hardware Package	1
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	2
112501	Chain Spacer (For ProGuard Chains Only)	4

Specifications

Full-Bucket Seat: Seat shall be molded of U.V. stabilized, high quality, black rubber, encapsulating a 24 gauge stainless steel reinforcement plate. Handle cast from 356-T6 aluminum alloy with black polyarmor paint finish. Handle attaches to seat with (3) ¹/₄" x 1 ⁵/₁₆" long stainless steel rivets. The finished size of the full bucket shall be 9" deep x 10 ¹/₂" wide.

Chain/Coated: Steel ³/₁₆" straight link chain, 800 lb. working load limit. Finish: TenderTuff, color specified.

Chain/ProGuard: Steel ³/₁₆" straight link chain, 800 lb. working load limit. Finish: ProGuard.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: ¹/₄ man hour per seat

Weight:
 14 lbs. (7 FT. Beam 5" Dia. w/TenderTuff Chain)
 13 lbs. (7 FT. Beam 5" Dia. w/ProGuard Chain)
 14 lbs. (8 FT. Beam w/TenderTuff Chain)
 14 lbs. (8 FT. Beam w/ProGuard Chain)
 17 lbs. (10 FT. Beam w/TenderTuff Chain)
 16 lbs. (10 FT. Beam w/ProGuard Chain)
 12 lbs. (7 FT. Beam w/TenderTuff Chain)
 12 lbs. (7 FT. Beam w/ProGuard Chain)
 11 lbs. (75" Beam w/TenderTuff Chain)
 11 lbs. (75" Beam w/ProGuard Chain)

Installation Instructions

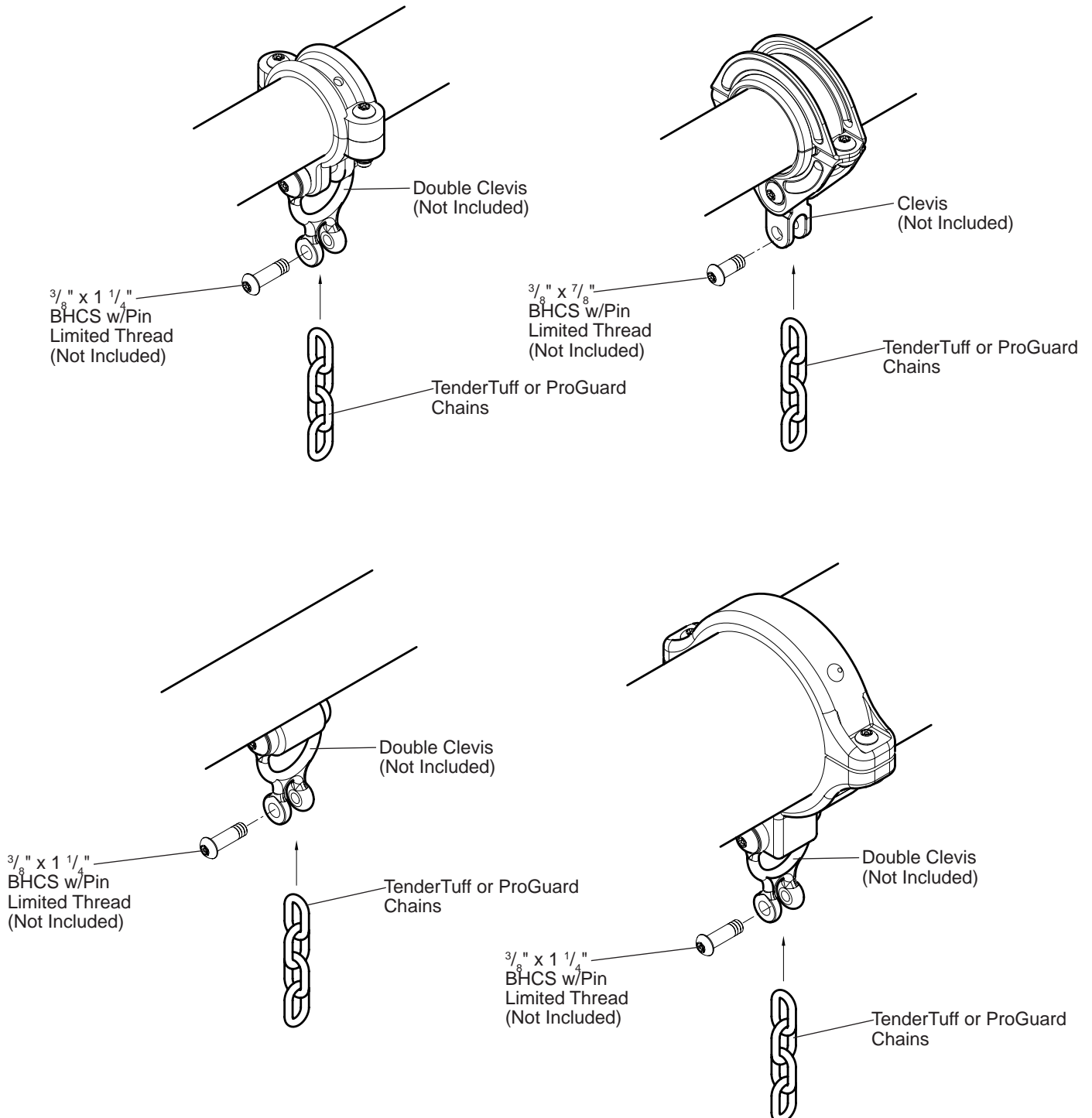
Swing Hangers with Double Clevis

- 1) Attach chains to double clevis using ³/₈" x 1 ¹/₄" BHCS w/pin limited thread bolts, as shown.
- 2) Attach chains to full-bucket seat using ³/₈" x ⁷/₈" BHCS w/pin limited thread bolts. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

Anti-wrap Swing Hangers

- 1) Attach chains to aluminum clevis using ³/₈" x ⁷/₈" BHCS w/pin limited thread bolts, as shown.
- 2) Attach chains to full-bucket seat using ³/₈" x ⁷/₈" BHCS w/pin limited thread bolts. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

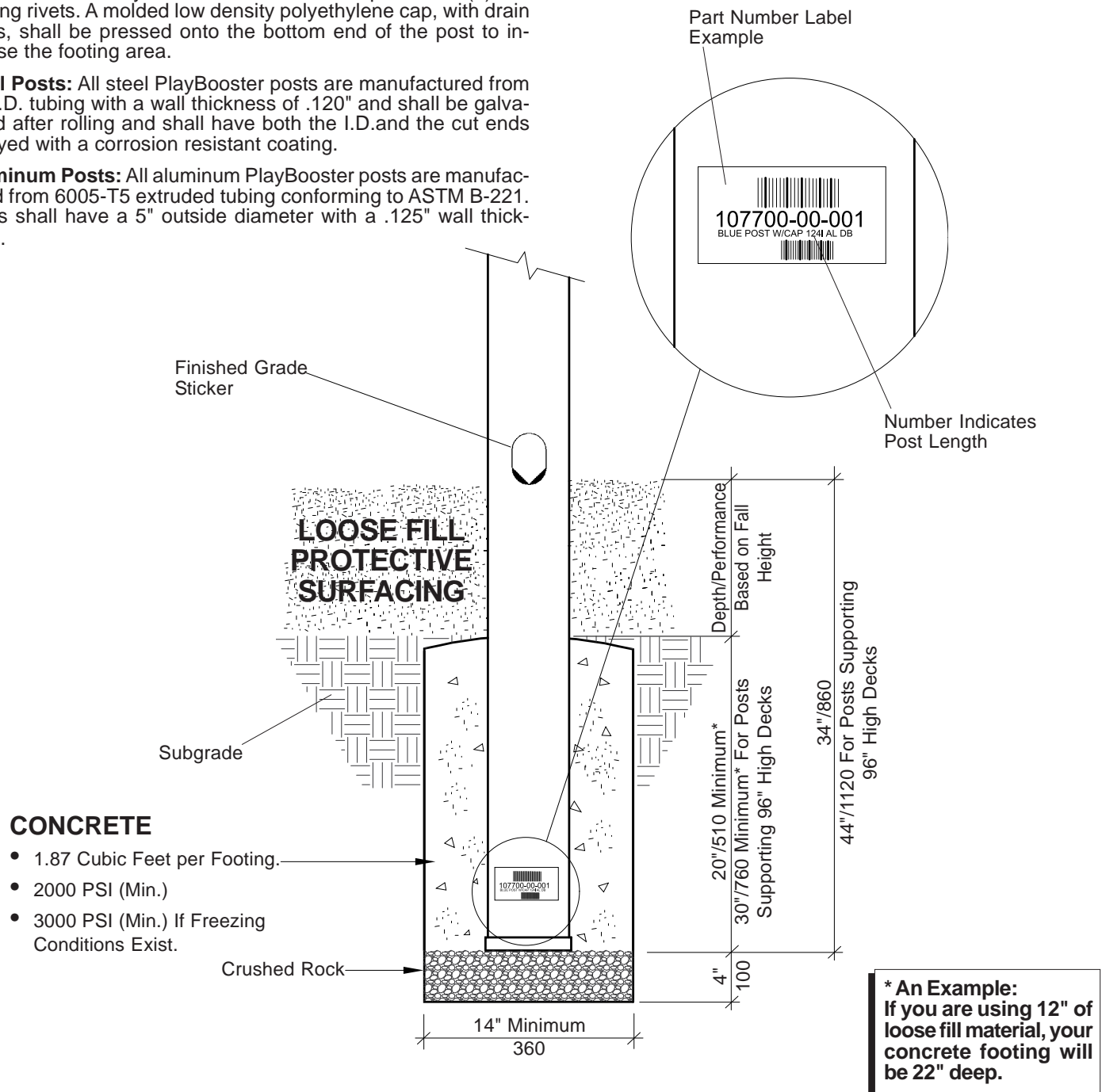
SWING HANGER OPTIONS

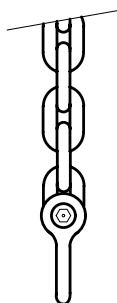
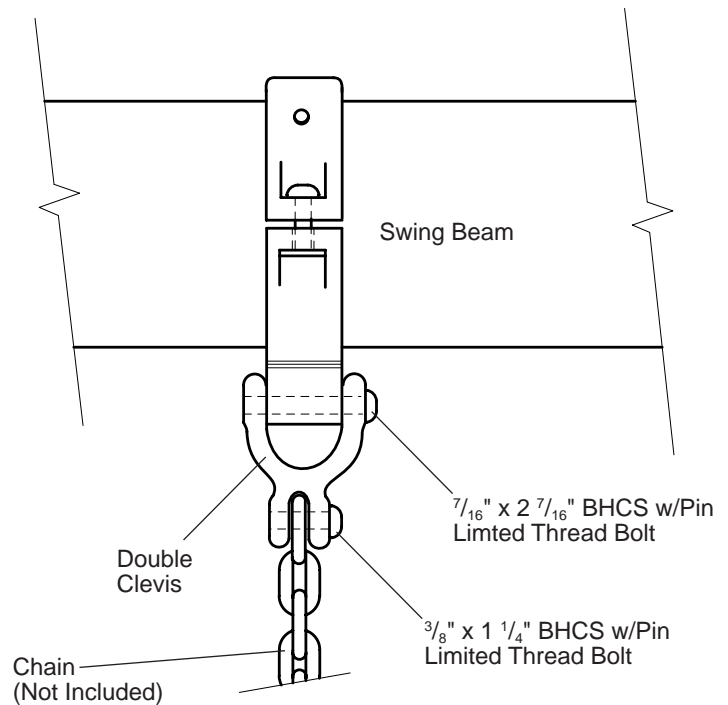
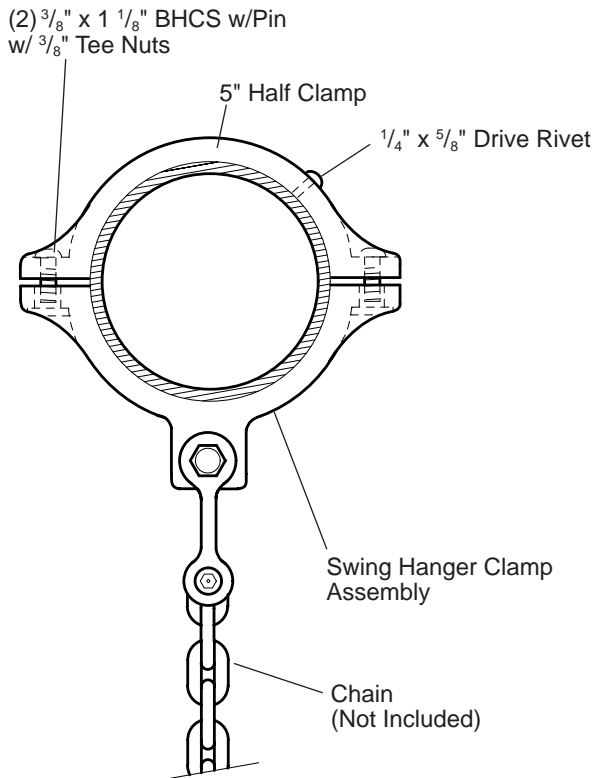


Post Specifications: Post length shall vary depending upon the intended use and shall be a minimum of 42" above the deck height. All posts shall be powdercoated to specified color. All posts shall have a "finished grade marker" positioned on the post identifying the 34" bury line (or 44" bury line for posts for 96" decks) required for correct installation and the top of the loose fill protective surfacing. Top caps for posts shall be aluminum die cast from 369.1 alloy and powdercoated to match the post color. All caps shall be factory installed and secured in place with (3) self sealing rivets. A molded low density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the post to increase the footing area.

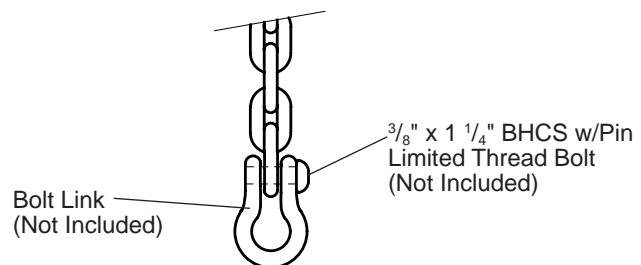
Steel Posts: All steel PlayBooster posts are manufactured from 5" O.D. tubing with a wall thickness of .120" and shall be galvanized after rolling and shall have both the I.D. and the cut ends sprayed with a corrosion resistant coating.

Aluminum Posts: All aluminum PlayBooster posts are manufactured from 6005-T5 extruded tubing conforming to ASTM B-221. Posts shall have a 5" outside diameter with a .125" wall thickness.





NOTE:
Do Not Over-Tighten Limited
Thread Bolt! Threads Should
Not Protude Past Bolt Link.



NOTE:
Position Bolt Head Inward
Facing User.

Swings

111418 Swing Hanger, Belt Swing

Parts List

Part#	Description	Qty.
105327-01	5" Half Clamp, Specify Color	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST.....	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	1
100292-00	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/Pin Ltd. Thread Bolt, SST.....	1
121291-00	Swing Hanger Clamp Assy. Specify Color	1
121289-00	Swing Hanger Clamp, Specify Color	1
127068-00	$\frac{7}{16}$ " x 2 $\frac{7}{16}$ " BHCS w/Pin Ltd. Thread Bolt, SST	1
138917-00	Swing Hanger Double Clevis SST	1
100667-00	Oilite Bushing.....	1

Specifications

Hanger Clamp

Assembly: Cast aluminum. Finish: ProShield®, color specified.

Double Clevis: Stainless Steel.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

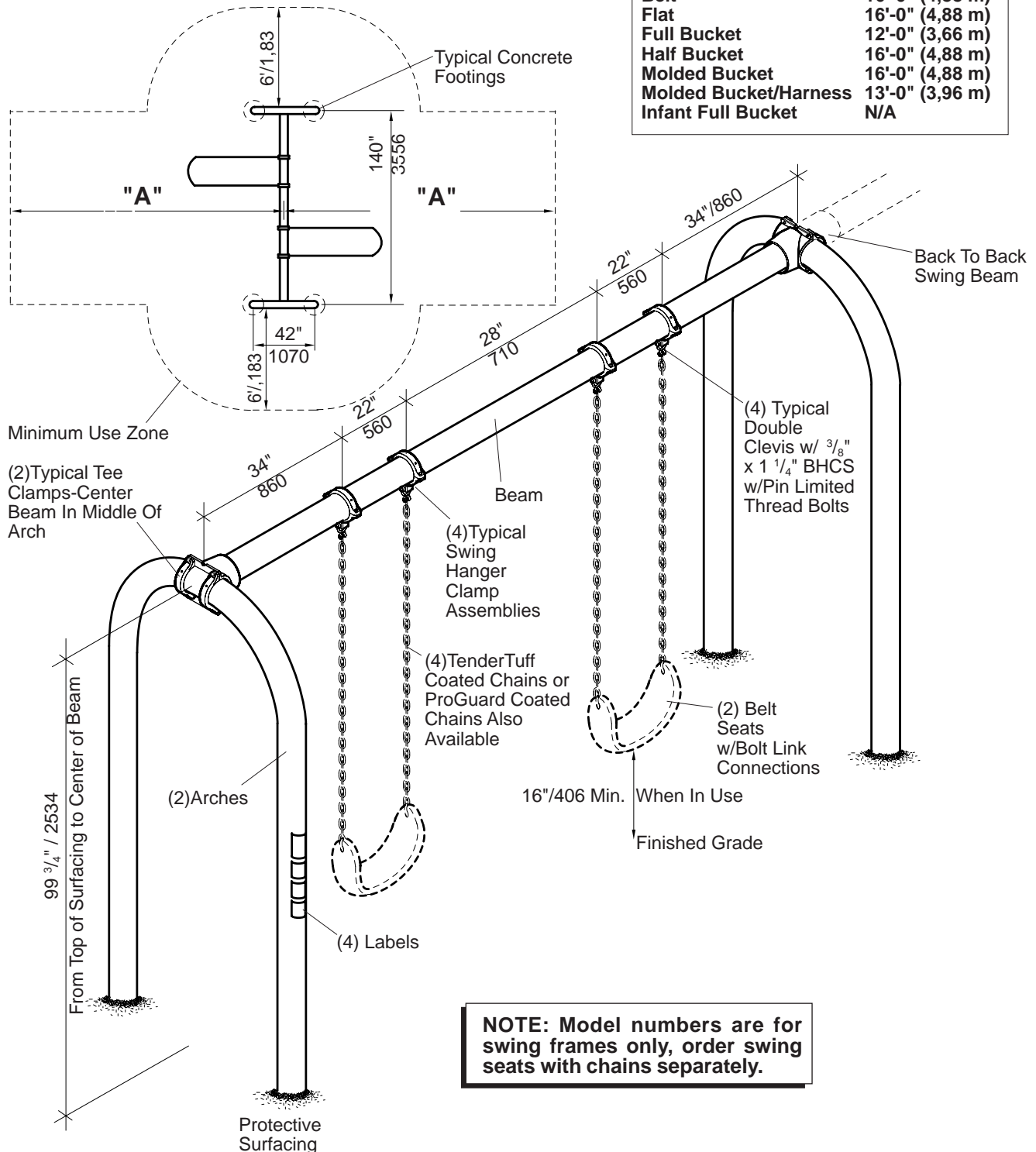
Installation Time: Approx. $\frac{1}{2}$ man hour

Weight: 6 lbs.

Installation Instructions

- 1) Locate and mark location of clamp on beam.
- 2) Attach 5" half clamp and swing hanger clamp to beam using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. *Tighten evenly.*
- 3) **IMPORTANT:** *Drill through holes in 5" half clamps and into 5" pipe with a $\frac{1}{4}$ " or "F" (only) drill bit, tap $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets through 5" half clamps and into pipe, to ensure that clamps remain secure.*
- 4) Attach swing chain to double clevis using $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/pin limited thread bolts.
- 5) Attach swing seat to chains using bolt links with $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/pin limited thread bolts. **NOTE:** *Do not over-tighten limited thread bolt. Threads should not protrude past bolt link. Position bolt head inward facing user.*

PLAN VIEW/FOOTING LAYOUT



NOTE: Model numbers are for swing frames only, order swing seats with chains separately.

Model #221293 Additional Bay

Swings

221292/221293 Arch Swing Frame

Sheet 1 of 2

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #22098600

Parts List

Part#	Description	Qty.	
		2 Pl	Add. Bay
126749	Swing Arch, Specify Color.....	2.....	1
100610	1/4" x 5/8" Drive Rivet, AL/SST	8.....	6
105327	5" Half Clamp, Specify Color	8.....	4*
216492	140" Swing Beam, Specify Color.....	1.....	1
121291	Swing Hanger Clamp Assy. Specify Color	4.....	4
121289	Swing Hanger Clamp, Specify Color	4.....	4
127068	7/16" x 2 7/16" BHCS w/Pin Ltd. Thread, SST	4.....	4
138917	Swing Hanger Double Clevis	4.....	4
100667	Oilite Bushing.....	4.....	4
184227	Arch Swing 5" O.D. Beam Hardware Pkg.	1.....	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8.....	8
113027	3/8" x 1 3/8" BHCS w/Pin, SST	8.....	8
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	4.....	4
100351	3/8" Tee Nut, SST.....	16.....	16
156846	Play Safe Label, 2-12 Yrs.....	1.....	1
128296	3/8" Hex Jam Nut, SST.....	8.....	8
182213	Hot Surface Warning Label	2.....	1
182212	Entanglement Warning Label	2.....	1
115176	Hard Surface Warning Label	2.....	1

* = 5" Half Clamps From 2 PL. End Of Beam Need To Be Used.

Specifications

Arch Posts: See PlayBooster® (PB) General Specifications.

Swing Beam: Weldment comprised of tee clamps and 5" O.D. extruded 6005-T5 aluminum alloy tube with a .125" wall. Finish: ProShield®, color specified.

Clamp: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 8 man hours
Additional Bay 4 man hours

Concrete Req.: Approx. 7.5 cu. ft.

Area Req.: 24'-2 3/4" x 32' (7,39 m x 9,75 m)
Additional Bay 11'-8" x 32' (3,55 m x 9,75 m)

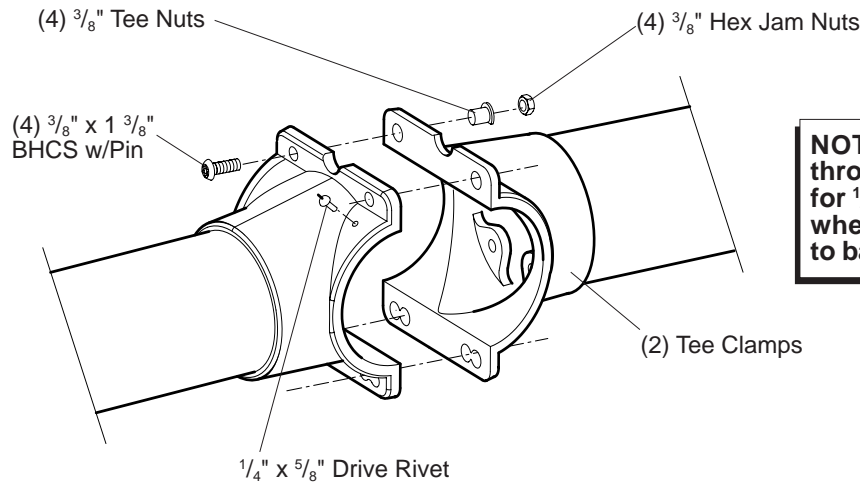
Weight: 204 lbs.
Additional Bay 124 lbs.

Fall Height: 96" (2,43 m)

Installation Instructions

- 1) Dig footings, spaced as shown. Refer to the Concrete Footing Detail.
- 2) Set arches in footing holes and attach swing beam to center of arches using 5" half clamps with 3/8" x 1 3/8" BHCS w/pin and 3/8" tee nuts with 3/8" hex jam nuts. Refer to the Tee Clamp Position Detail. Center of beam should be 99 3/4" above finished grade. When installing back to back swing beams refer to the Back To Back Tee Clamps Detail.
- 3) Level beam and plumb arches and temporarily prop in position. Pour concrete footings and let cure for 72 hours before proceeding.
- 4) Locate, mark and attach swing hanger clamps to beam in locations shown. Refer to the Typical Swing Hanger Clamp Spec Sheet.
- 5) **NOTE:** Refer to specific swing seat installation document for attaching chains and seats.
- 6) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet. Refer to the Back To Back Tee Clamps Detail.
- 7) Apply Play Safe and Warning Labels, as shown.
- 8) Install protective surfacing before users are allowed to play on the swing.

**DETAIL
BACK TO BACK
TEE CLAMPS**



NOTE: Drill 1/4\"

**DETAIL
CONCRETE FOOTING**

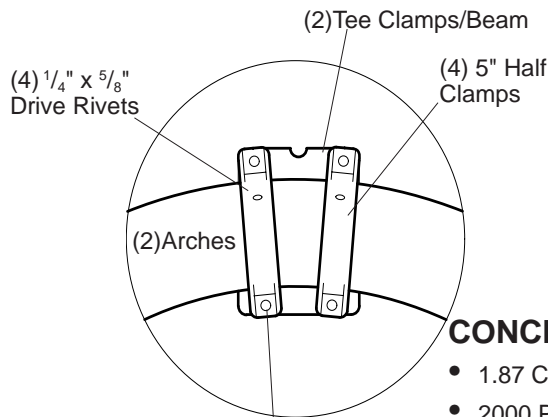
Finish Grade
Sticker

Part Number Label
Example

107700-00-001
BLUE POST WITH FINISH GRADE STICKER

Number Indicates
Post Length

**DETAIL
TEE CLAMP POSITION**

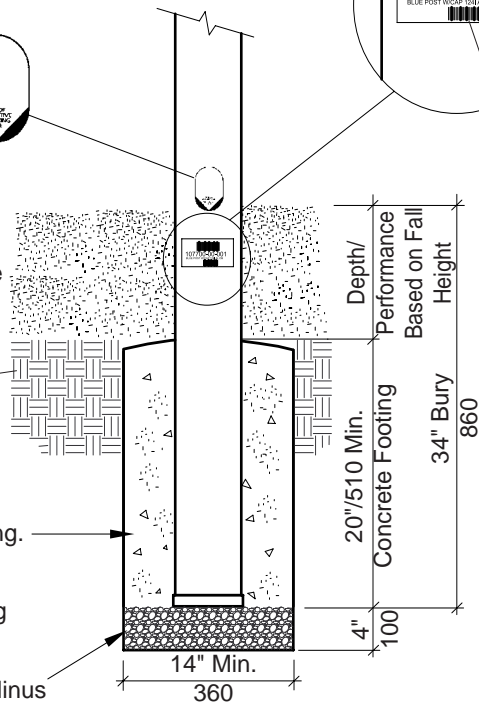


NOTE: Use Inside Holes For
(4) 3/8\" x 1 3/8\"
BHCS w/Pin & 3/8\"
Tee Nuts w/ 3/8\" Hex Jam
Nuts

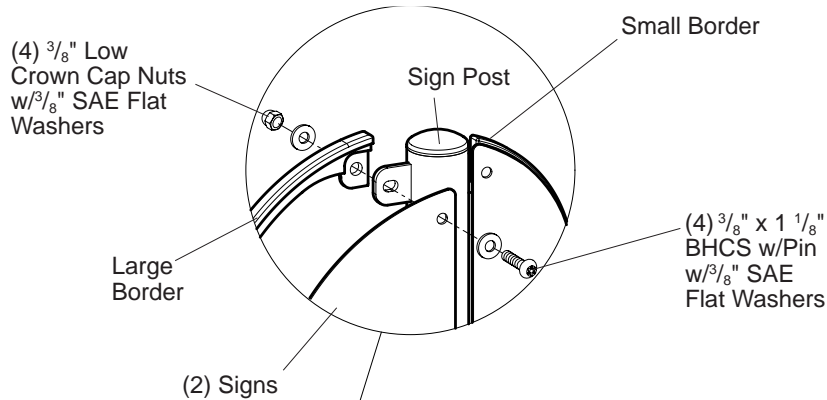
CONCRETE

- 1.87 Cubic Feet per Footing.
- 2000 PSI (Min.)
- 3000 PSI (Min.) If Freezing Conditions Exist.

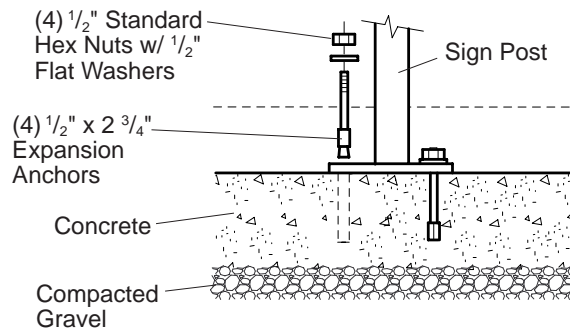
3/4\" Minus
Crushed Rock



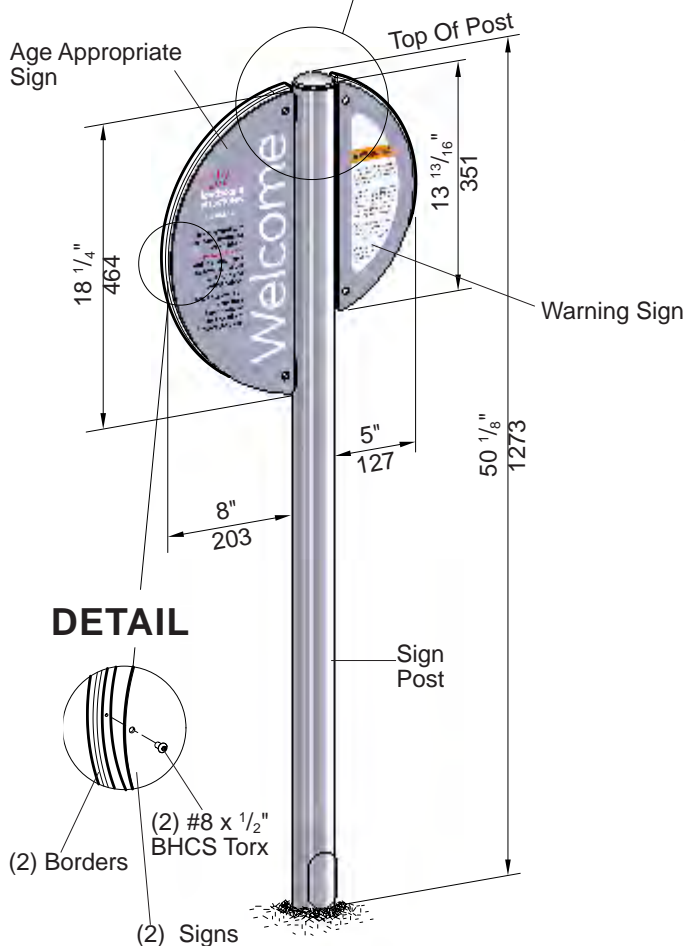
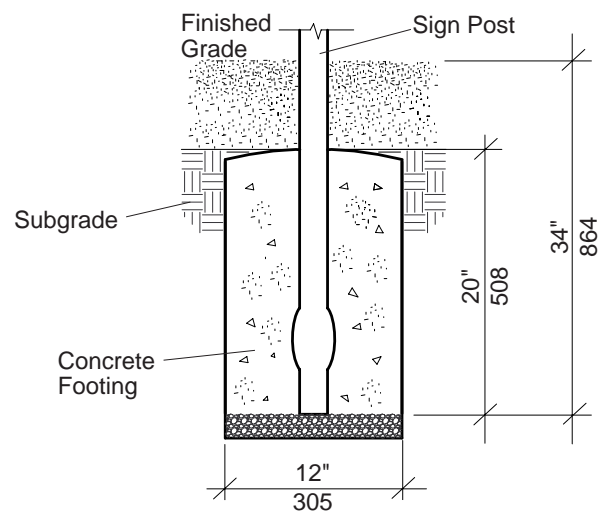
DETAIL SIGN ATTACHMENT



DETAIL SURFACE MOUNT



DETAIL DIRECT BURY FOOTING



Model 182503 - Landscape Structures Provided Welcome Sign
Model 182504 - Welcome Sign

Signs

Welcome Sign

Parts List

Part#	Description	Qty.
219911	Warning Sign, Gray	1
219912	Age Appropriate Sign, 2-12 Years, Gray	*
219913	Age Appropriate Sign, 2-5 Years, Gray	*
219914	Age Appropriate Sign, 5-12 Years, Gray	*
219915	Age Appropriate Sign, 1 1/2-5 Years, Gray	*
219916	Age Appropriate Sign, 1 1/2-12 Years, Gray	*
219918	Age Appropriate Sign, 6-23 Months, Gray	*
180598	Sign Post (DB), Specify Color	*
181119	Sign Post (SM), Specify Color	*
193782	Large Border, Black	1
193783	Small Border, Black	1
213258	Age/Warning Sign Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100349	3/8" Low Crown Cap Nut, SST	4
100365	3/8" SAE Flat Washer, SST	8
168323	#8 x 1/2" BHCS Torx, SST	2
169413	1/4-6 Lobe T-15 Tamp. Bit	1
121348	4 Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor	4
100322	1/2" Standard Hex Nut, SST	4
100363	1/2" Flat Washer, SST	4

DB = Direct Bury

SM = Surface Mount

* = Quantity Determined By Your Order

Specifications

Sign Panel: Panel is fabricated from 1/8" (.125")(3,17 mm) aluminum plate. Finish: ProShield®, gray in color. **(Sign)** Digital image is transferred to a 1/8" (.125")(3,17 mm) ProShield coated aluminum plate, then infused into the ProShield.

Border: Permalene, black in color.

Post: Weldment comprised 2.375" (60,33 mm) O.D. RS20 (.095-.105) (2,41 mm-2,67 mm) wall galvanized tube, 1/4" (6,35 mm) HRPO steel sheet and aluminum post cap. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: **(DB)** Approx. 1 man hour
(SM) Approx. 1/2 man hour

Concrete Req: Approx. 1.31 cu. ft.

Weight: **(DB)** - 24 lbs.
(SM) - 27 lbs.

Installation Instructions

Direct Bury

- 1) Dig footing hole to depth and diameter shown.
- 2) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers. Attach signs to borders using #8 x 1/2" BHCS Torx.
- 3) Set sign assembly in footing hole and temporarily brace in plumb position.
- 4) Pour concrete footing. After concrete has cured, remove bracing.

Surface Mount

- 1) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers. Attach signs to borders using #8 x 1/2" BHCS Torx.
- 2) With sign in proper position, using a 1/2" masonry bit and hammer drill, drill 3" deep holes into concrete slab through holes in post plate. Tap 1/2" x 2 3/4" expansion anchors into holes and secure using 1/2" standard hex nuts with 1/2" flat washers.

COUNTRY GROVE PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

COUNTRY GROVE PARK

MADISON, WI

2 TO 5 YEAR OLDS OPTION #2



(800) 775-8937 Main
(608) 423-7655 Fax
809 Bluebird Pass
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



VIEW A

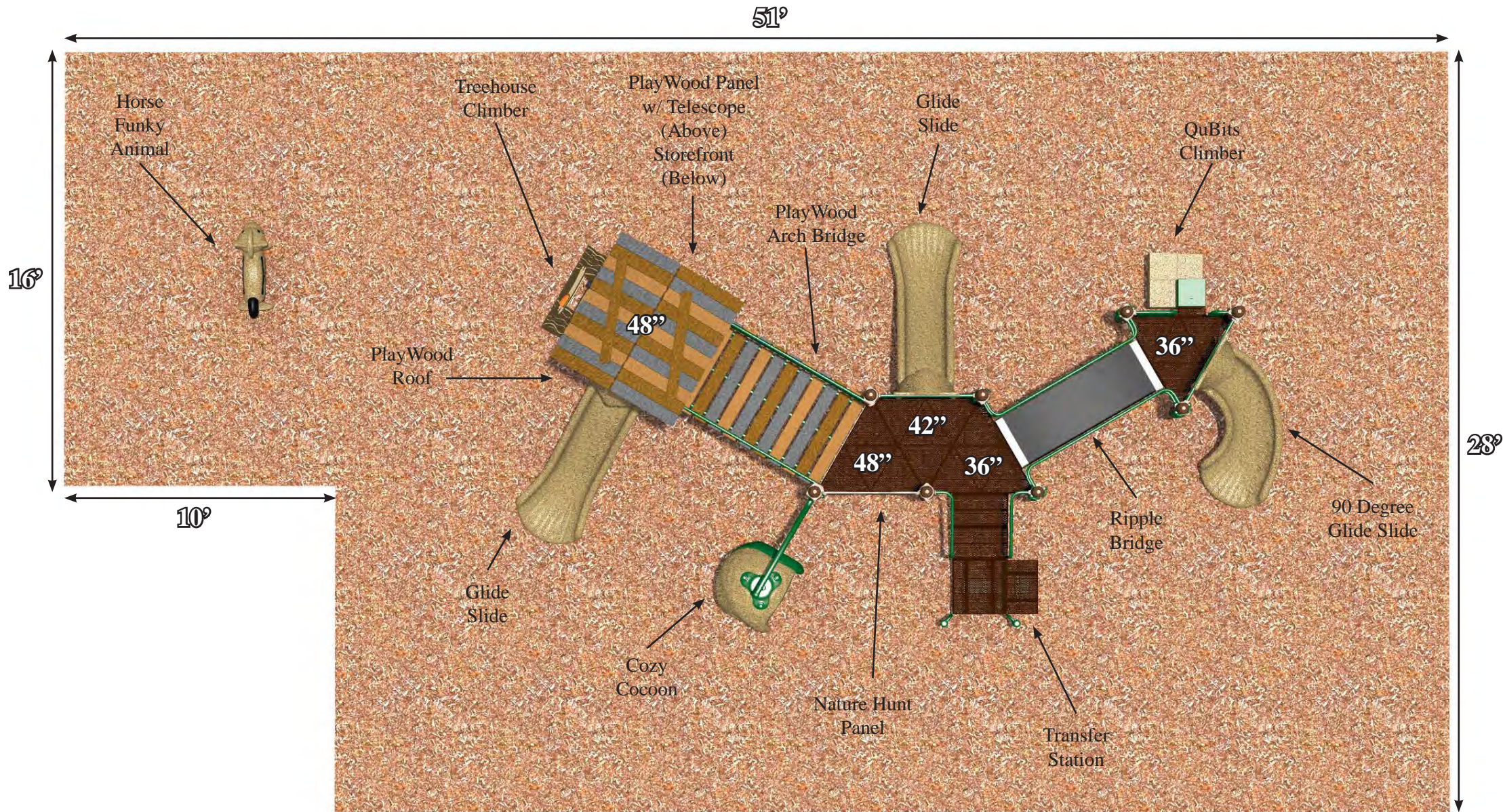


VIEW B



COUNTRY GROVE PARK

MADISON, WI 2 TO 5 YEAR OLDS OPTION #2



(800) 775-8937 Main
(608) 423-7655 Fax
809 Bluebird Pass
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW120616-2

Use Zone: 51' x 28'

of Users: 40

of Active Play Events: 11

Age: 2 to 5

Colors Shown:





Assembly View *(representative model)*

Installation Instructions

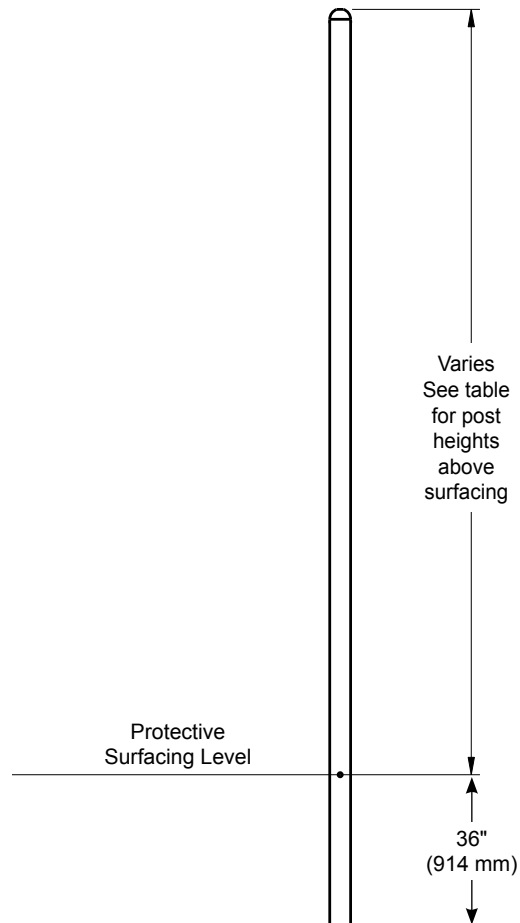
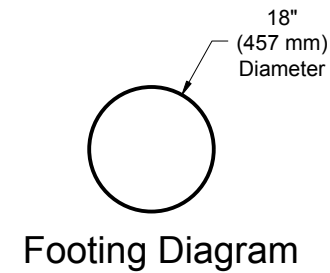
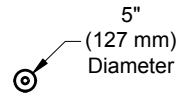
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
ZZPM0036A	144" (3658 mm)	108" (2743 mm)
ZZPM0046A	156" (3962 mm)	120" (3048 mm)
ZZPM0056A	168" (4267 mm)	132" (3353 mm)
ZZPM0066A	180" (4623 mm)	144" (3658 mm)
ZZPM0078A	205" (5207 mm)	169" (4293 mm)
ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

Installation Instructions

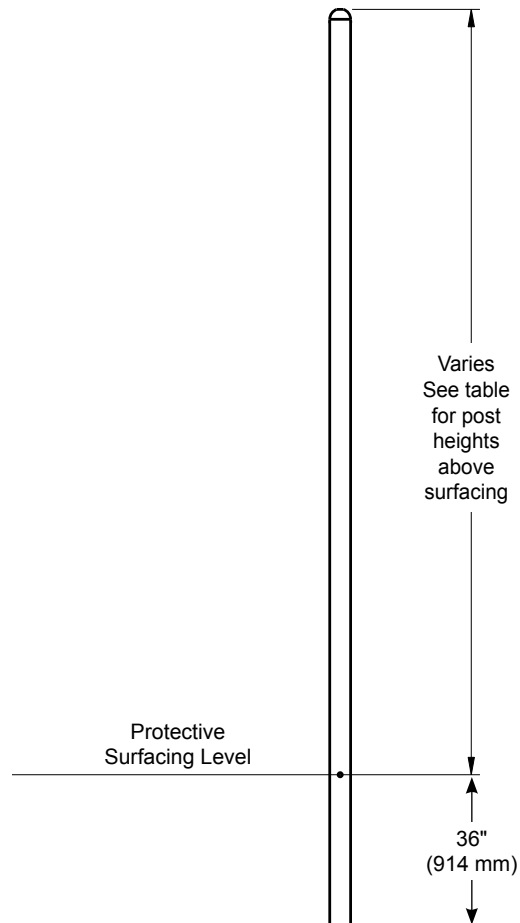
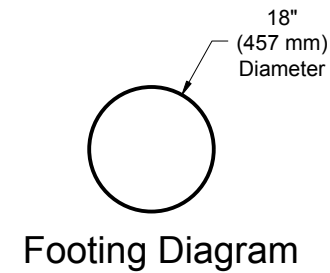
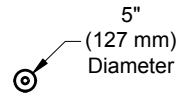
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
ZZPM0036A	144" (3658 mm)	108" (2743 mm)
ZZPM0046A	156" (3962 mm)	120" (3048 mm)
ZZPM0056A	168" (4267 mm)	132" (3353 mm)
ZZPM0066A	180" (4623 mm)	144" (3658 mm)
ZZPM0078A	205" (5207 mm)	169" (4293 mm)
ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

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Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

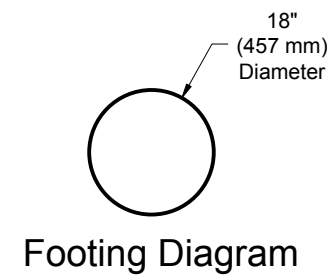
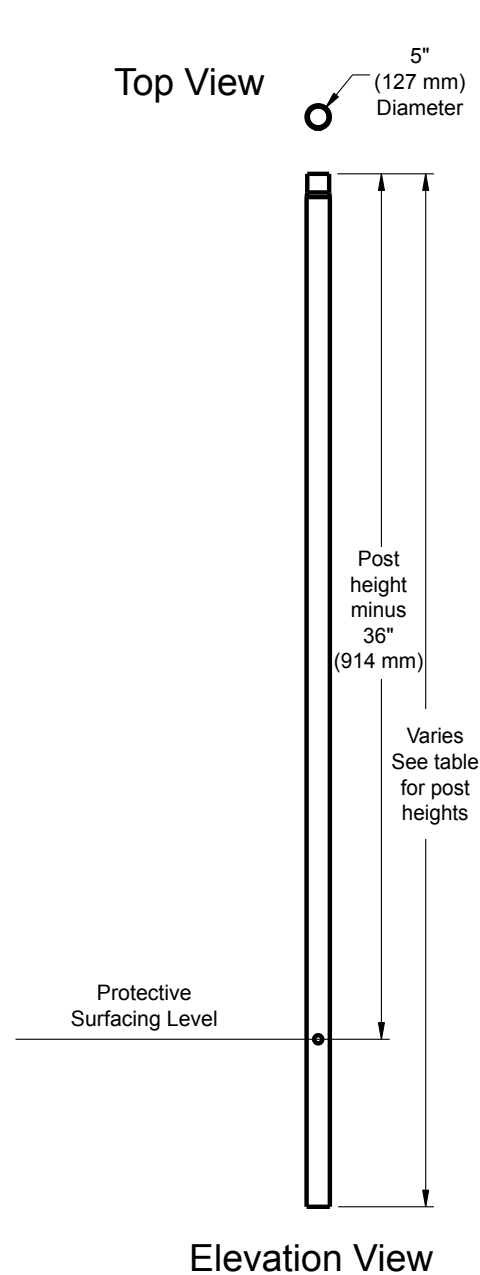
Installation Instructions

Playmakers® Models PM0218A-19A,
PM0226A-29A, PM0236A, PM0238A,
PM0247A, PM0277A, PM0287A-89A
Swaged Aluminum Support Post
92 in. (2337 mm) to 234 in. (5944 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Weight
ZZPM0218A	92" (2337 mm)	22.3 lbs. (10,1 kg)
ZZPM0219A	104" (2642 mm)	23.8 lbs. (10,8 kg)
ZZPM0226A	116" (2946 mm)	25.4 lbs. (11,5 kg)
ZZPM0227A	128" (3251 mm)	25.9 lbs. (11,8 kg)
ZZPM0228A	140" (3556 mm)	25.9 lbs. (11,8 kg)
ZZPM0229A	152" (3861 mm)	31.1 lbs. (14,1 kg)
ZZPM0236A	164" (4166 mm)	41.4 lbs. (18,8 kg)
ZZPM0238A	176" (4470 mm)	48.4 lbs. (22 kg)
ZZPM0247A	201" (5105 mm)	51.3 lbs. (23,3 kg)
ZZPM0277A	213" (5410 mm)	41.5 lbs. (18,9 kg)
ZZPM0287A	188" (4775 mm)	39.3 lbs. (17,9 kg)
ZZPM0288A	222" (5639 mm)	46.4 lbs. (21,1 kg)
ZZPM0289A	234" (5944 mm)	49 lbs. (22,3 kg)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



PM0218A - SWAGED ALUMINUM SUPPORT POST 92 in. (2337 mm)

PART NO.	DESCRIPTION	QTY.
APT0315	POST - 5" x 962 SWAGED ALUMINUM SUPPORT	1

PM0219A - SWAGED ALUMINUM SUPPORT POST 104 in. (2642 mm)

PART NO.	DESCRIPTION	QTY.
APT0319	POST - 5" x 104" SWAGED ALUMINUM SUPPORT	1

PM0226A - SWAGED ALUMINUM SUPPORT POST 116 in. (2946 mm)

PART NO.	DESCRIPTION	QTY.
APT0323	POST - 5" x 116" SWAGED ALUMINUM SUPPORT	1

PM0227A - SWAGED ALUMINUM SUPPORT POST 128 in. (3251 mm)

PART NO.	DESCRIPTION	QTY.
APT0327	POST - 5" x 128" SWAGED ALUMINUM SUPPORT	1

PM0228A - SWAGED ALUMINUM SUPPORT POST 140 in. (3556 mm)

PART NO.	DESCRIPTION	QTY.
APT0331	POST - 5" x 140" SWAGED ALUMINUM SUPPORT	1

PM0229A - SWAGED ALUMINUM SUPPORT POST 152 in. (3861 mm)

PART NO.	DESCRIPTION	QTY.
APT0335	POST - 5" x 152" SWAGED ALUMINUM SUPPORT	1

PM0236A - SWAGED ALUMINUM SUPPORT POST 164 in. (4166 mm)

PART NO.	DESCRIPTION	QTY.
APT0354	POST - 5" x 164" SWAGED ALUMINUM SUPPORT	1

PM0238A - SWAGED ALUMINUM SUPPORT POST 176 in. (4470 mm)

PART NO.	DESCRIPTION	QTY.
APT0359	POST - 5" x 176" SWAGED ALUMINUM SUPPORT	1

PM0247A - SWAGED ALUMINUM SUPPORT POST 201 in. (5105 mm)

PART NO.	DESCRIPTION	QTY.
APT0363	POST - 5" x 201" SWAGED ALUMINUM SUPPORT	1

PM0277A - SWAGED ALUMINUM SUPPORT POST 213 in. (5410 mm)

PART NO.	DESCRIPTION	QTY.
APT0388	POST - 5" x 213" SWAGED ALUMINUM SUPPORT	1

PM0287A - SWAGED ALUMINUM SUPPORT POST 188 in. (4775 mm)

PART NO.	DESCRIPTION	QTY.
APT0543	POST - 5" x 188" SWAGED ALUMINUM SUPPORT	1

PM0288A - SWAGED ALUMINUM SUPPORT POST 222 in. (5639 mm)

PART NO.	DESCRIPTION	QTY.
APT0544	POST - 5" x 222" SWAGED ALUMINUM SUPPORT	1

PM0289A - SWAGED ALUMINUM SUPPORT POST 234 in. (5944 mm)

PART NO.	DESCRIPTION	QTY.
APT0545	POST - 5" x 234" SWAGED ALUMINUM SUPPORT	1

Installation Instructions

Playmakers® PM0616 and PM0629

Square and Long Coated Perforated Decks



ZZPM0616
Square Deck










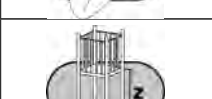
ZZPM0629
Long Deck

Assembly View

Installation Preparation

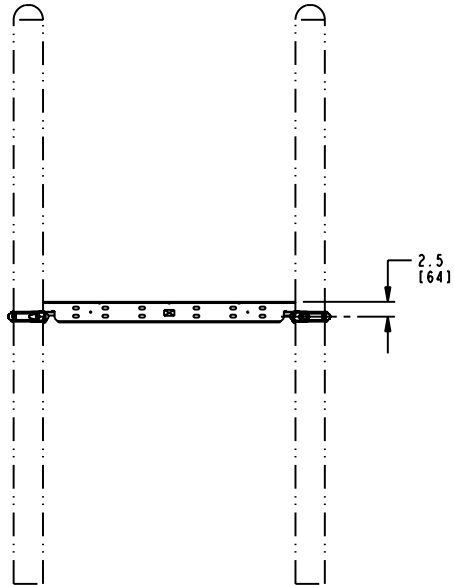
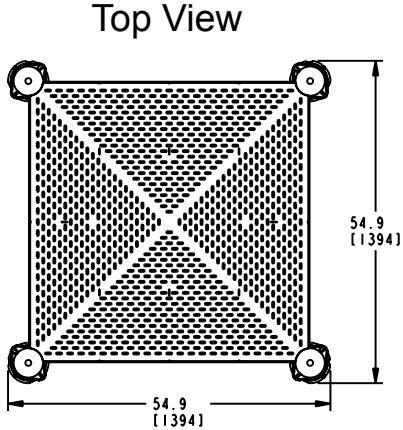
Recommended Crew (PM0616):..... Two (2) adults
 Recommended Crew (PM0629):..... Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

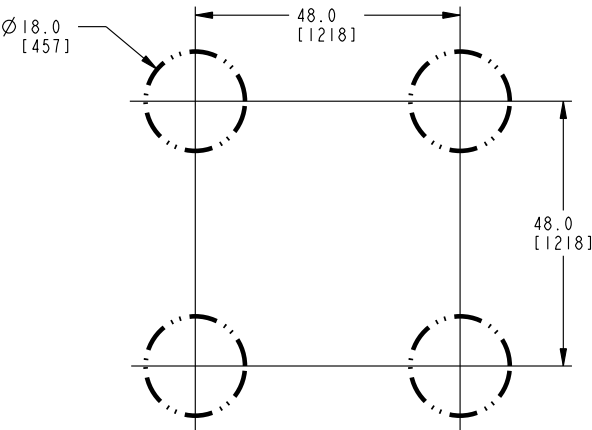
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

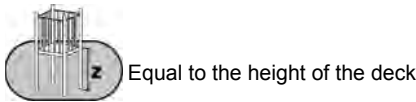
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Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

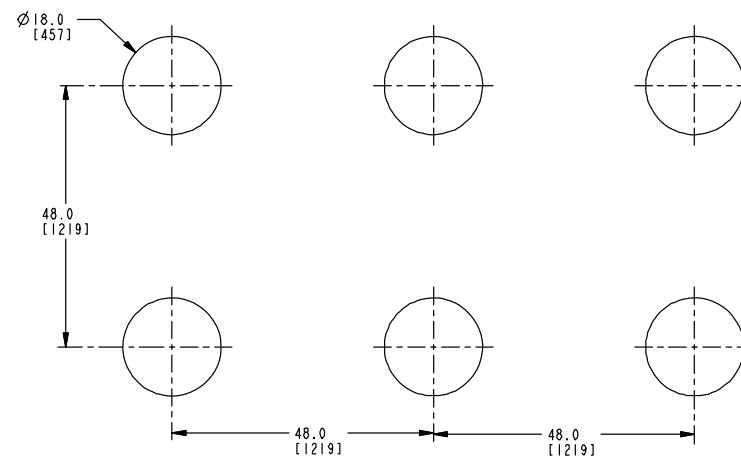
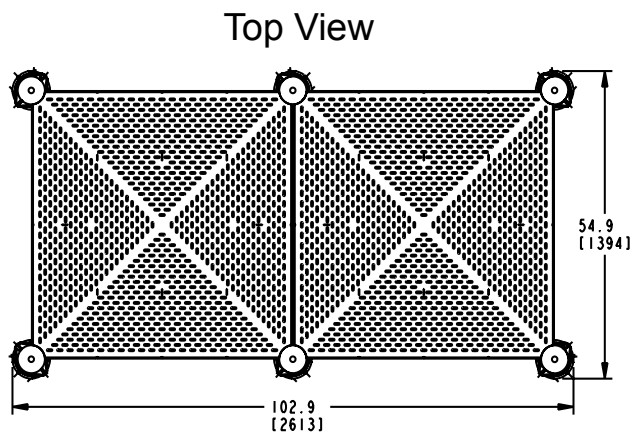


Footing Diagram

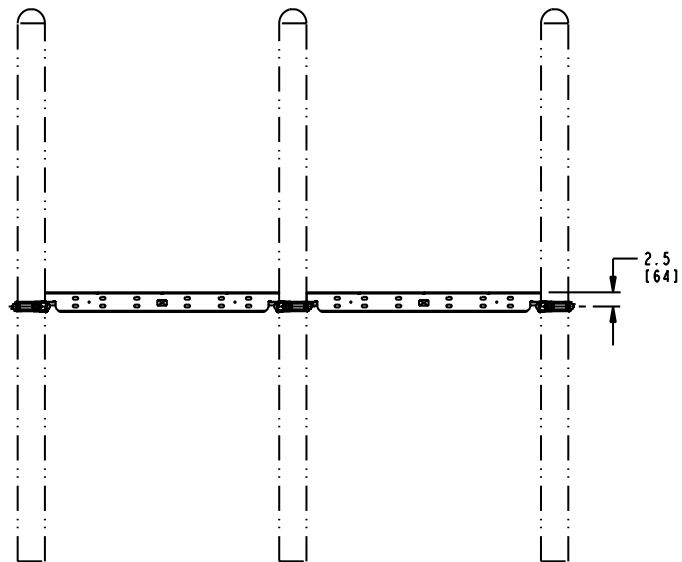


Installation Instructions

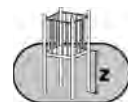
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Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation View
Model PM0629

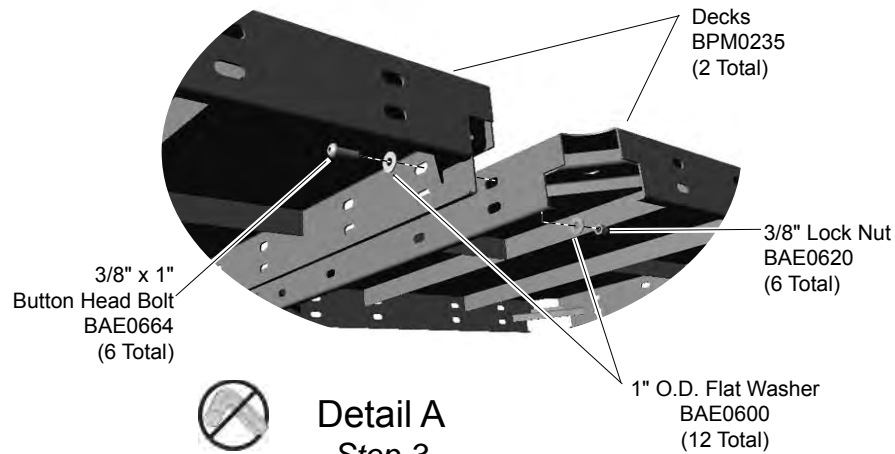


Equal to the height of the deck

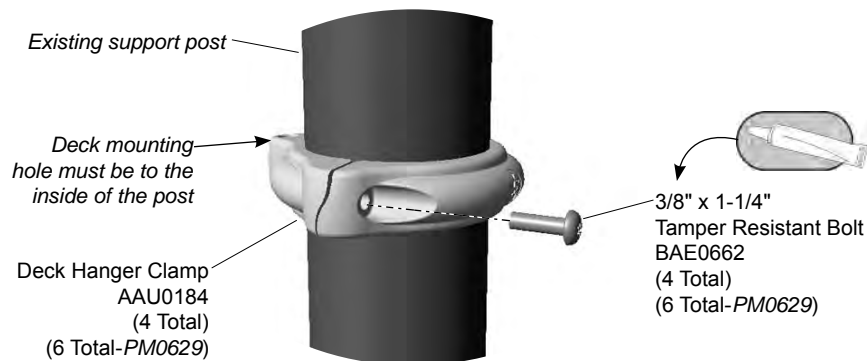


Installation Instructions

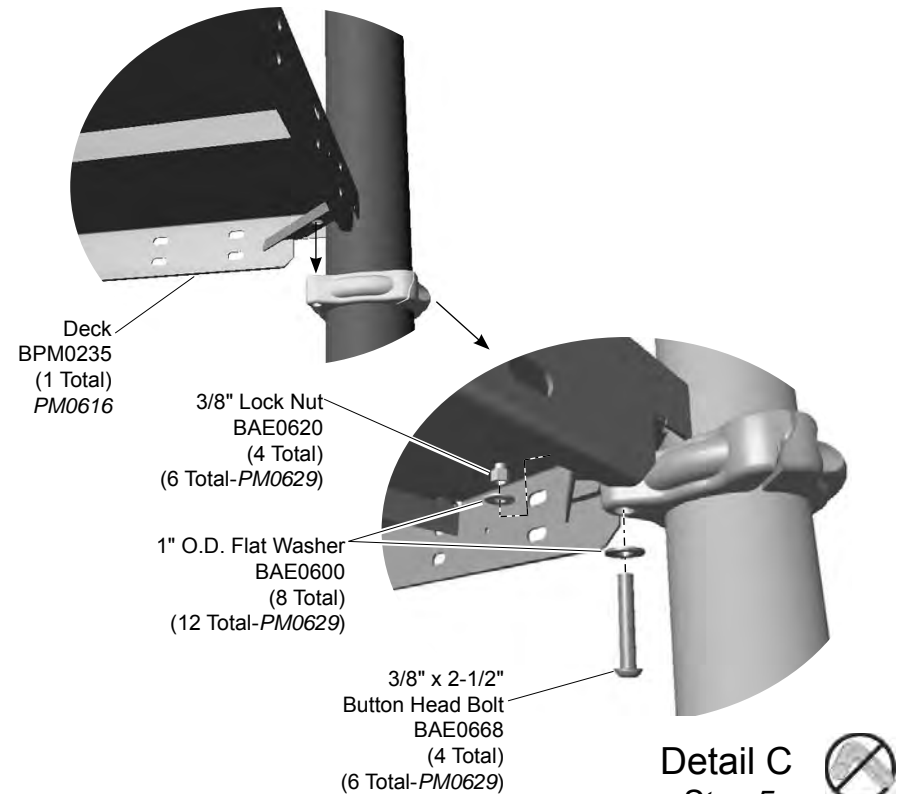
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



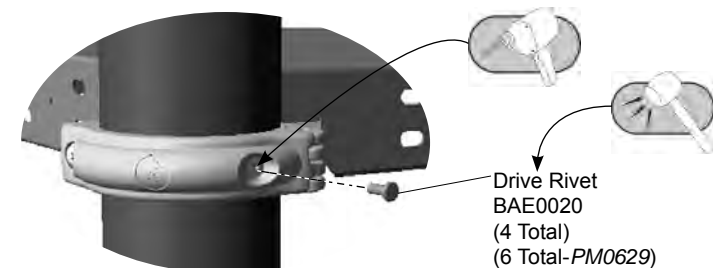
Detail A
Step 3
(Model PM0629 Only)
Attach the two decks together.



Detail B
Step 4
Attach the deck clamps to the support posts.



Detail C
Step 5
Attach the decks to the clamps.



Detail D
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0235	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



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Installation Instructions

Playmakers® PM0617, and PM0639

Triangular and 45 Degree Tri-Deck

Coated Perforated Decks



ZZPM0617
Triangular Deck




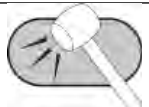



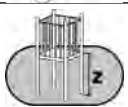


ZZPM0639
45 Degree Tri-Deck

Assembly View

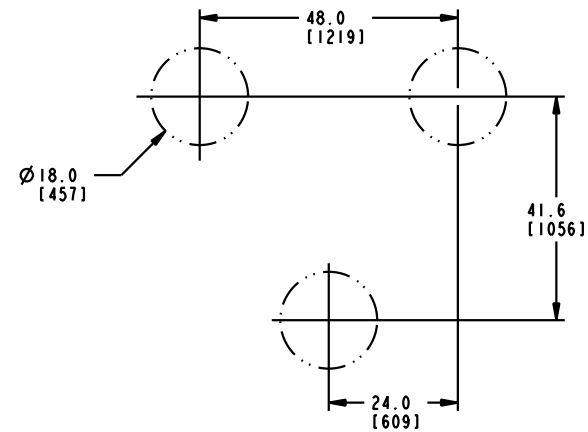
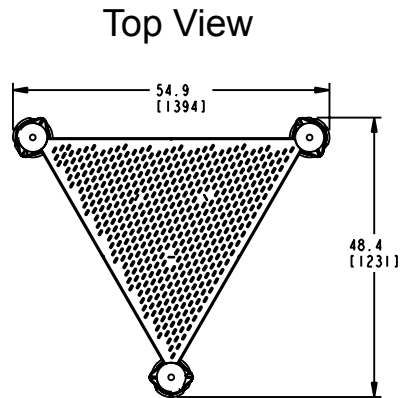
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

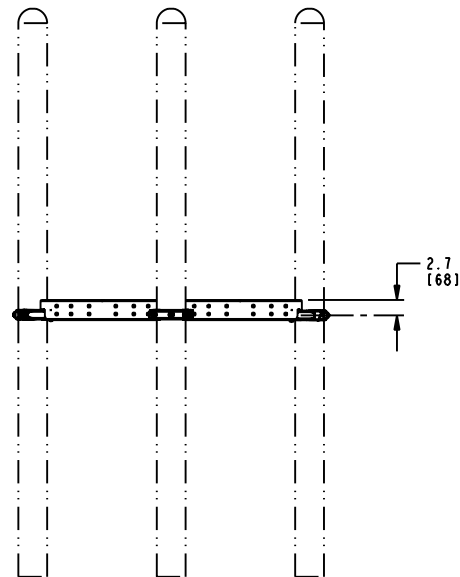
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

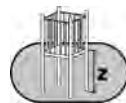
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



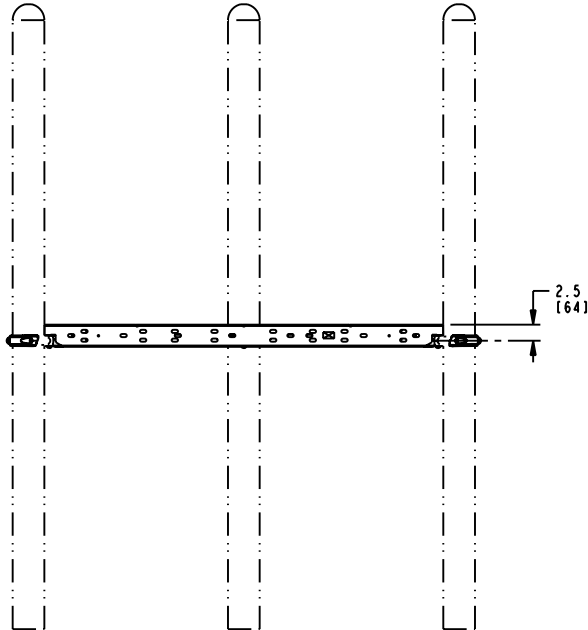
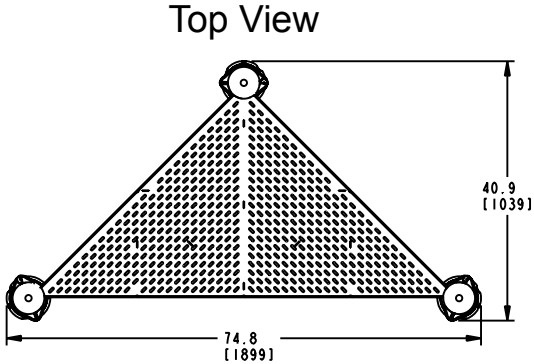
Elevation View
Model PM0617



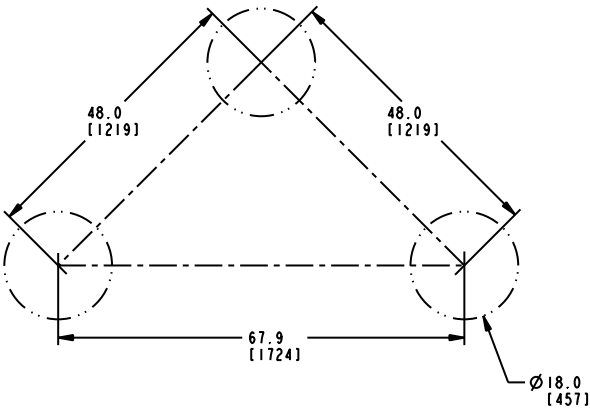
Equal to the height of the deck

Installation Instructions

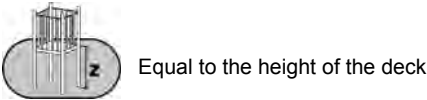
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0639

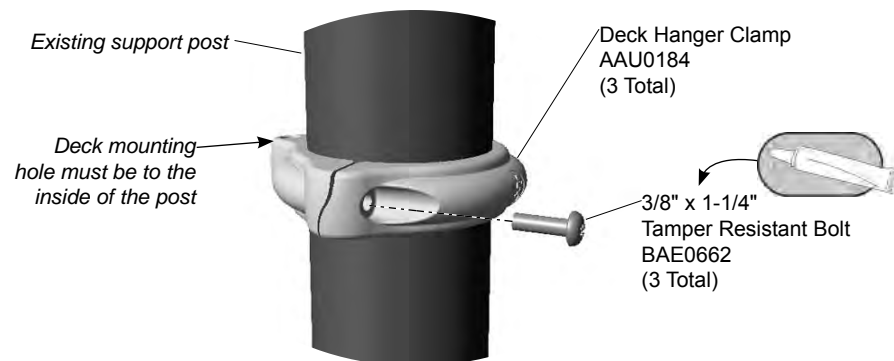


Footing Diagram



Installation Instructions

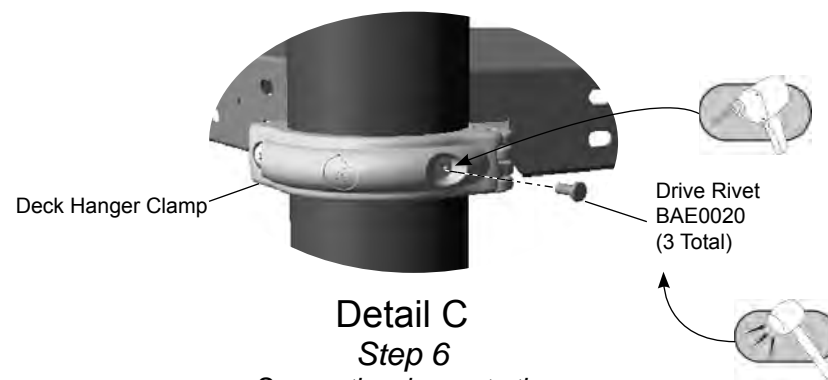
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A

Step 3

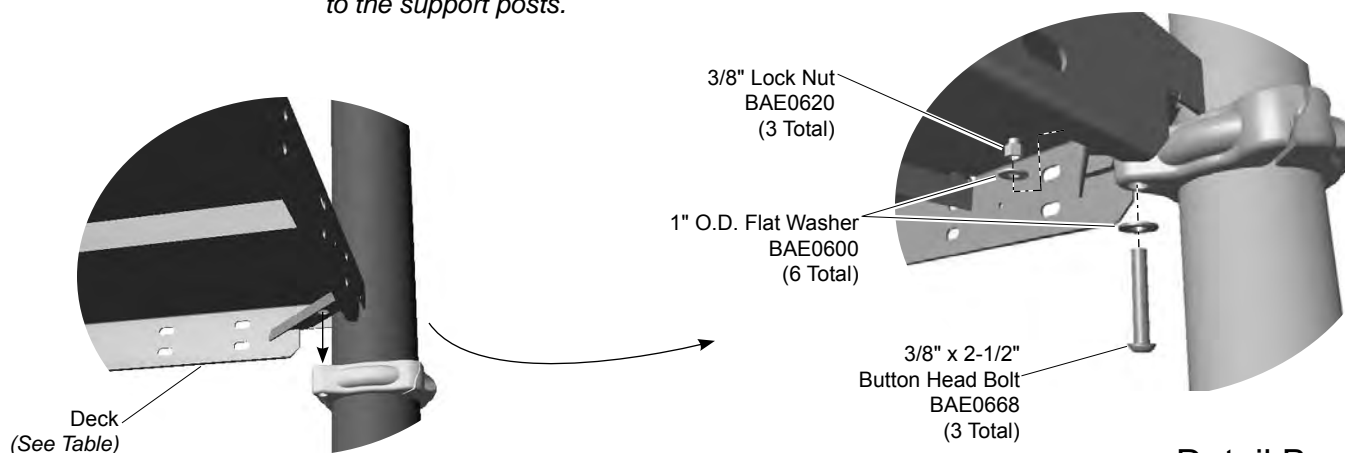
Attach the deck hanger clamps to the support posts.



Detail C

Step 6

Secure the clamps to the support posts.



Detail B

Step 4

Attach the deck to the deck hanger clamps.

Model	Deck Shape	Deck Part Number
ZZPM0617	Triangular	BPM0287
ZZPM0639	45° Tri-Deck	BPM0289

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: Attach the clamps to the support posts. See **Detail A**. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 4: Attach the deck to the clamps. See **Detail B**. Using adequate manpower, position the deck between the posts and resting on top of the clamps. Align the holes and attach as shown.

Final Details.

Step 5: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



PM0617 - TRIANGULAR COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0287	PLATFORM - PM TRIANGULAR PERF	1

PM0639 - 45 DEGREE TRI-DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0289	PLATFORM - PM 45 DEG TRI DECK	1



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Assembly View (representative model)

Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S

36 in. (914 mm) Transfer Station and
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (In-Ground): 3 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.09 cubic yard (0,07 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

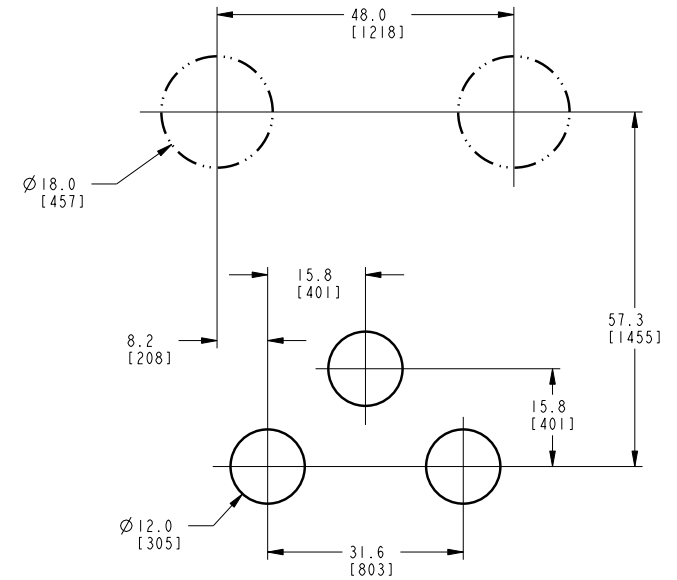
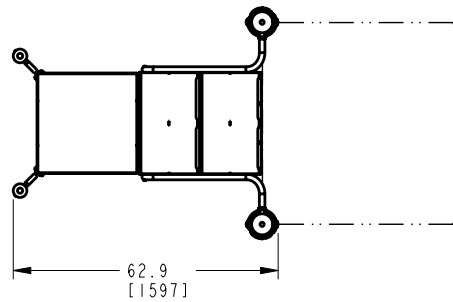
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

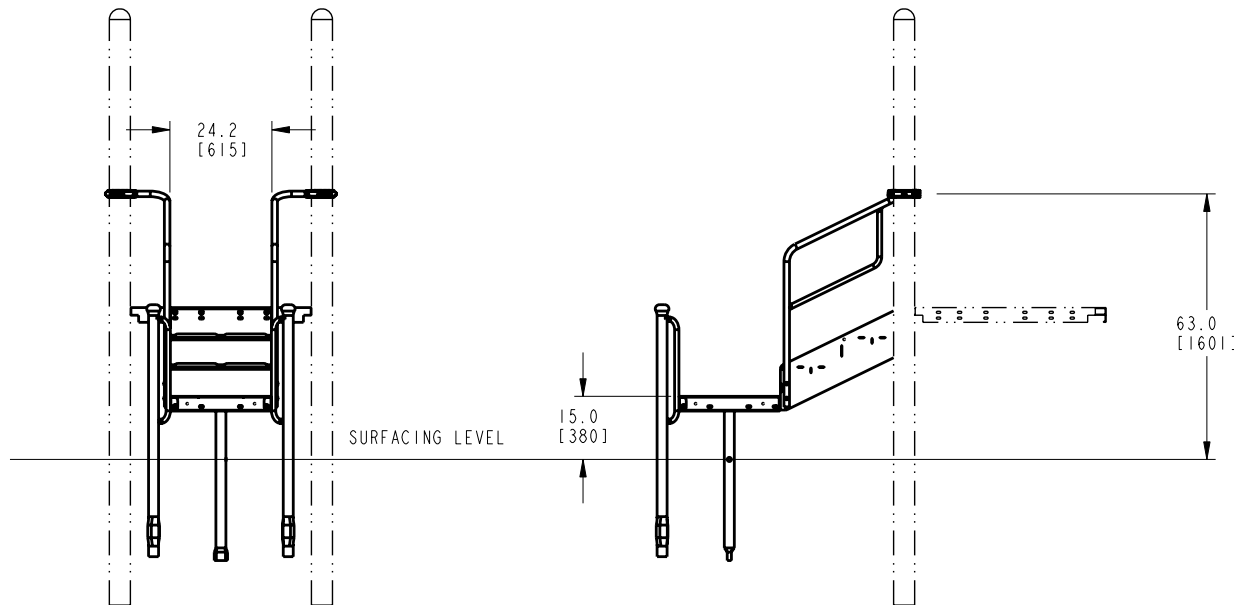
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

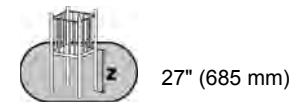
Top View



Footing Diagram



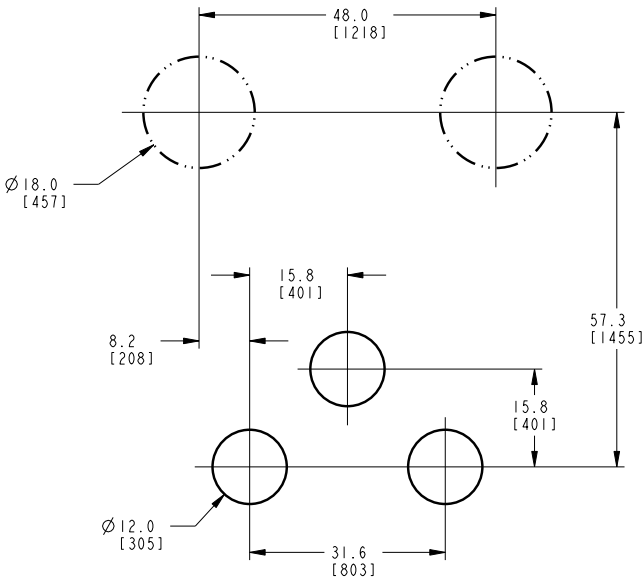
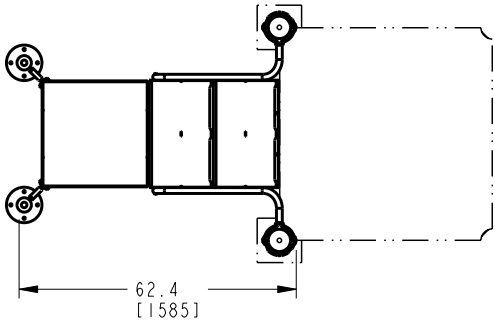
Elevation View
PM2006



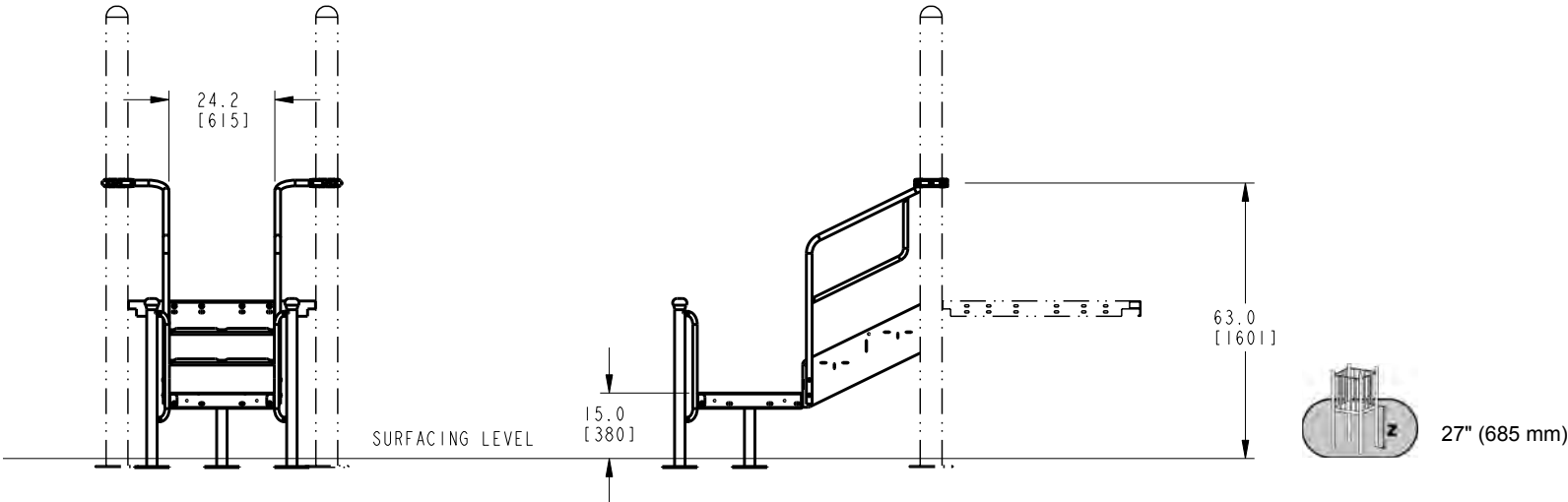
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram



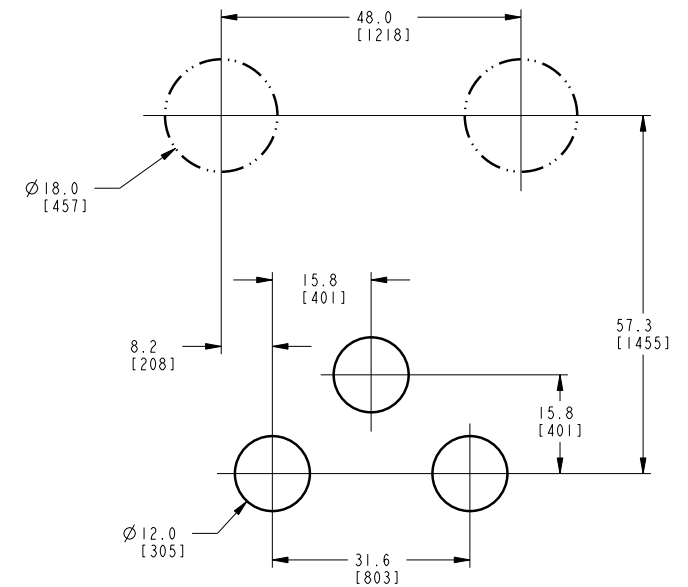
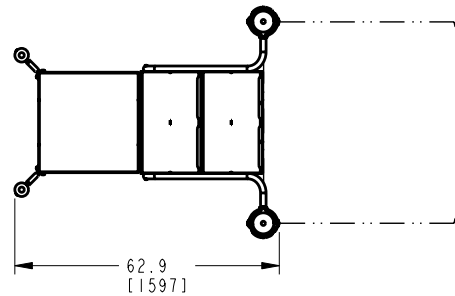
Elevation View
PM2006S



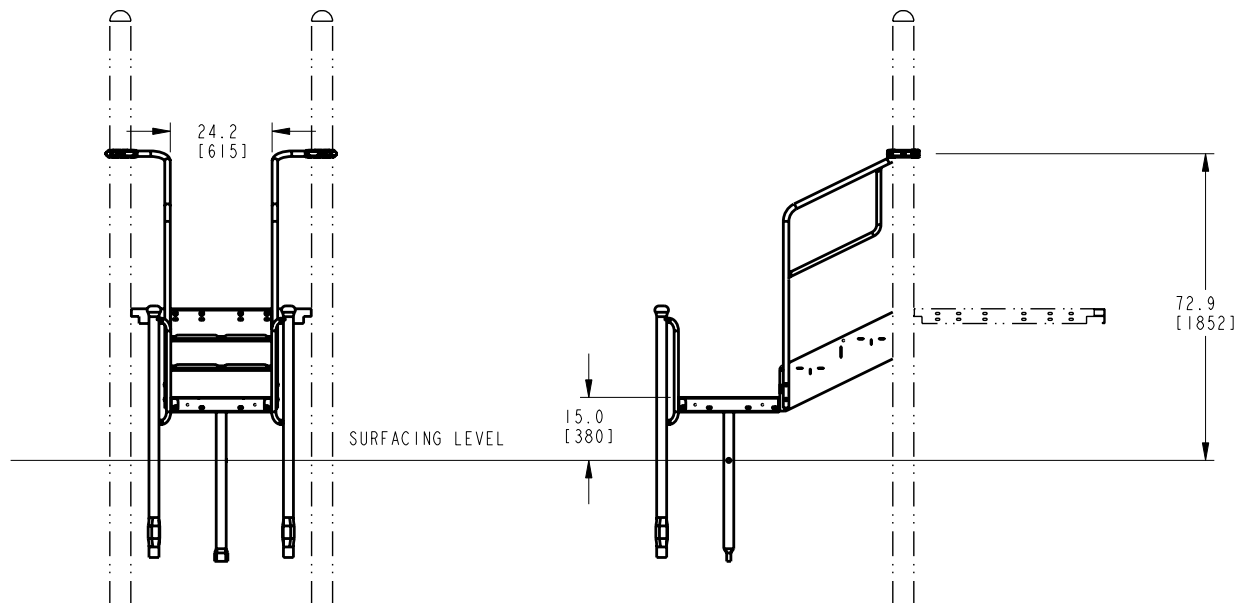
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

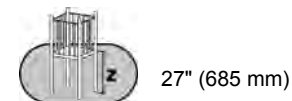
Top View



Footing Diagram



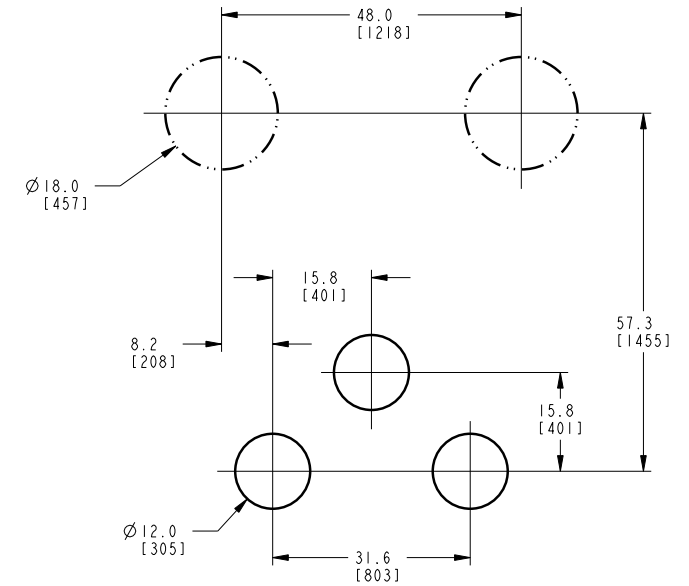
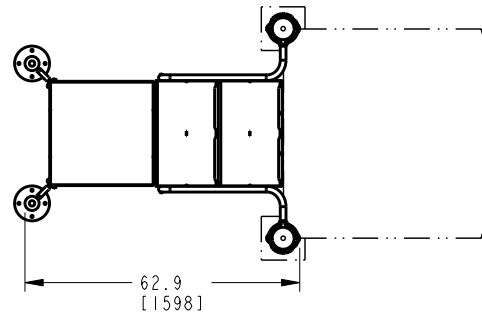
Elevation Views
PM2007



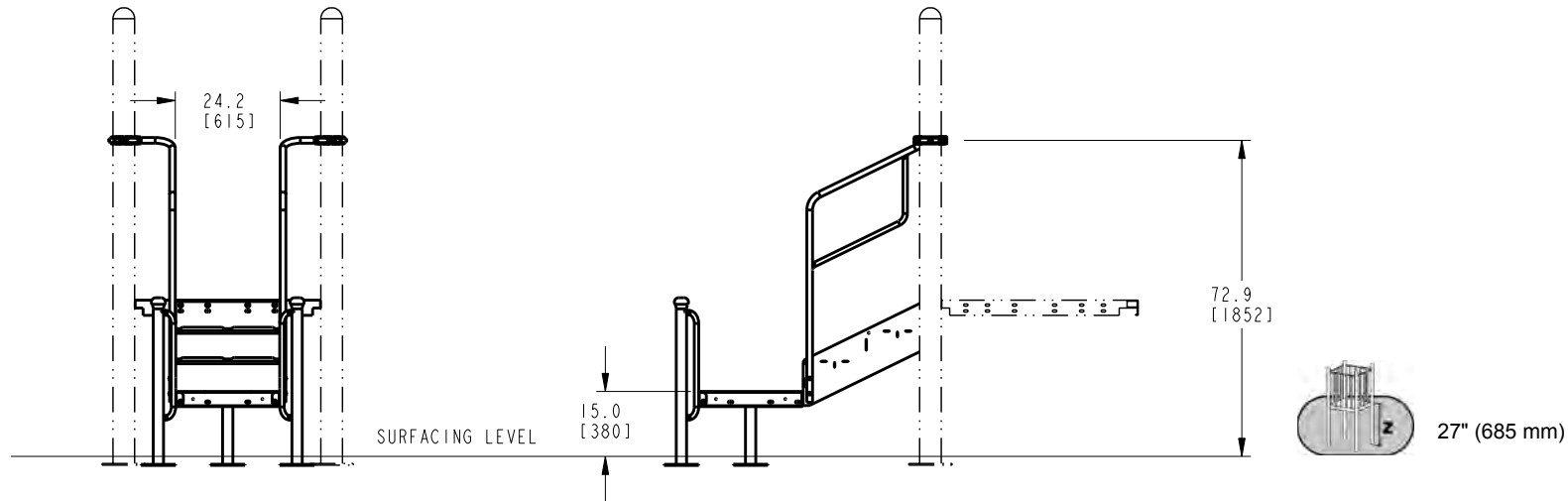
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



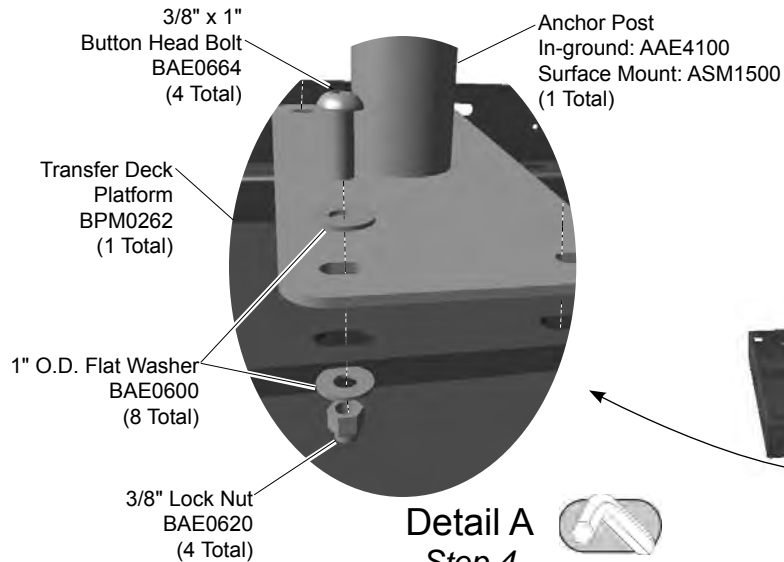
Footing Diagram



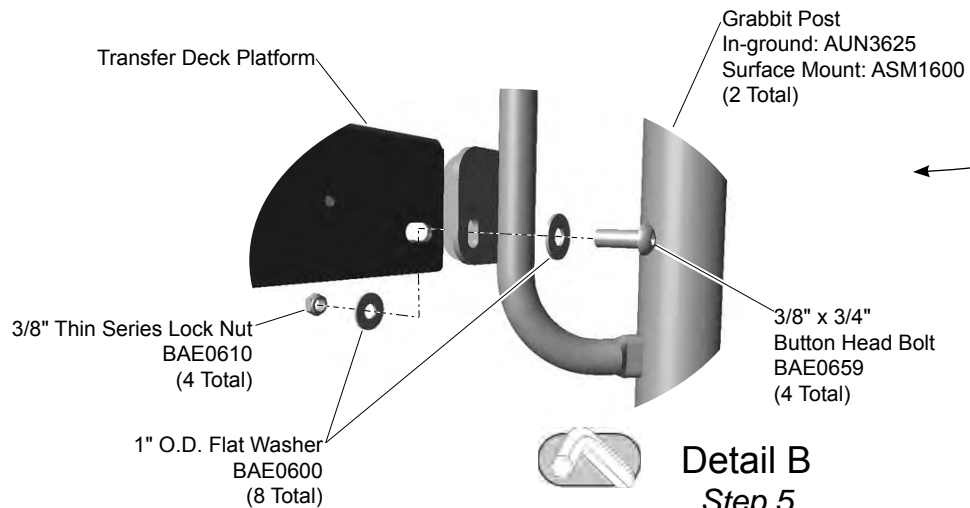
Elevation Views
PM2007S

Installation Instructions

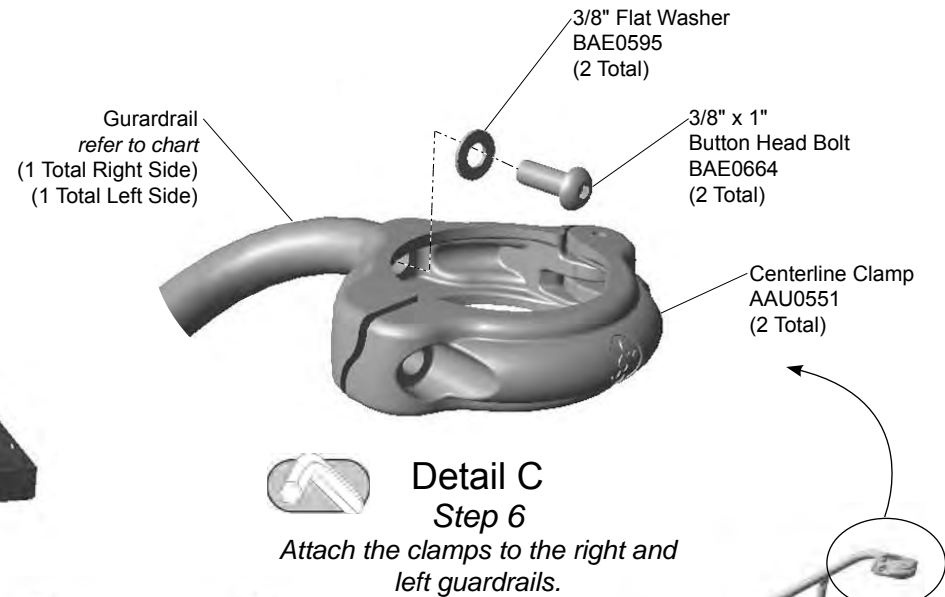
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4
Attach the anchor post to the transfer deck.



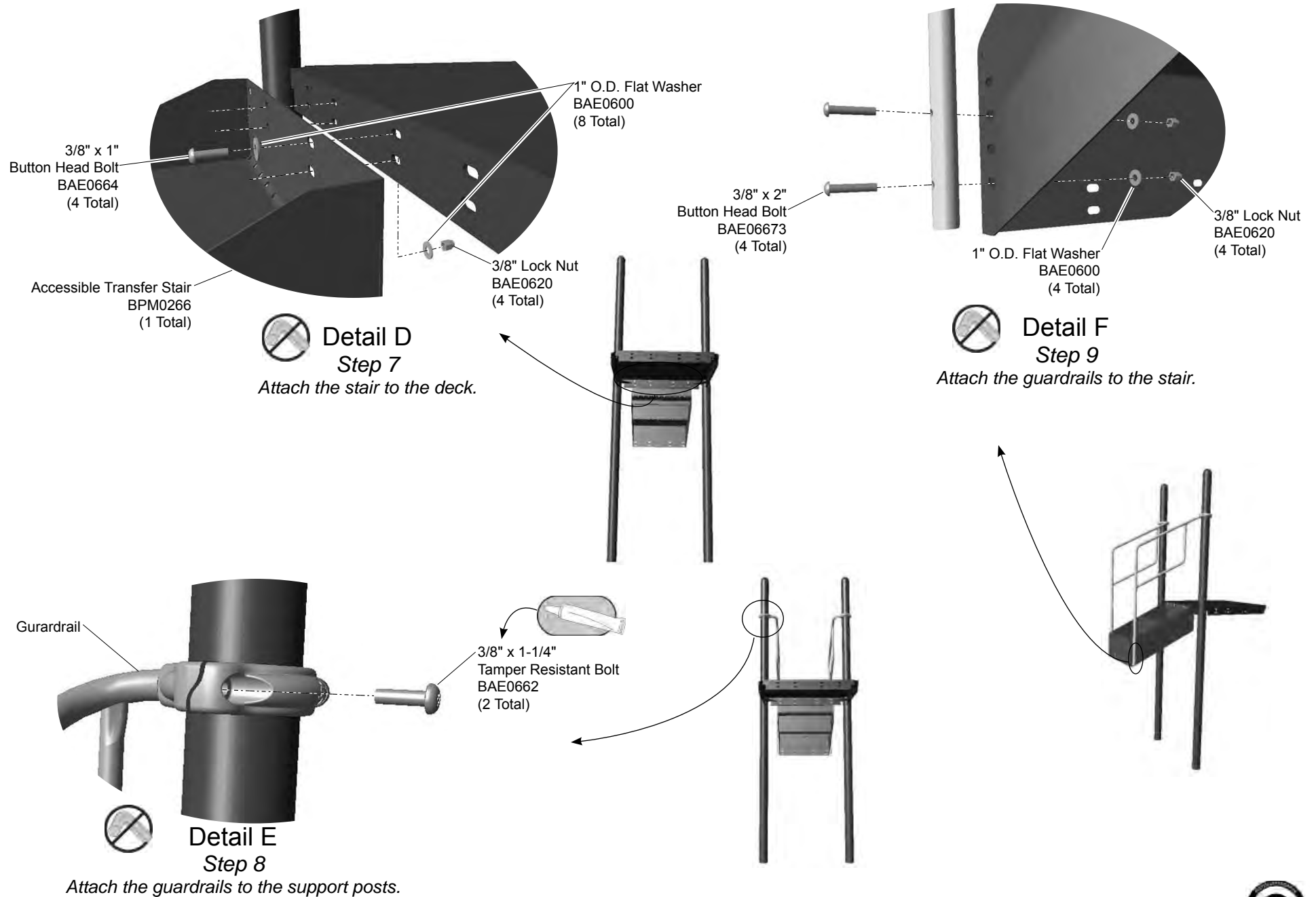
Detail B
Step 5
Attach the grabbit post to the platform.



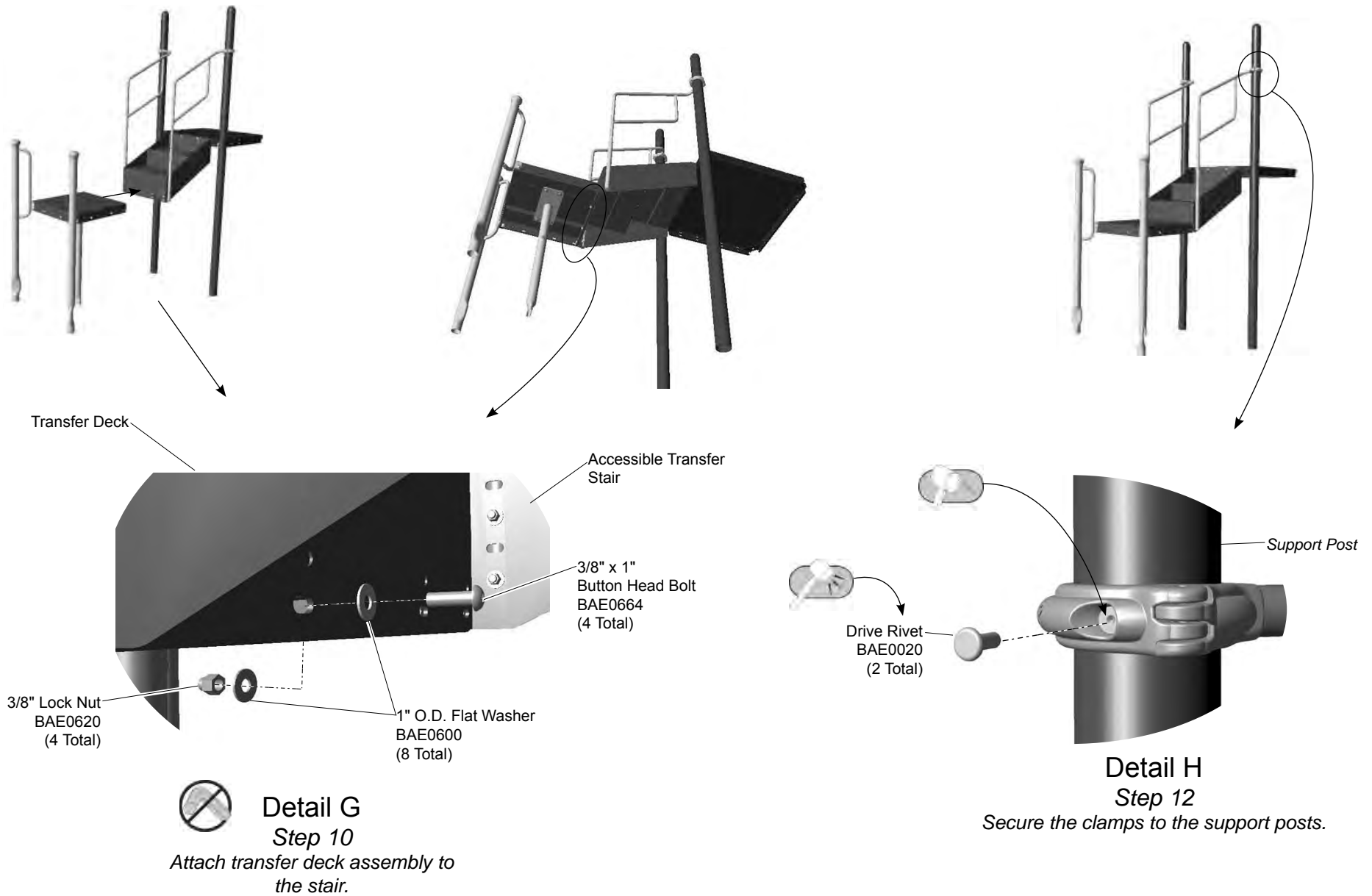
Detail C
Step 6
Attach the clamps to the right and left guardrails.

Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056

Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

Attach the anchor post to the transfer deck.

Step 4: Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbits to transfer deck.

Step 5: Attach grabbits to transfer deck. See **Detail B**. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.

Step 6: Attach the clamps to guardrails. See **Detail C**. Position the end of each guardrail top rail against the neck of each clamp and attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

Step 7: Attach the stairs to existing support deck. See **Detail D**. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.

Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.

The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.

Step 9: Attach the guardrails to the stair. See **Detail F**. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

Step 10: Attach transfer deck assembly to the stair. See **Detail G**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBL COATED TRANSFER w/SLOTS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBLE COATED TRANSFER w/SLOTS	1

ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSIBLE COATED TRANSFER w/SLOTS	1





Assembly View







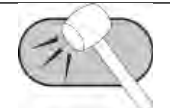
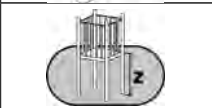
Installation Instructions

Universal Model UN2019

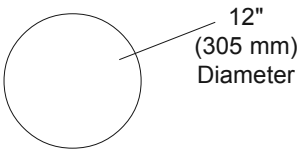
Platform Approach Step

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

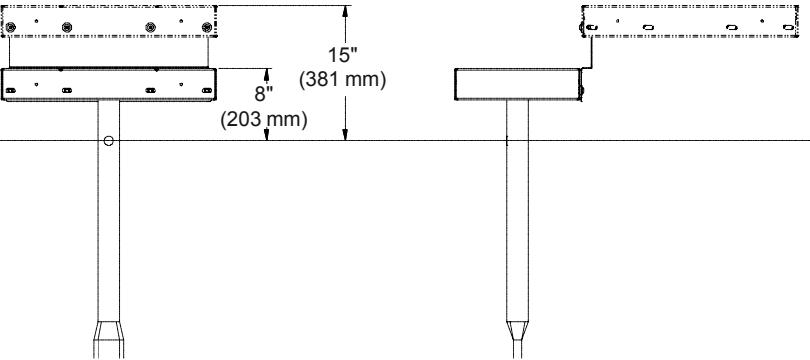
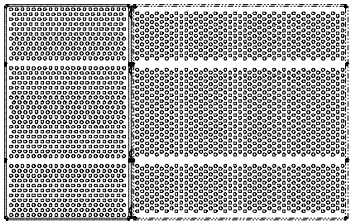
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions

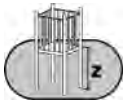


Footing Diagram

Top View



Elevation Views

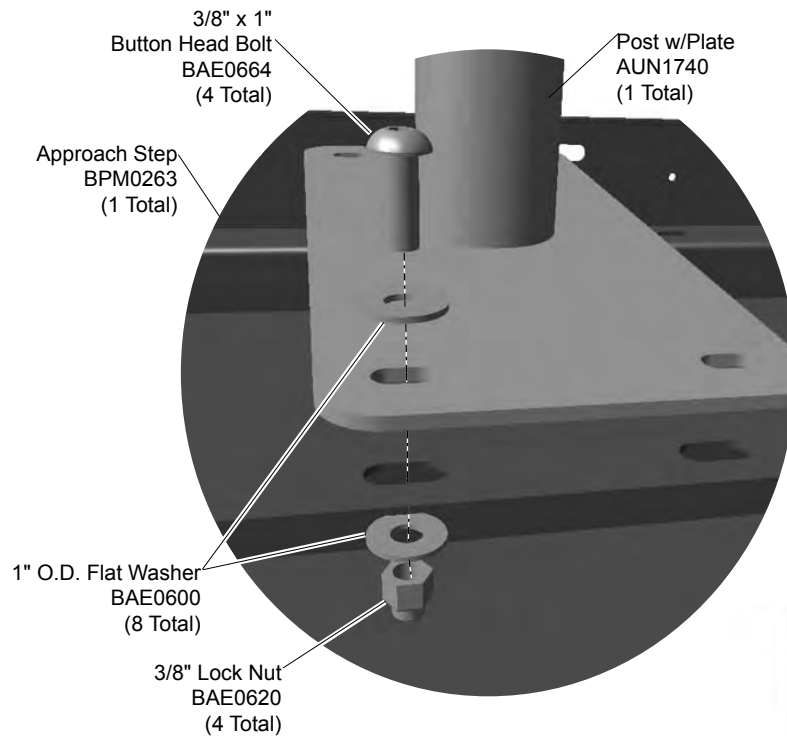


15" (381 mm)



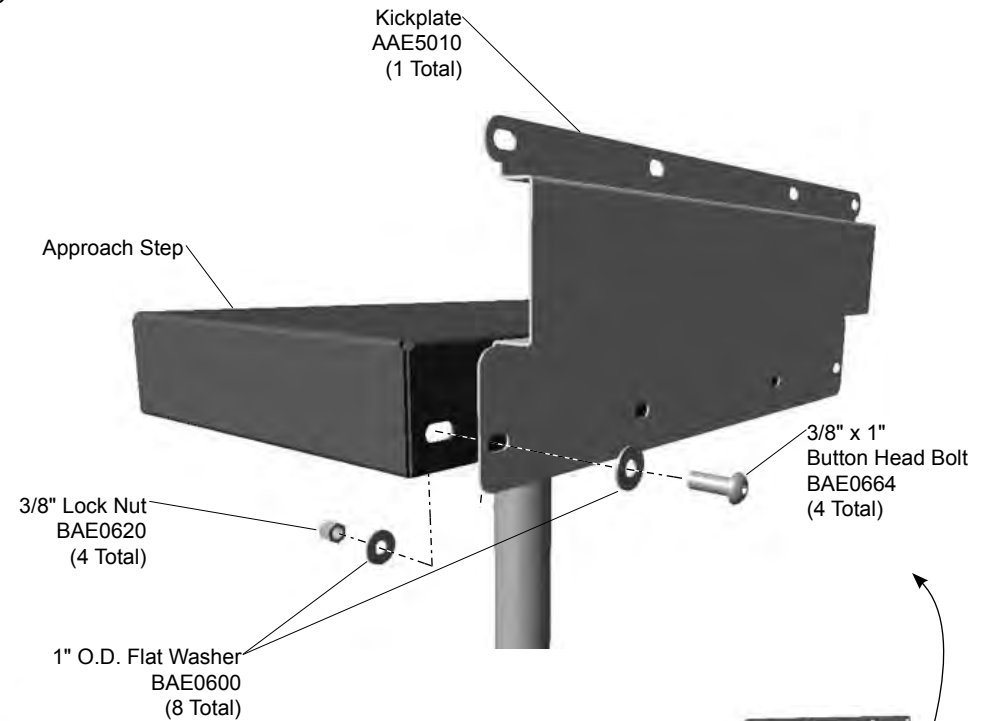
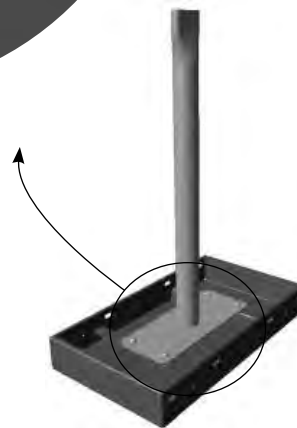
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 4

Attach the anchor post to the approach step.

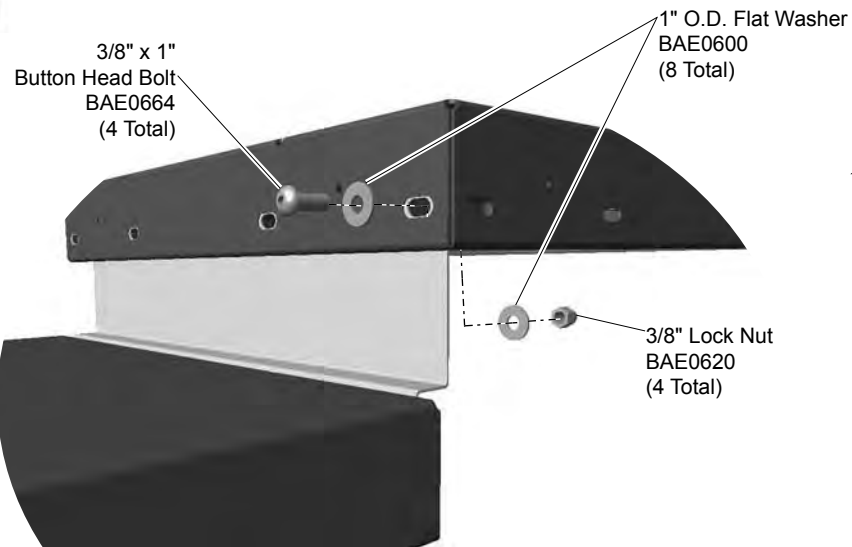
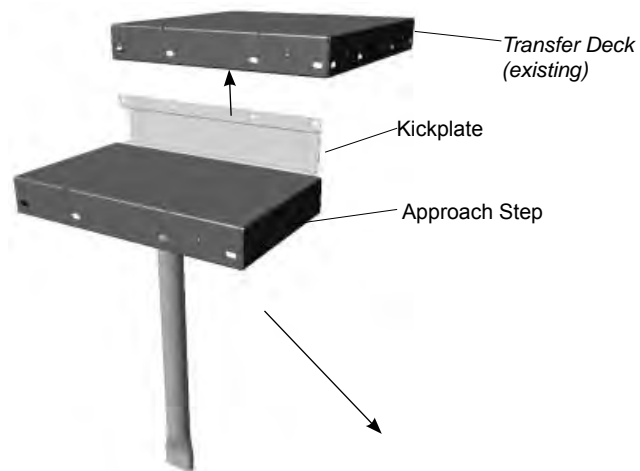


Detail B Step 5

Attach the kickplate to the approach step.



Installation Instructions



Step 6

Attach the kickplate to the transfer deck.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

Step 4: Attach the support leg to the approach step. See **Detail A**. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

Step 5: Attach the kickplate to the approach step. See **Detail B**. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM8599 and PM8599S







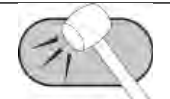
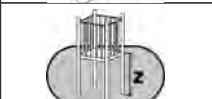
Cozy Cocoon

In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (in-ground): 1.5 man-hours
 Installation Time (surface mount): 1 man-hour
 Concrete Required: 0.13 cubic yard (0,10 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

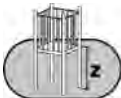
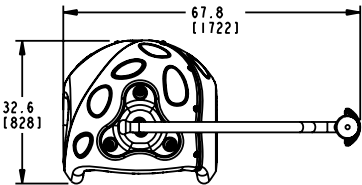
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

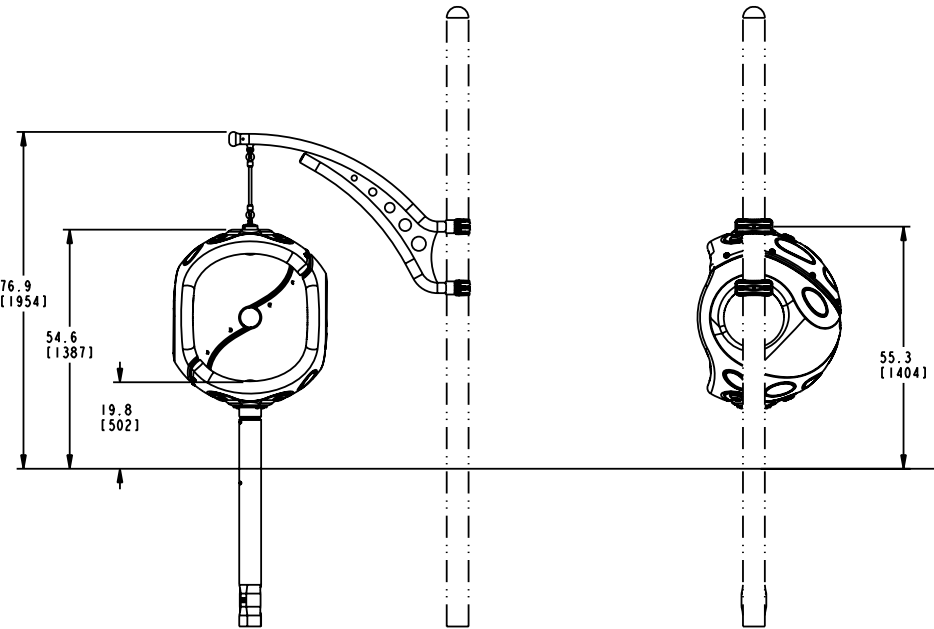
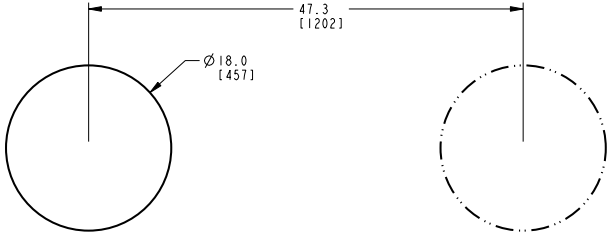
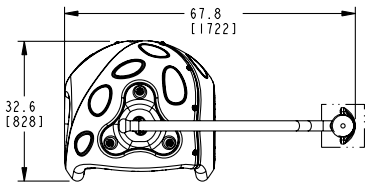
Top View



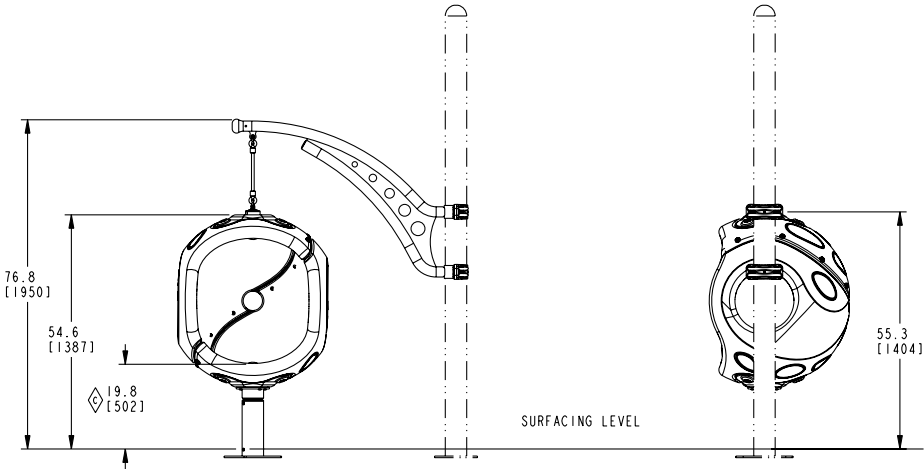
ASTM/CSA: 19.8" (502 mm)
EN: 54.6" (1387 mm)

Footing Diagram
(Both Models)

Top View



Elevation Views
PM8599

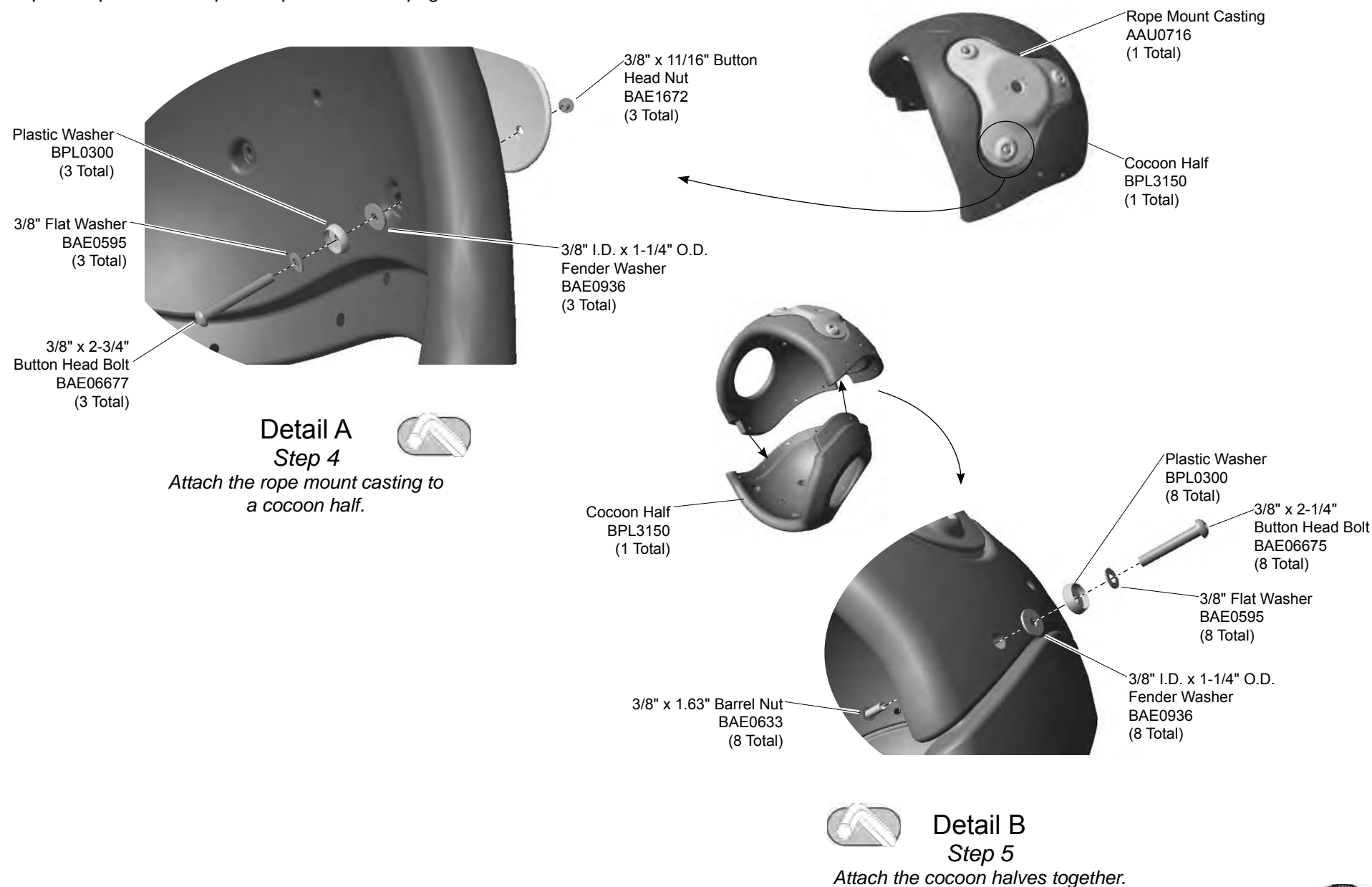


Elevation Views
PM8599S

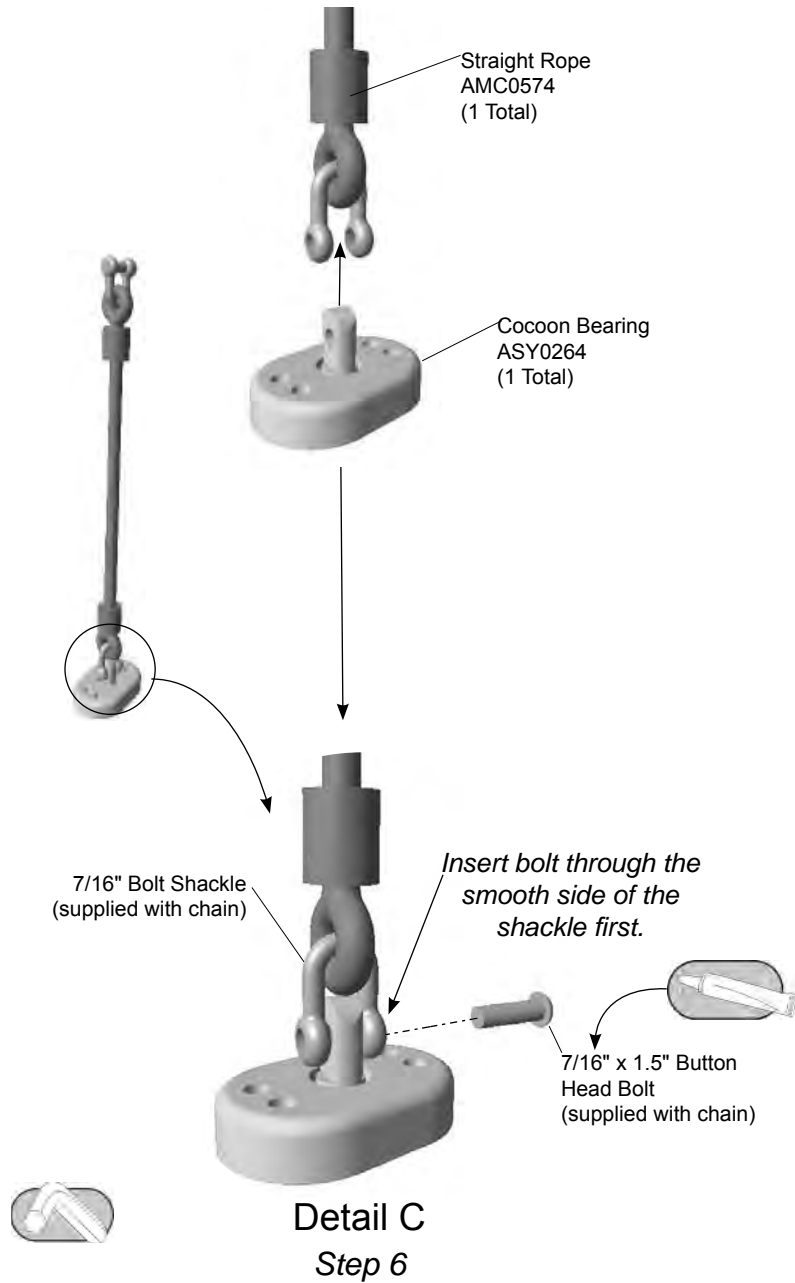


Installation Instructions

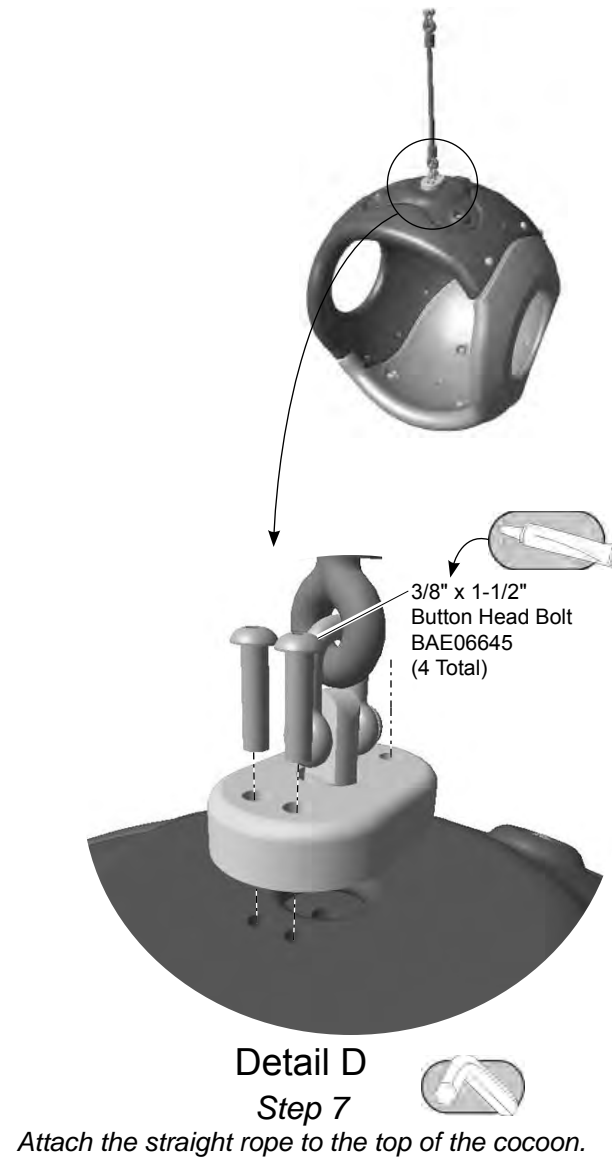
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



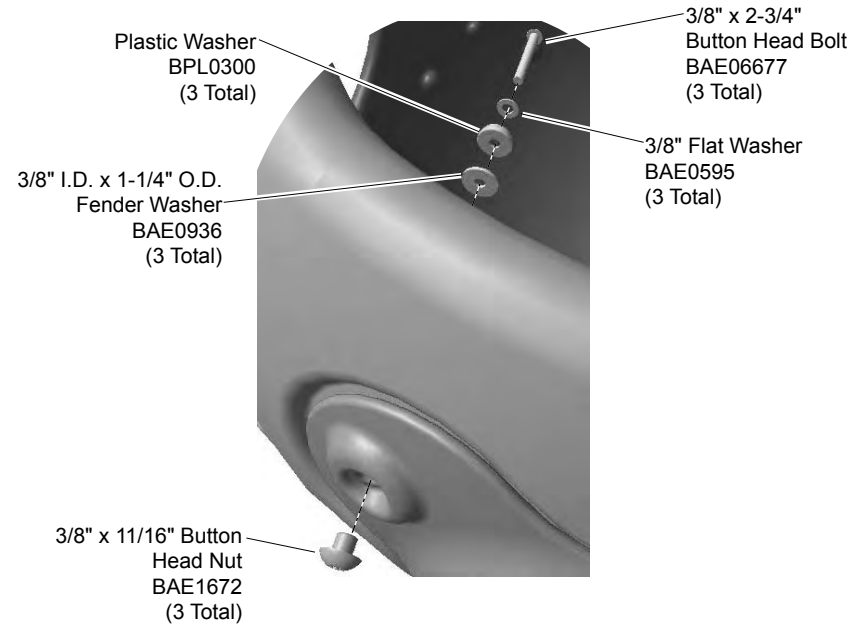
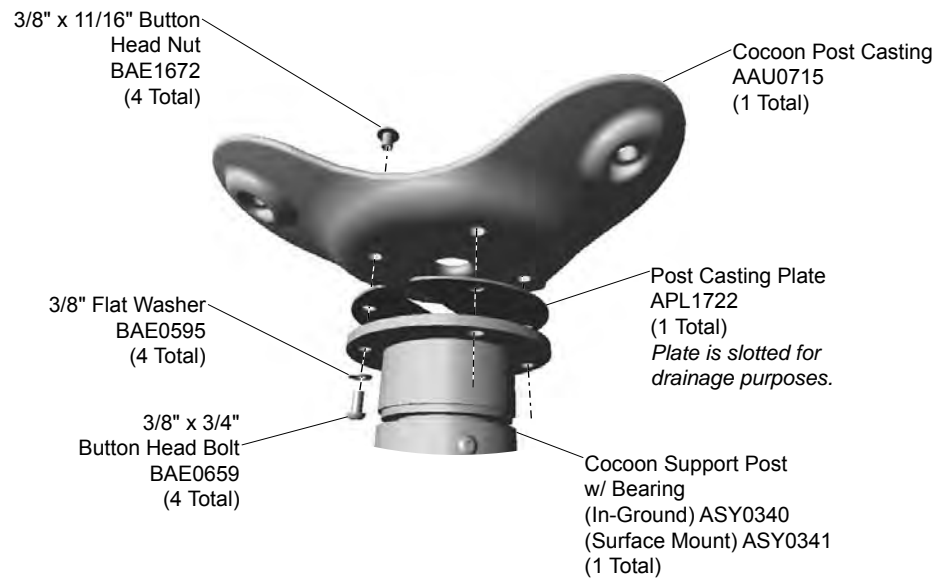
Installation Instructions



Attach a cocoon bearing to the straight rope and to the chain.



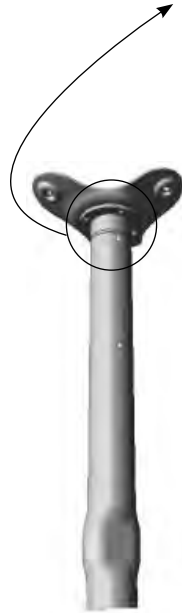
Installation Instructions



Detail E Step 8



Attach the cocoon support post to the cocoon post casting.



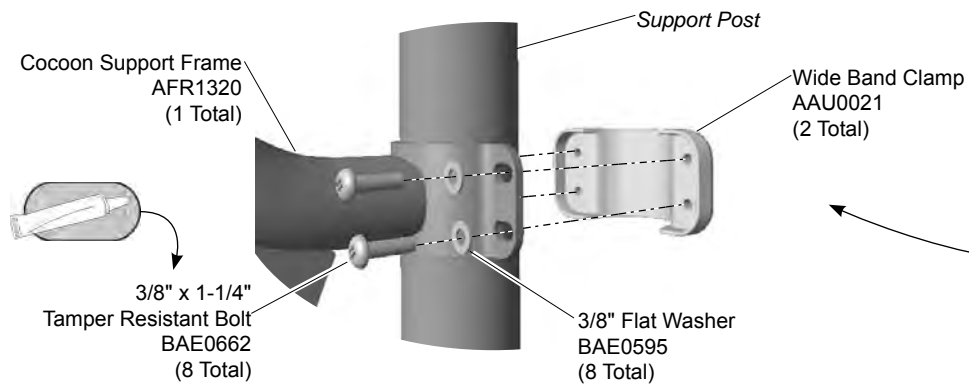
Detail F Step 9



Attach the cocoon support post assembly to the bottom of the cocoon.



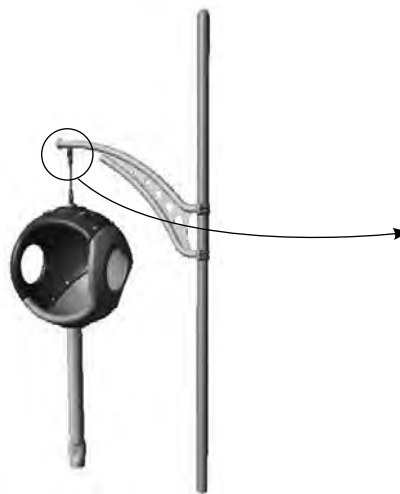
Installation Instructions



Detail G Step 10



Attach the cocoon support frame to the support post.



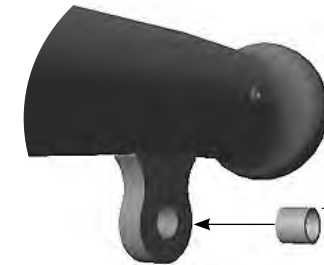
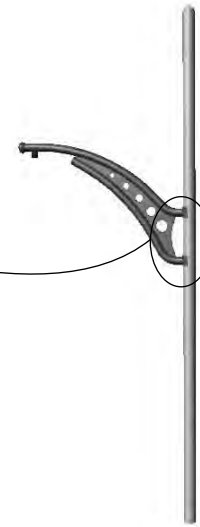
Cocoon Support Frame

Straight Rope

Detail H Step 11

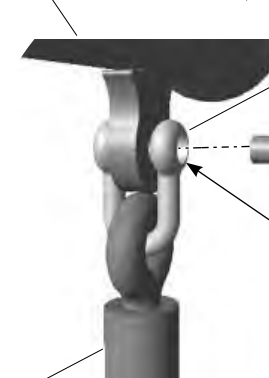


Attach the long rope to the cocoon support frame.



.50" Bushing
BAE1704
(1 Total)

*Insert the bushing into the tab
before connecting the shackle.*

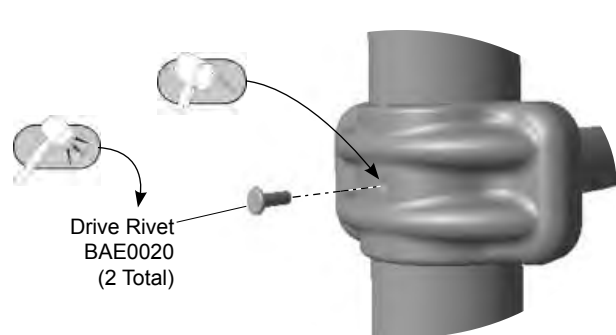


7/16" Bolt Shackle
(supplied with chain)

7/16" x 1.5" Button Head Bolt
(supplied with chain)

*Insert bolt through the smooth
side of the shackle first.*

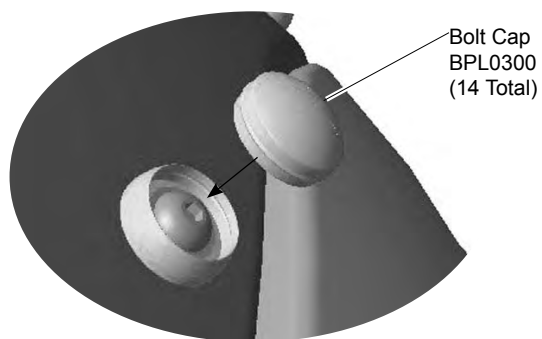
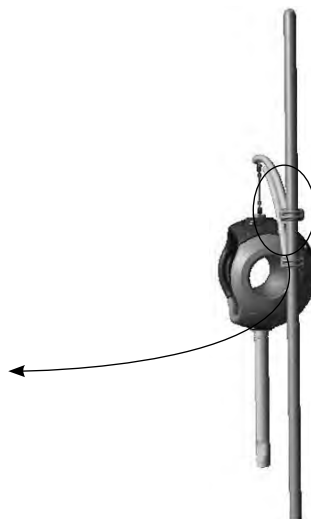
Installation Instructions



Drive Rivet
BAE0020
(2 Total)

Detail I Step 13

Secure the band clamps to the support post.



Bolt Cap
BPL0300
(14 Total)

Detail J Step 14

Insert the bolt caps into the plastic washers.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Playmaker Guidelines* at the beginning of this instruction book. Use the **Support Post Footing Detail** for the in-ground model.

Step 4: Attach the rope mount casting to a cocoon half. See **Detail A**. Insert the casting into a cocoon half and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the cocoon halves together. See **Detail B**. Place the two cocoon halves together and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 6: Attach a cocoon bearing to the straight rope and to the chain. See **Details C-1 and C-2**. Remove the bolt from the shackle on one end of the straight rope and insert a cocoon bearing up and into the shackle. Insert a shackle through the one end of the chain w/ 8 links and insert a cocoon bearing up and into the shackle. Apply a drop of thread locking adhesive to the bolt threads, insert through the smooth side of each shackle first, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 7: Attach the straight rope to the top of the cocoon. See **Detail D**. Place the bearing on the straight rope into the top of the cocoon until fully seated, apply a drop of thread locking adhesive on the bolt threads, and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 8: Attach the cocoon support post w/ bearing to the cocoon post casting. See **Detail E**. Position the support post and casting plate against the bottom of the cocoon post casting and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 9: Attach the cocoon support post assembly to the bottom of the cocoon. See **Detail F**. Place support post assembly against the bottom of the cocoon and attach as shown. Fully tighten the connections according to tightening torque specifications.

Step 10: Attach the cocoon support frame to the support post. See **Detail G** and the **Elevation View**. Position the frame against the support post at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave connections loose until cocoon is attached.

Step 11: Attach the straight rope to the cocoon support frame. See **Detail H**. Insert a bushing into the tab on the end of the support frame. Using the hardware supplied with the rope, apply a drop of thread locking adhesive to the bolt threads, and attach the rope to the support frame as shown. Fully tighten the connections according to tightening torque specifications.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.



Installation Instructions

Step 13: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each band clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select plastic bolt caps and press into the plastic washers. See **Detail J**.

Hint: The bolt caps install more easily when they are warm.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level or at a visible location.



PM8599 - COZY COCOON

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1
AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1
ASY0264	COCOON BEARING	1
ASY0340	ASSEMBLY - COCOON BEARING	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	8
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - S.S.	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	1
BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8599S - COZY COCOON SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1
AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1
ASY0264	COCOON BEARING	1
ASY0341	ASSEMBLY - COCOON BEARING (SM) 5-12	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	8
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - S.S.	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	1
BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1





Assembly View (representative model)

Model	Deck Height
PM3128	24-30" (610-762 mm)
PM3127	36" (915 mm)
PM3126	48" (1220 mm)
PM2658	60" (1525 mm)
PM2696	72" (1830 mm)

Installation Instructions








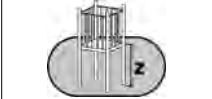
Playmakers®

Models PM2658, PM2696, PM3126-PM3128
24"-72" (610-1829 mm) Glide Slides

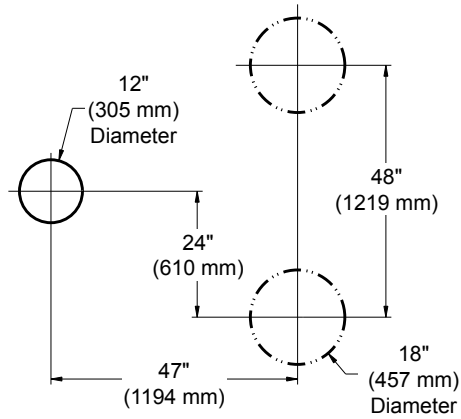
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

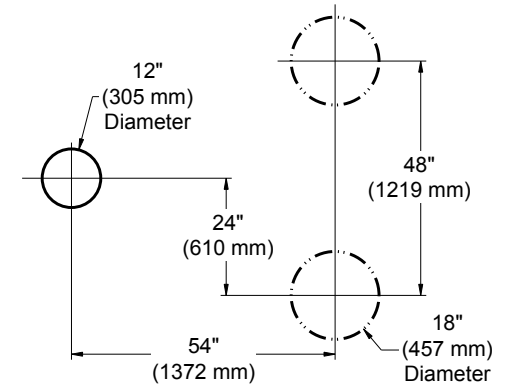
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

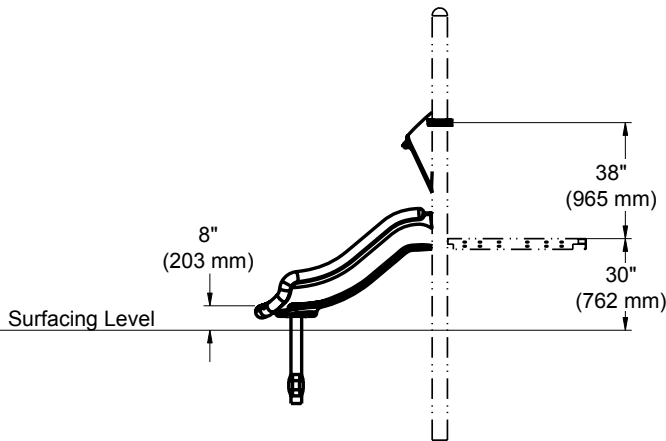
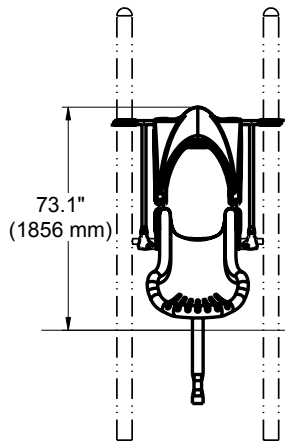
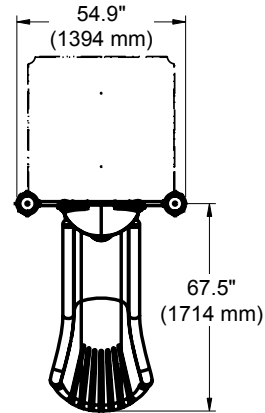
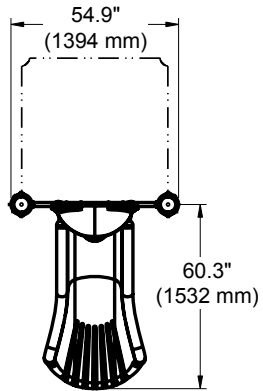


Footing Diagram

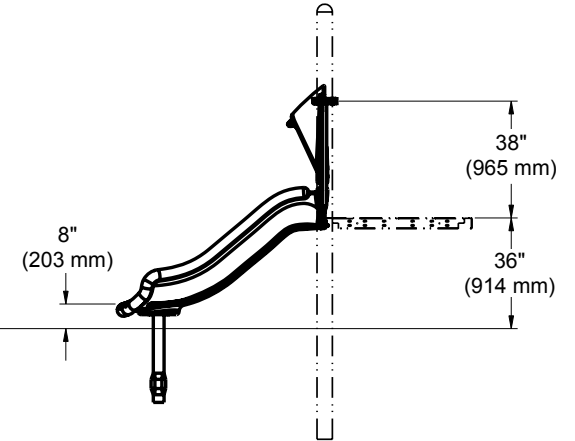
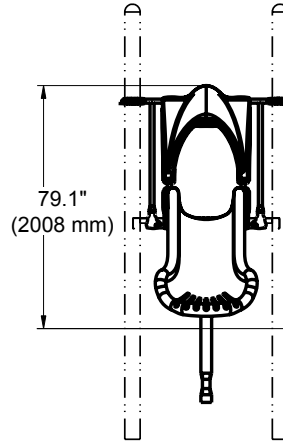
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram



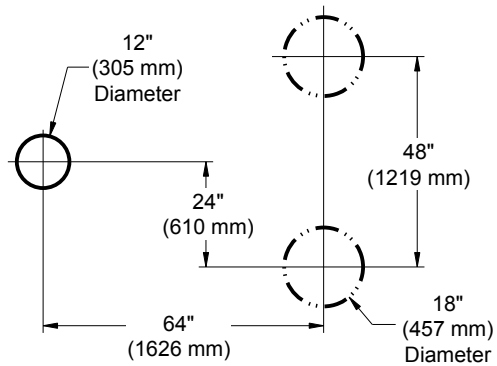
Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)



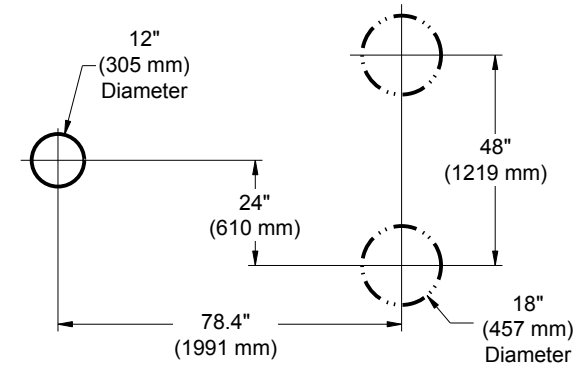
Elevation View PM3127 - 36" Glide Slide



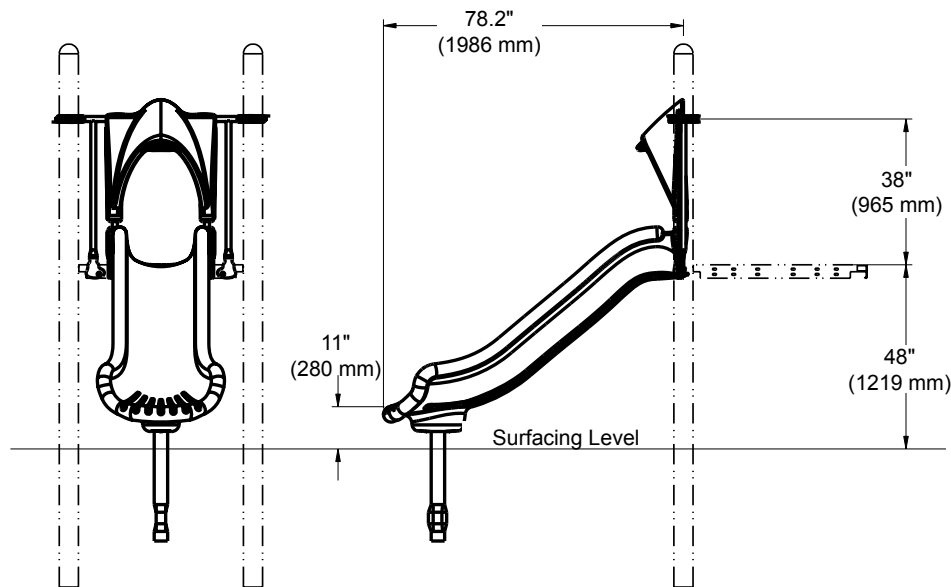
Installation Instructions



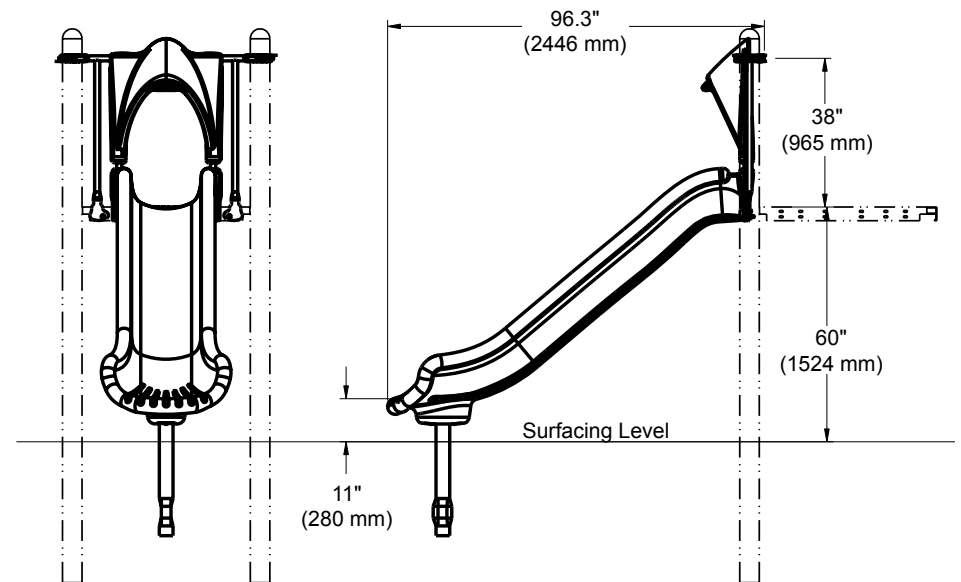
Footing Diagram



Footing Diagram

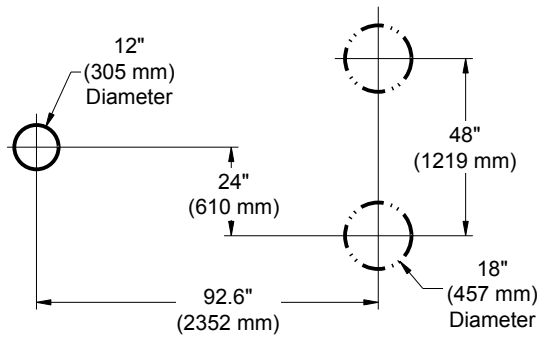


Elevation View PM3126 - 48" Glide Slide

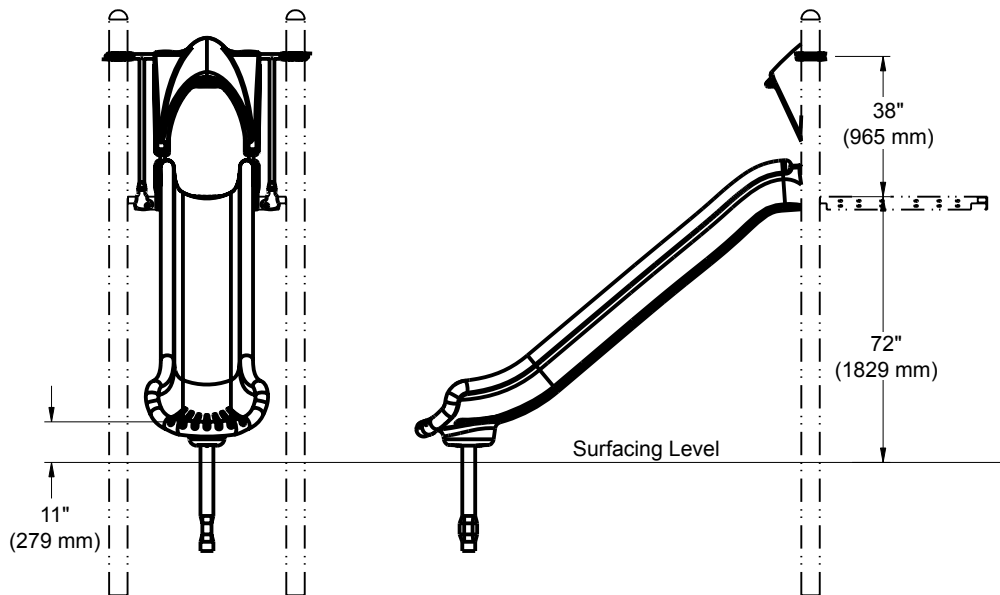


Elevation View PM2658 - 60" Glide Slide

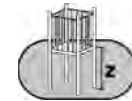
Installation Instructions



Footings Diagram



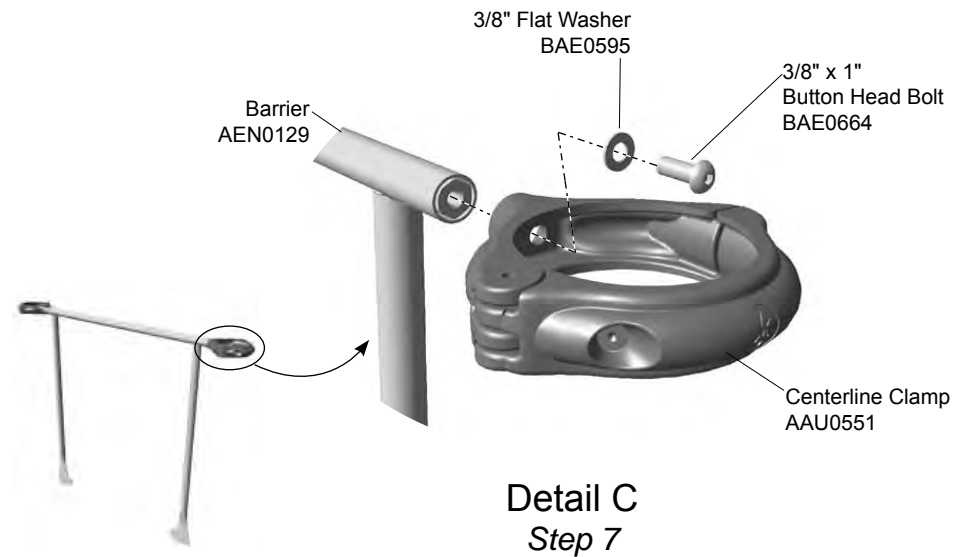
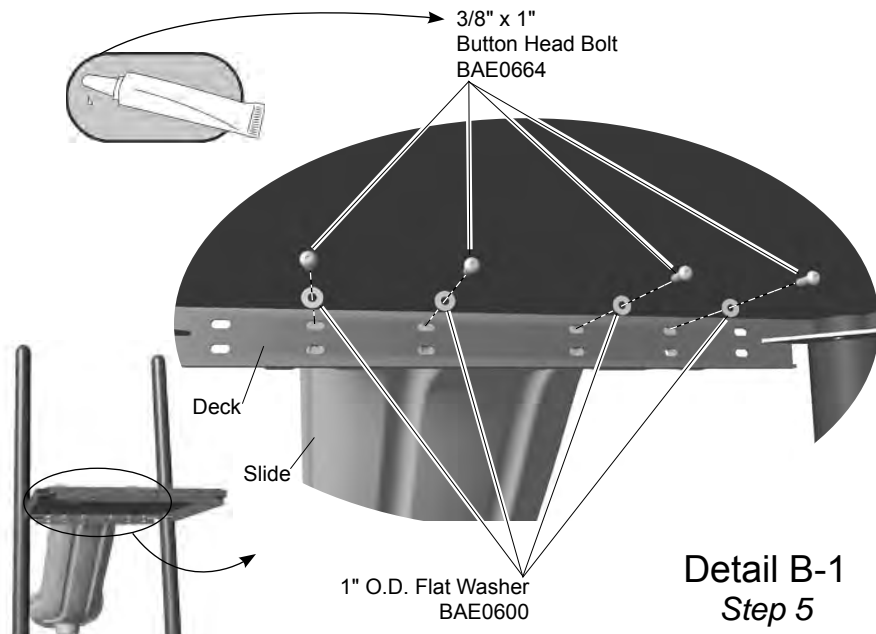
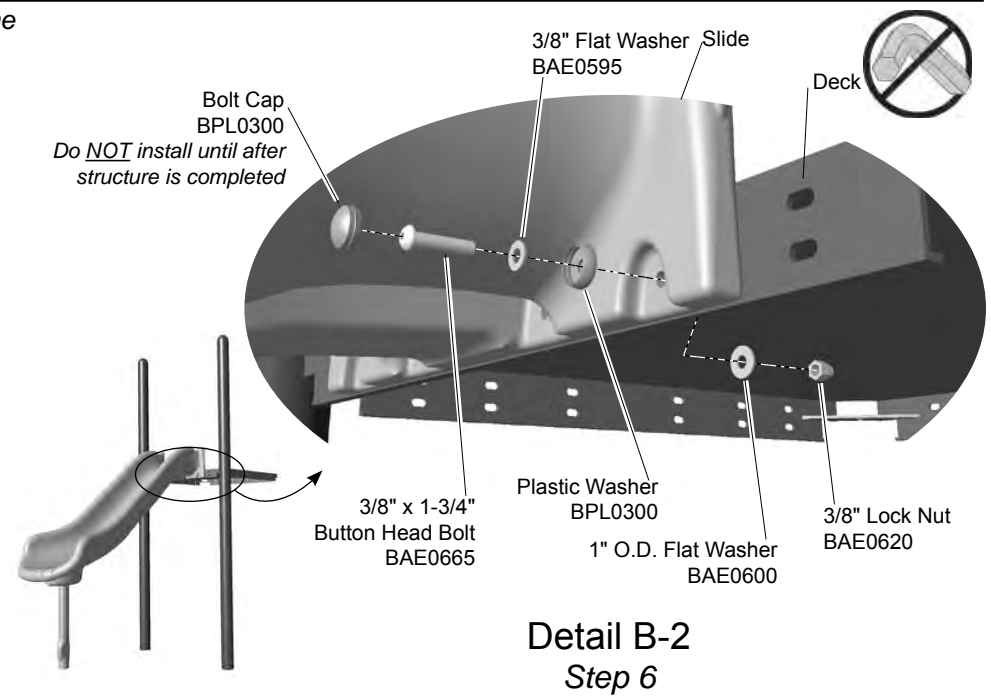
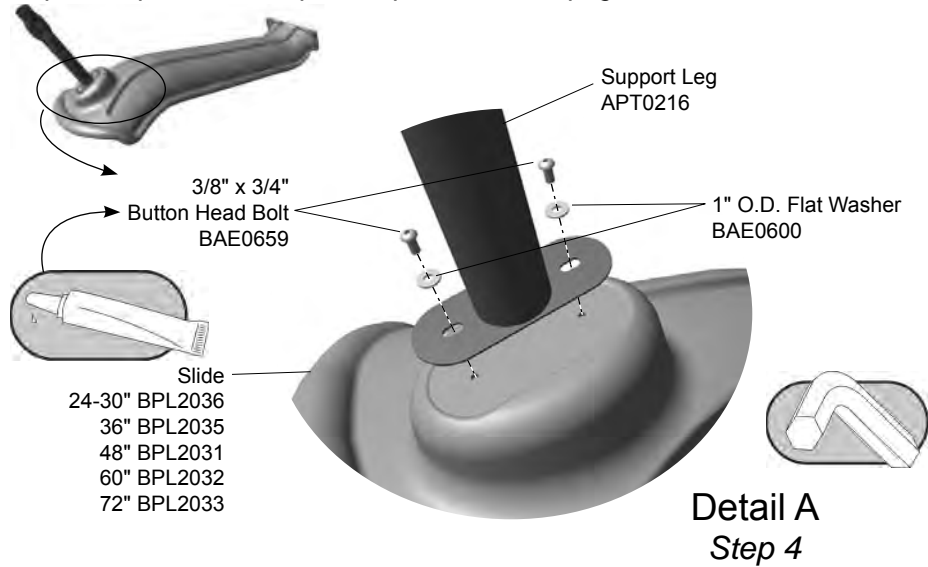
Elevation View PM2696 - 72" Glide Slide



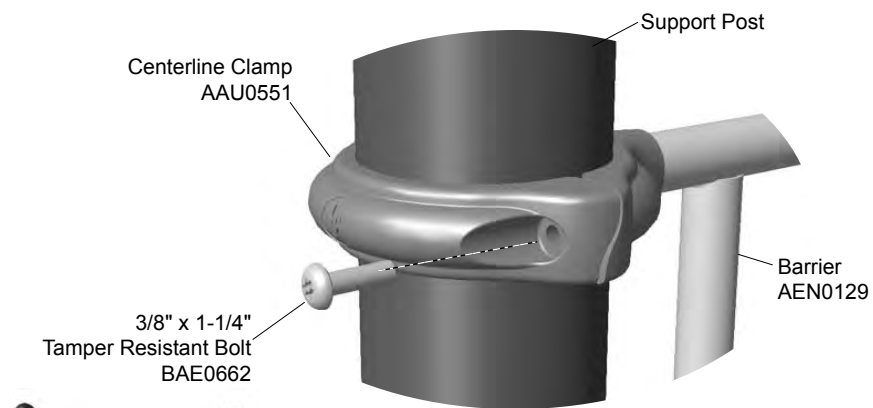
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

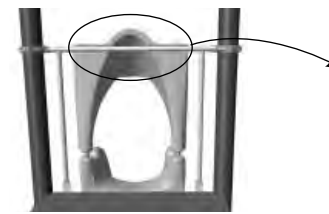
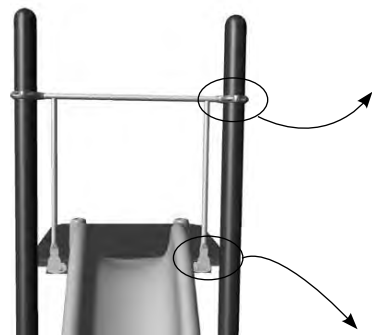
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



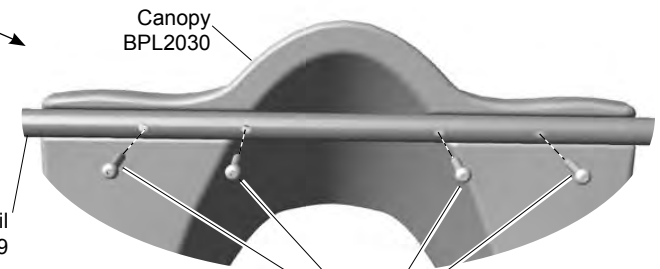
Installation Instructions



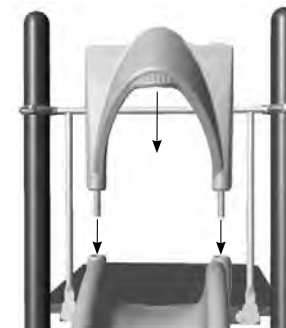
Detail D-1
Step 8



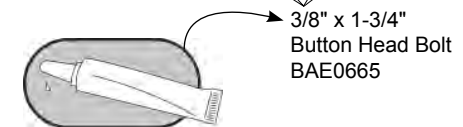
Barrier Top Rail
AEN0129



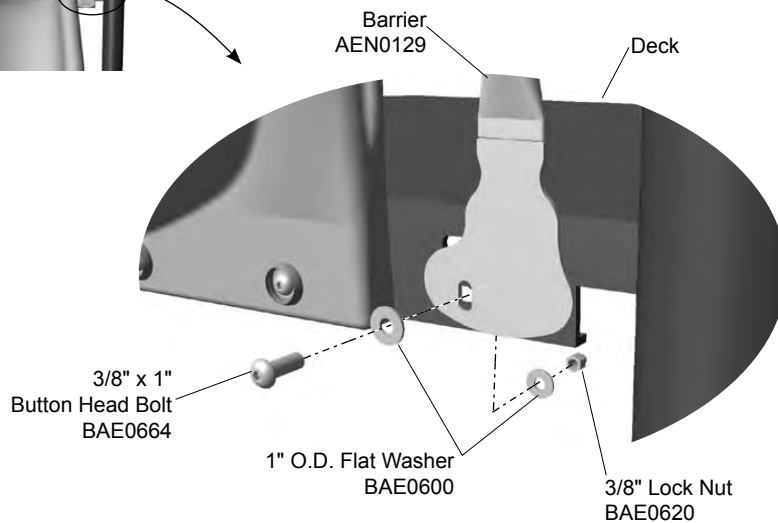
Canopy
BPL2030



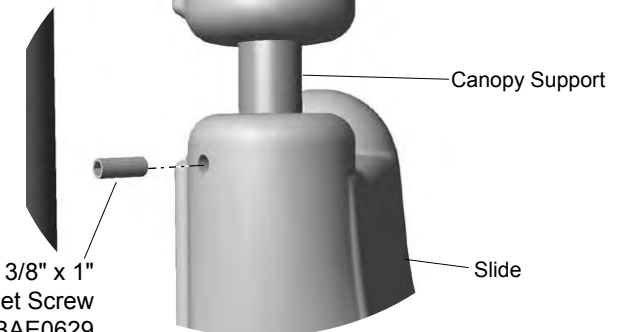
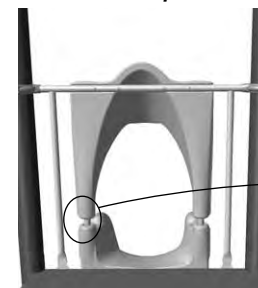
Detail E-1
Step 10



Detail E-2
Step 10

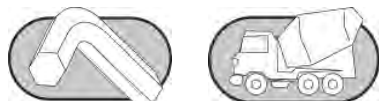


Detail D-2
Step 9

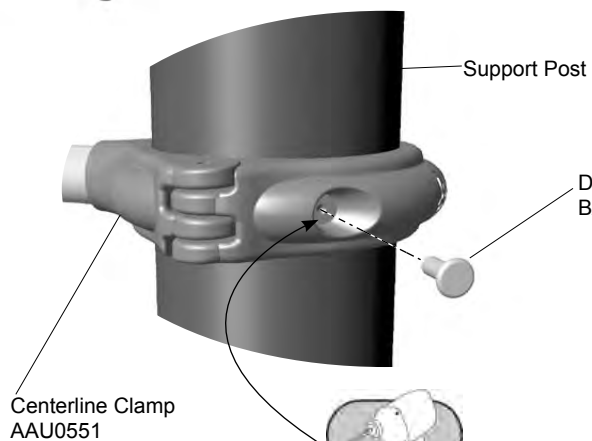
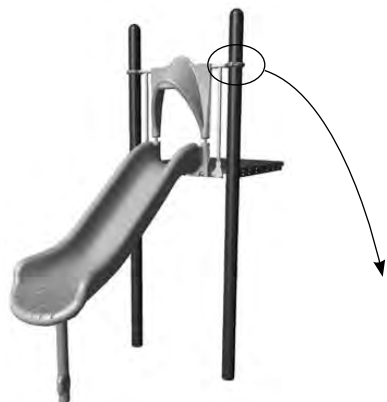


Detail F
Step 11

Installation Instructions



Step 12

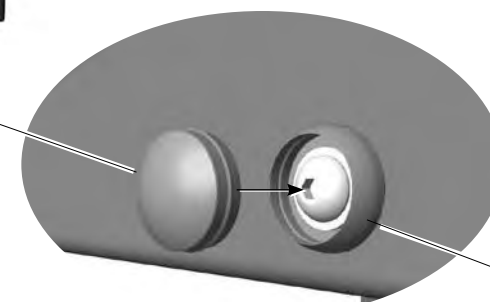


Detail G
Step 13

Drive Rivet
BAE0020



Bolt Cap
BPL0300



Plastic Washer
BPL0300

Detail H
Step 14
(refer to Detail B-2 also)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.



Installation Instructions

Step 13: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

Step 15: Apply the hood string entanglement warning label to the equipment at eye level.



PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View (representative model)

Installation Instructions








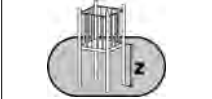
Playmakers® Model PM3129

90° Glide Slide

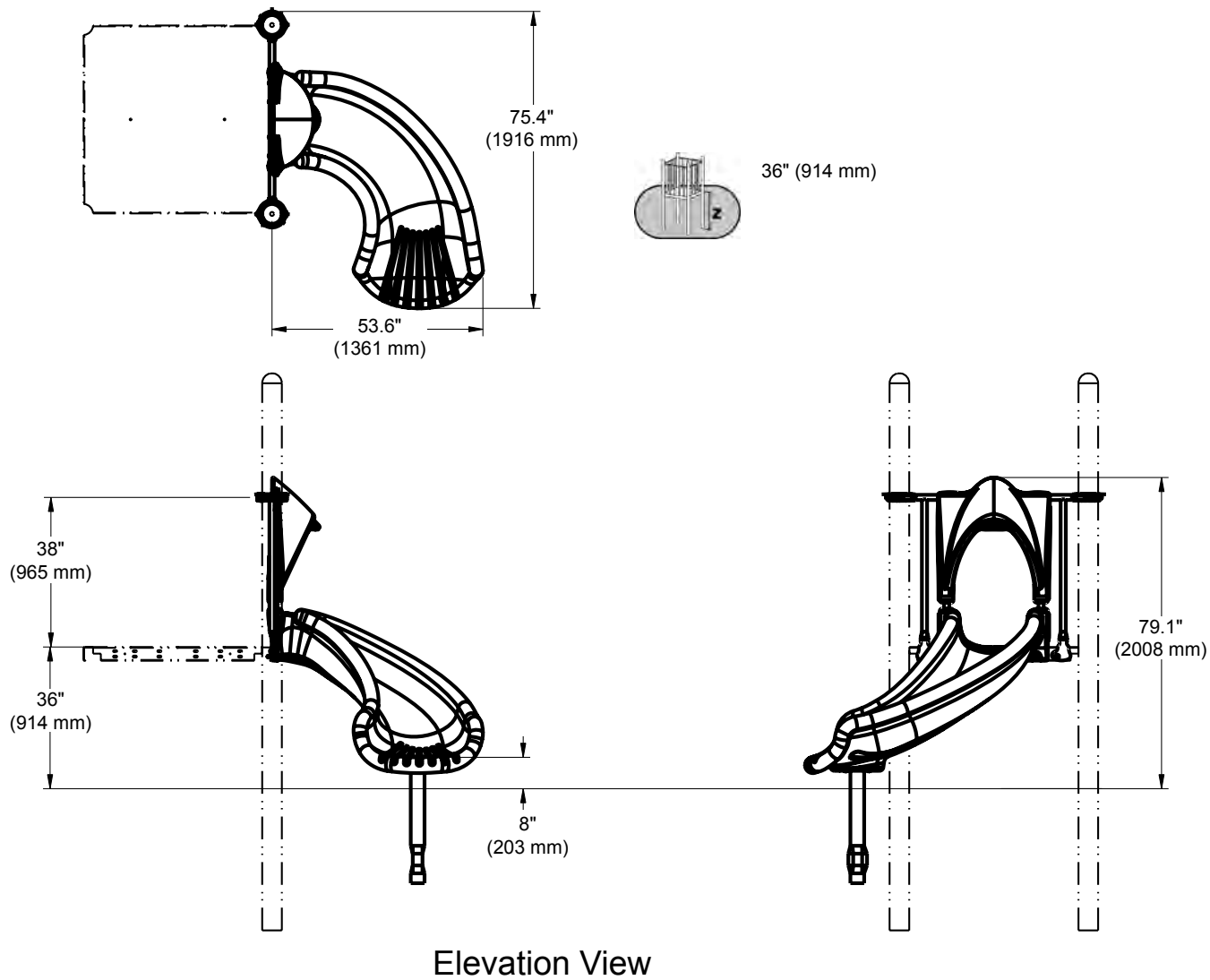
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1.5 man-hours
 Concrete Required: 0.03 cubic yard (0.02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

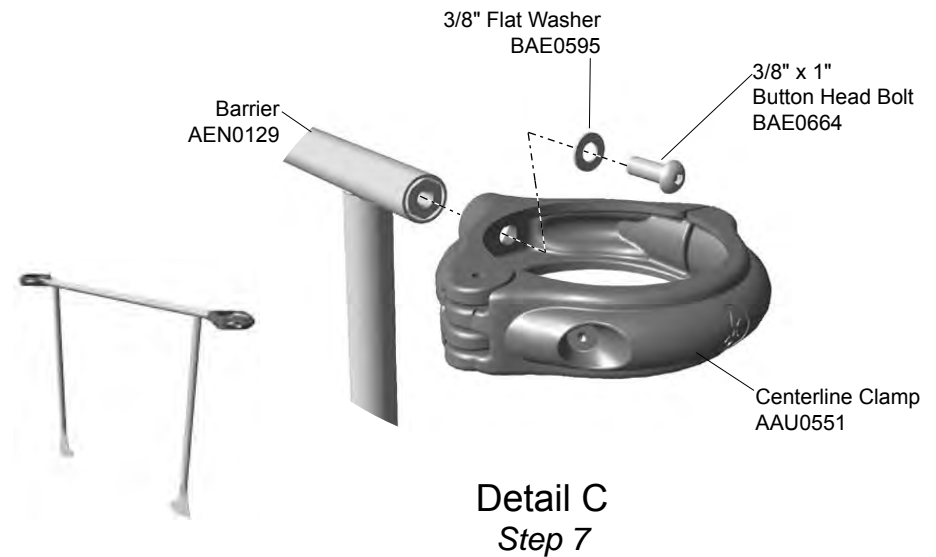
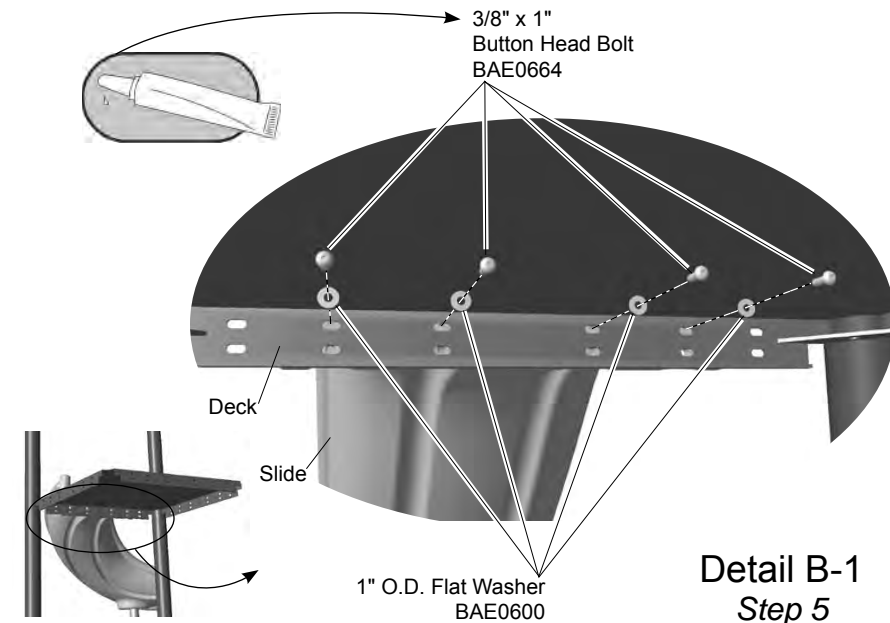
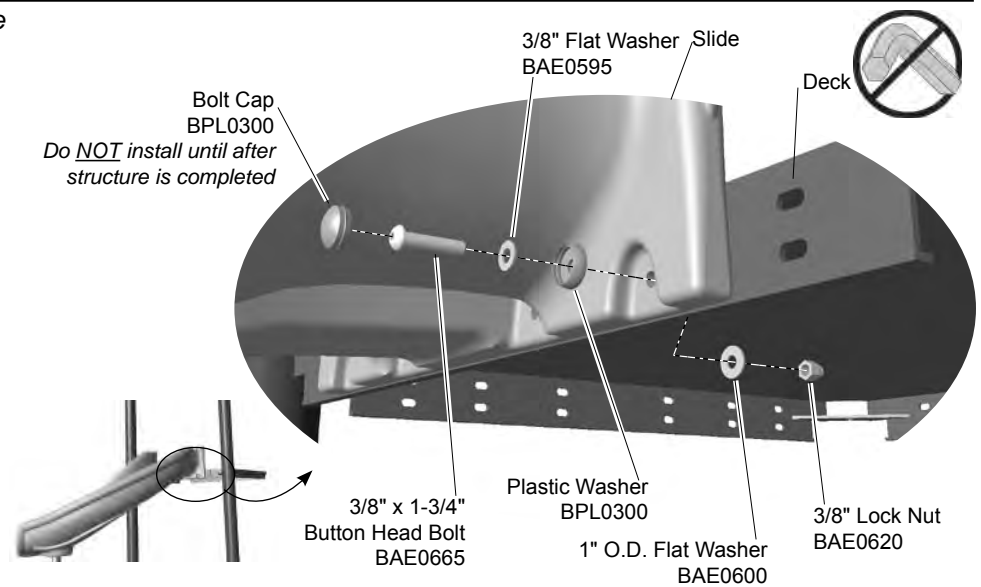
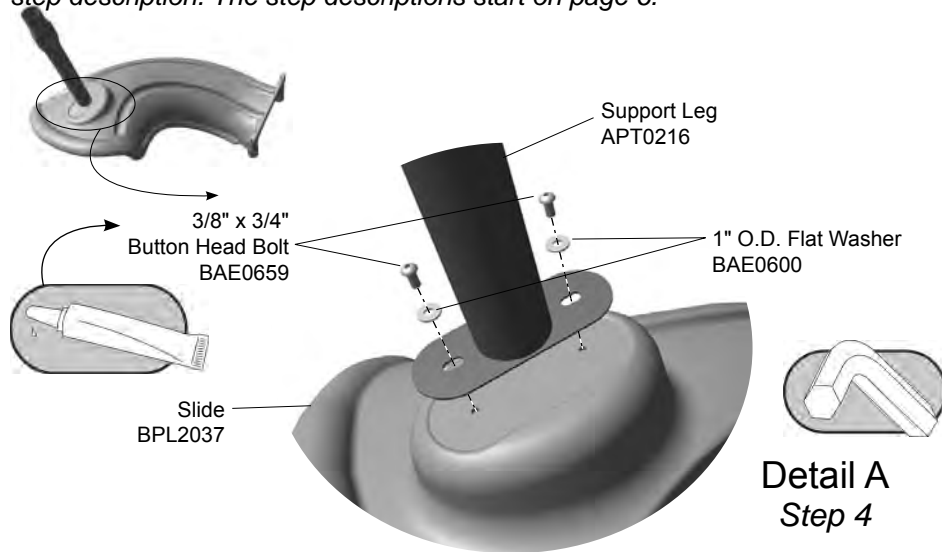
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

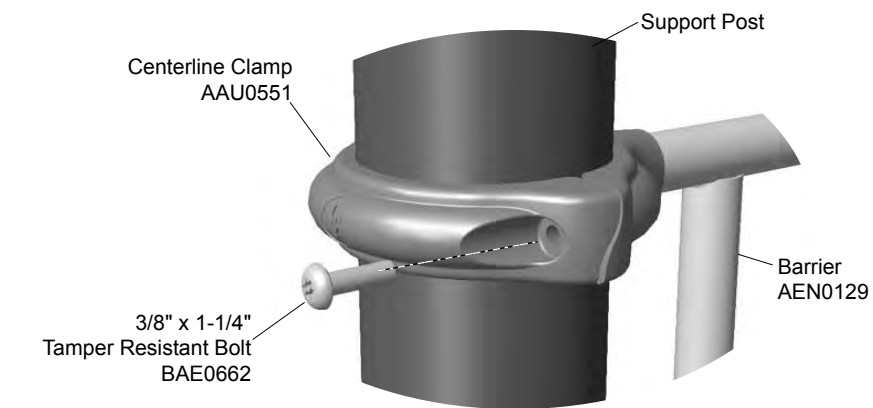


Installation Instructions

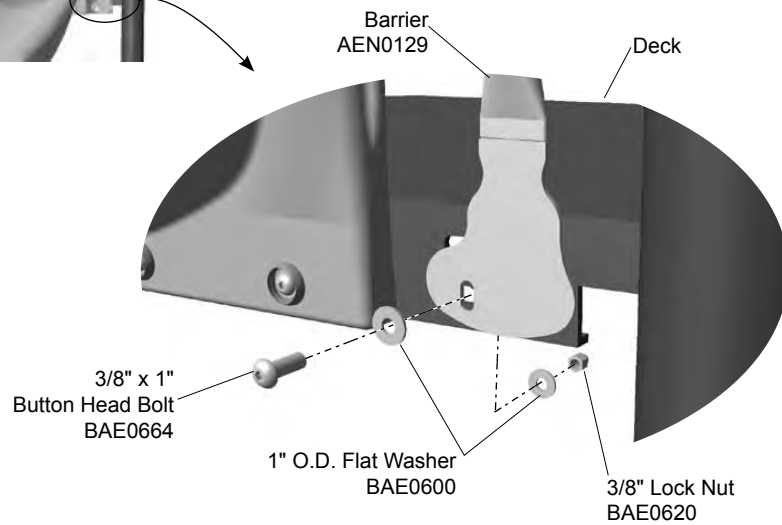
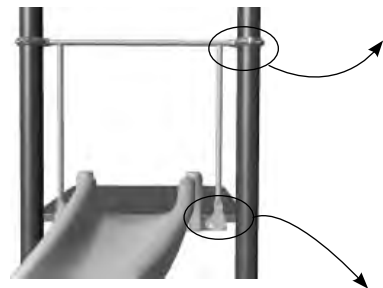
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



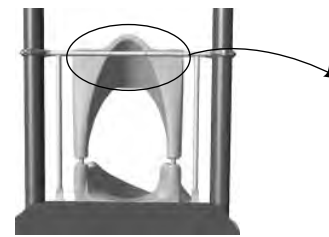
Installation Instructions



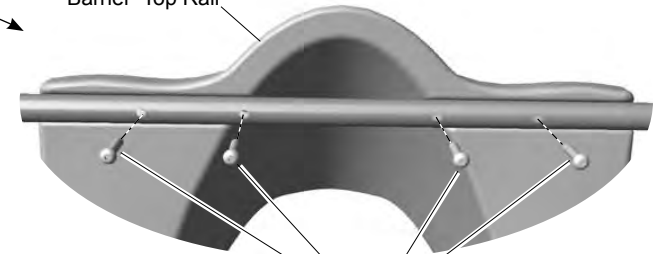
Detail D-1
Step 8



Detail D-2
Step 9

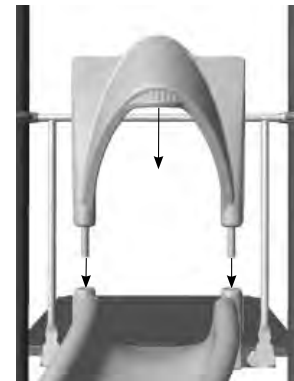


Barrier Top Rail

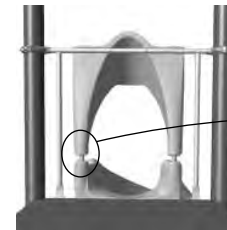


3/8" x 1-3/4" Button Head Bolt BAE0665

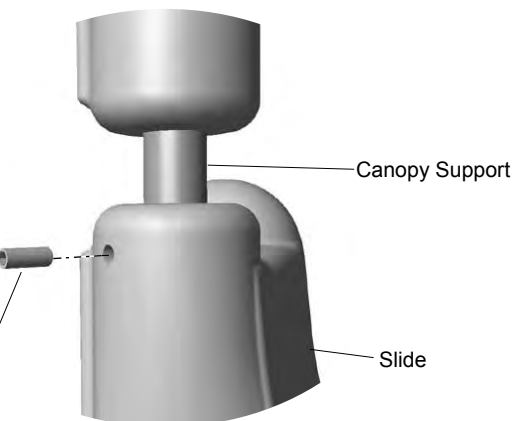
Detail E-2
Step 10



Detail E-1
Step 10

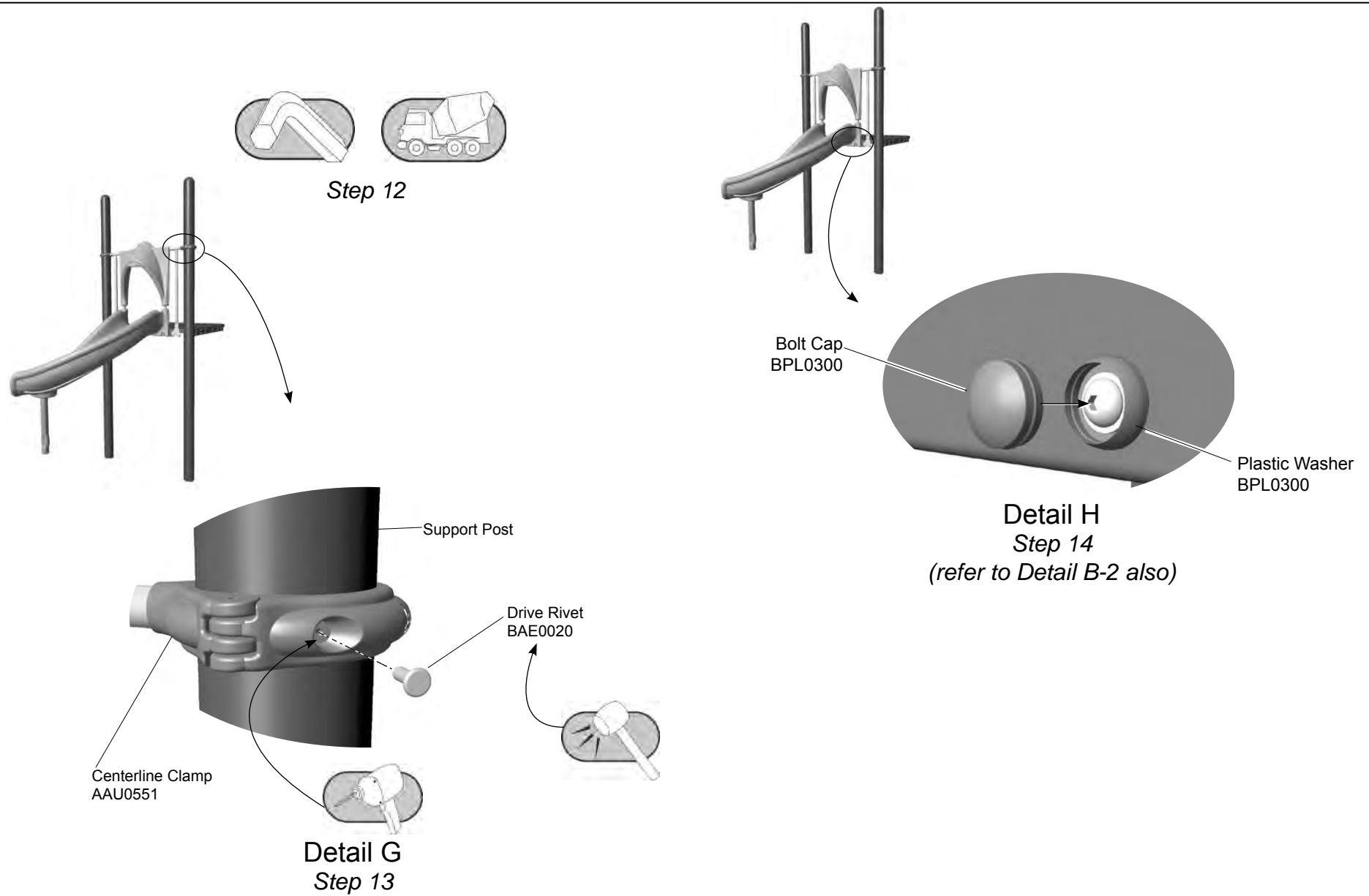


3/8" x 1" Set Screw BAE0629



Detail F
Step 11

Installation Instructions



Installation Instructions

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Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* in the beginning of this instruction booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**. The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

Step 13: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

Step 15: Apply the hood string entanglement warning label to the equipment at eye level.

PM3129 - 90° GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2037	SLIDE - 36" 90° GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View



*Nest Button
(example of one
of ten buttons)*

Installation Instructions

Playmakers® Model PM4548








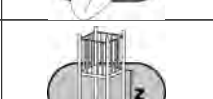
Nature Hunt Panel

Deck Level

Installation Preparation

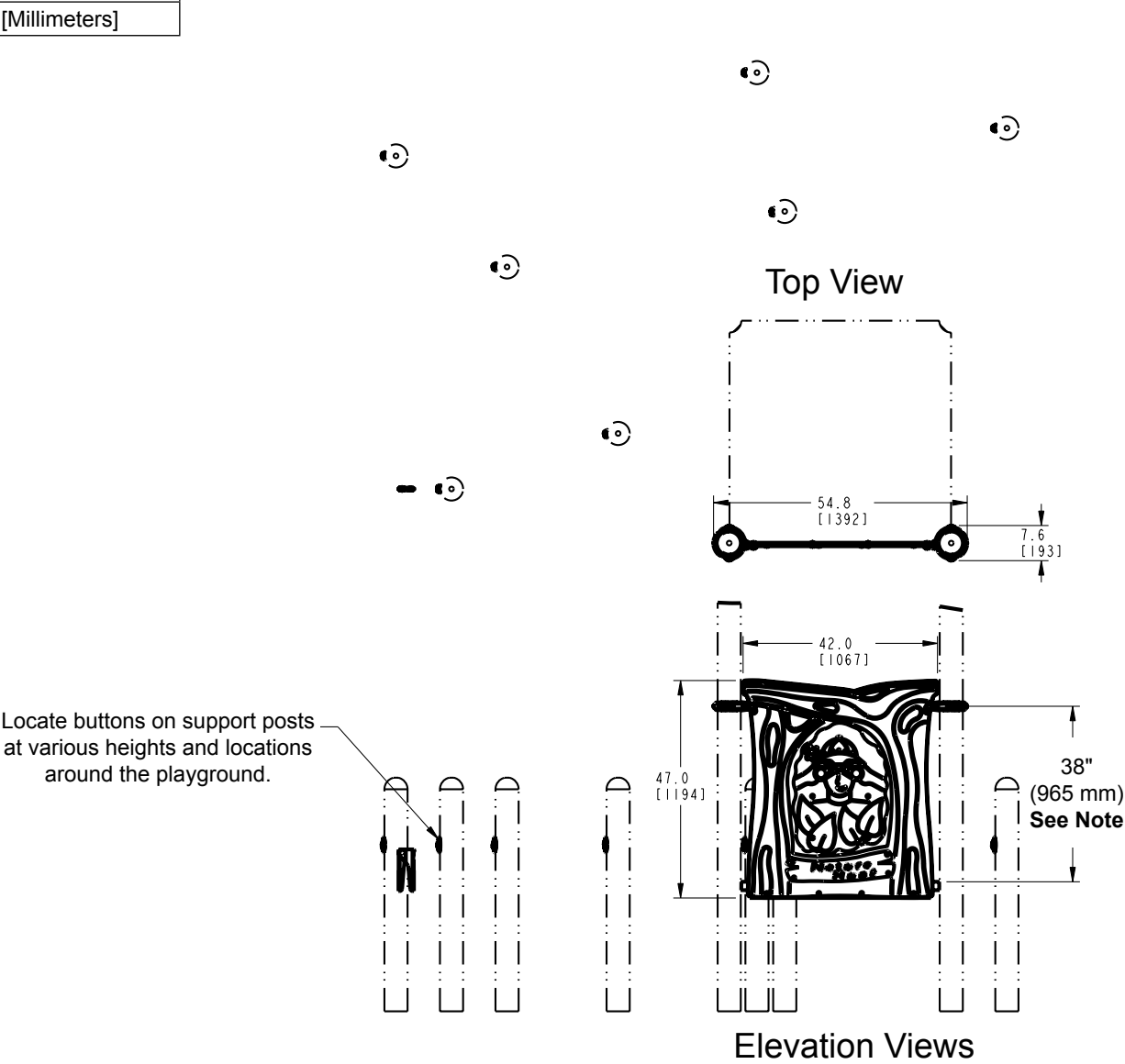
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

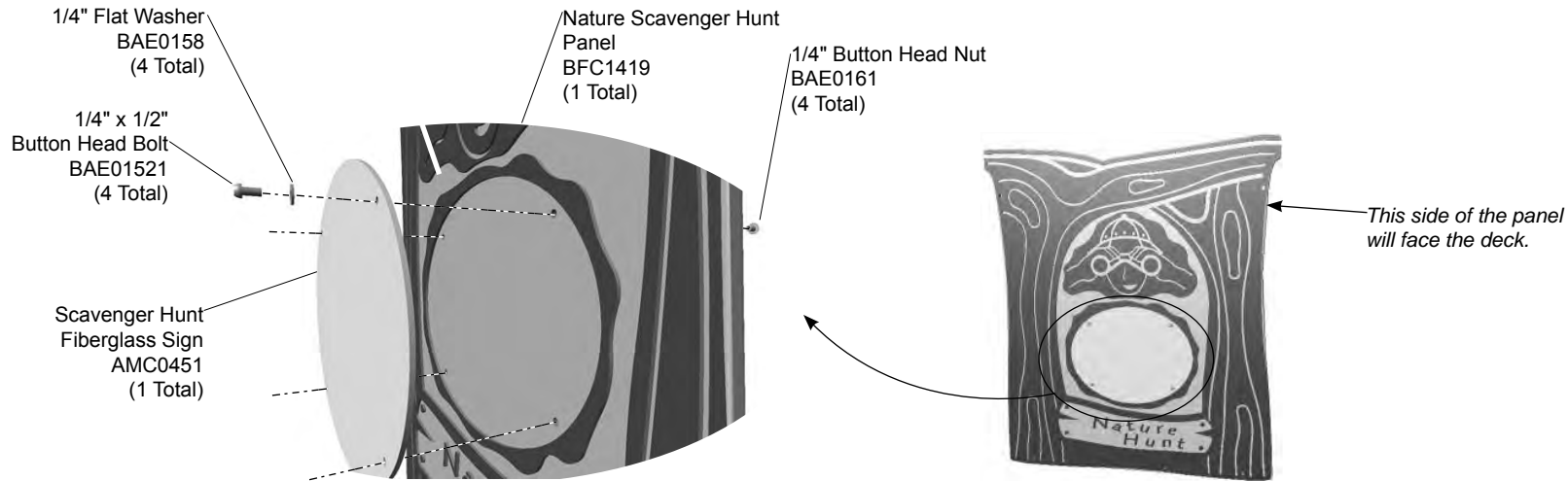
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



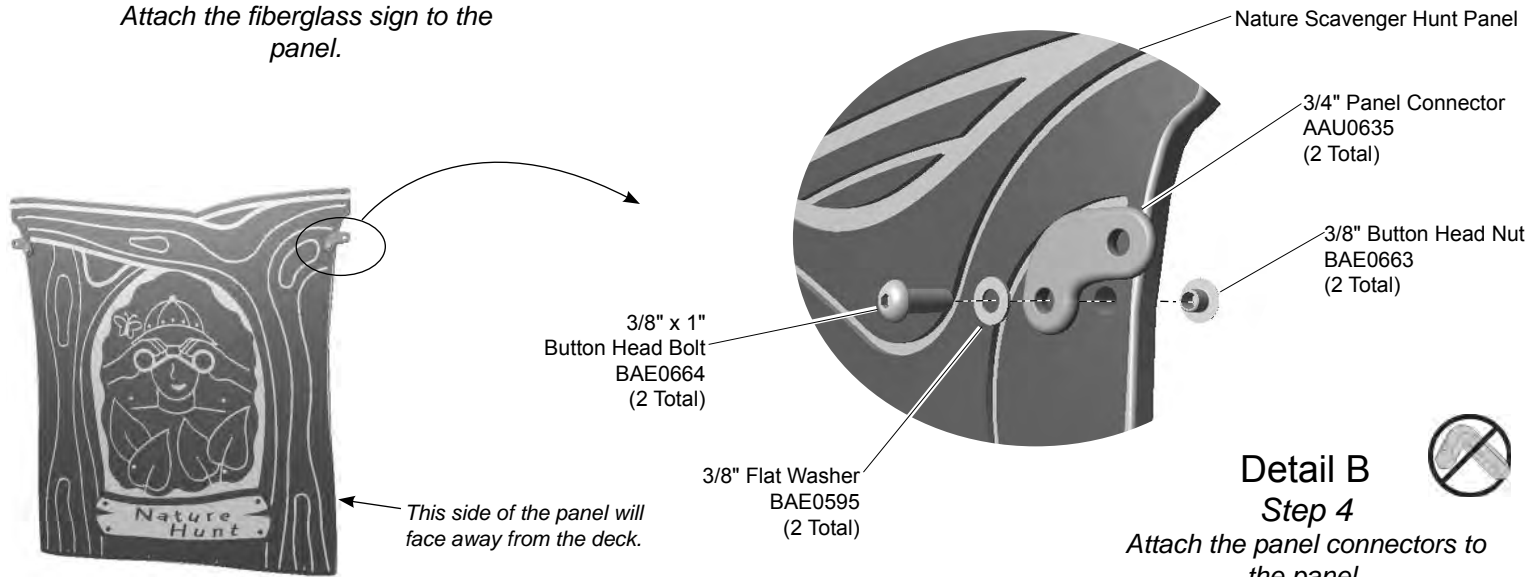
Note: Dimension 38" (965 mm) for clamp adaptor positioned as shown in the details. The panel will be mounted to the lower set of deck holes. In case of clamp conflict, adaptor can be flipped. Dimension for flipped adaptor is 36.5" (927 mm).

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

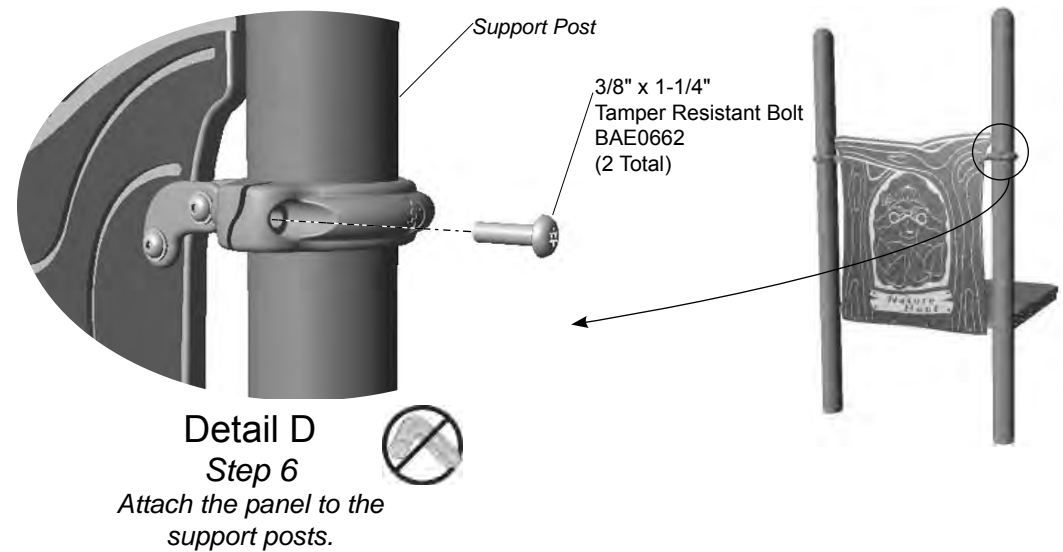
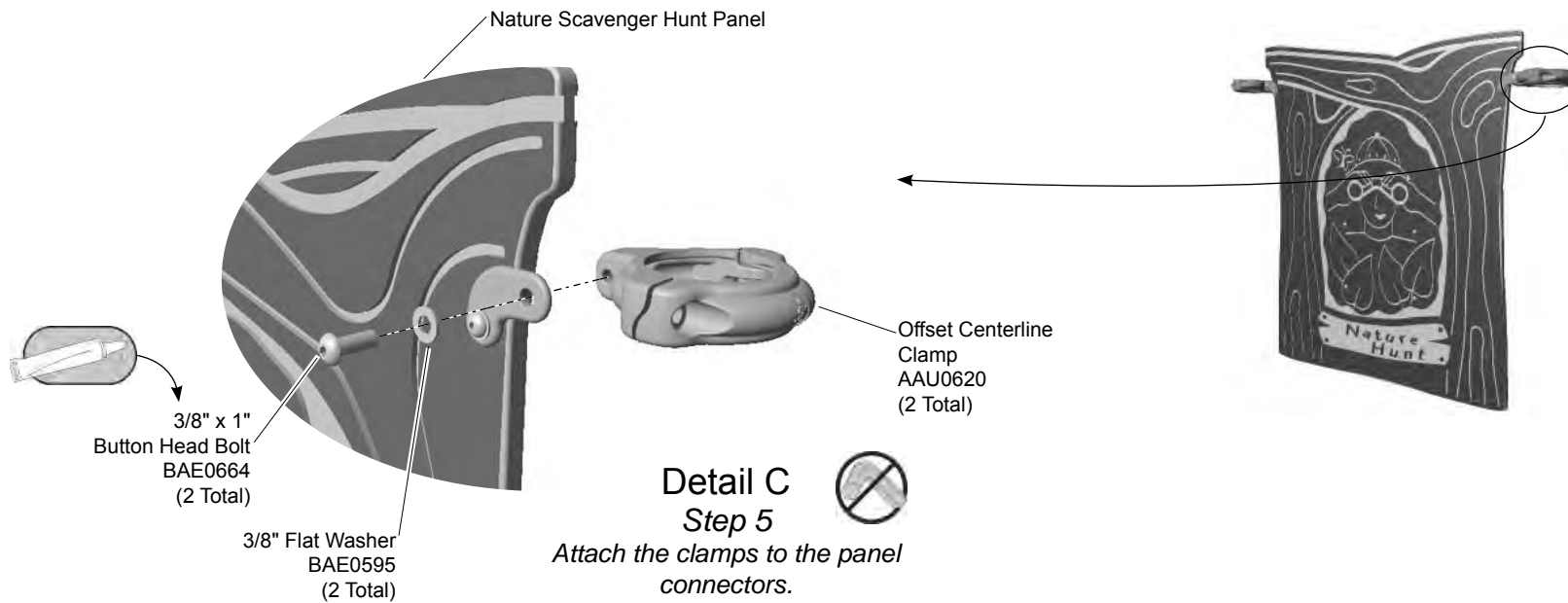


Detail A
Step 3
Attach the fiberglass sign to the panel.

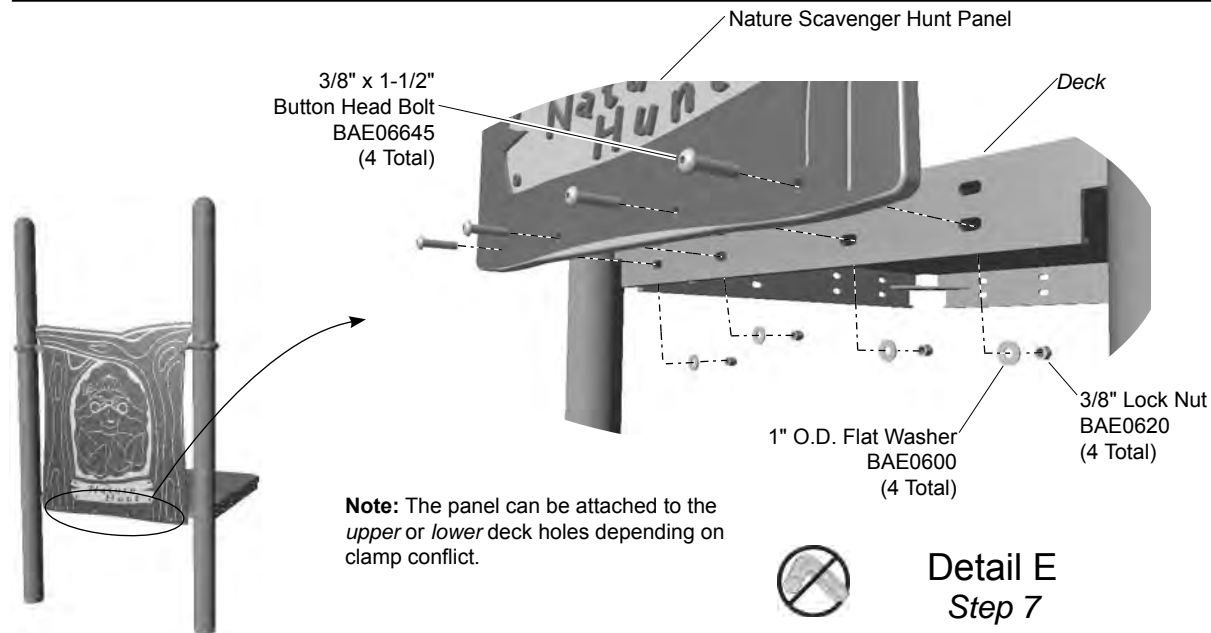


Detail B
Step 4
Attach the panel connectors to the panel.

Installation Instructions



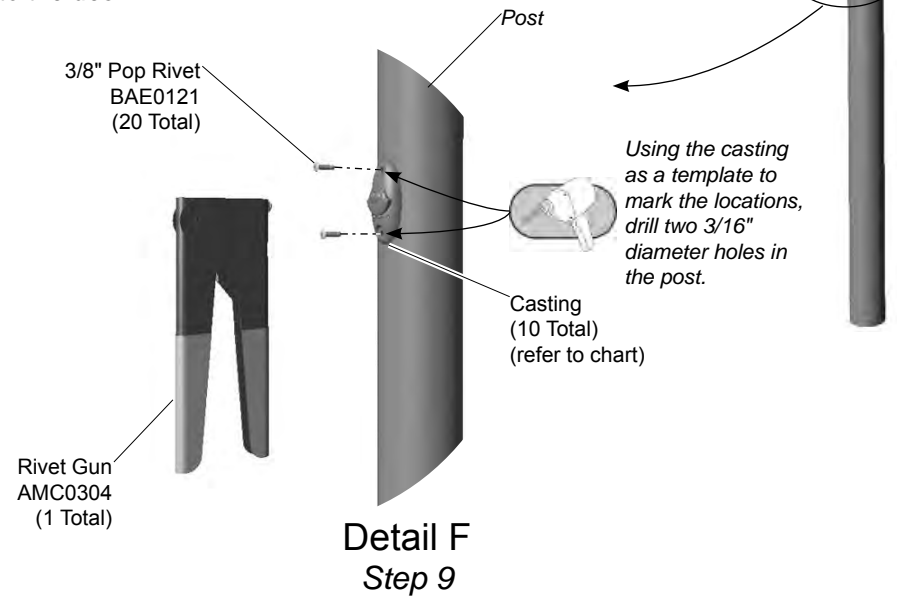
Installation Instructions



Detail E Step 7

Attach the panel to the deck.

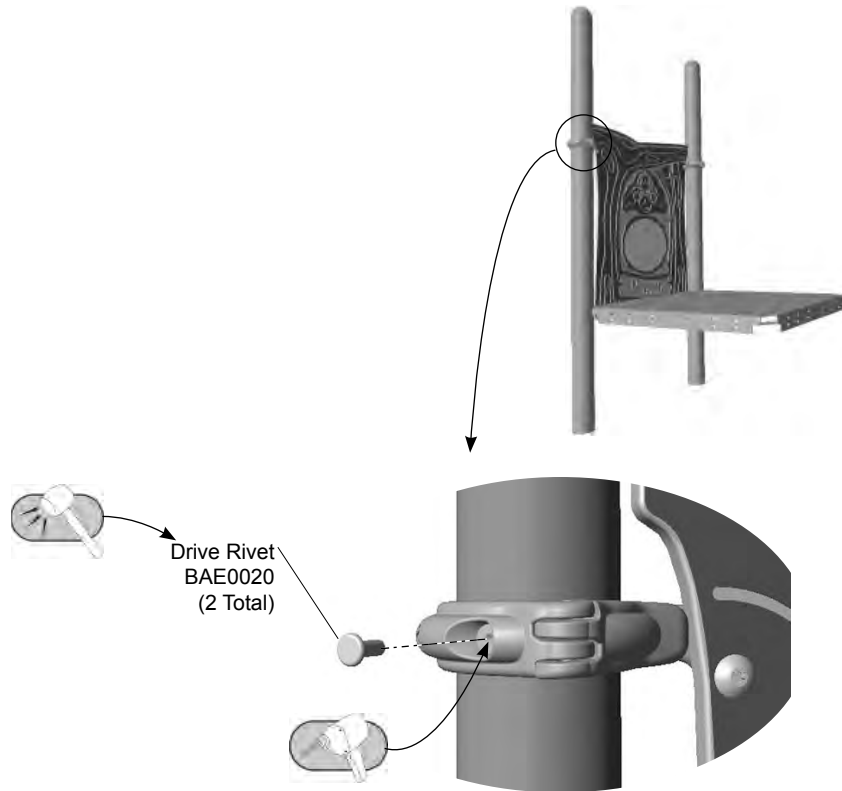
Shape	Casting Part Number
Owl	AAU0680
Monkey	AAU0681
Bear	AAU0682
Elephant	AAU0683
Rabbit	AAU0684
Turtle	AAU0685
Ladybug	AAU0686
Bear Track	AAU0687
Pine Cone	AAU0688
Nest	AAU0689



Detail F Step 9

Attach the castings to the posts.

Installation Instructions



Detail G
Step 10
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the fiberglass sign to the panel. See **Detail A**. Position the fiberglass sign in the cutout section of the panel and attach as shown.

Step 4: Attach the panel connectors to the panel. See **Detail B**. Position the short leg on each panel connector against a top hole in the side of the panel that will face out from the deck. Align the connectors with the holes and attach as shown. Leave the connections loose.

Step 5: Attach the clamps to the panel connectors. See **Detail C**. Place the flat side of each clamp against the deck side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave the connections loose for alignment adjustment.

Step 6: Attach the panel to support posts. See **Detail D** and **Elevation View**. Position the panel between the support posts and close the clamps around the support post at the height indicated. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel. Both clamps should be mounted at the same height.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Step 7: Attach the panel to the deck. See **Detail E**. Attach the panel to the deck as shown.

Note: The panel can be attached to the *upper* or *lower* deck holes depending on clamp conflict.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Attach the castings to support posts.

Step 9: Attach the castings to the support posts. See **Detail F**. Choose various locations around the playground to locate the castings. Using the supplied 3/16" drill bit, drill a hole in the post at the appropriate location and insert a pop rivet through the casting into the post using the standard rivet gun supplied.

Step 10: Install drive rivets in the clamps. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

ZZPM4548 - NATURE HUNT PANEL (DECK LEVEL)

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AAU0680	CASTING - OWL	1
AAU0681	CASTING - MONKEY	1
AAU0682	CASTING - BEAR	1
AAU0683	CASTING - ELEPHANT	1
AAU0684	CASTING - RABBIT	1
AAU0685	CASTING - TURTLE	1
AAU0686	CASTING - LADYBUG	1
AAU0687	CASTING - BEAR TRACK	1
AAU0688	CASTING - PINE CONE	1
AAU0689	CASTING - NEST	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0451	SIGN - NATURE SCAVENGER HUNT	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0121	RIVET - 3/16" x .56" ALUMINUM POP	20
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE1668	MISC - 3/16" DRILL BIT	1
BFC1419	PANEL - PM NATURE SCAVENGER HUNT (DECK)	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Assembly View

Installation Instructions







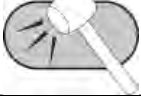
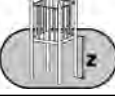
Playmakers® Model PM4646

Storefront Panel

Installation Preparation

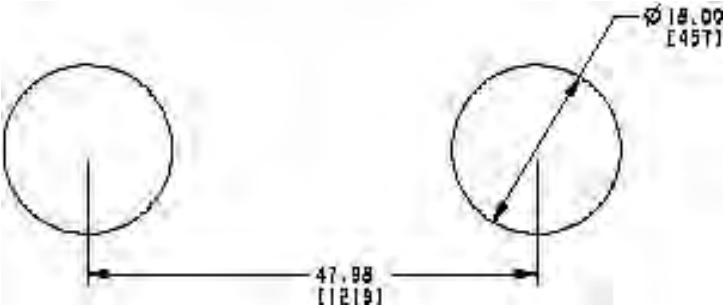
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

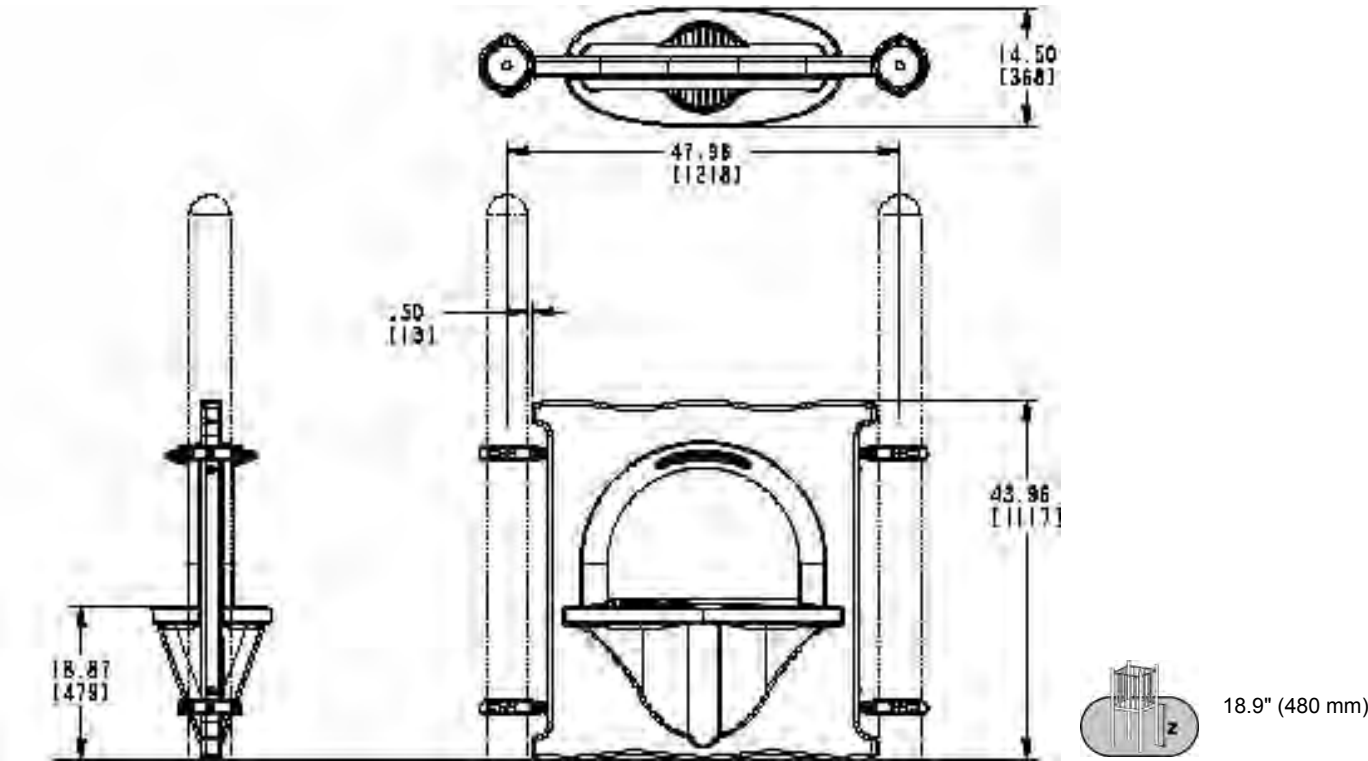
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

Top View

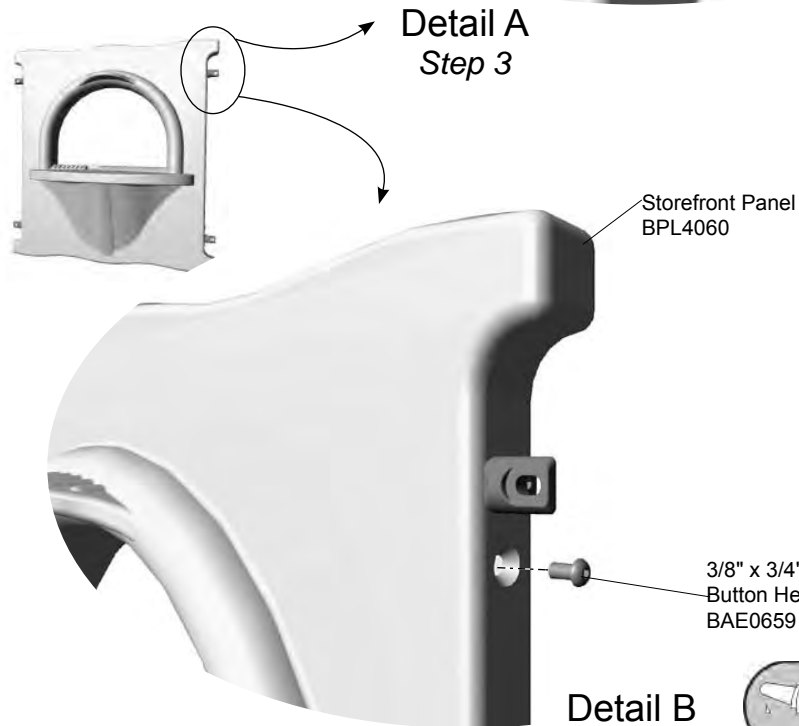
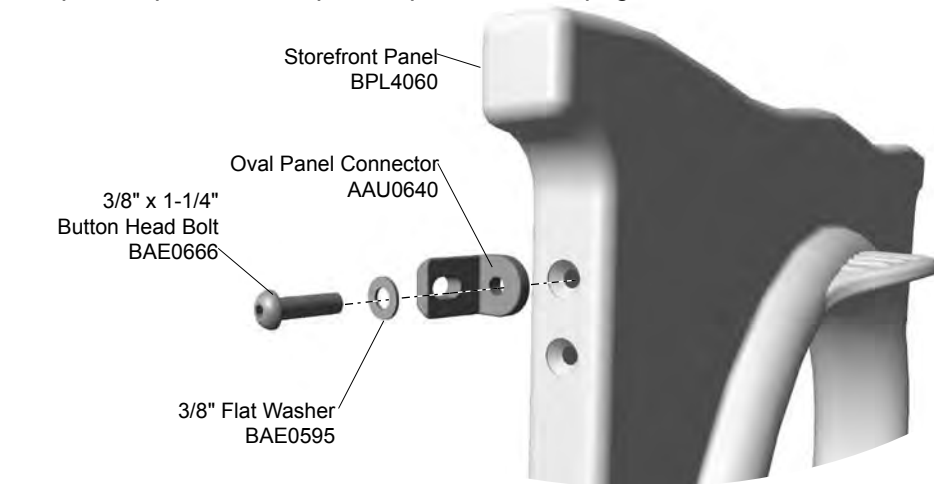


Elevation Views

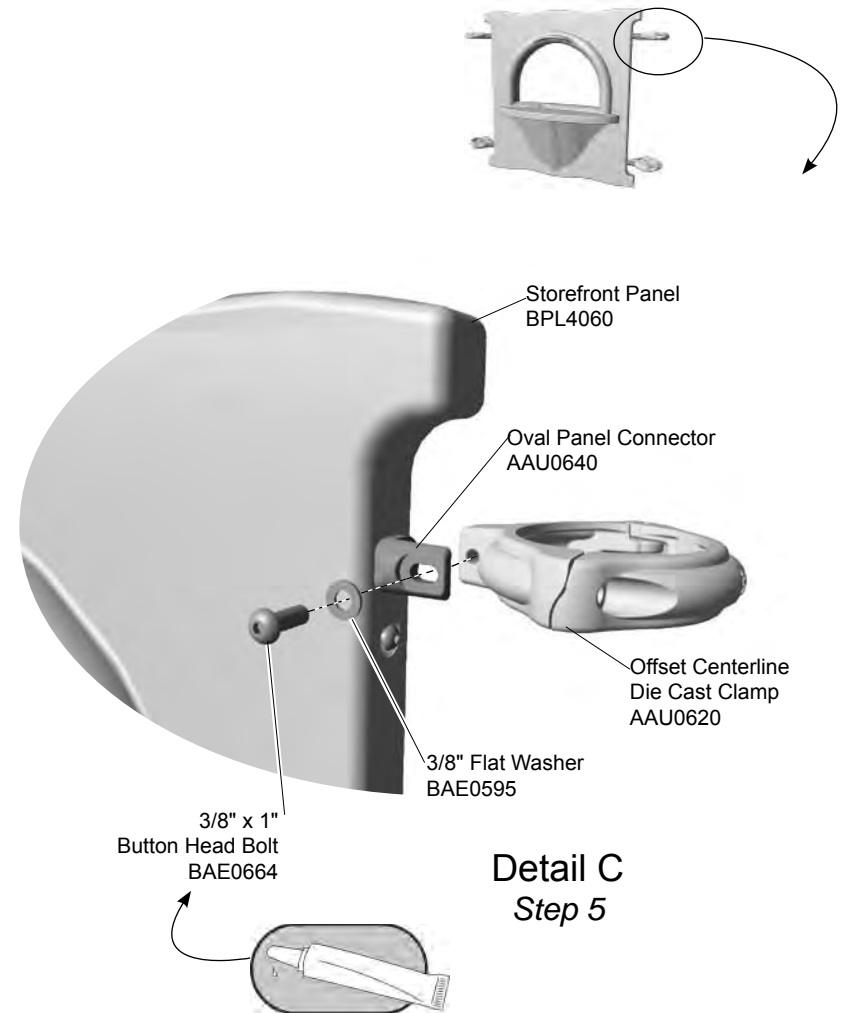


Installation Instructions

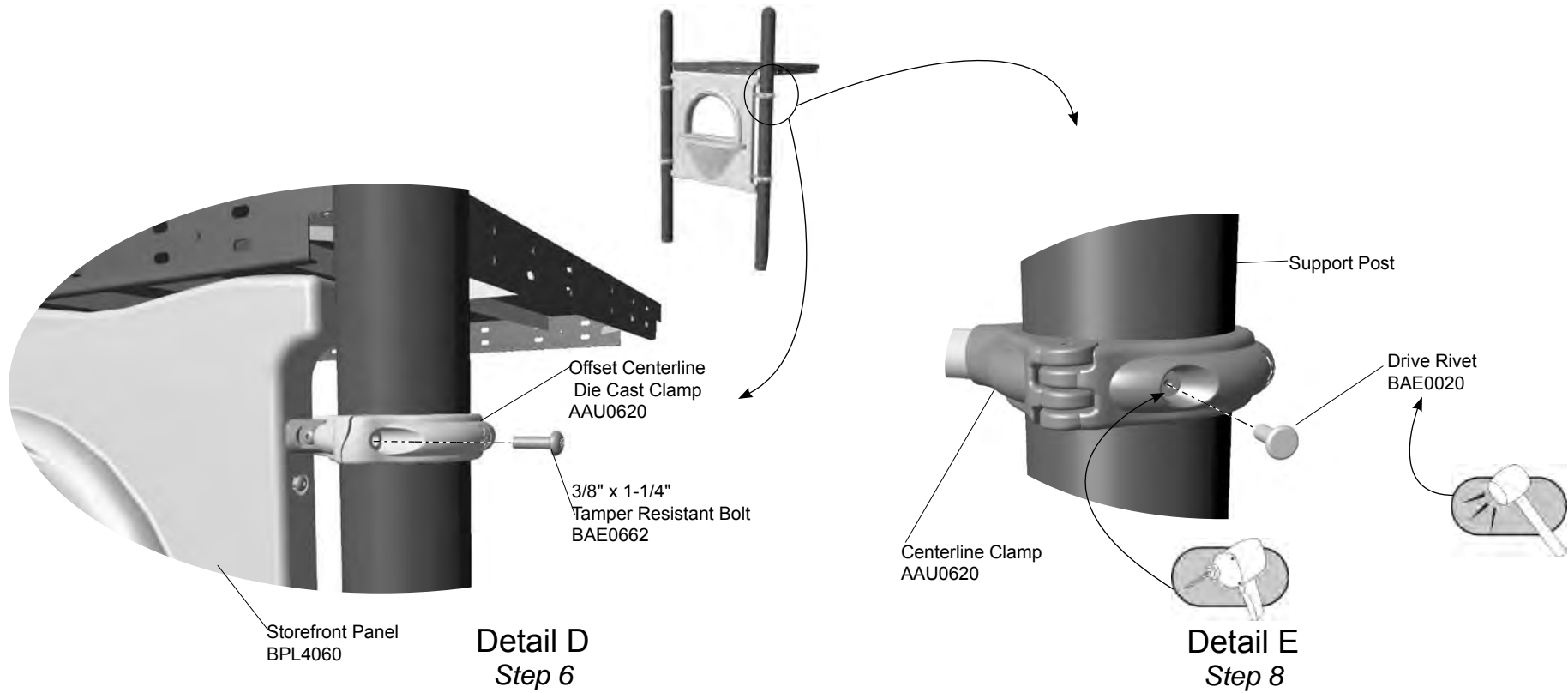
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail B
Step 4



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

Step 3: Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

Step 5: Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

Step 6: Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4646 - STOREFRONT PANEL

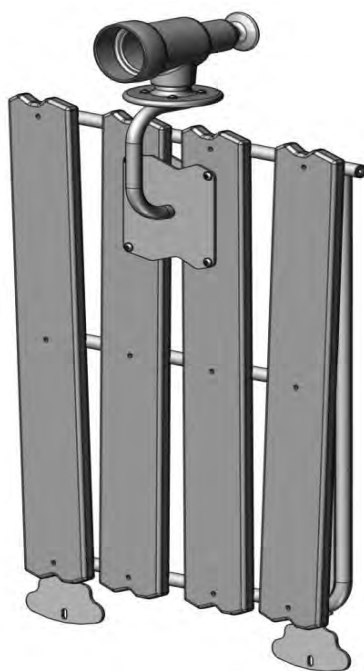
PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1



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Assembly View

Installation Instructions








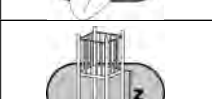
Universal Model UN4449

Playwood Telescope

Installation Preparation

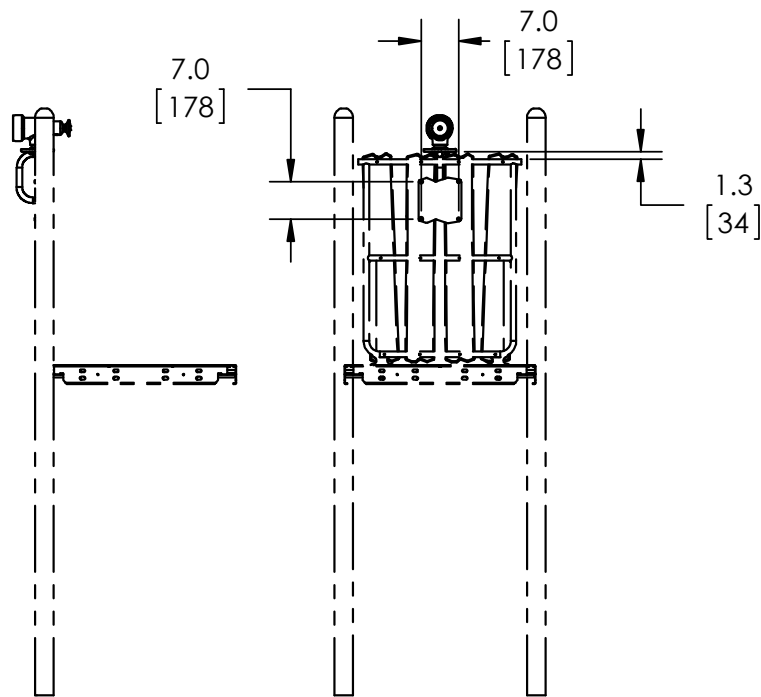
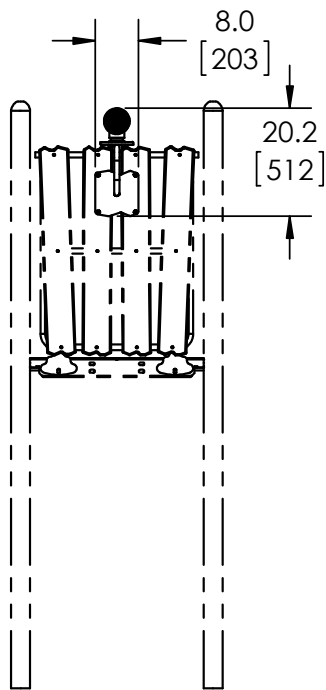
Recommended Crew: One (1) adults
 Installation Time: 0.5 hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

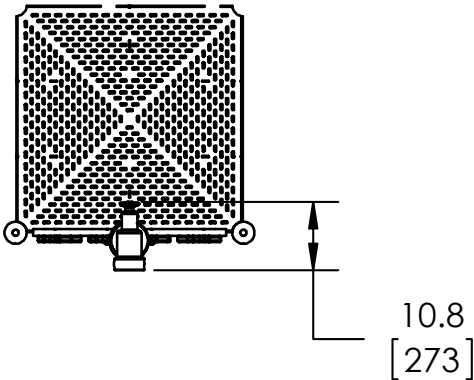
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



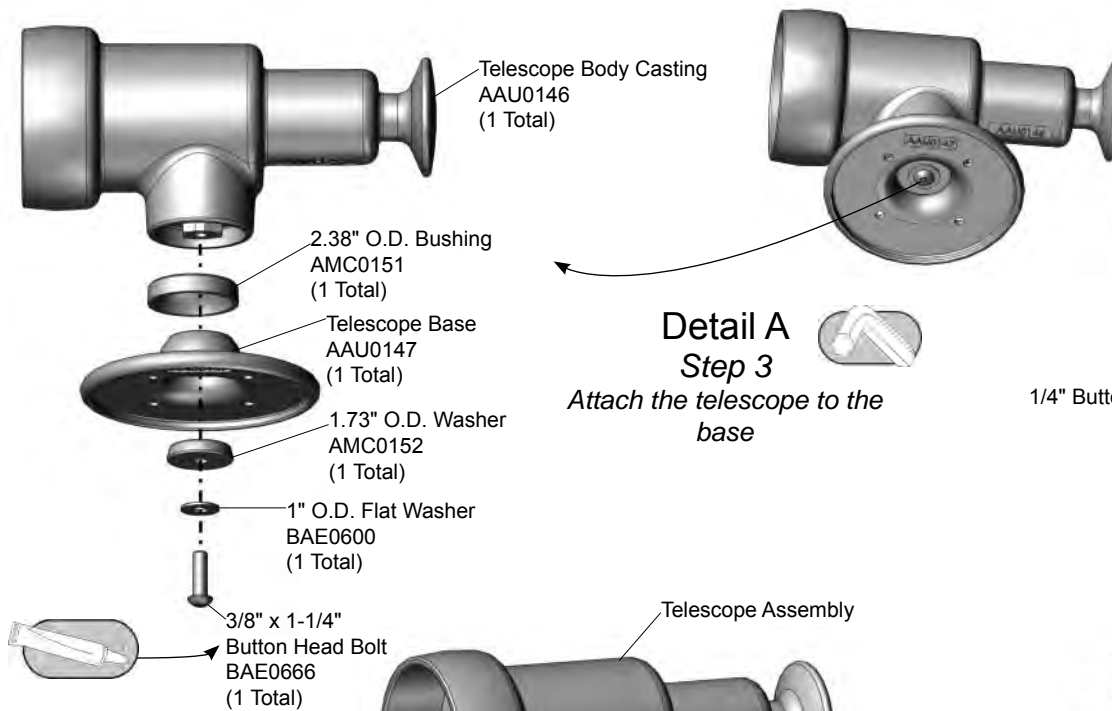
Elevation Views
UN4449

Top View

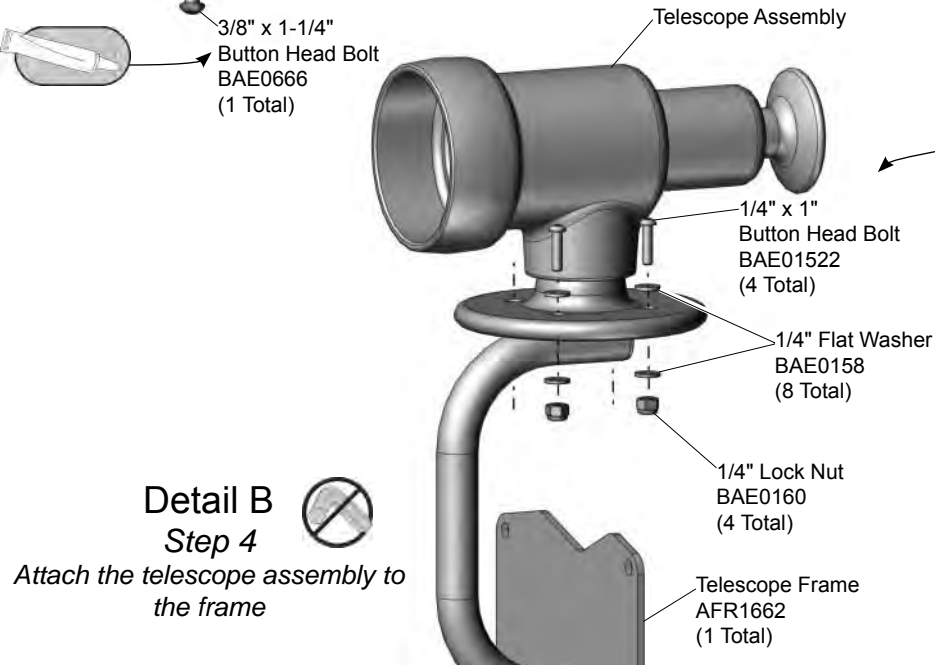


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



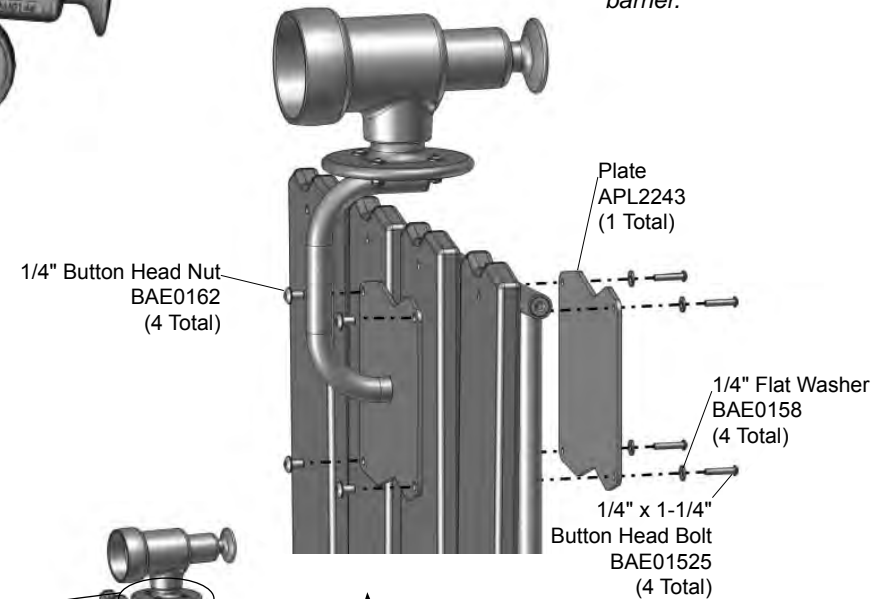
Detail A
Step 3
Attach the telescope to the base



Detail B
Step 4

Attach the telescope assembly to the frame

NOTE: Use the APL2243 as a template to field drill (4) 5/16" holes in the existing Playwood barrier before attaching the frame. **See elevation view** for correct placement on barrier, the telescope must be 1-1/4" above the wood planks on the barrier.



Detail C
Step 5
Attach the telescope to the barrier

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the telescope to the base. See **Detail A**. Select the telescope body, bushing, washers, telescope base and hardware, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 4: Attach the telescope assembly to the frame. See **Detail B**. Align the holes in the telescope assembly with the holes on the frame, and attach as shown. Do not fully tighten hardware.

Step 5: Attach the telescope to the barrier. See **Detail C**. **NOTE: Use the APL2243 (plate) as a template to field drill (4) 5/16" holes in the existing Plywood barrier before attaching the frame. See Elevation View on page 2 for correct placement on barrier, the telescope must be placed 1-1/4" above the wood planks on the barrier.** Align the frame with the holes, and attach as shown. Do not fully tighten hardware.

Final Details.

Step 6: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN4449 - PLAYWOOD TELESCOPE

PART NO.	DESCRIPTION	QTY.
AAU0146	CASTING - TELESCOPE BODY	1
AAU0147	CASTING - TELESCOPE BASE (FULL MOTION)	1
AFR1662	FRAME - TELESCOPE TO PLAYWOOD	1
AMC0151	BUSHING - 2.38" O.D. x .50"	1
AMC0152	WASHER - 1.73" O.D. x .38" W/HOLE	1
APL2243	PLATE - 8.00" x 8.47" x 7 GA	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0158	WASHER - 1/4" SAE FLAT	12
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	4
BAE0162	NUT - 1/4"-20 x 9/16" BUTTON HEAD	4
BAE0600	WASHER - 1" O.D. FLAT	1
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	1
BAE01522	BOLT - 1/4"-20 x 1.00" BUTTON HEAD - S.S.	4
BAE01525	BOLT - 1/4"-20 x 1.25" BUTTON HEAD - S.S.	4



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Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

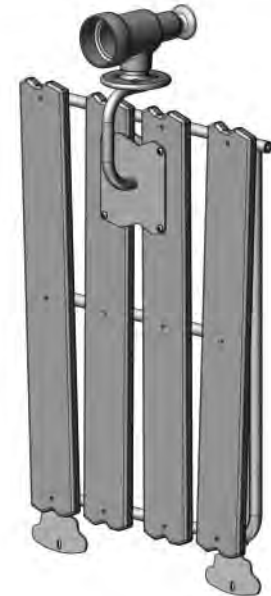
Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model UN4449 Playwood Telescope





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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____





Assembly View

Installation Instructions




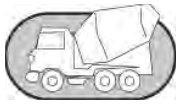


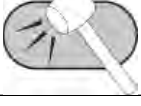
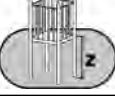
Playmakers® Model PM4659

PlayWood Wall Barrier

Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

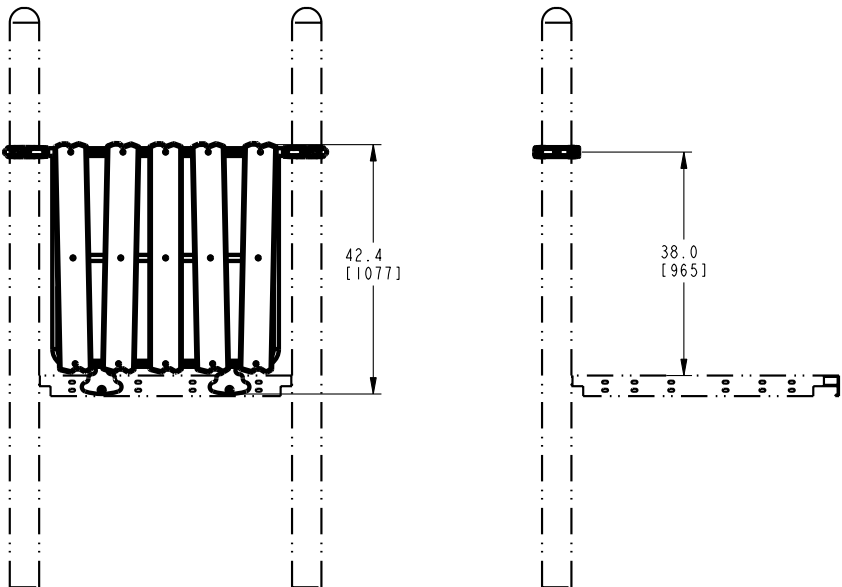
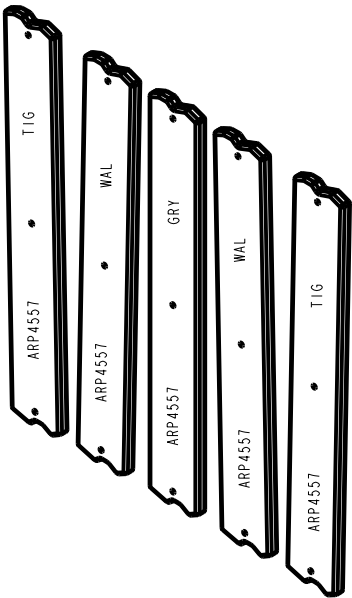
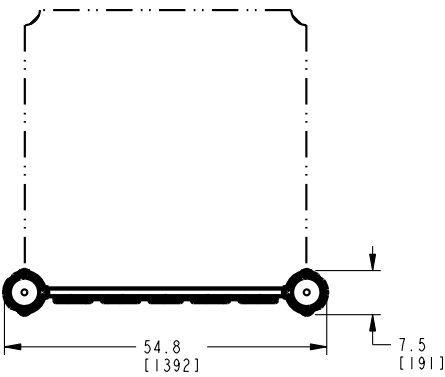
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Elevation Views

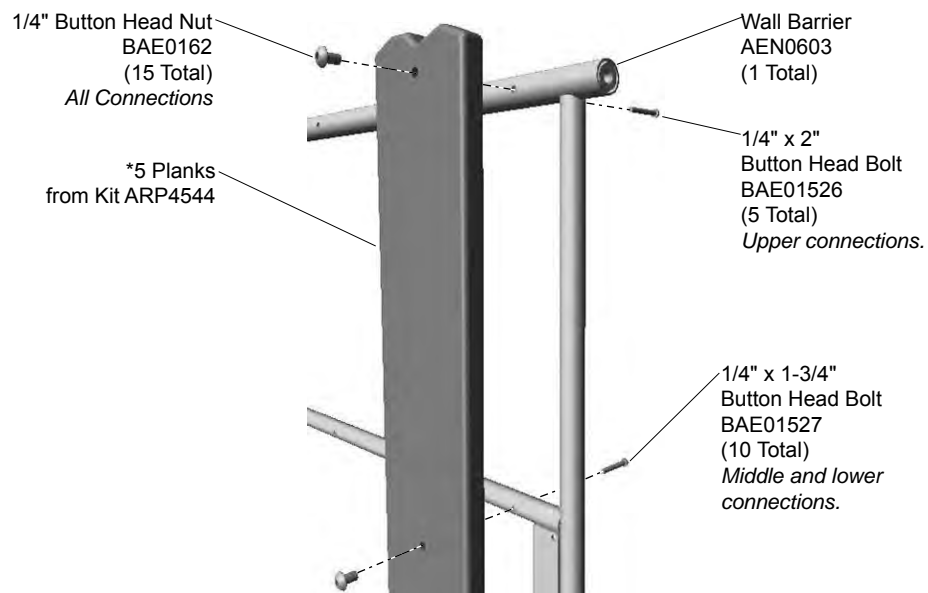
PART NUMBER	COLOR	QTY
ARP4557	TIGERWOOD	2
ARP4557	WALNUT	2
ARP4557	GREY	1

Plank Placement Detail



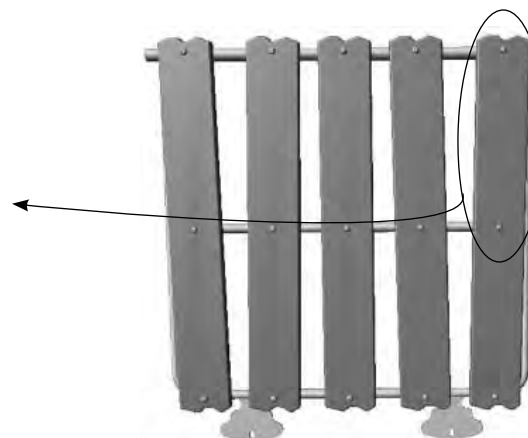
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

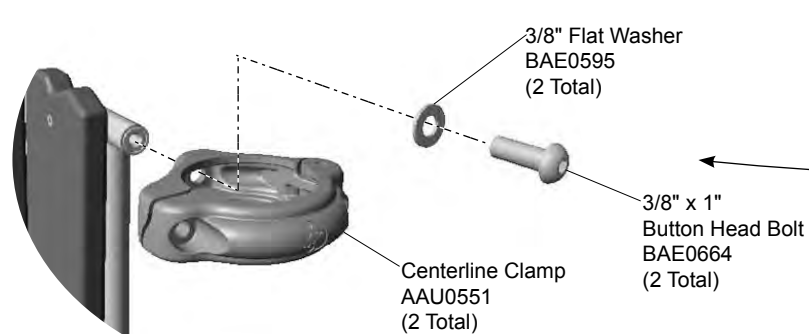


Detail A
Step 3

Attach the planks to the wall barrier.

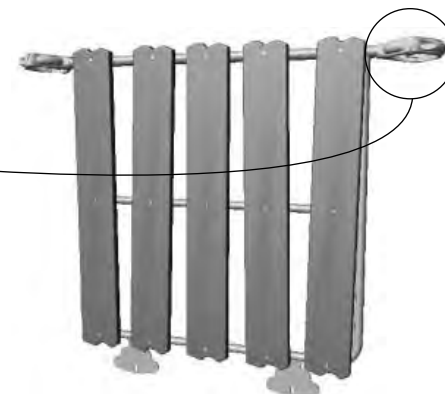


***Note:** See Plank Placement Detail for part number, color and location of each plank.

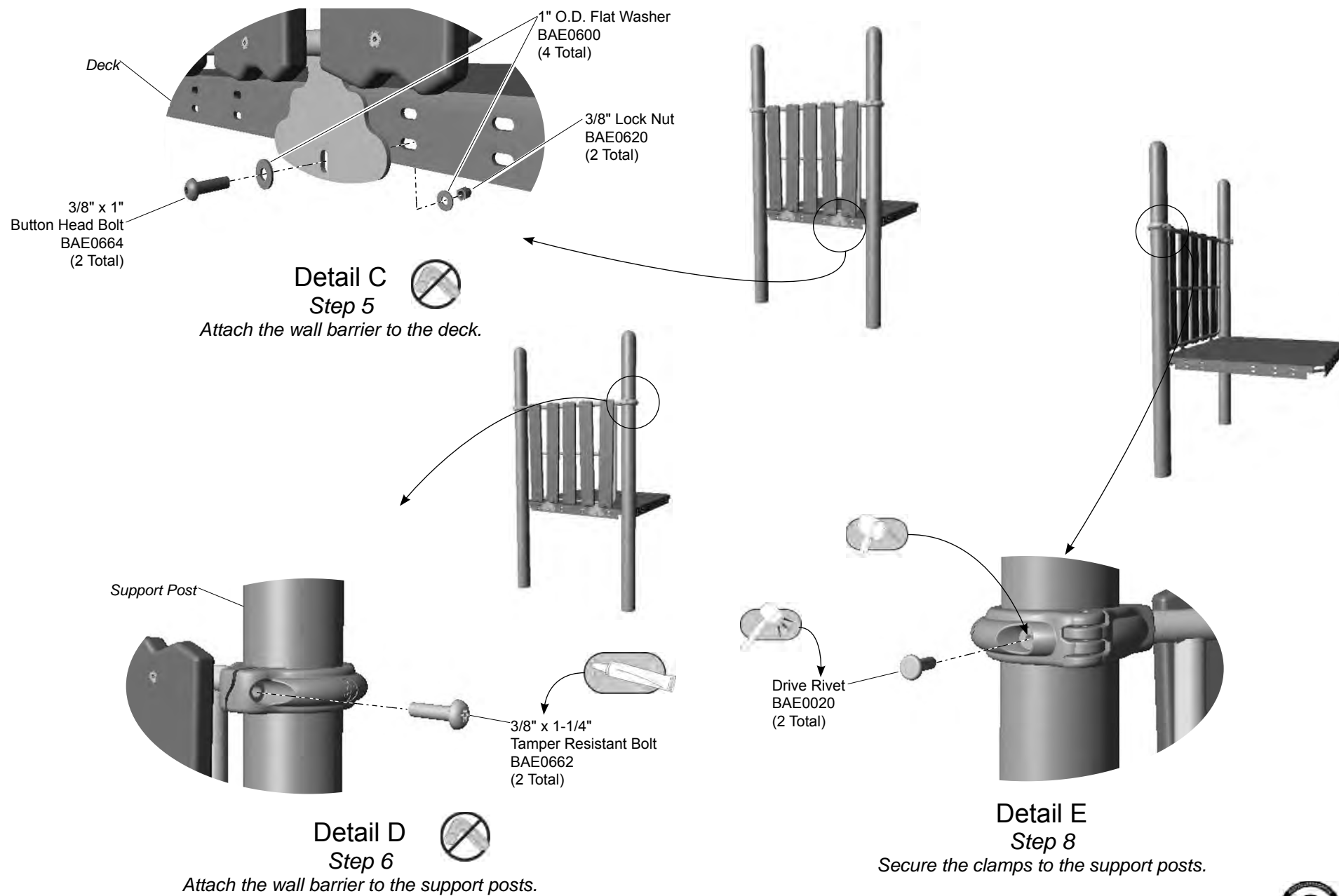


Detail B
Step 4

Attach the clamps to the wall barrier.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the planks to the wall barrier. See **Detail A and Plank Placement Detail**. Position each plank against the wall barrier and attach as shown. Fully tighten the fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 4: Attach the clamps to the wall barrier. See **Detail B**. Position a clamp against each end of the top rail on the barrier and attach as shown. Make sure the clamps are turned in the same direction. Fully tighten the fasteners according to tightening torque specifications.

Step 5: Attach the wall barrier to the deck. See **Detail C**. Position the barrier against the deck and close the clamps around the support posts and attach as shown. The barrier may be attached to either the upper or lower holes in the deck.

Step 6: Attach the wall barrier to the support posts. See **Detail D**. Apply a drop of thread locking adhesive to the bolts threads and attach the clamps to the support posts as shown.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4659 - PLAYWOOD WALL BARRIER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0603	BARRIER - 41.00" x 41.80" PLAYWOOD WALL	1
ARP4544	PLAYWOOD KIT - PM WALL BARRIER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE01526	BOLT - 1/4"-20 x 2" BUTTON HEAD - SS	5
BAE01527	BOLT - 1/4"-20 x 1-3/4" BUTTON HEAD - SS	10
BAE0162	NUT - 1/4"-20 x 9/16" BUTTON HEAD	15
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4



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Assembly View
(72" (1830 mm) model shown)

Model	Deck Height
ZZPM6816	48" (1219 mm)
ZZPM6817	60" (1524 mm)
ZZPM6818	72" (1829 mm)
ZZPM6819	84" (2134 mm)
ZZPM6820	96" (2438 mm)

Installation Instructions

Playmakers® Models PM6816-PM6820

Tree House Climber








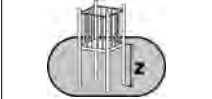
48" (1219 mm), 60" (1524 mm), 72" (1829 mm),
84" (2134 mm), & 96" (2438 mm)

Deck Heights

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.06 cubic yard (0,05 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 48"-60": ASTM/CSA: 2-12, EN: 2-14
 60"-96": ASTM/CSA: 5-12, EN: 6-14

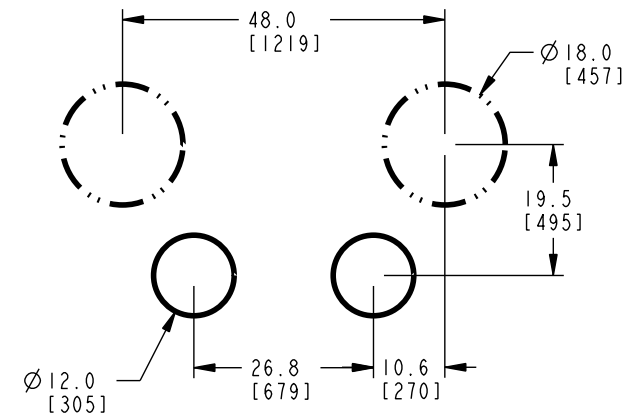
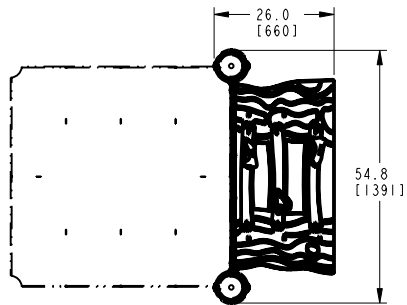
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

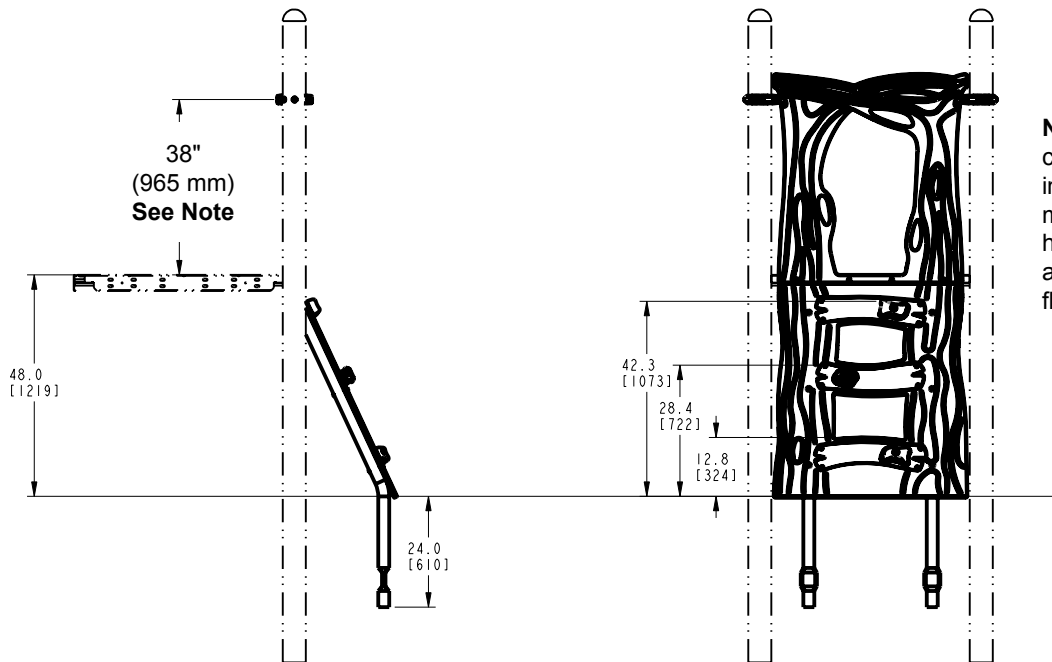
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

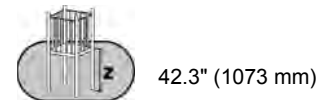


Footing Diagram



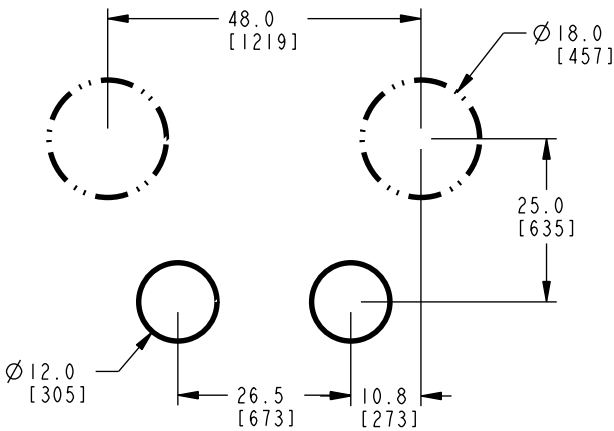
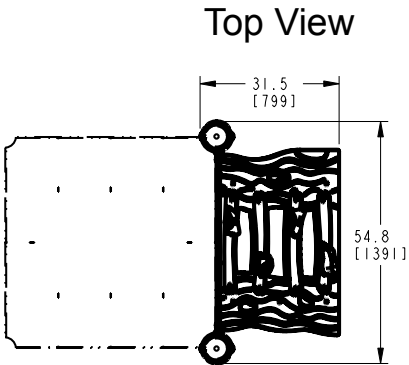
Elevation Views (PM6816)

Note: Dimension 38" (965 mm) for clamp adaptor positioned as shown in the details. The panel will be mounted to the upper set of deck holes. In case of clamp conflict, adaptor can be flipped. Dimension for flipped adaptor is 36" (915 mm).

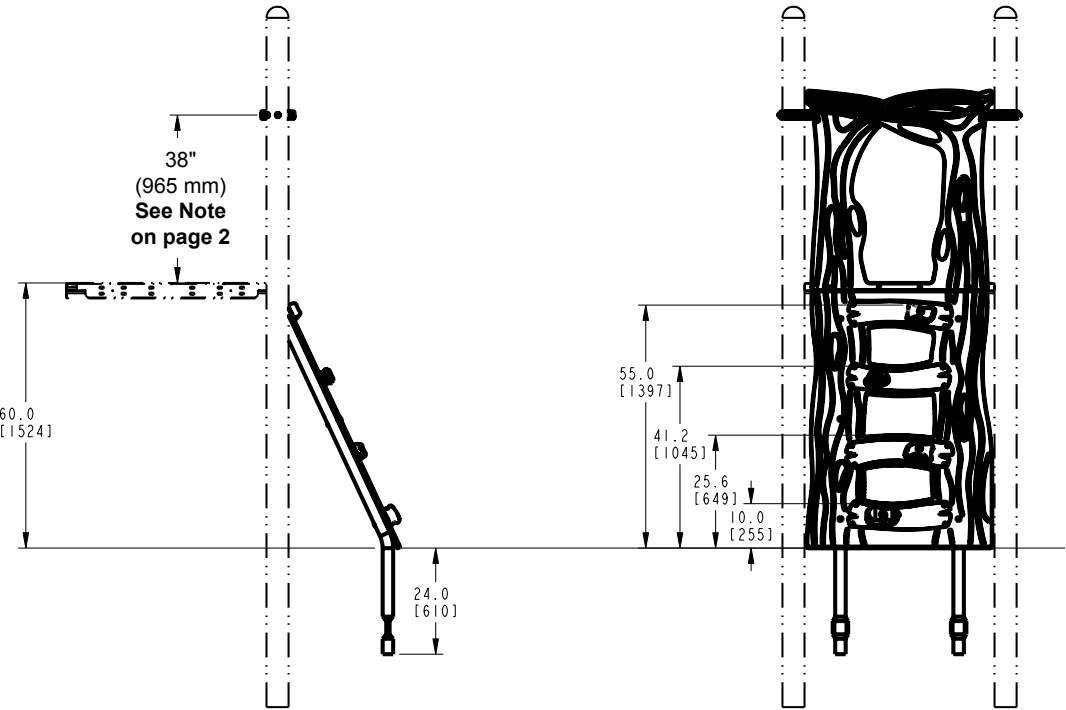


Installation Instructions

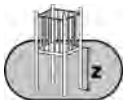
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation Views (PM6817)

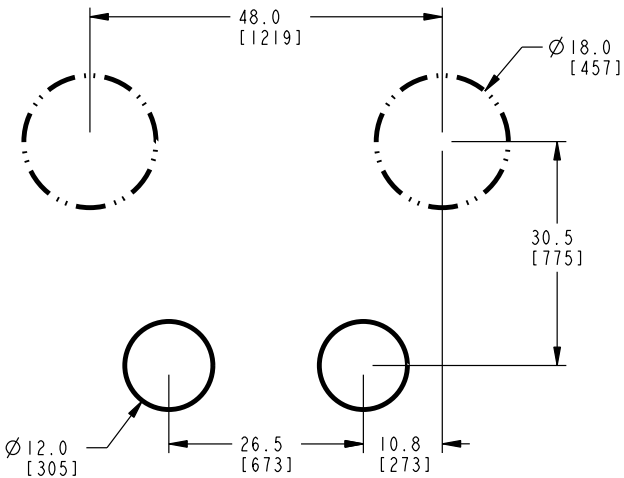
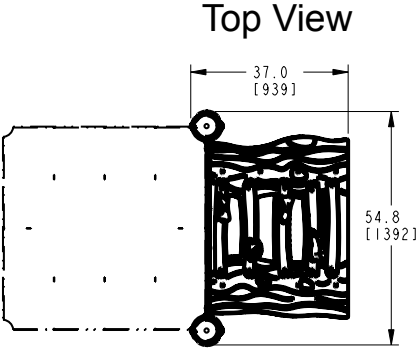


55" (1397 mm)

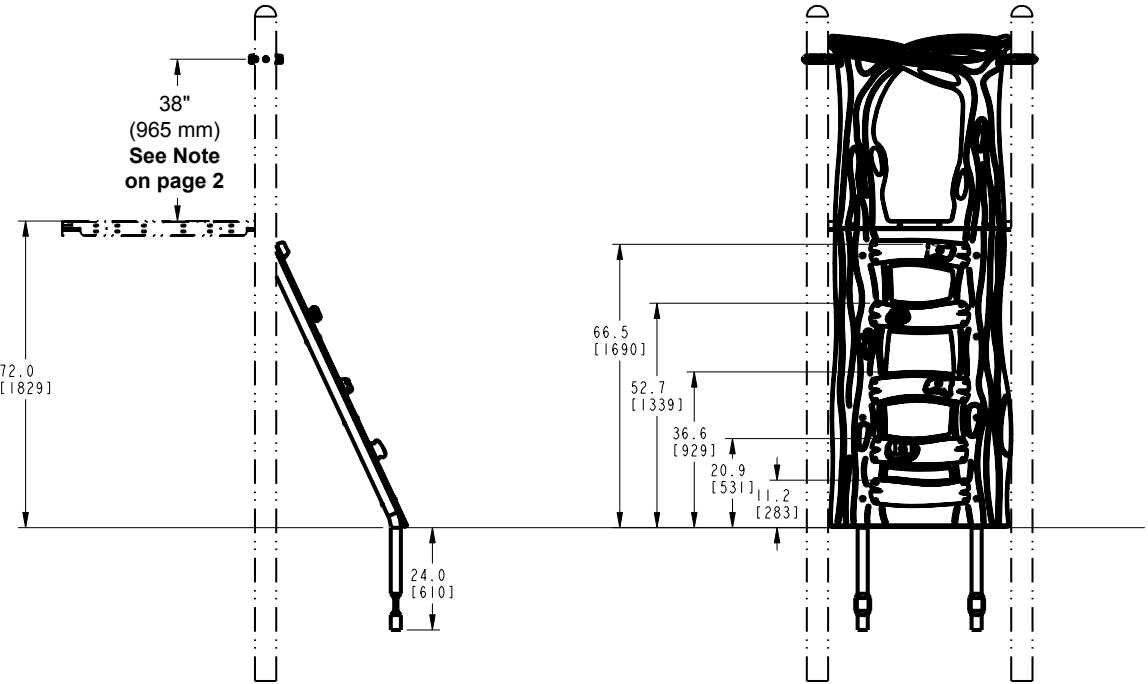


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footings Diagram

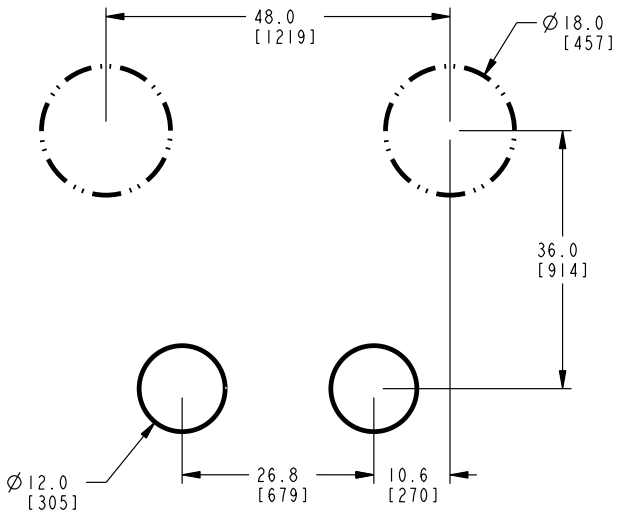
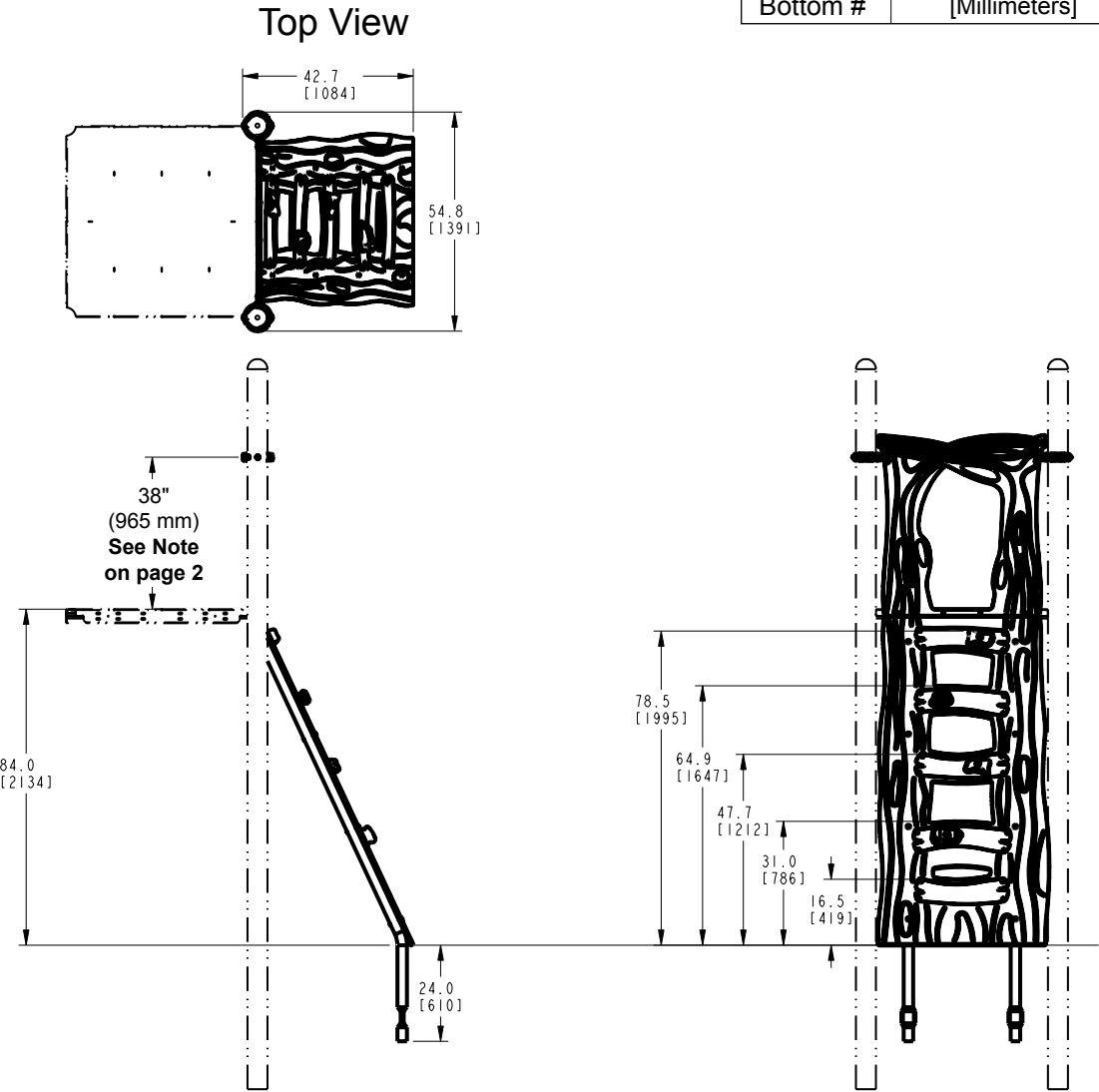


Elevation Views (PM6818)

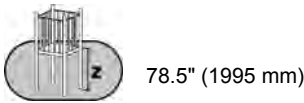


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

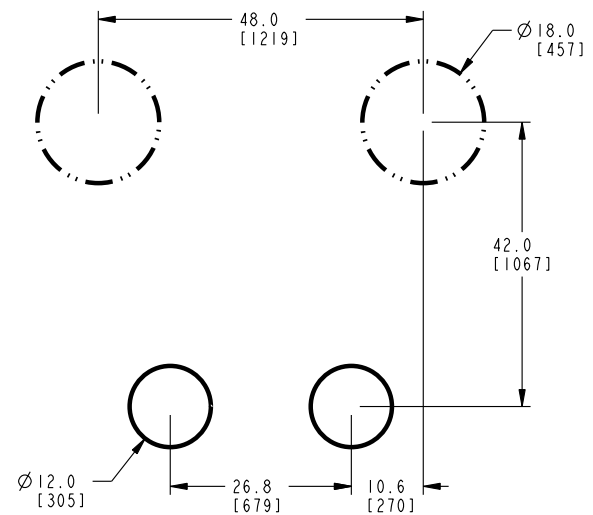
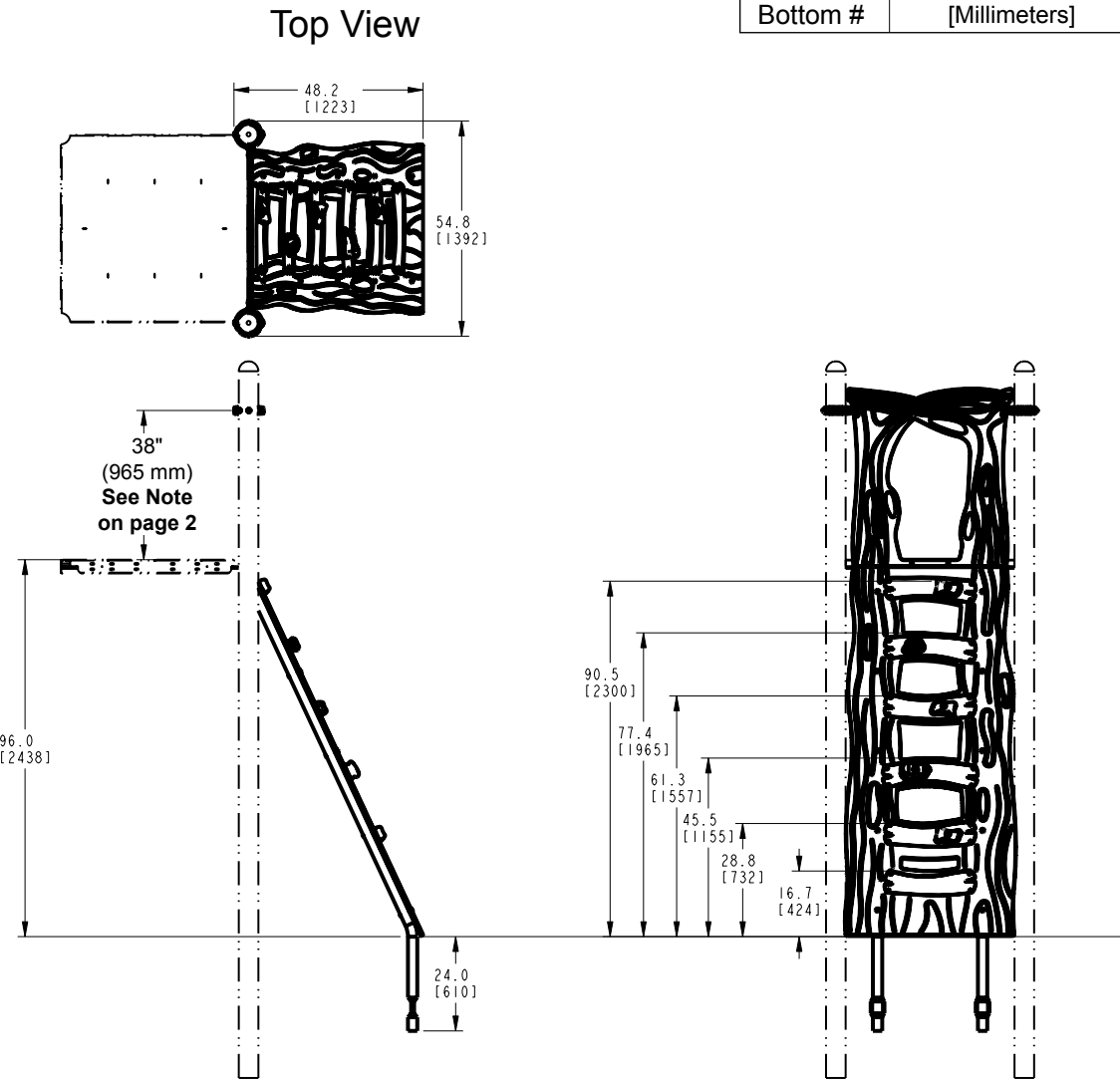


Footing Diagram

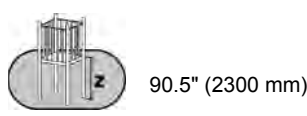


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

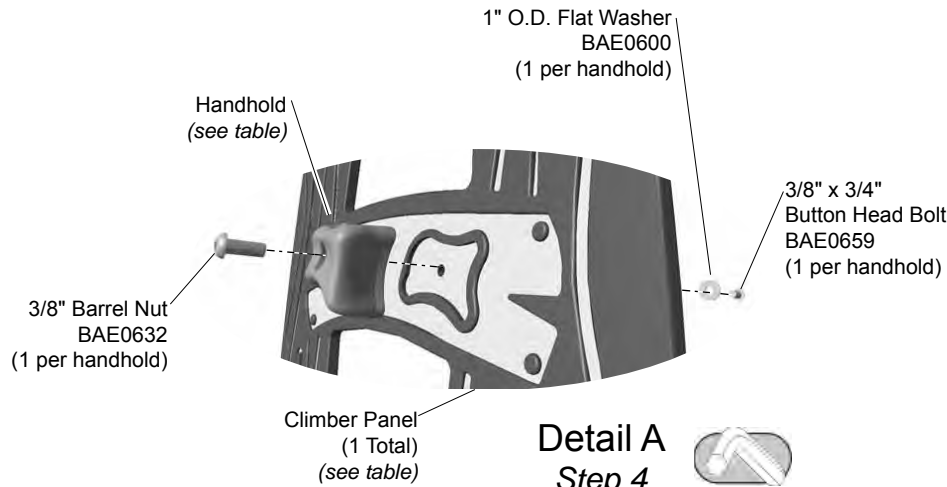


Footing Diagram



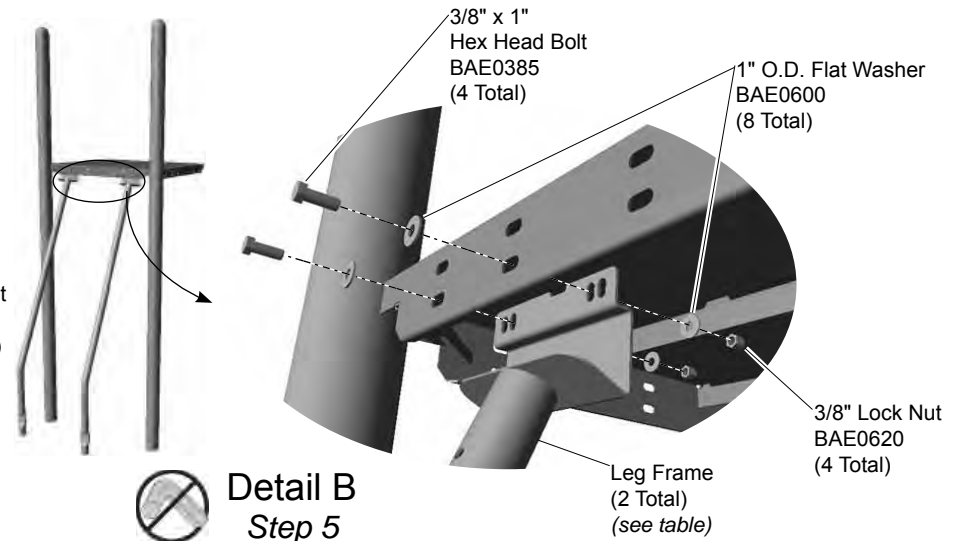
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 10.



Detail A
Step 4

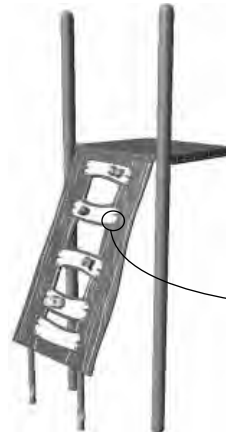
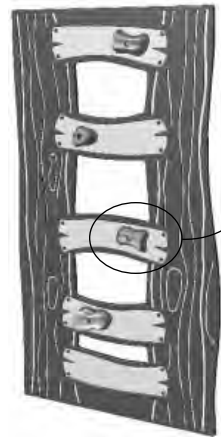
Attach the handholds to the climber panel.



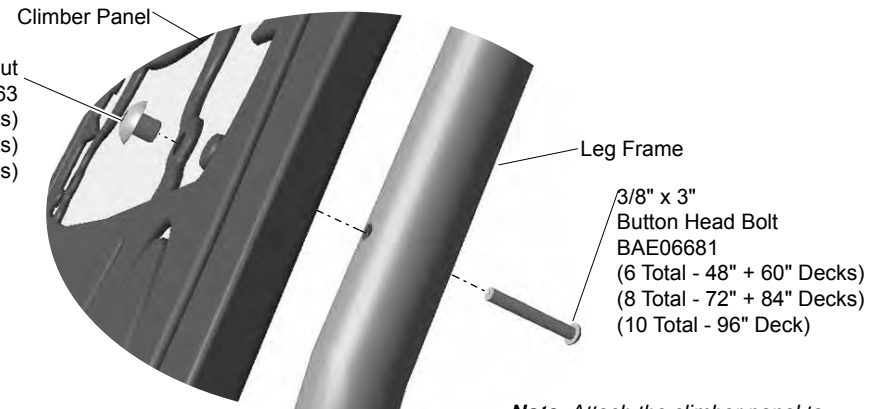
Detail B
Step 5

Attach the leg frames to the deck. Make the connections through the two middle holes in the leg bracket.

	PM6816	PM6817	PM6818	PM6819	PM6820
Leg Frame	AFR0956	AFR0958	AFR0960	AFR0962	AFR0964



3/8" Button Head Nut
BAE0663
(6 Total - 48" + 60" Decks)
(8 Total - 72" + 84" Decks)
(10 Total - 96" Decks)



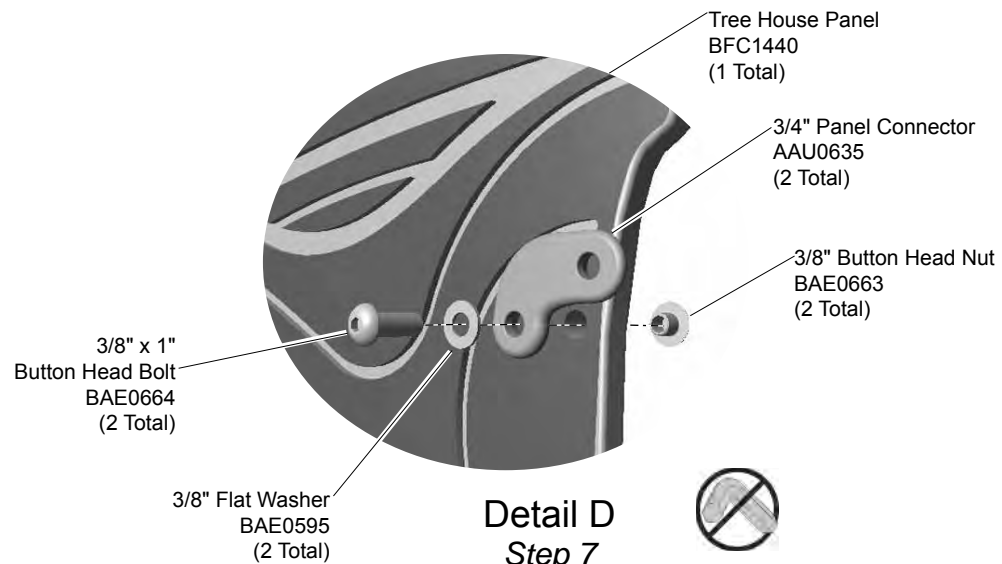
Detail C
Step 6

Attach the climber panel to the leg frames.

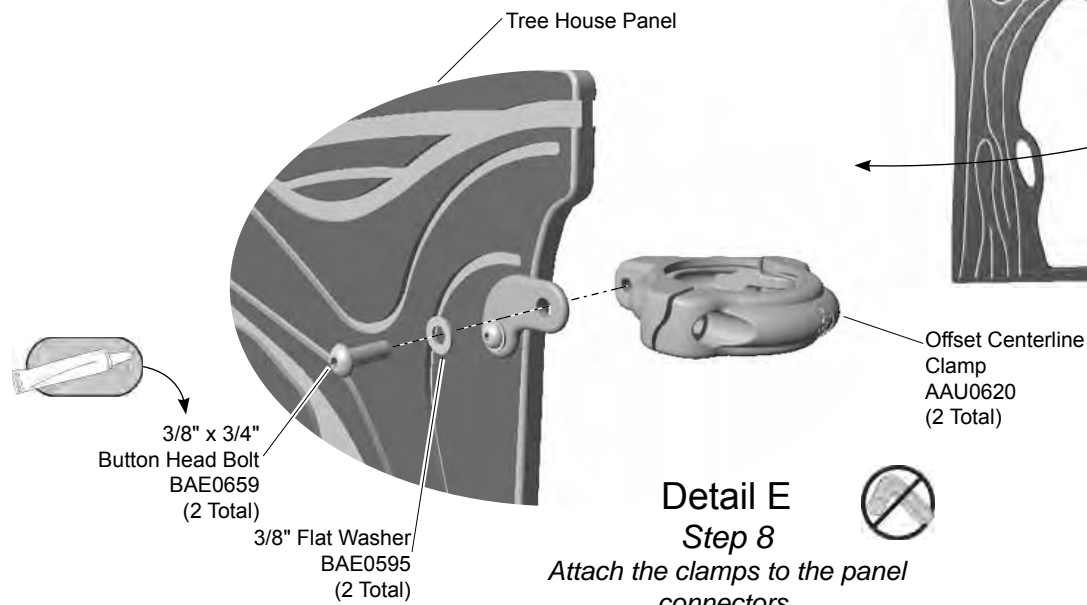
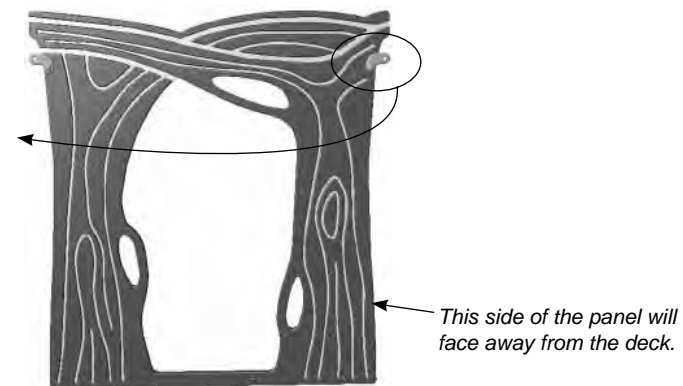
Note: Attach the climber panel to the leg frames starting at the bottom of the legs. Before making the top connection tighten the leg frames to deck connections.

# of Handholds	PM6816	PM6817	PM6818	PM6819	PM6820
Small AAU0067	1	1	1	1	1
Medium AAU0068	2	2	2	2	3
Large AAU0069	0	1	1	1	1
Panel #	BFC1454	BFC1455	BFC1456	BFC1457	BFC1458

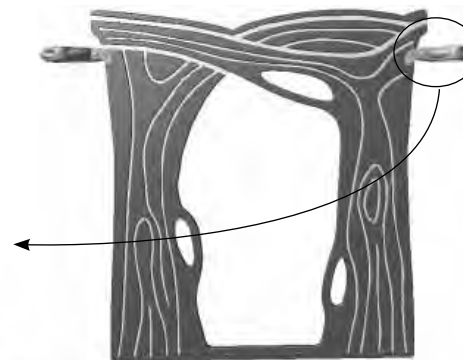
Installation Instructions



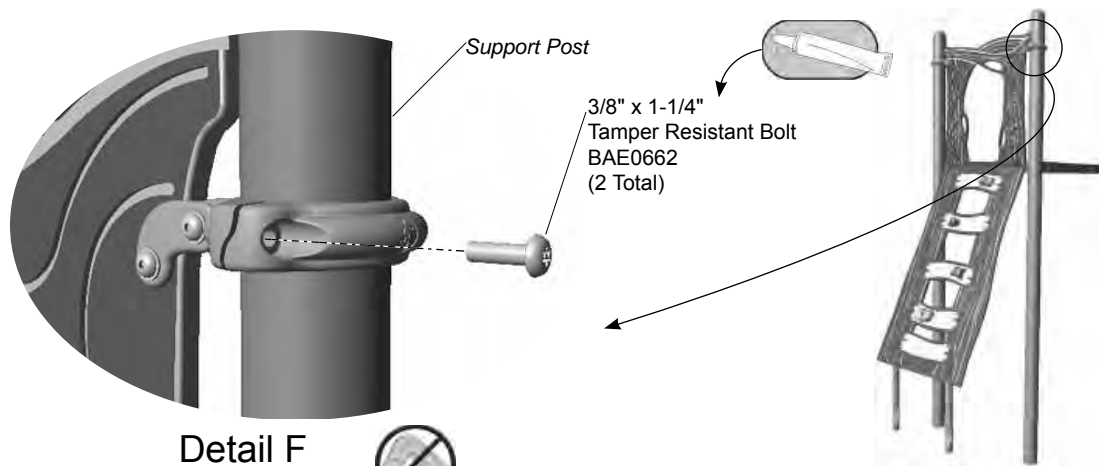
Attach the panel connectors to the tree house panel.



Attach the clamps to the panel connectors.



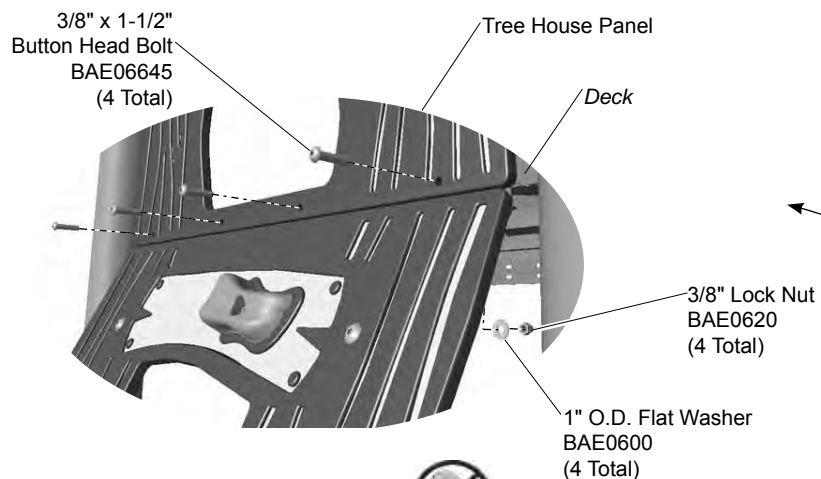
Installation Instructions



Detail F

Step 9

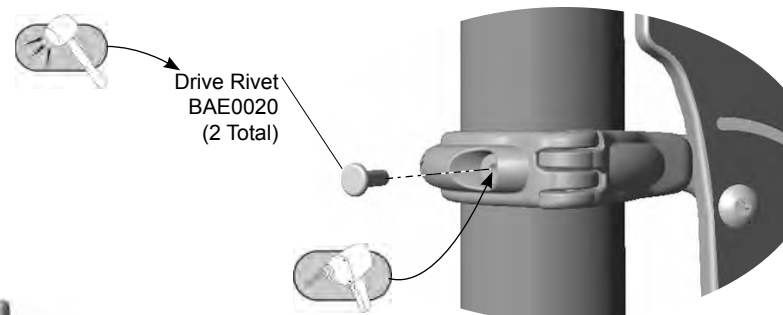
Attach the tree house panel to the support posts.



Detail G

Step 10

Attach the tree house panel to the deck.



Detail H

Step 12

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** located in the *Playmaker Guidelines*.

Step 4: Attach the handholds to the panel. See **Detail A**. Position each handhold into the corresponding cutout in the panel and attach as shown. Refer to the table on *page 7* for the correct panel and number of handholds. Fully tighten the hardware to pull the handhold into the panel.

Step 5: Attach the leg frames to the deck. See **Detail B**. Place the frame legs in their footings with the mounting bracket under the deck and align the lower holes. Use the slots indicated on each bracket and attach as shown.

Step 6: Attach the panel to the legs. See **Detail C**. Place the panel with the wider part at the bottom and align the side holes with the holes in the legs. Attach as shown.

Step 7: Attach the panel connectors to the panel. See **Detail D**. Position the short leg on each panel connector against a top hole on the routed side of the panel. Align the connectors with the holes and attach as shown. Leave the connections loose.

Step 8: Attach the clamps to the panel connectors. See **Detail E**. Place the flat side of each clamp against the deck side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave the connections loose for alignment adjustment.

Step 9: Attach the panel to support posts. See **Detail G** and **Elevation View**. Position the panel between the support posts and close the clamps around the support post at the height indicated. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Note: In the event of a clamp conflict with an adjacent component, the panel connector can be flipped upside down and reconnected to the panel. Both clamps should be mounted at the same height.

Important Note: The long portion of the panel connector must be level to prevent any string entanglement issues.

Step 10: Attach the panel to the deck. See **Detail G**. Align the holes in the panel with the upper holes in the deck and attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and Nuts: Snug tighten and then tighten an additional one half turn.

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



PM6816 - 48" (1219 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	2
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0956	FRAME - 2.38" O.D. x 70.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	15
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	3
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	5
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1454	SHEET - 48" TREE HOUSE CLIMBER (PM)	1

PM6817 - 60" (1524 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0958	FRAME - 2.38" O.D. x 82.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1455	SHEET - 60" TREE HOUSE CLIMBER (PM)	1

PM6818 - 72" (1829 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0960	FRAME - 2.38" O.D. x 94.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1456	SHEET - 72" TREE HOUSE CLIMBER (PM)	1

PM6819 - 84" (2134 mm) TREE HOUSE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0962	FRAME - 2.38" O.D. x 106.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1457	SHEET - 84" TREE HOUSE CLIMBER (PM)	1



PM6820 - 96" (2438 mm) TREE HOUSE CLIMBER

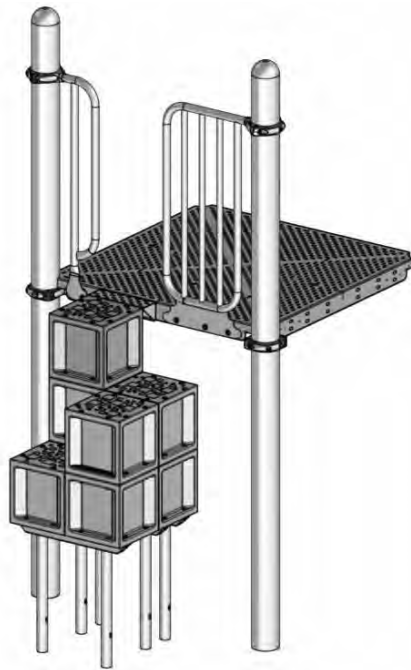
PART NO.	DESCRIPTION	QTY.
AAU0067	HANDLE - SMALL	1
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	1
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0964	FRAME - 2.38" O.D. x 118.27" w/BACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0385	BOLT - 3/8"-16 x 1" HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATPM	5
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	7
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	10
BFC1440	PANEL - TREE HOUSE CLIMBER (PM)	1
BFC1458	SHEET - 96" TREE HOUSE CLIMBER (PM)	1



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570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com





Assembly View (representative model)








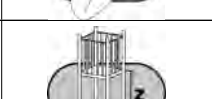
Installation Instructions

Playmakers® Models PM7087 and PM7087S
QuBits™ Block Climber 36 in. (914 mm) Decks
In-ground and Surface Mount

Installation Preparation

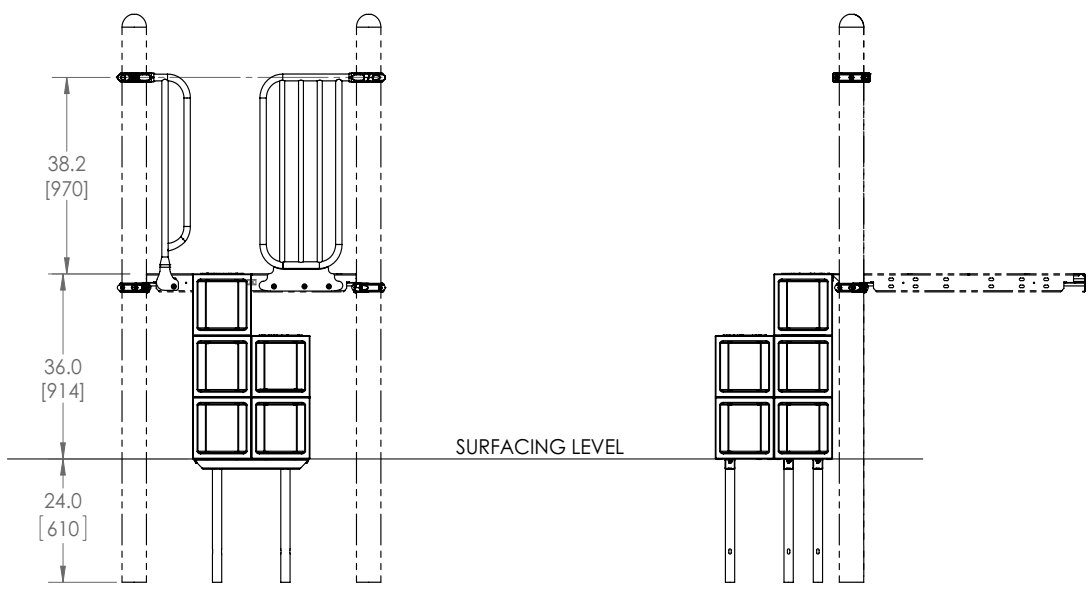
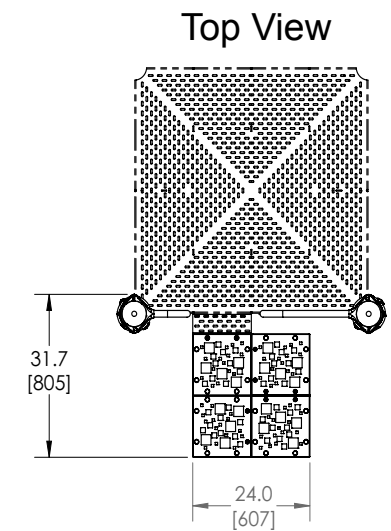
Recommended Crew: Two (2) adults
Installation Time (in-ground): 4 man-hours
Installation Time (surface mount): 2 man-hours
Concrete Required: 0.12 cubic yard (0,08 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

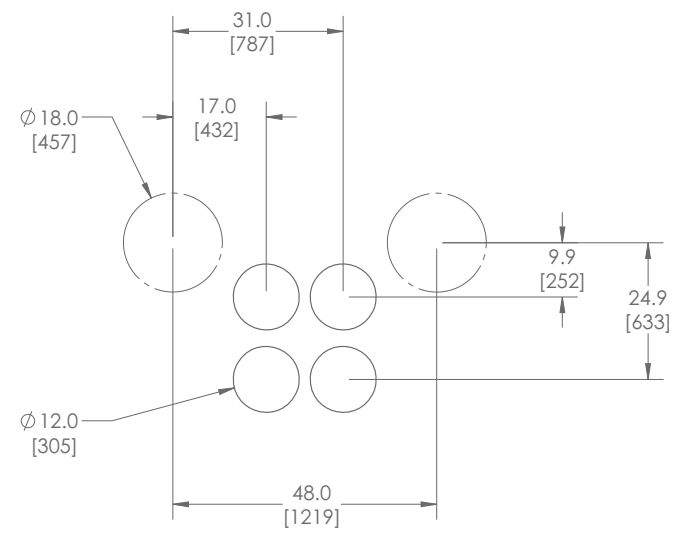
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

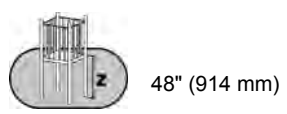
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM7087

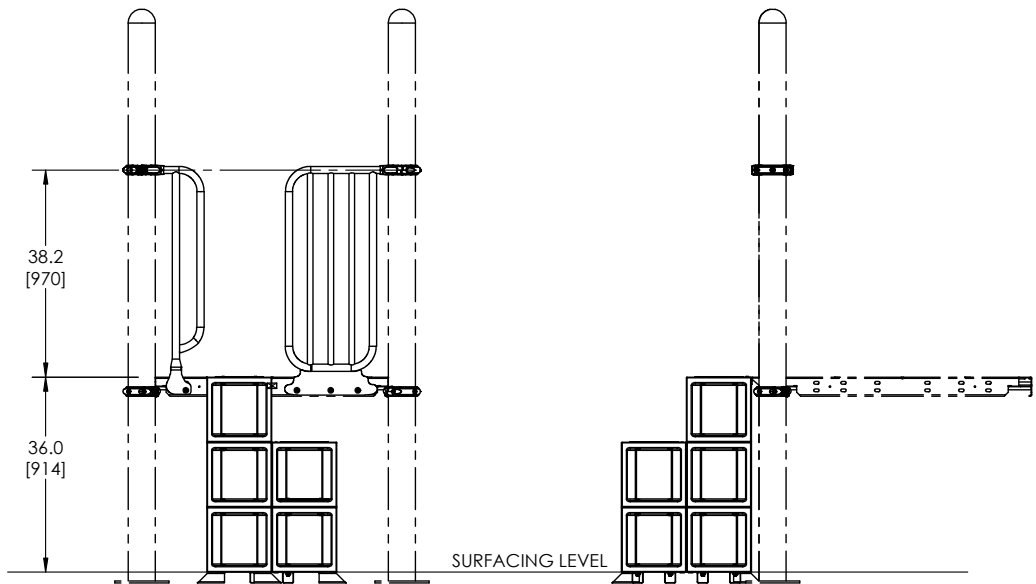
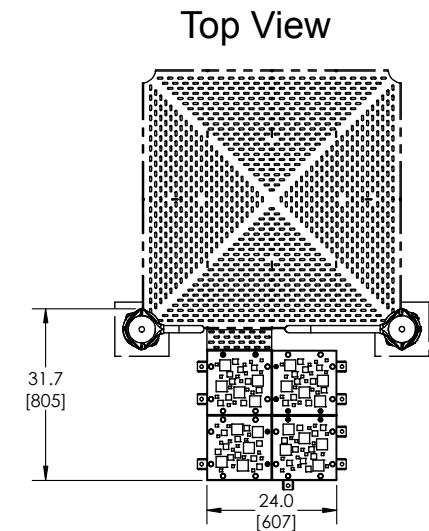


Footing Diagram

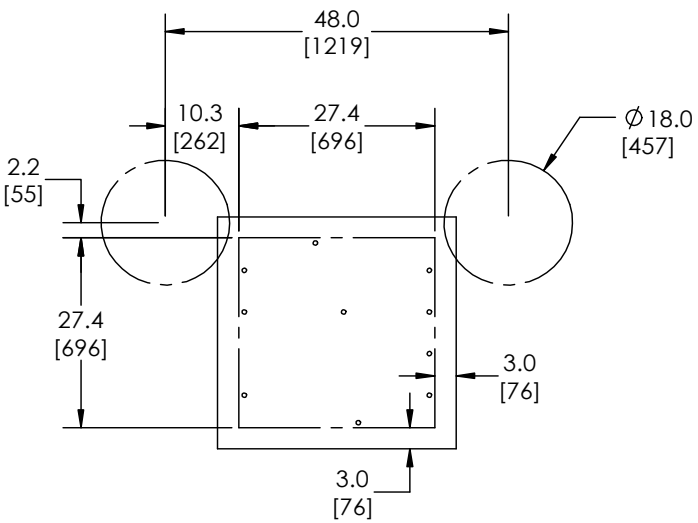


Installation Instructions

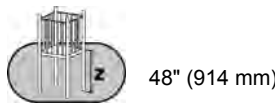
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM7087S

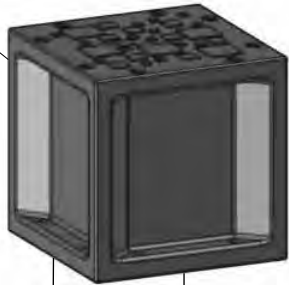


Footing Diagram

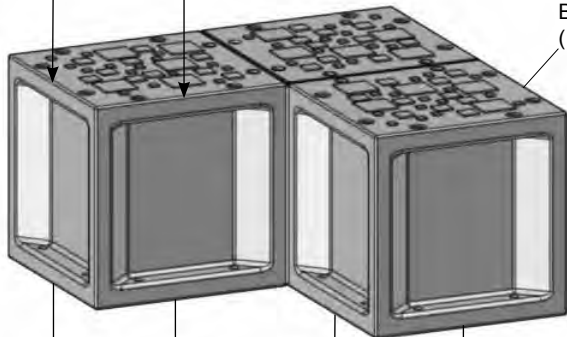


Installation Instructions

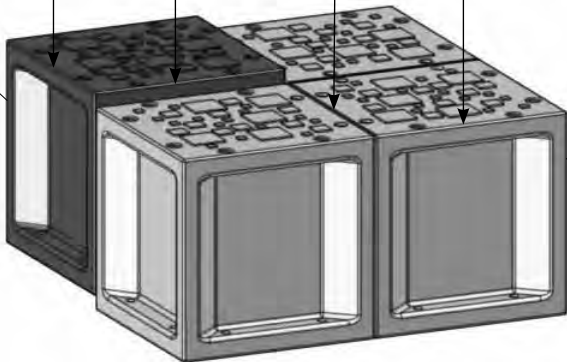
3rd Layer
Single Cube
BPL3182
(1 Total)



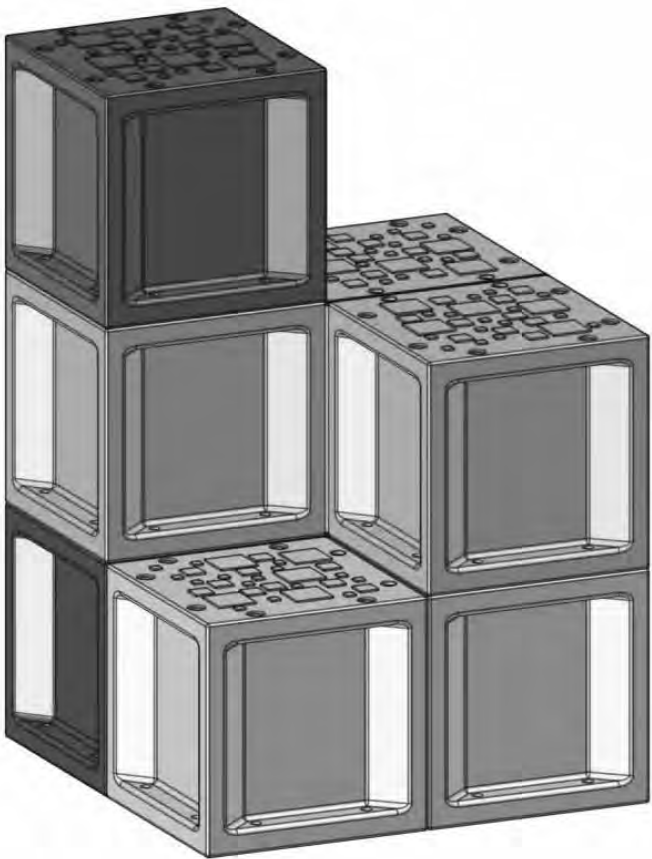
2nd Layer
Triple Cube
BPL3183
(1 Total)



1st Layer
Single Cube
BPL3182
(1 Total)



1st Layer
Triple Cube
BPL3183
(1 Total)

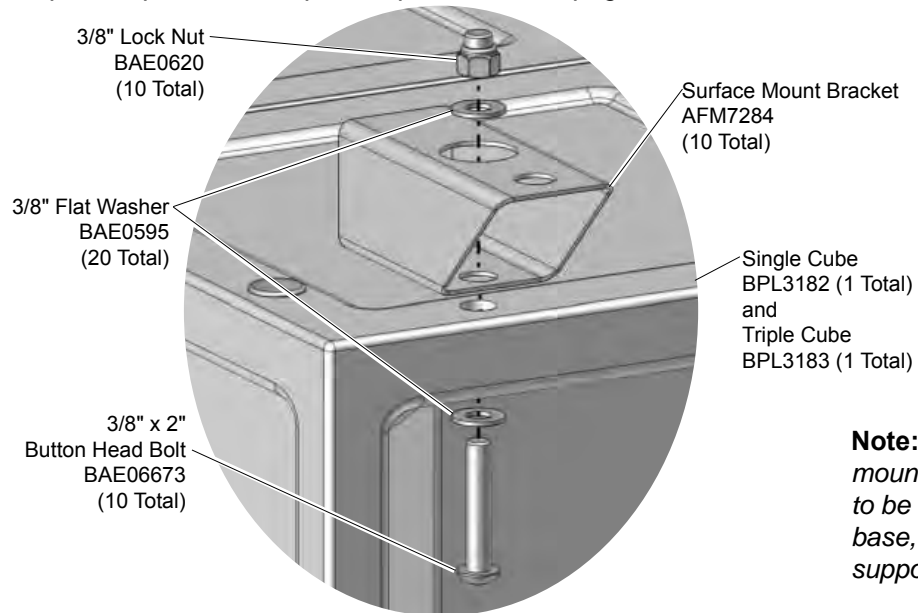


Cube Placement for PM7087 and PM7087S



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 16.



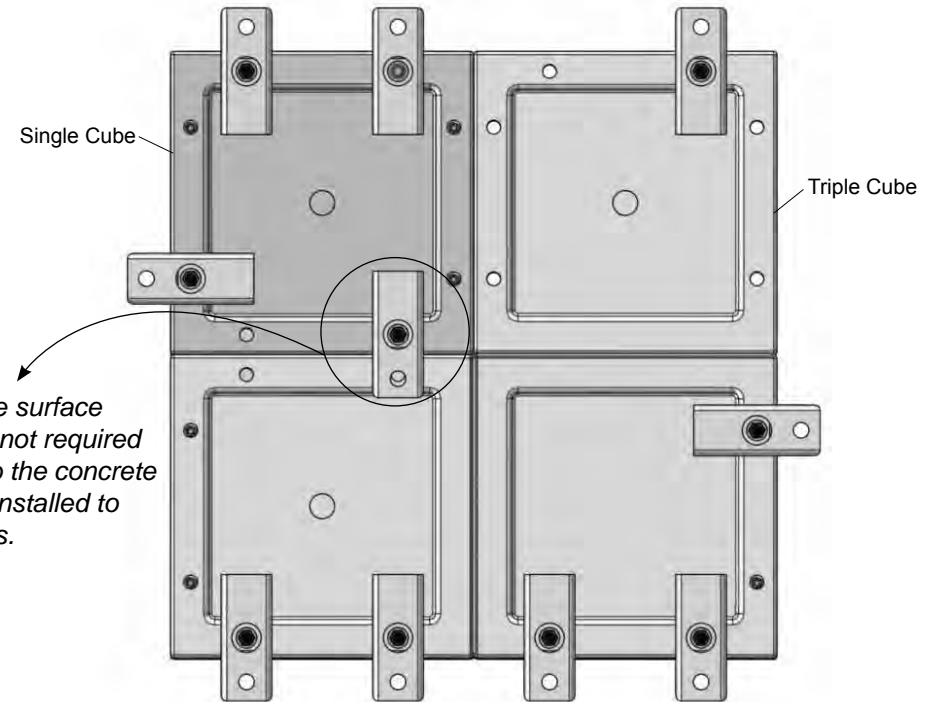
Detail A

Step 4

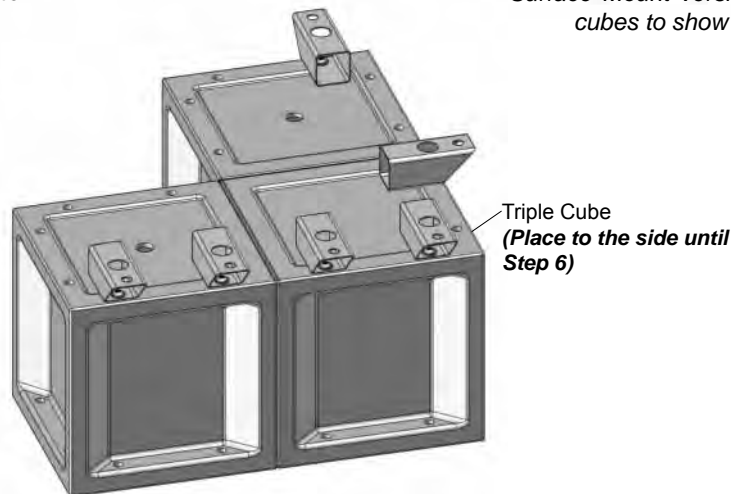
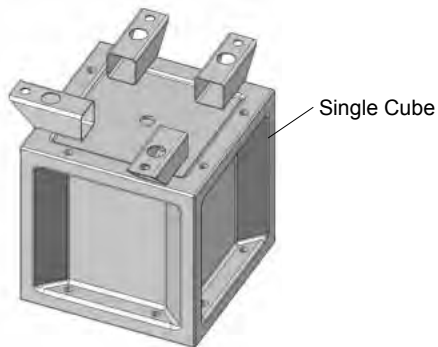
(Surface Mount Model Only)

Attach the surface mount brackets to the bottom of the cubes for the 1st layer.

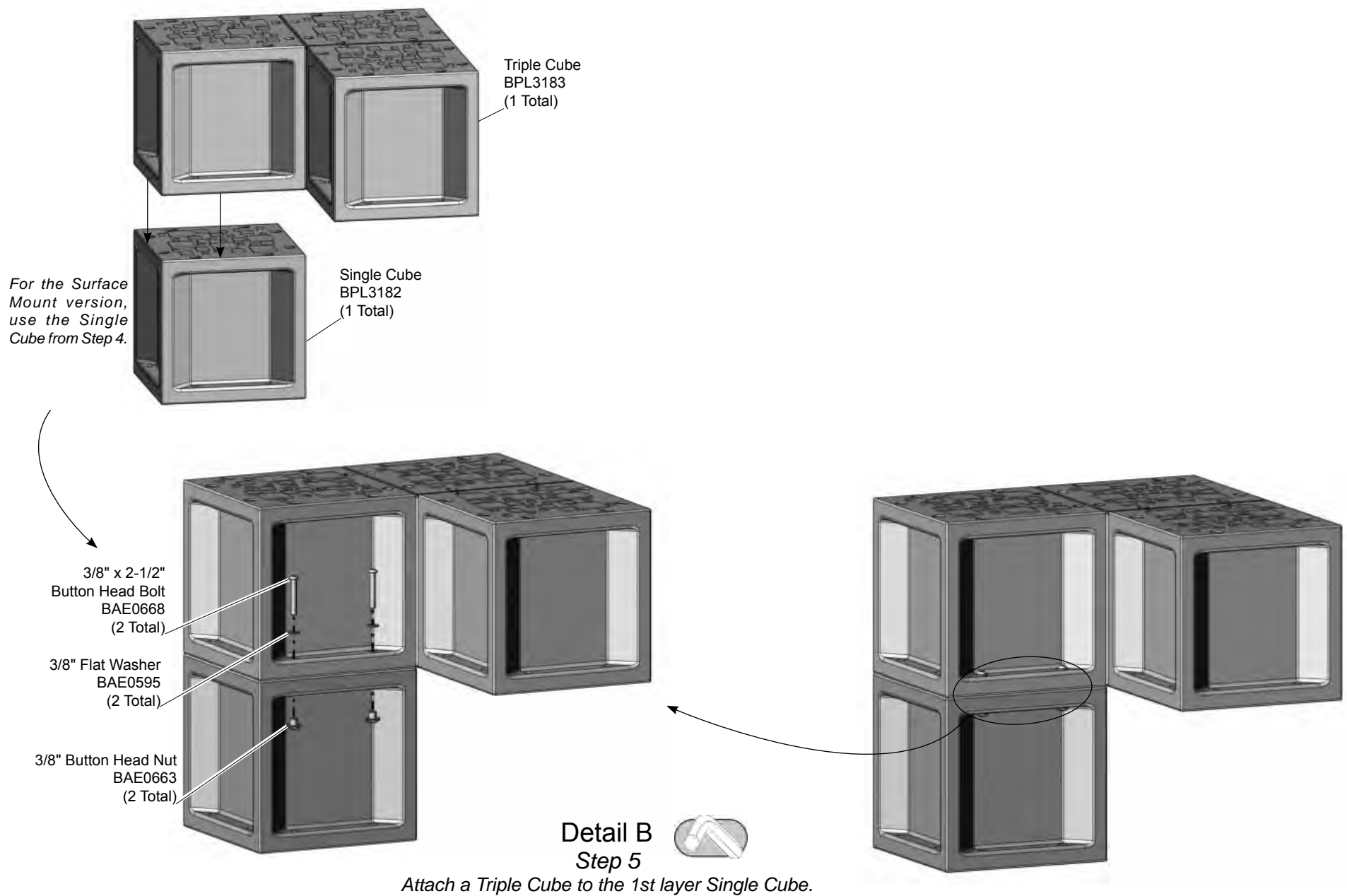
Note: This middle surface mount bracket is not required to be anchored to the concrete base, it must be installed to support the cubes.



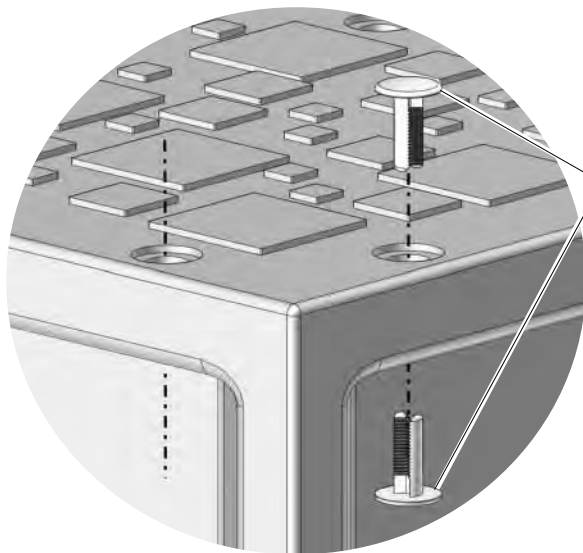
Surface Mount version shown from underneath the assembled cubes to show placement of surface mount brackets.



Installation Instructions



Installation Instructions



Ratchet Rivet
BPL3193
(4 Total)

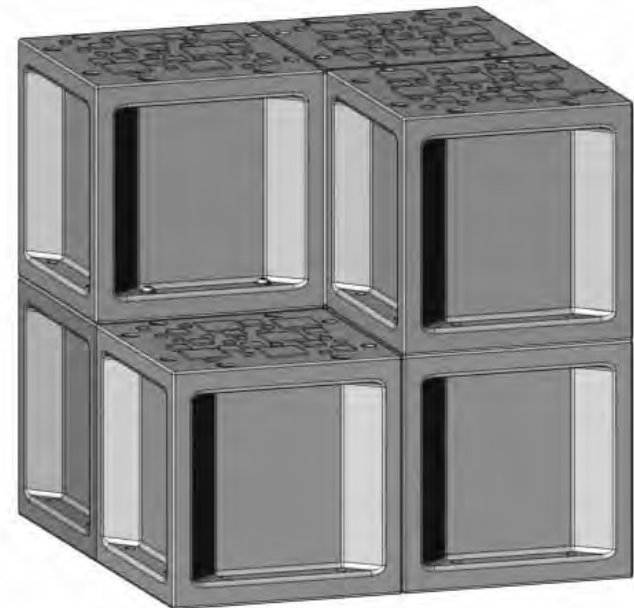
Detail C Step 6

Plug two holes on the 1st layer
Triple Cube.

Note: If there is some movement
on the ratchet rivets after pressing
together, use a soft jaw clamp on the
ratchet rivets to fully press together
until flush with the cube and there is
no movement.

Triple Cube
BPL3183
(1 Total)

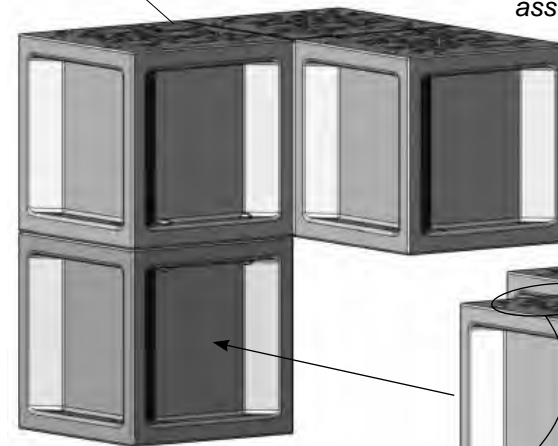
For the Surface
Mount version,
use the Triple Cube
from Step 4.



Detail D Step 7

Place the Triple Cube under the cube
assembly.

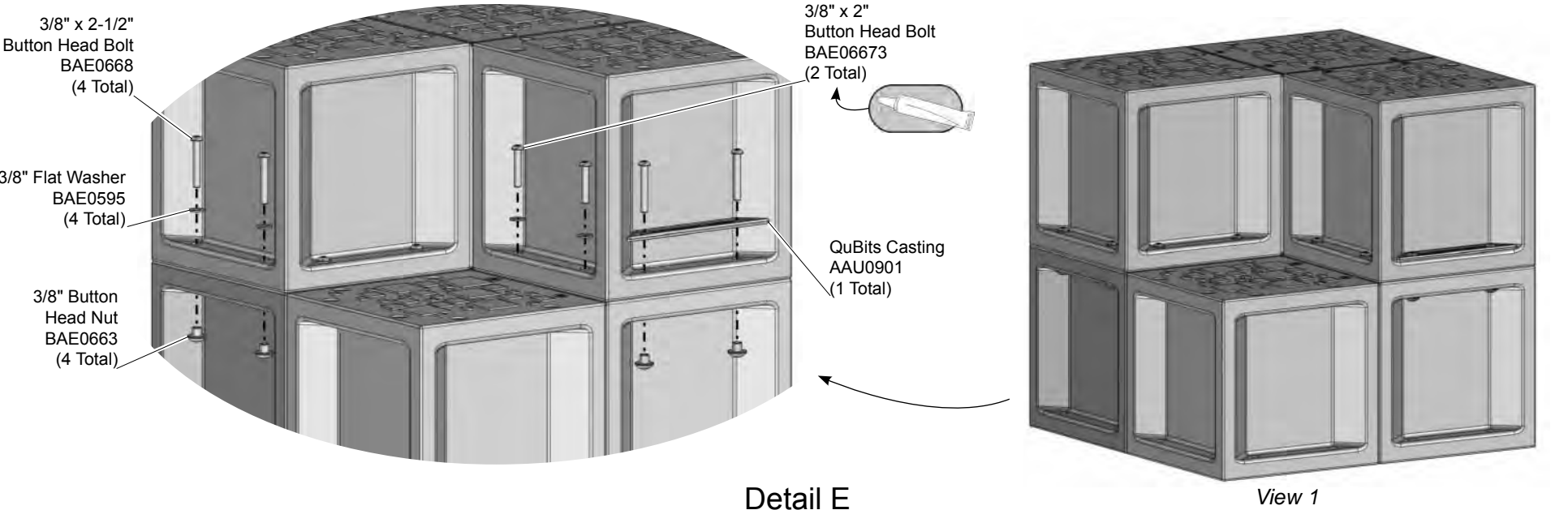
Cube Assembly
from Step 5



Triple Cube

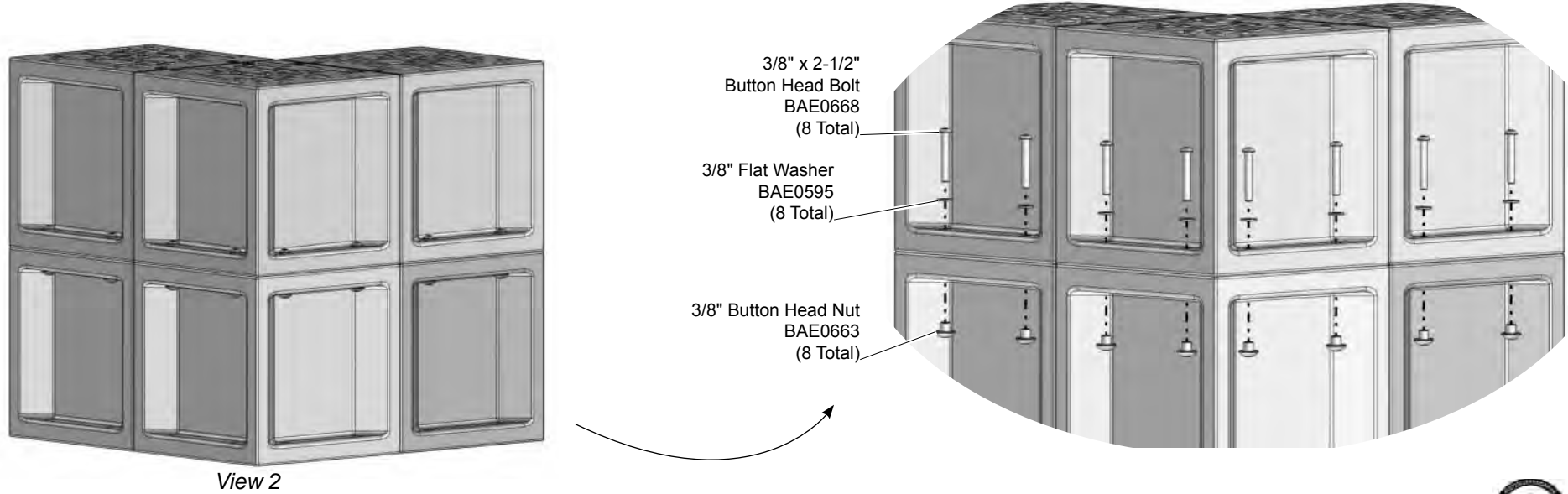
Plugged holes from Step 6

Installation Instructions

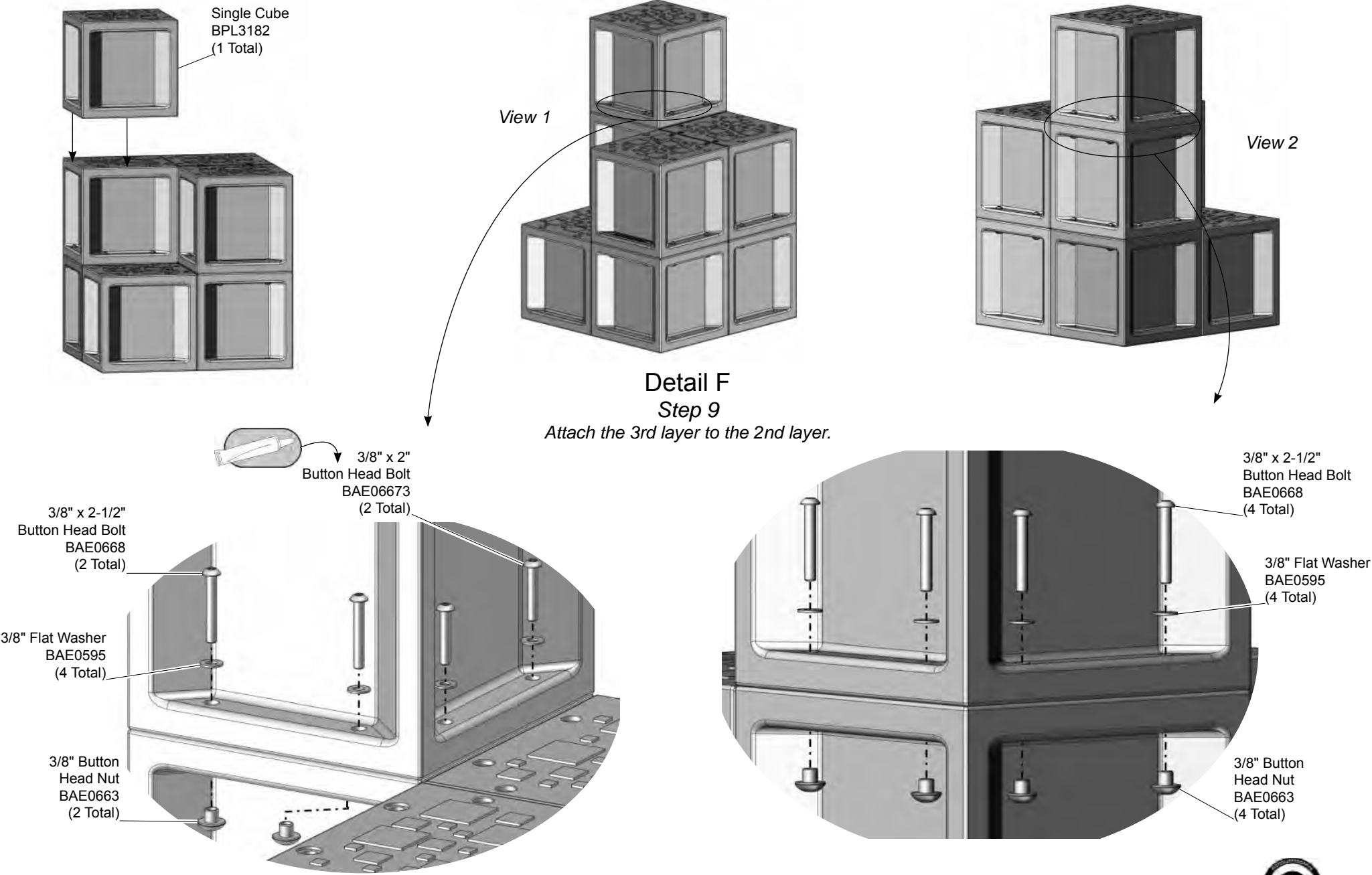


Detail E Step 8

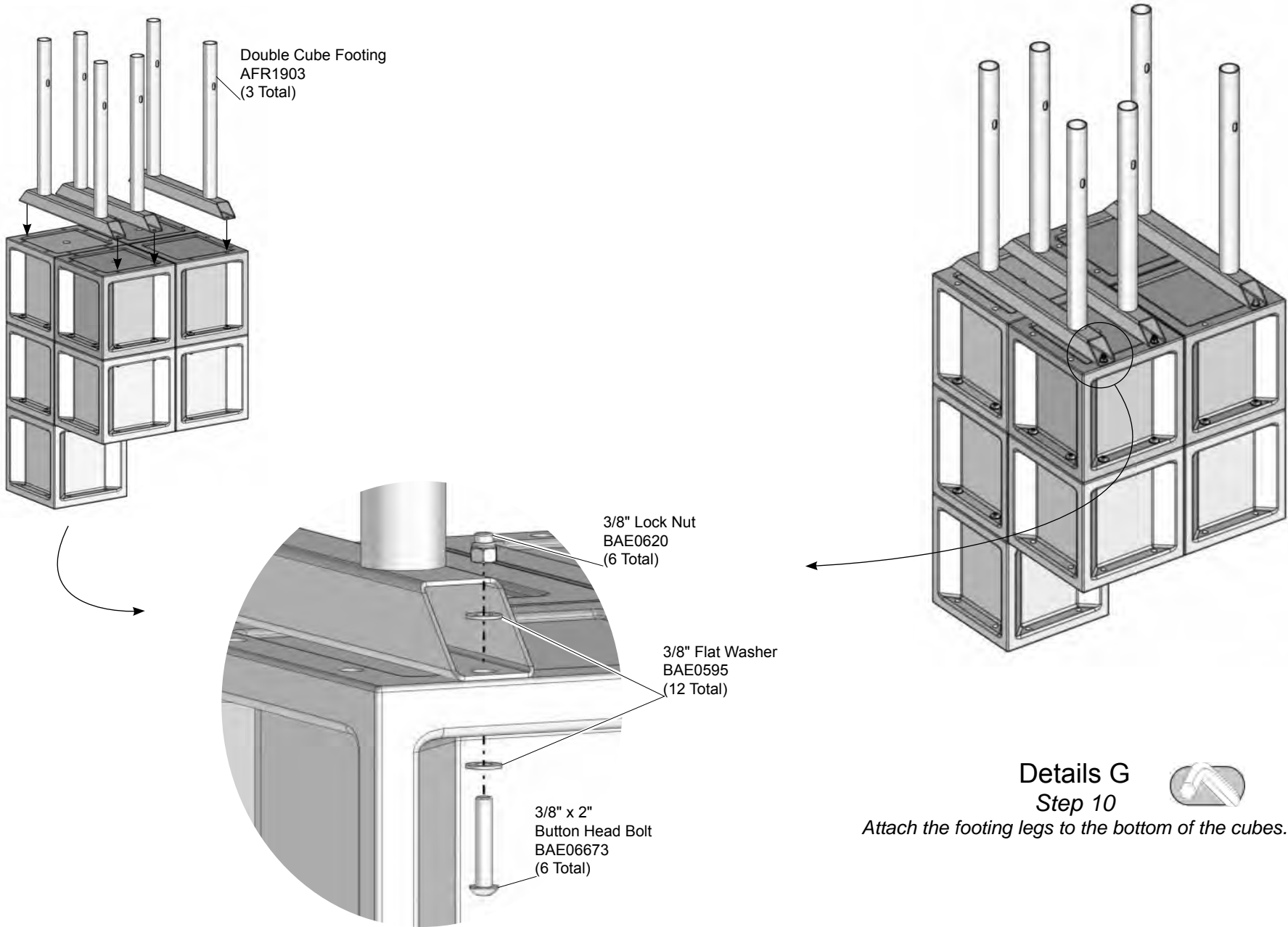
Attach the 2nd layer to the 1st layer.



Installation Instructions



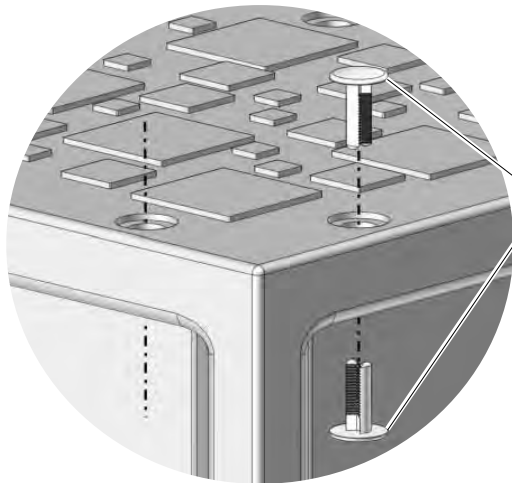
Installation Instructions



Details G
Step 10
Attach the footing legs to the bottom of the cubes.



Installation Instructions



Ratchet Rivet
BPL3193
(60 Total)

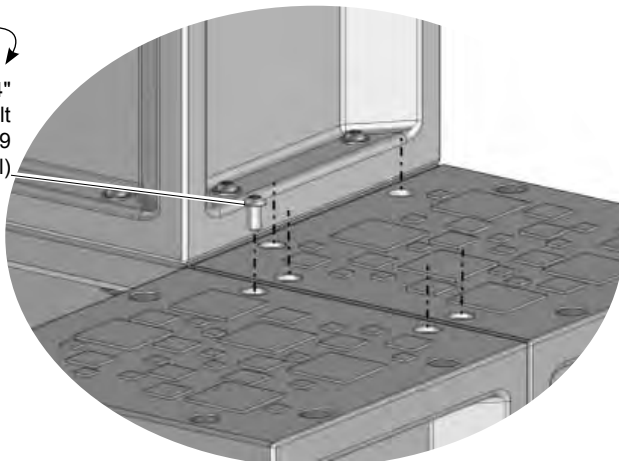
Detail H Step 11

Plug all empty holes around the outside of the cubes.

Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

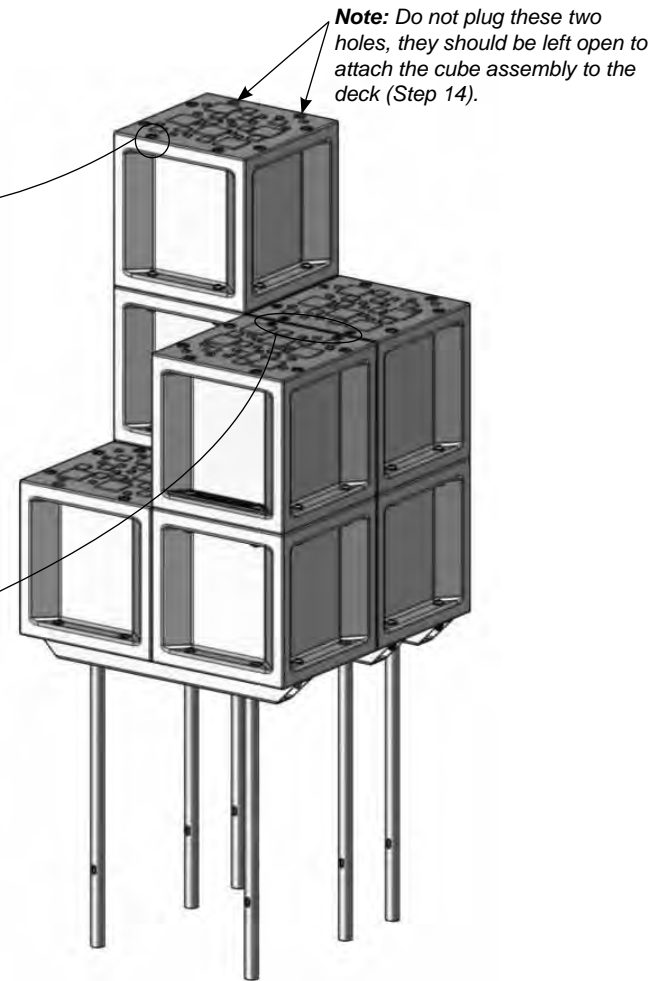


3/8" x 3/4"
Button Head Bolt
BAE0659
(8 Total)

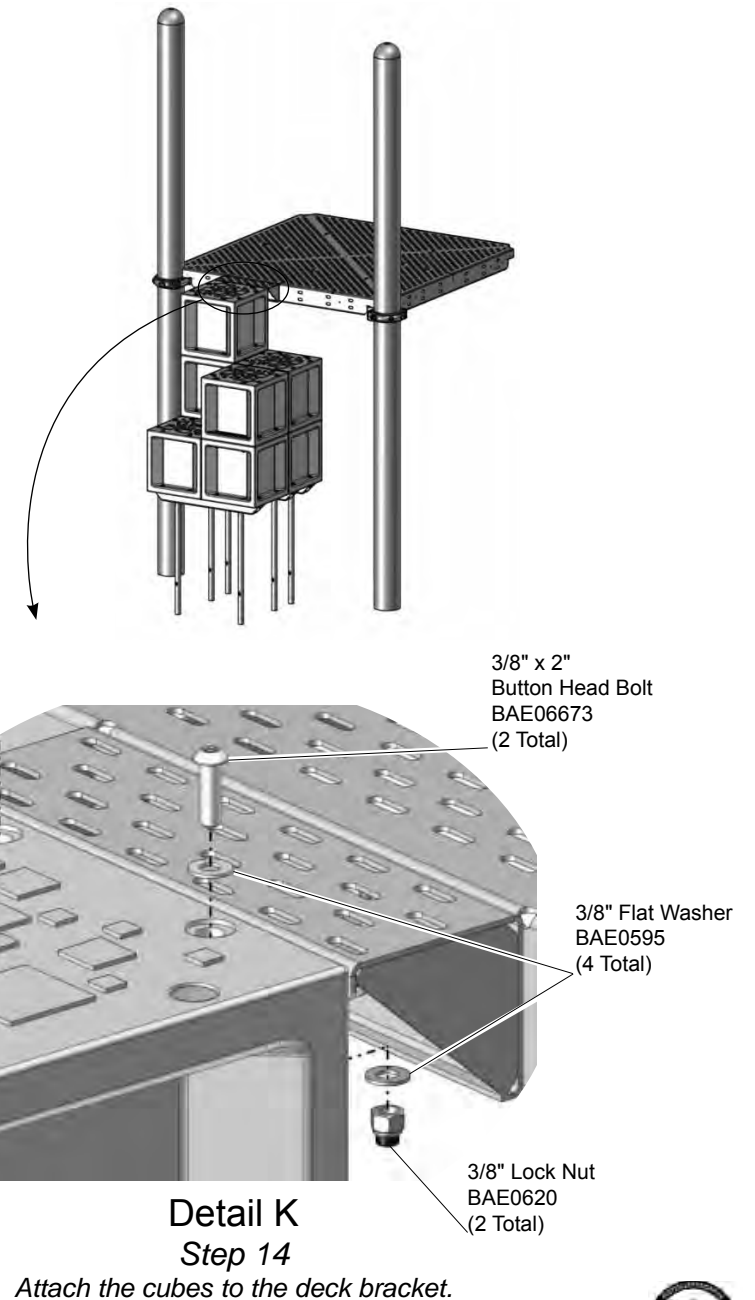
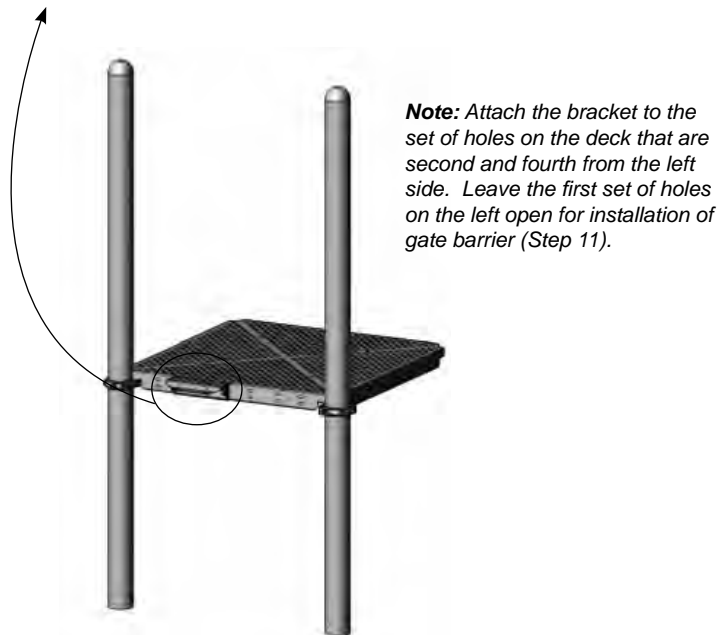
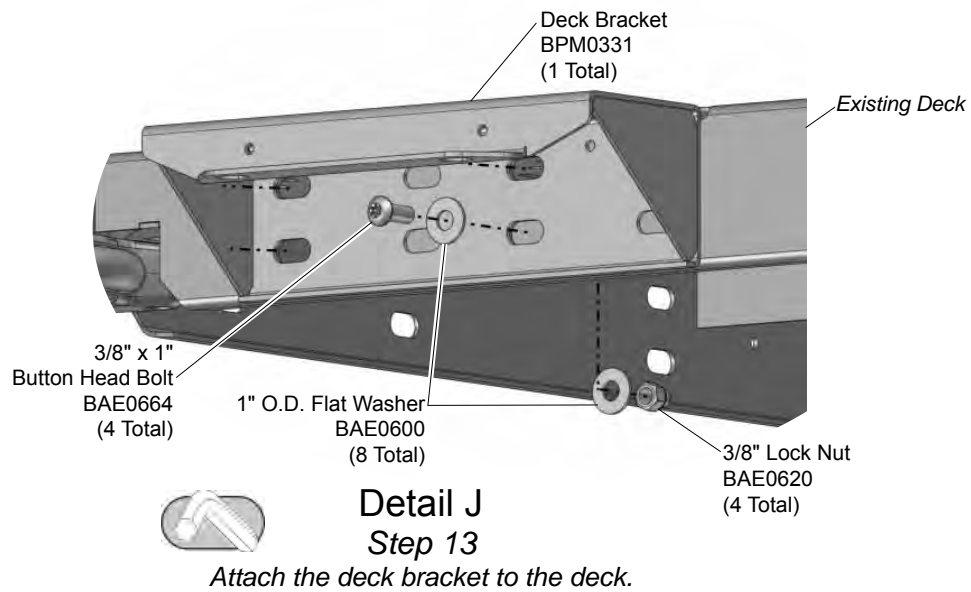


Detail I Step 12

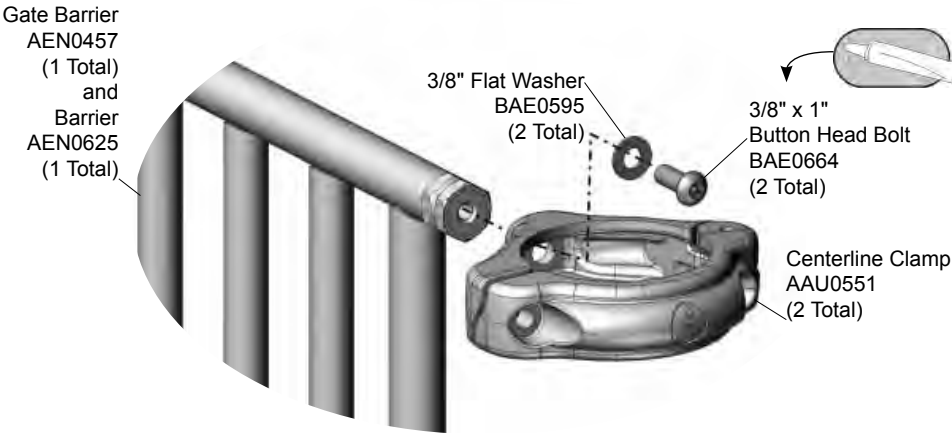
Fill all empty inserts on the top of the triple cubes.



Installation Instructions

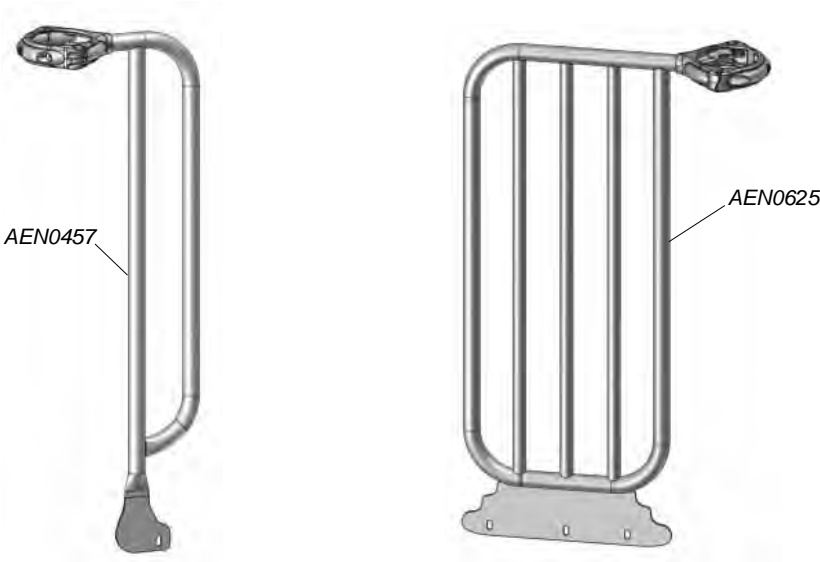


Installation Instructions

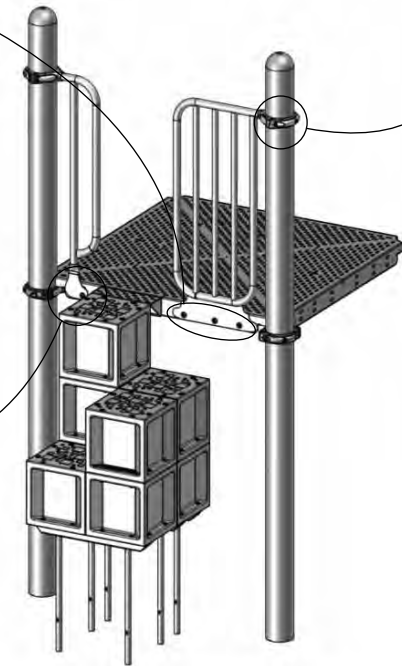
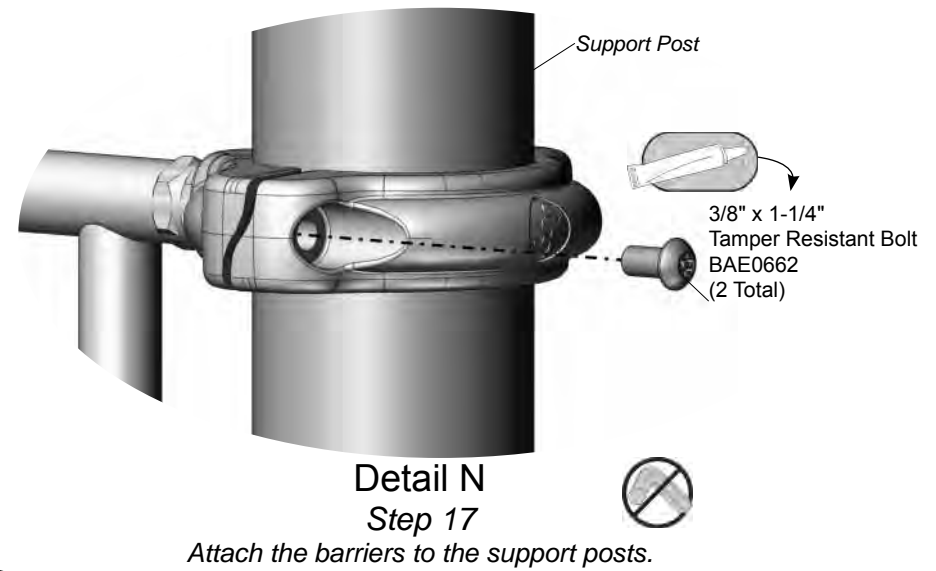
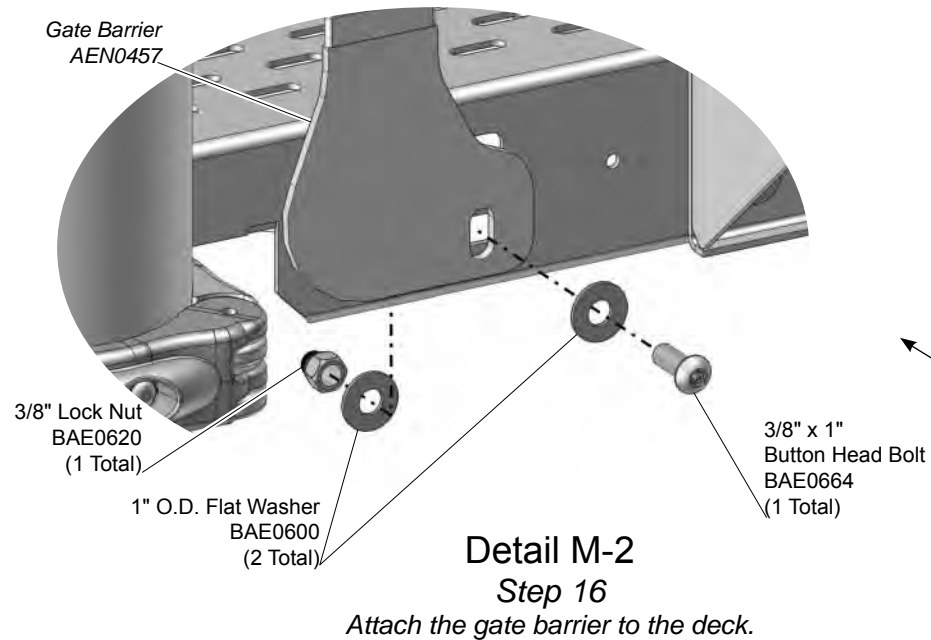
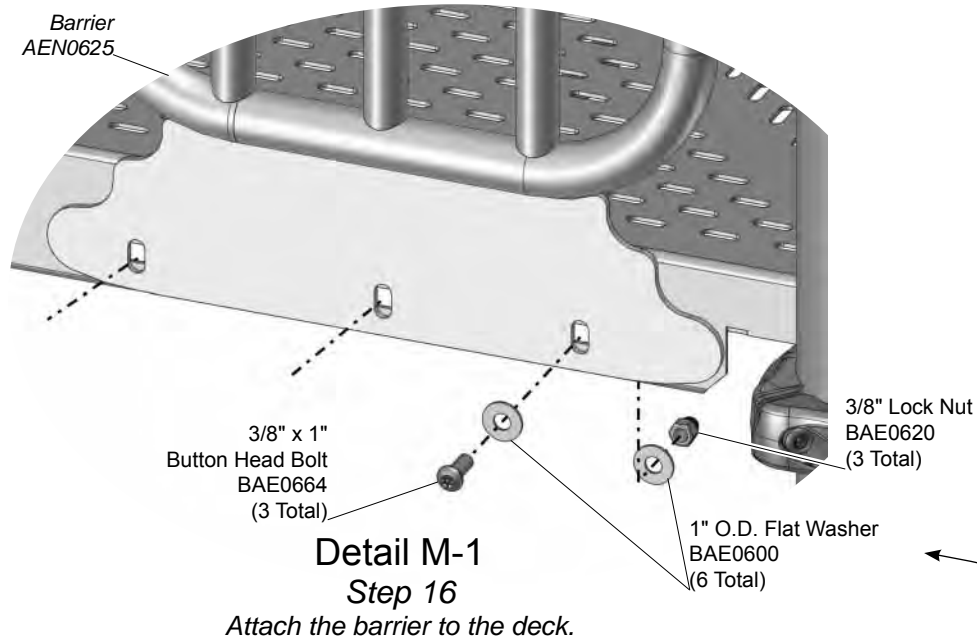


Detail L
Step 15

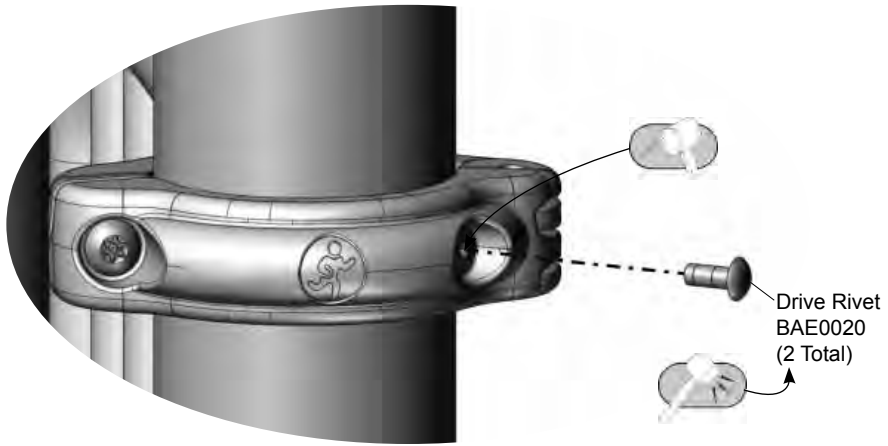
Attach the clamps to the barriers.



Installation Instructions



Installation Instructions



Detail O
Step 21

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing and Surface Mount Detail** in the Guidelines at the beginning of this instruction booklet.

Step 4 (Surface Mount Only): Attach the surface mount bracket to the bottom of the designated cubes. See **Detail A**. Turn the cube upside down (the "treaded" side of the cube should be facing down), position the brackets on the bottom of the cube, aligning the holes (the angled edge on the bracket should be pointing to the outside), and attach as shown. See **page 5** for placement of the brackets.
Note: Place the Triple Cube to the side until needed again at Step 6.

Step 5: Attach a Triple Cube to the 1st layer Single Cube. See **Detail B**. Position a Triple Cube on top of the Single Cube, and attach as shown. Only one side of the cubes should be attached at this time.
Note: For the Surface Mount Version, use the Single Cube from Step 4.

Step 6: Plug two holes on the 1st layer Triple Cube. See **Detail C**. Plug two holes on the Single Cube as shown on page 7. Place a ratchet rivet on the top and bottom of the holes and press together until flush with the cubes.
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Step 7: Place the Triple Cube under the cube assembly. See **Detail D**. Place the Triple cube under the cube assembly from Step 5.

Step 8: Attach the 2nd layer to the 1st layer. See **Detail E**. Place the Triple Cube on top of the 1st layer. Select the appropriate hardware, and attach as shown.

Step 9: Attach the 3rd layer to the 2nd layer. See **Detail F**. Place the Single Cube on top of the 2nd layer. Select the appropriate hardware, and attach as shown.

Step 10 (In-ground Only): Attach the footing legs to the bottom of the cubes. See **Detail G**. Turn the cube upside down (the "treaded" side of the cube should be facing down), position the brackets on the bottom of the cube, aligning the holes. Attach as shown. See **page 10** for placement of the footing legs.

Step 11: Plug all empty holes around the outside of the cubes. See **Detail H**. Plug all empty holes on the outside of the cubes with the ratchet rivets. Place a ratchet rivet on the top and bottom of the holes and press together until flush with the cubes. If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Note: There are two holes on the top of the single cube (4th layer) that should not be filled at this time, they should remain open until Step 14 when attaching the cubes to the deck bracket. See **page 11** for detail.

Step 12: Fill all empty inserts on the top of the Triple Cubes. See **Detail I**. If there are any empty inserts on the tops of the Triple Cubes, fill these holes with the bolts as shown.

Step 13: Attach the deck bracket to the deck. See **Detail J**. Align the holes of the bracket with the top and bottom holes on the existing deck.
Note: Attach the bracket to the set of holes on the deck that are second and fourth from the left side. Leave the first set of holes on the left open for installation of gate barrier.

Step 14: Attach the cube assembly to the deck bracket. See **Detail K**. Place the cube assembly in or on the footings. Position the Single Cube on the lip of the deck bracket so the top of the cube is flush with the deck bracket. Align the holes, and attach as shown.

Step 15: Attach the clamps to the barriers. See **Detail L**. Align the hole in the clamp with the hole on the end of each barrier, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.



Installation Instructions

Step 16: Attach the barriers to the deck. See **Details M-1** and **M-2**. Position the barriers against the deck, align the holes on the barriers with the bottom holes on the deck, and attach as shown.

Step 17: Attach the barriers to the support posts. See **Detail N**. Close the clamps around the support posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 18: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 19 (In-ground Only): Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 20 (Surface Mount Only): Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 21: Install drive rivets. See **Detail O**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM7087 - 48" QUBITS BLOCK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0901	QUBITS BRANDING CASTING	1
AEN0457	BARRIER - 42.07" x 7.75" GATE	1
AEN0625	BARRIER - 18.50" x 42.20"	1
AFR1903	FOOTING - DOUBLE CUBE	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	40
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	20
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - S.S.	10
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	20
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	12
BPL3182	SINGLE CUBE	2
BPL3183	TRIPLE CUBE	2
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	72
BPM0331	FRAME - 12.00" x 5.33" x 3.50"	1

PM7087S - 48" QUBITS BLOCK CLIMBER SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0901	QUBITS BRANDING CASTING	1
AEN0457	BARRIER - 42.07" x 7.75" GATE	1
AEN0625	BARRIER - 17.75" x 42.20"	1
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	10
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	48
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESISTANT w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	20
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - S.S.	10
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	1
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	20
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	15
BPL3182	SINGLE CUBE	2
BPL3183	TRIPLE CUBE	2
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	72
BPM0331	FRAME - 12.00" x 5.33" x 3.50"	1



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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM6958 and PM6959

6 ft. (1829 mm) and 10 ft. (3048 mm)

PlayWood Arch Bridge

Installation Preparation








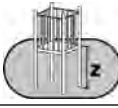
Recommended Crew: Three (3) adults

Installation Time: 2.5 man-hours

Use Zone: Refer to Master Drawing

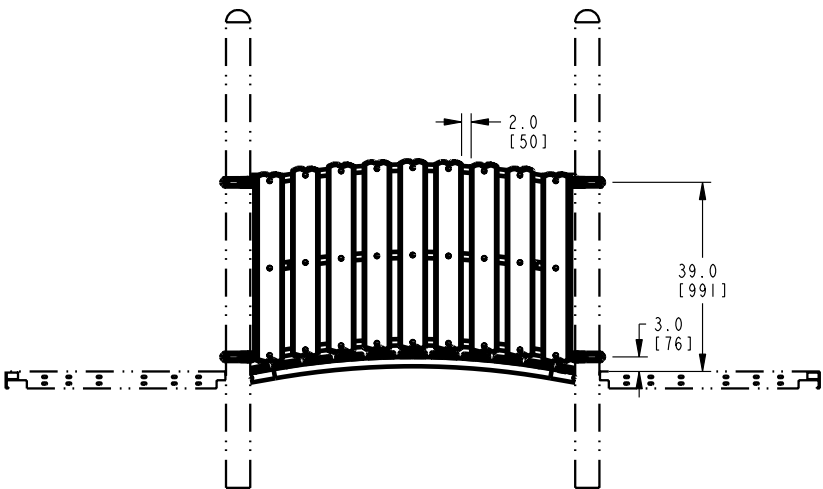
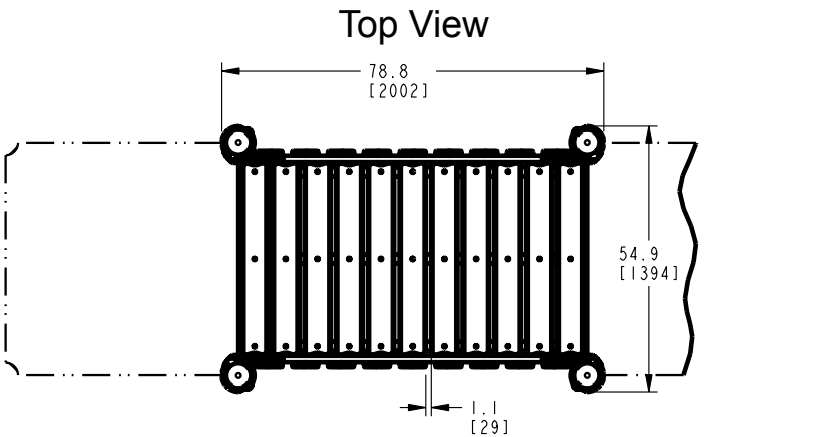
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

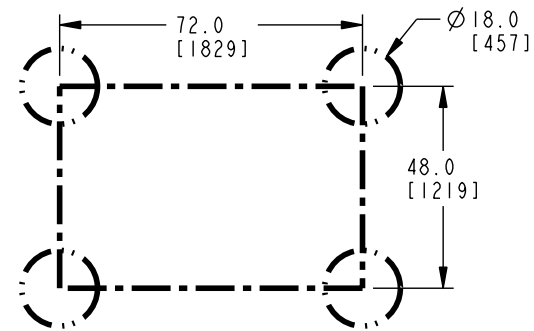
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

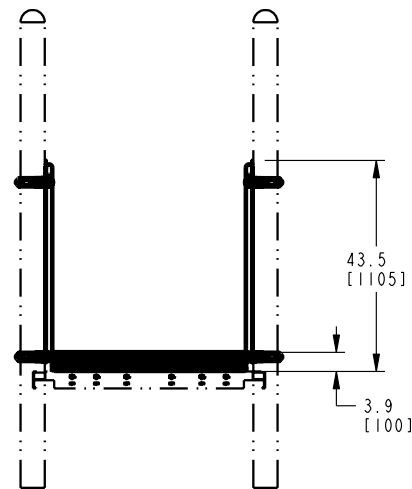
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM6958



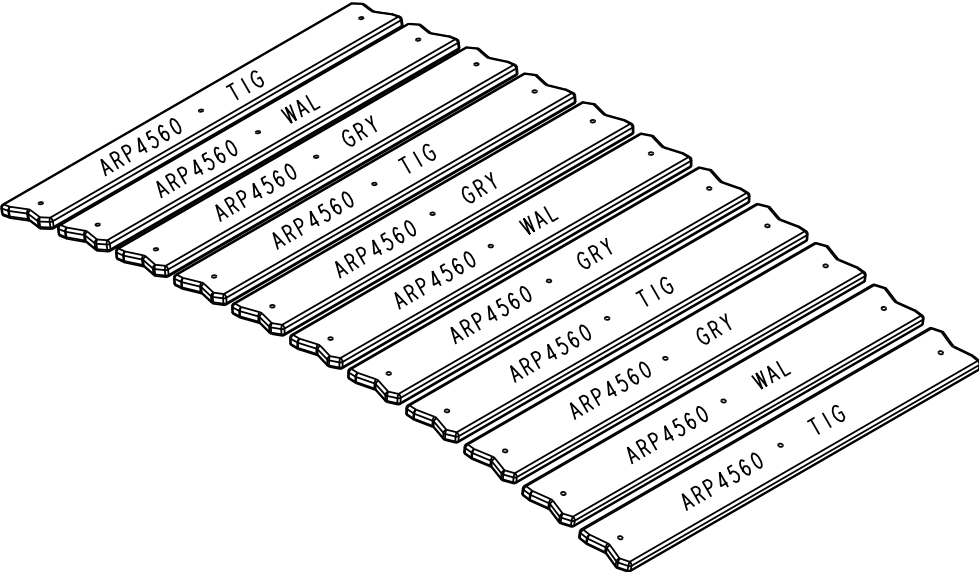
Footing Diagram
PM6958



Equal to the height of the
deck + 3" (76 mm)



Installation Instructions



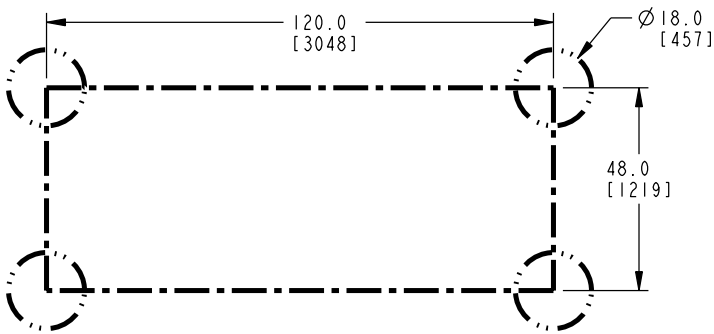
PART NUMBER	COLOR	QTY
ARP4560	TIGERWOOD	4
ARP4560	WALNUT	3
ARP4560	GREY	4

Plank Placement Detail
PM6958 - Bridge

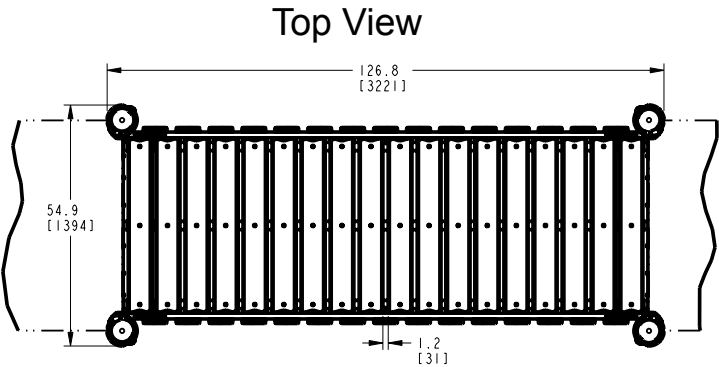


Installation Instructions

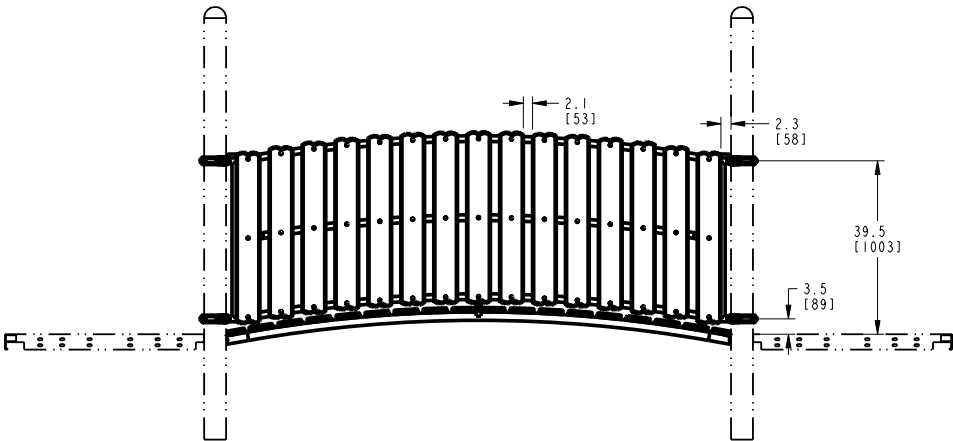
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



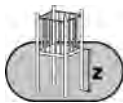
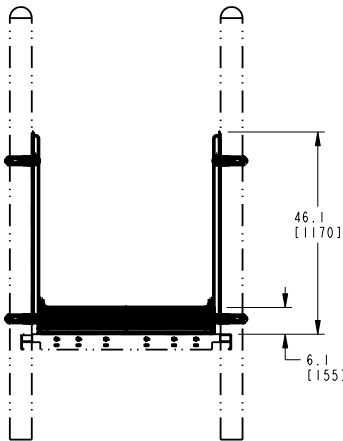
Footing Diagram
PM6959



Top View



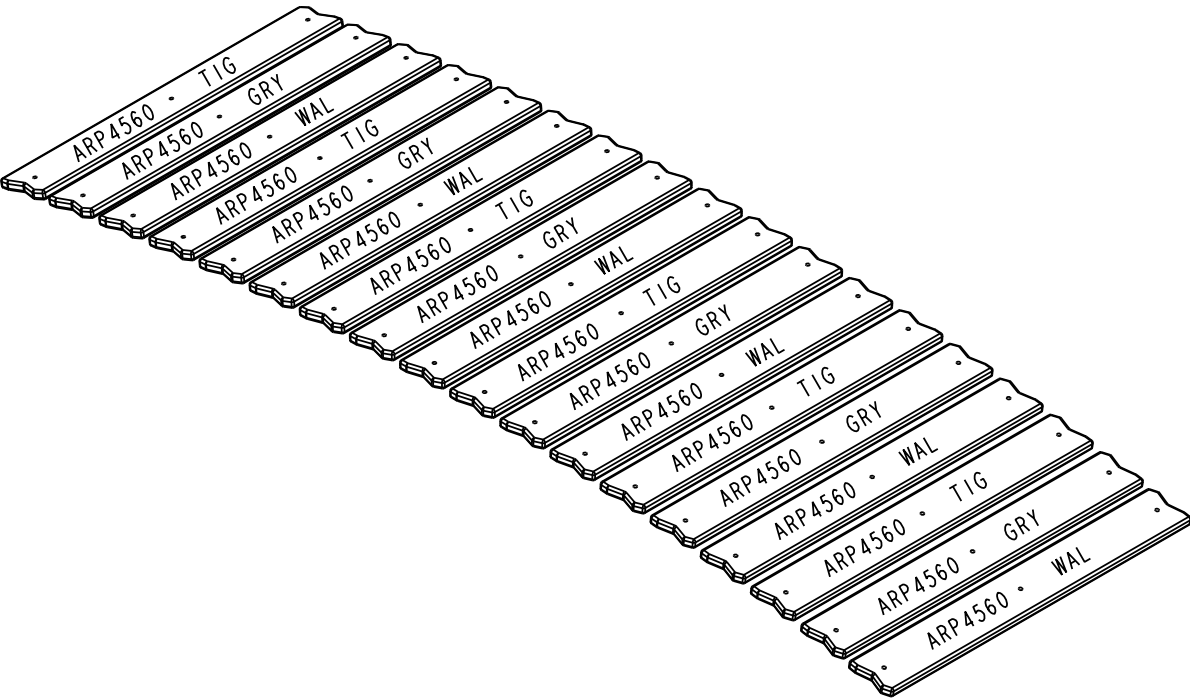
Elevation Views
PM6959



Equal to the height of the deck + 3" (76 mm)



Installation Instructions



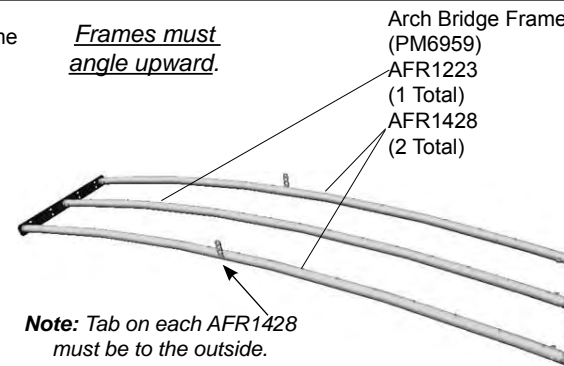
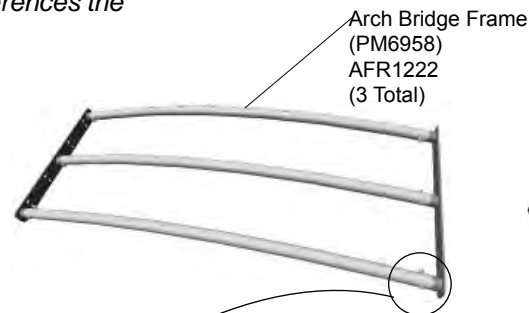
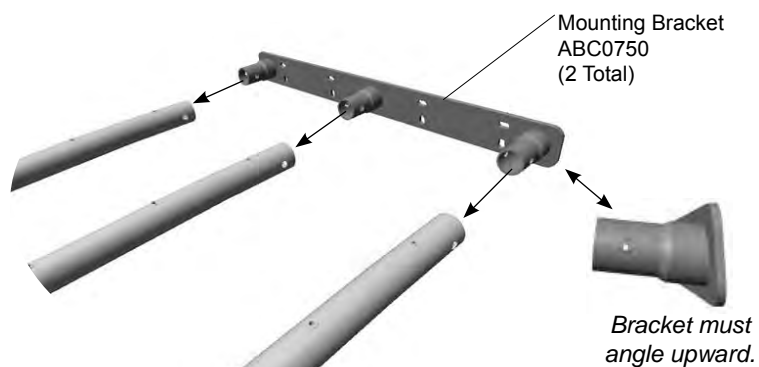
<u>PART NUMBER</u>	<u>COLOR</u>	<u>QTY</u>
ARP4560	WALNUT	6
ARP4560	GREY	6
ARP4560	TIGERWOOD	6

Plank Placement Detail
PM6959 - Bridge

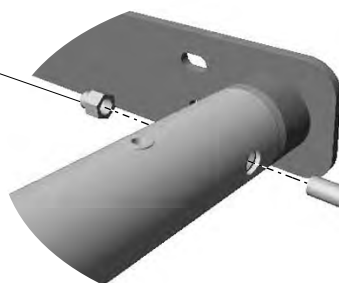


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 11.



3/8" Lock Nut
BAE0620
(6 Total)

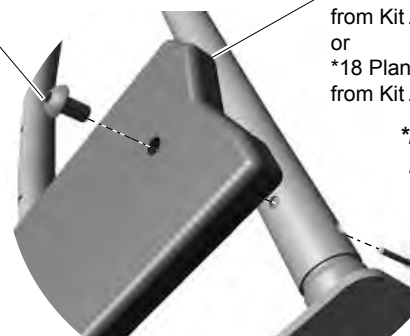


Detail A
Step 3

Attach the mounting brackets to
the arch bridge frames.

1/4" Button Head Nut
BAE0162
(33 Total - PM6958)
(54 Total - PM6959)

3/8" x 2-1/4"
Button Head Bolt
BAE06675
(6 Total)



*11 Planks
from Kit ARP4545 (PM6958)
or
*18 Planks
from Kit ARP4546 (PM6959)

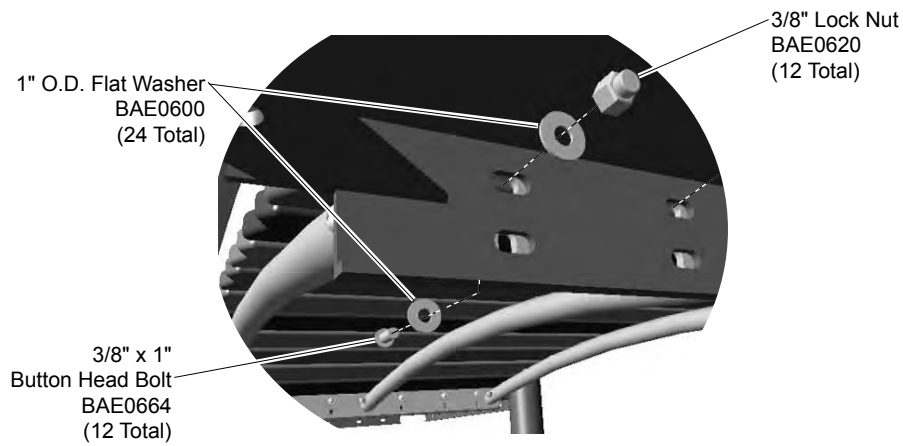
***Note:** See Plank Placement Detail for part
number, color and location of each plank.

1/4" x 2-3/4"
Flathead Socket Cap Bolt
BAE1772
(33 Total - PM6958)
(54 Total - PM6959)

Detail B
Step 4

Attach the planks to the arch bridge frames.

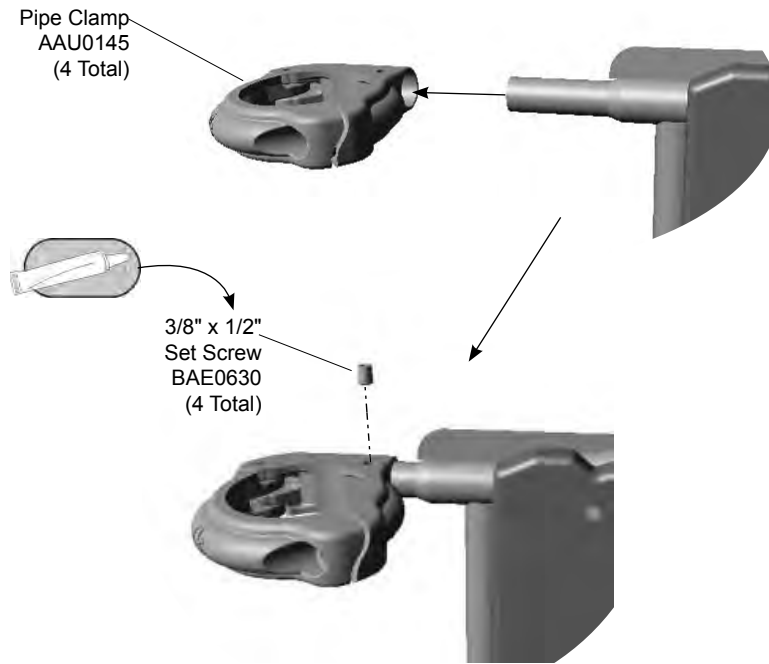
Installation Instructions



Detail C
Step 5



Attach the arch bridge assembly to the decks.

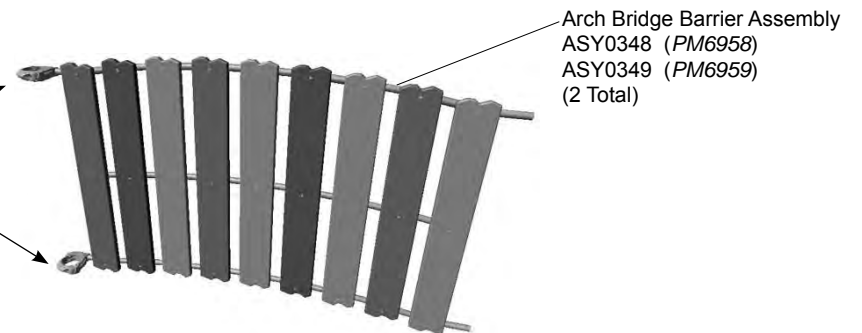


Detail D
Step 6

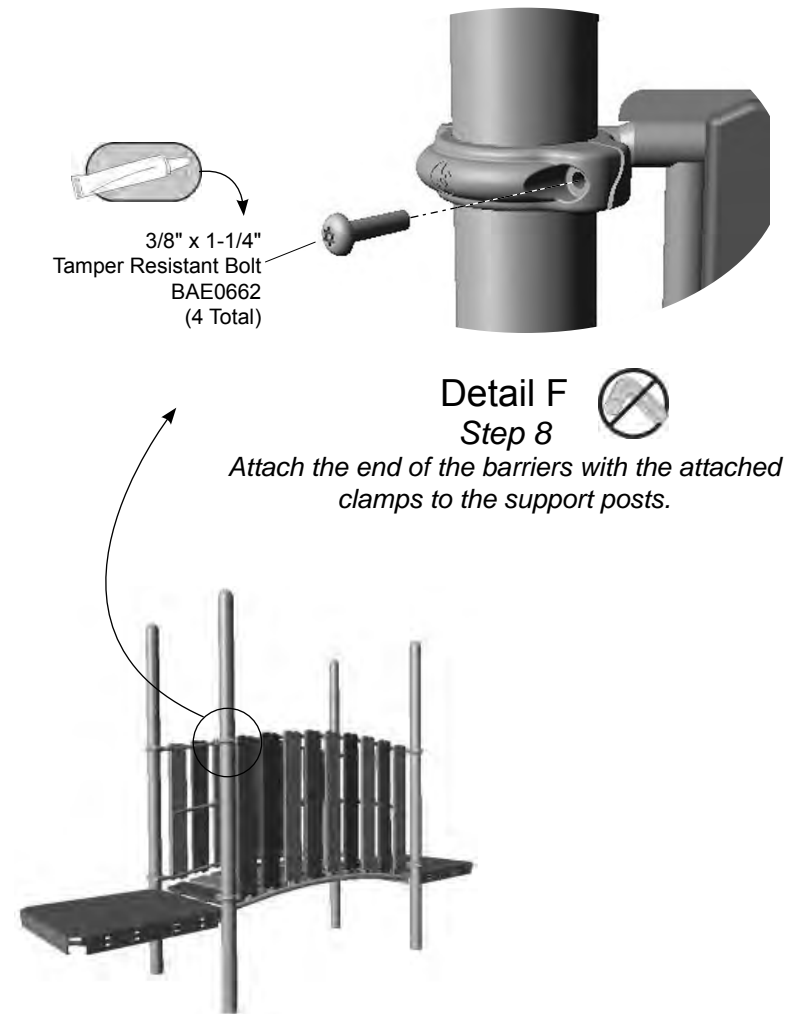
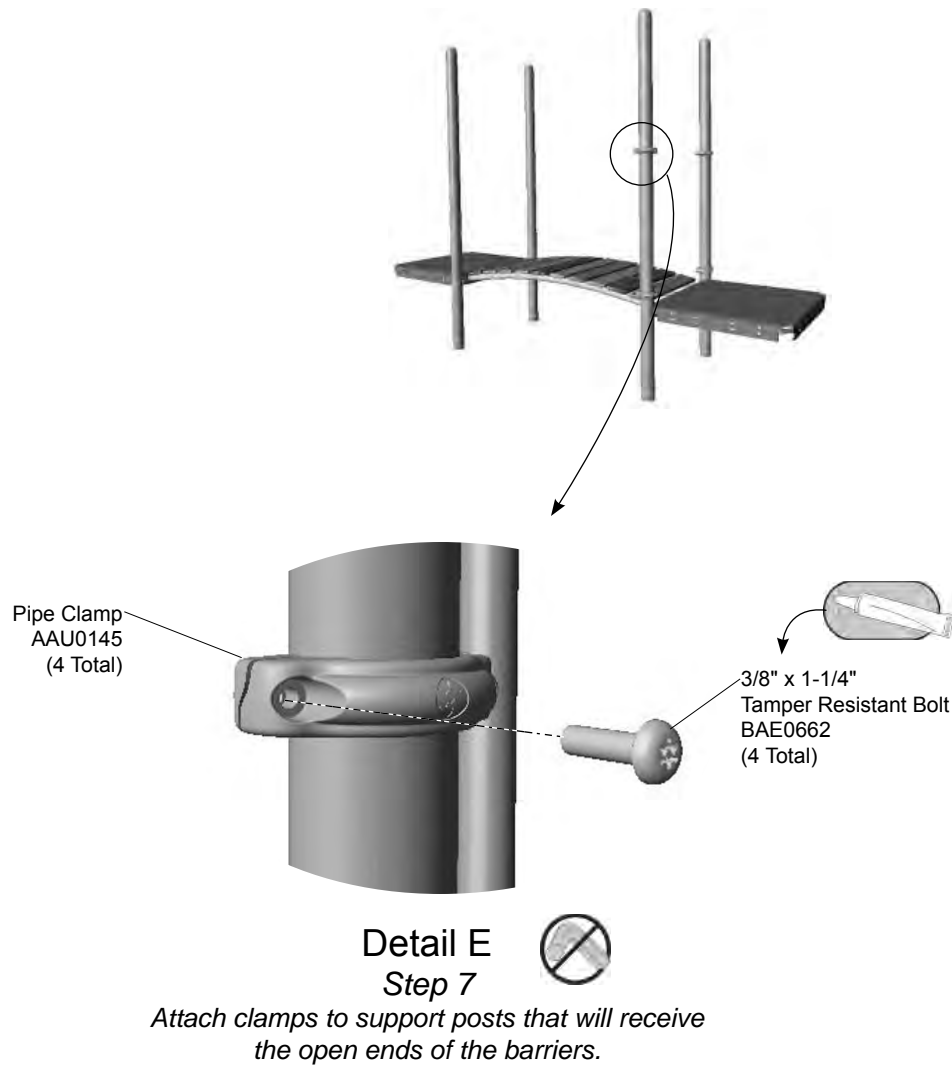


Attach clamps to only one end of the barrier assemblies.

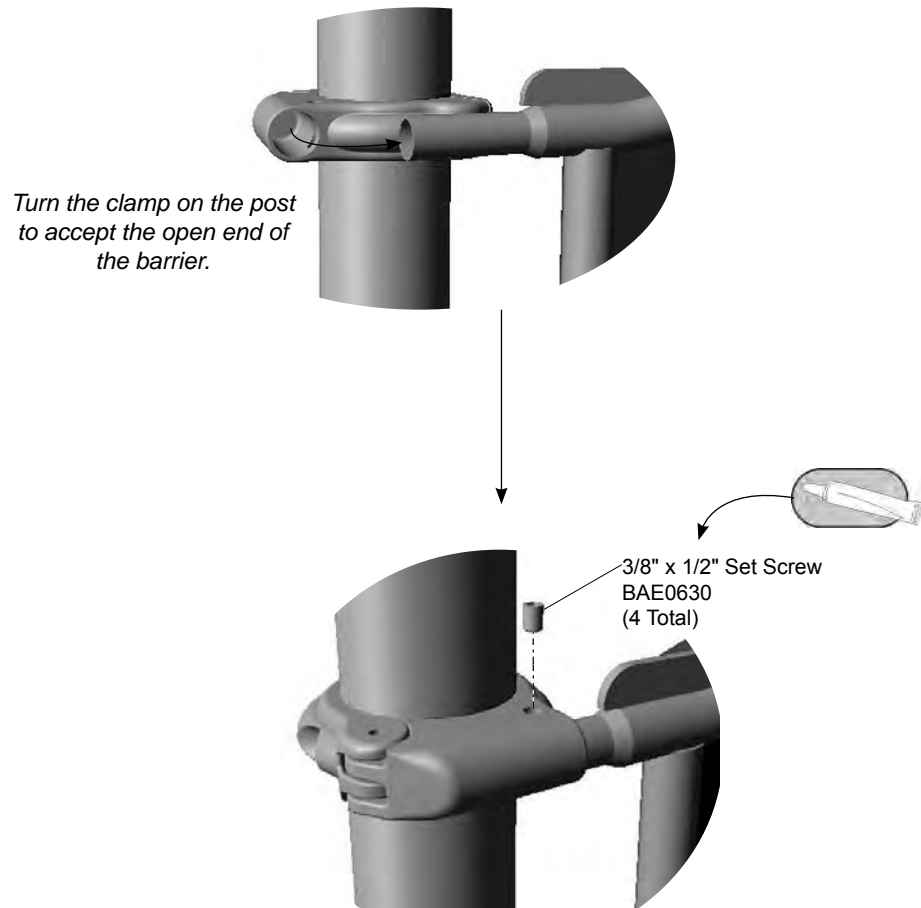
*Attach clamps to
one end only.*



Installation Instructions

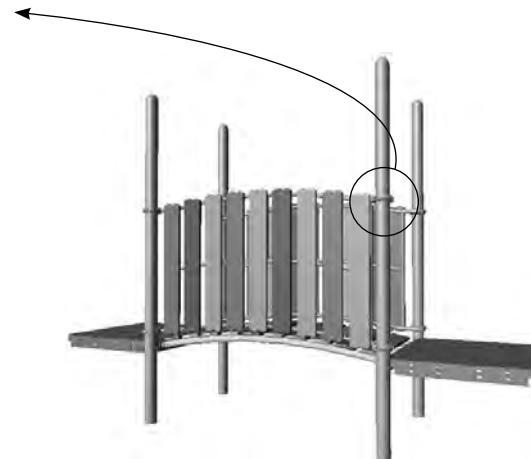


Installation Instructions



Detail G Step 9

Attach the open end of the barriers to the attached clamps on the support posts.

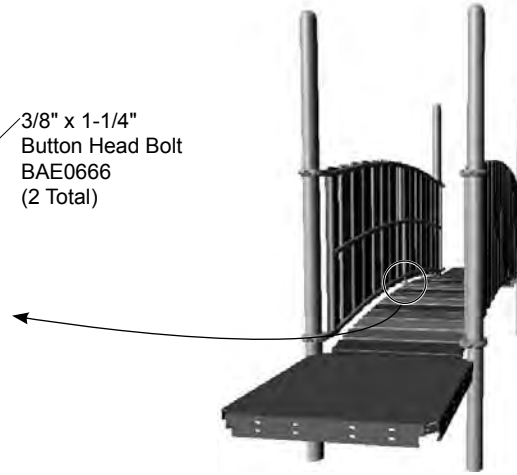
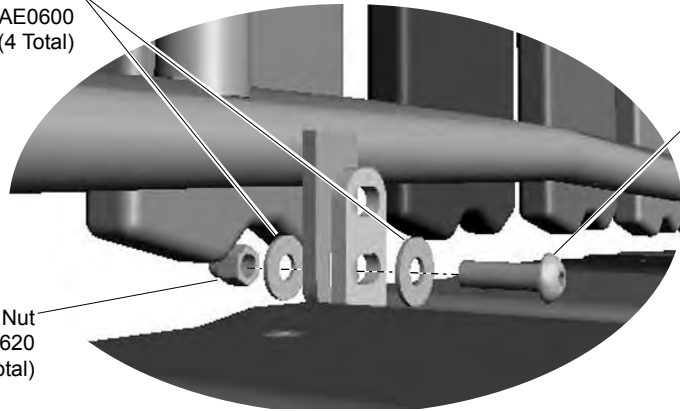


Installation Instructions

1" O.D. Flat Washer
BAE0600
(4 Total)

3/8" x 1-1/4"
Button Head Bolt
BAE0666
(2 Total)

3/8" Lock Nut
BAE0620
(2 Total)

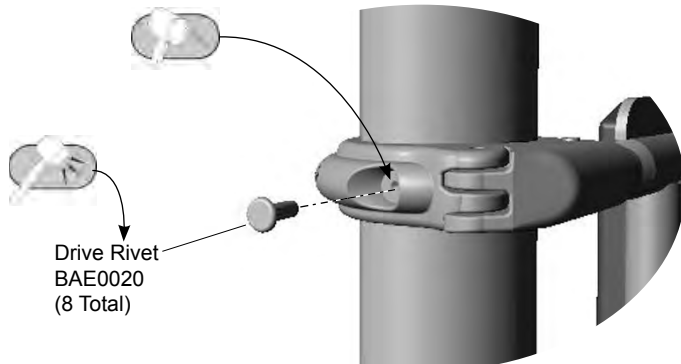


Detail H

Step 10

(Model PM6959 only)

Attach the barriers to the bridge.

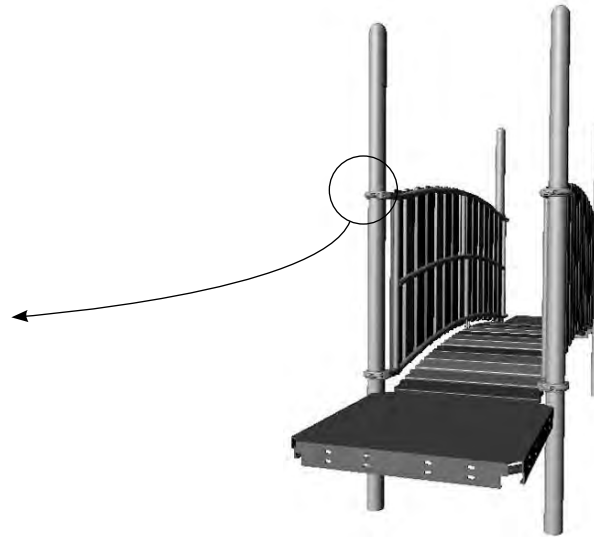


Drive Rivet
BAE0020
(8 Total)

Detail I

Step 12

Secure the clamps to the support posts.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the mounting brackets to the arch bridge frames. See **Detail A**. Insert each tube on the mounting bracket into the end of a bridge frame and attach as shown. *For Model PM6959, ensure that the tab on each of the two outer frames is to the outside.* Ensure the mounting brackets and bridge frames angle upward as shown.

Step 4: Attach the planks to the arch bridge frames. See **Detail B and Plank Placement Detail**. Position each bracket across the frame assembly and attach as shown. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Step 5: Attach the arch bridge assembly to the decks. See **Detail C**. With adequate manpower, position the bridge assembly between the decks and attach as shown.

Step 6: Attach clamps to only one end of the barrier assemblies. See **Detail D**. Position a clamp against the top and bottom rail on one end of the barriers, apply a drop of thread locking adhesive to the set screw threads, and attach as shown. Clamps should open up toward the plank side of the barriers. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Step 7: Attach clamps to support posts that will receive the open ends of the barriers. See **Detail E** and the **Elevation View**. Position two clamps that will accept the open end of the barriers around each support post at the heights shown in the **Elevation View**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 8: Attach the end of the barriers with the attached clamps to the support posts. See **Detail F**. With adequate manpower, position each barrier between the support post, close the clamps around the post, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Note: In the event of a clamp conflict with another component, the barriers may be placed higher on the posts as long as the bottom of the barriers are **NO MORE** than 3.5 inches (89 mm) above the bridge surface. Both barriers should be mounted at the same height.

Step 9: Attach the open end of the barriers to the attached clamps on the support posts. See **Detail G**. Turn the clamps already mounted on the support posts around to accept the open ends of the barriers. Insert the barriers into the clamps, apply a drop of thread locking adhesive to the set screw threads, and attach as shown. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Step 10: (Model CH6959 only) Attach the barriers to the bridge. See **Detail H**. Align the holes in the barrier tab with the holes in the bridge frame tabs and attach as shown.

Final Details.

Step 11: Plumb and level the barriers. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 12: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



PM6958 - 6 ft. (1829 mm) PLAYWOOD ARCH BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0145	CLAMP - 5" PIPE DIE CAST	8
ABC0750	BRACKET - 3.00" x 39.00" ARCH BRIDGE	2
AFR1222	FRAME - 1.90" O.D. x 5.42" x 69.20" ROLLED	3
ARP4545	PLAYWOOD KIT - PM 6' ARCH BRIDGE FLOOR	1
ASY0348	ASSY - PM 6' PLAYWOOD ARCH BARRIER	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0162	NUT - 1/4"-20 x 9/16" BUTTON HEAD	33
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	18
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	6
BAE1772	BOLT - 1/4"-20 x 2-3/4" BUTTON HEAD - SS	33

PM6959 - 10 ft. (3048 mm) PLAYWOOD ARCH BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0145	CLAMP - 5" PIPE DIE CAST	8
ABC0750	BRACKET - 3.00" x 39.00" ARCH BRIDGE	2
AFR1223	FRAME - 1.90" O.D. x 5.42" x 106.20" ROLLED	1
AFR1428	FRAME - 1.90" O.D. x 10.45" x 117.20" ROLLED w/PLATE	2
ARP4546	PLAYWOOD KIT - PM 10' ARCH BRIDGE FLOOR	1
ASY0349	ASSY - PM 10' PLAYWOOD ARCH BARRIER	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0162	NUT - 1/4"-20 x 9/16" BUTTON HEAD	54
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	6
BAE1772	BOLT - 1/4"-20 x 2-3/4" BUTTON HEAD - SS	54



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Assembly View (representative model)

Installation Instructions








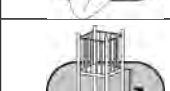
Playmakers® Models PM8480 and PM8486

6 ft. (1829 mm) and 10 ft. (3048 mm)

Ripple Bridge

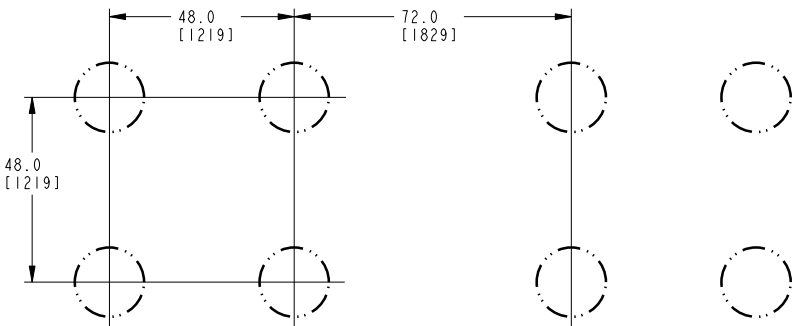
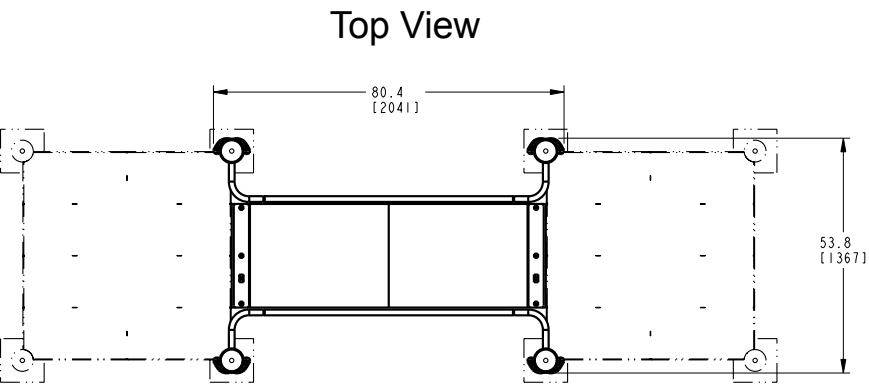
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

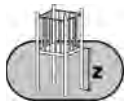
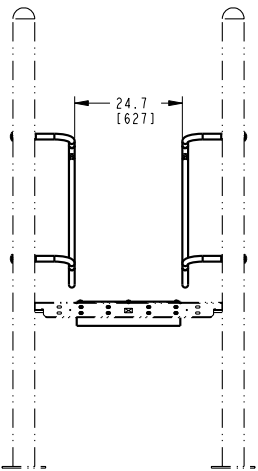
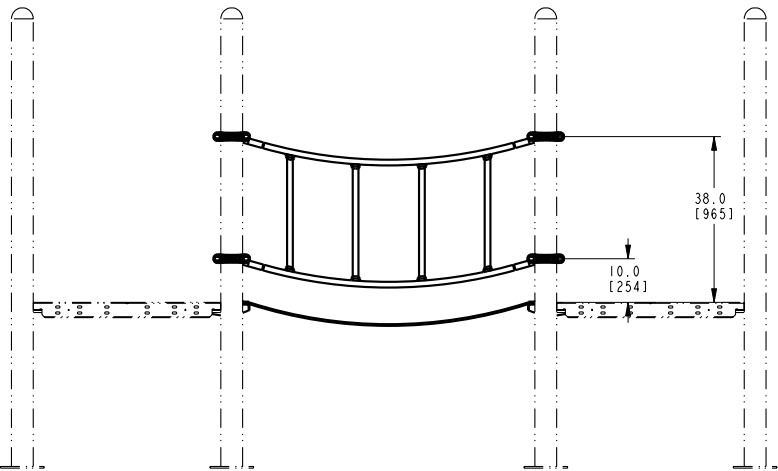
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Equal to the height of the deck.

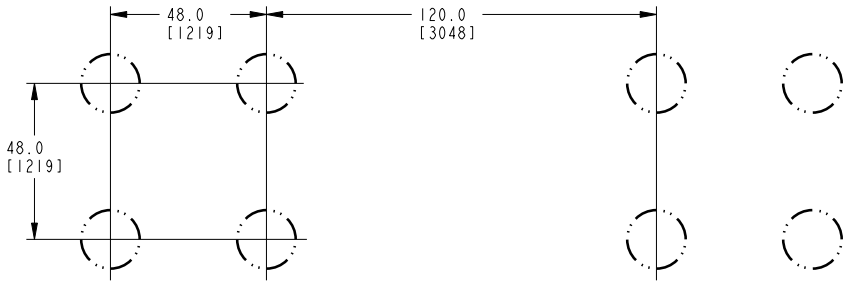
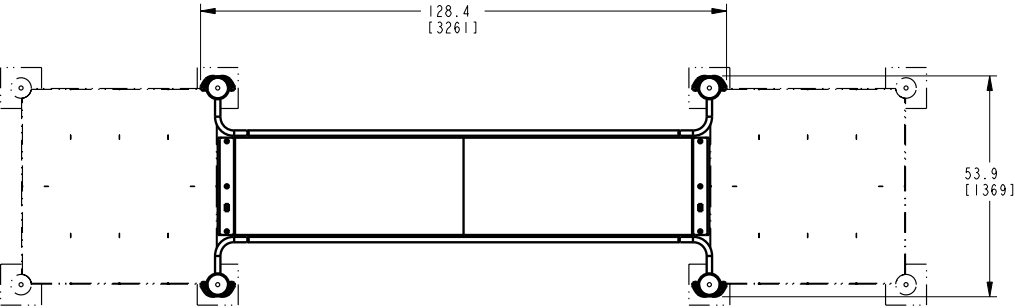
Elevation Views
PM8480



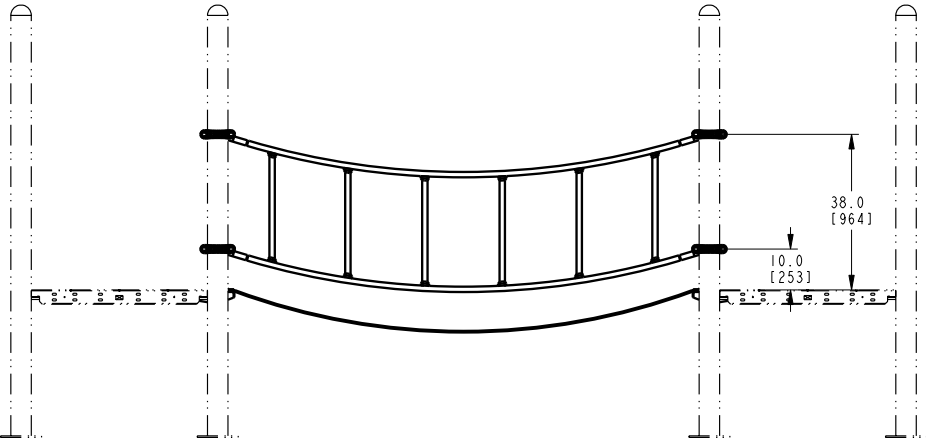
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

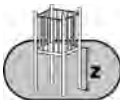
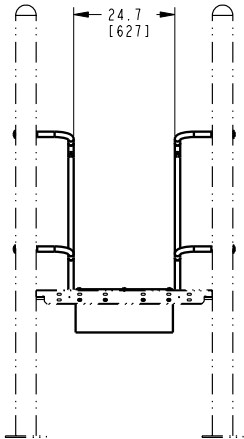
Top View



Footing Diagram



Elevation Views
PM8486

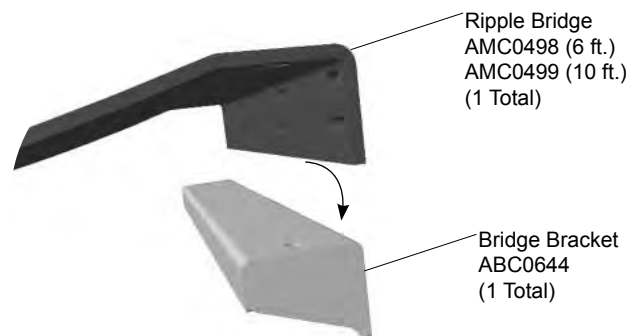


Equal to the height of the deck.



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



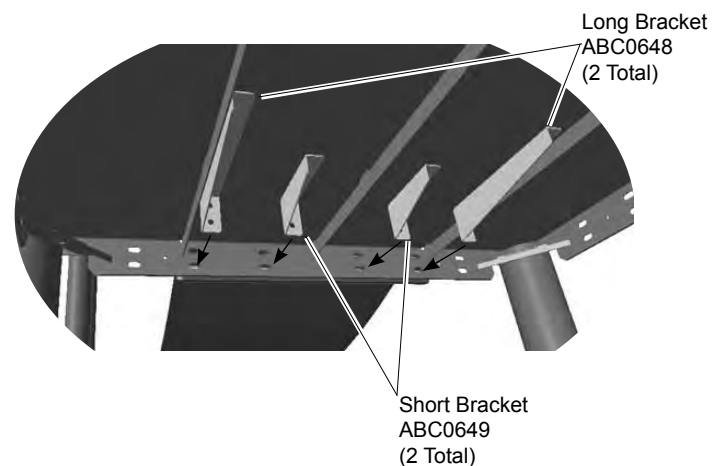
Detail A-1

Fold one end of the bridge down over the bracket and align the holes.



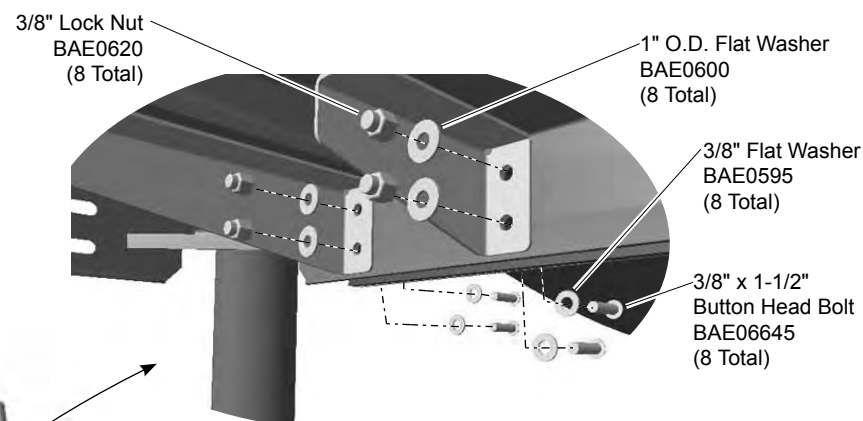
Detail A-2

Position the bridge and bracket against a deck and align the holes.



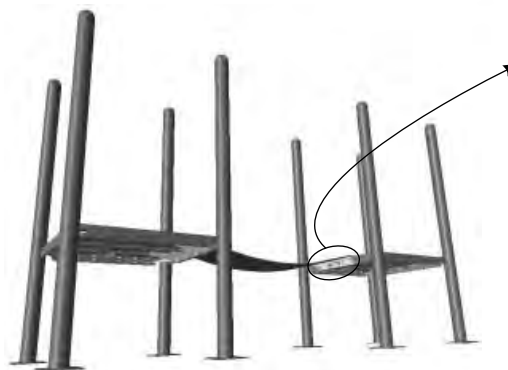
Detail A-3

Position the long and short brackets underneath the deck and align the holes.



Detail A-4

Make the connections as shown.



Details A-1, A-2, A-3, and A-4

Step 3

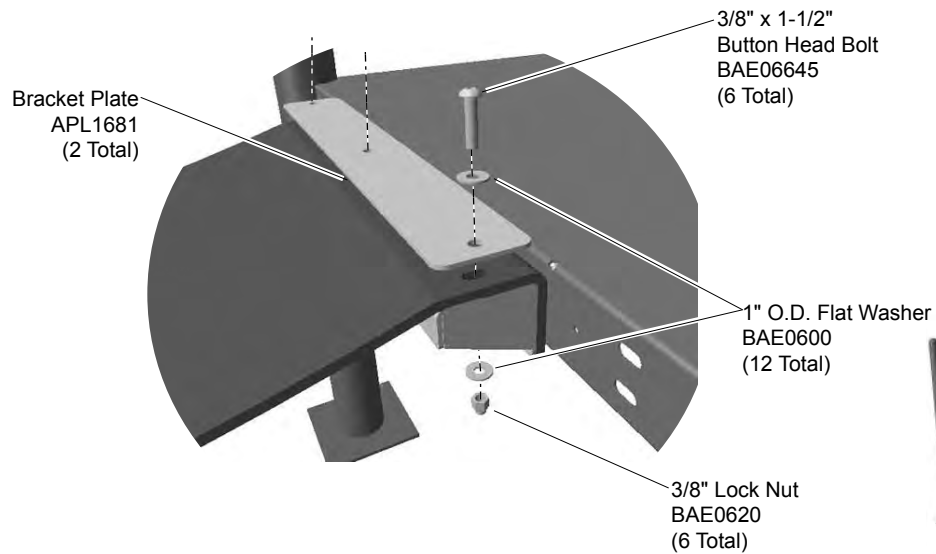
Attach one end of the bridge to a deck.



Installation Instructions

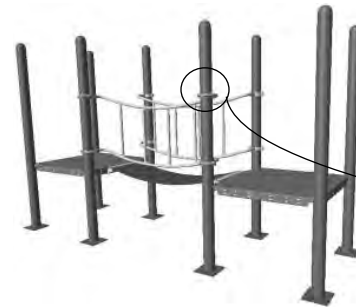
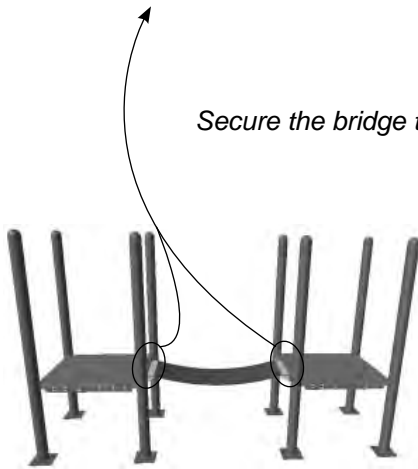
Step 4

Repeat Step 3 to attach the other end of the Ripple Bridge to the other deck. Extra manpower may be required to make the connections.



Detail B Step 5

Secure the bridge to the top of the bridge bracket.



Detail C Step 6

Attach the guardrails to the support posts.

Detail D Step 8

Secure the band clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach one end of the bridge to a deck. See **Details A-1 thru A-4**. Fold one end of the bridge down over a bracket, position against a deck with the long and short brackets placed underneath the deck, align the holes, and attach as shown.

Step 4: Repeat the procedure in **Step 3** to attach the other end of the bridge to the other deck. Additional manpower may be needed to stretch the bridge out to make those connections.

Step 5: Secure the bridge to the top of the bridge bracket. See **Detail B**. Place the bridge plates on top of each end of the bridge, align the holes in the plate with the holes in the bridge, and attach as shown.

Step 6: Attach the guardrails to the support posts. See **Detail C**. Position each guardrail to the inside of the support posts at the height indicated on the **Elevation View**. Place the band clamps around the support posts and against the bands on the guardrail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.



PM8480 - 6 ft. (1829 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1070	GUARDRAIL - 6' MAT BRIDGE (PM)	2
AMC0498	6' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8486 - 10 ft. (3048 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1071	GUARDRAIL - 10' MAT BRIDGE (PM)	2
AMC0499	10' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



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Assembly View

Installation Instructions

Playmakers® Model PM9606




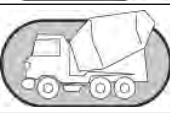



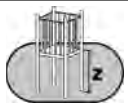
PlayWood Single Peak Roof

Installation Preparation

Recommended Crew: Two (2) adults

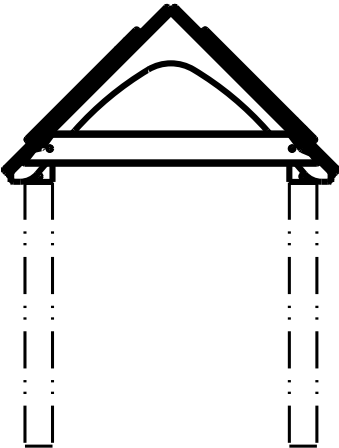
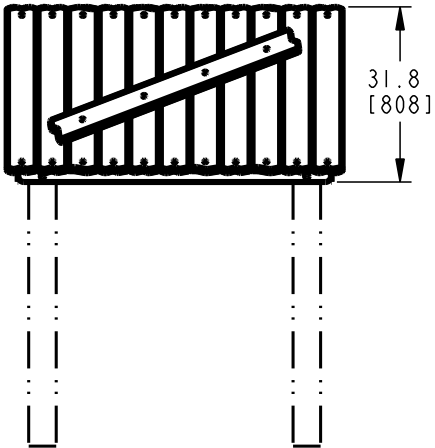
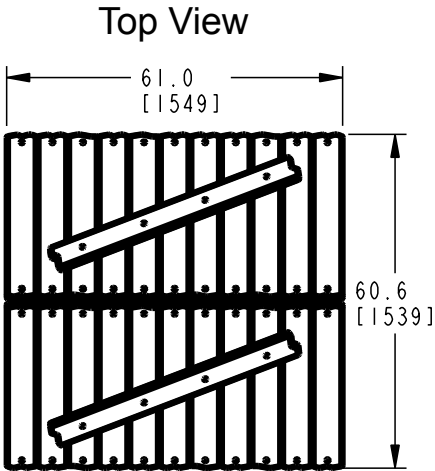
Installation Time: 3 man-hours

ICON KEY

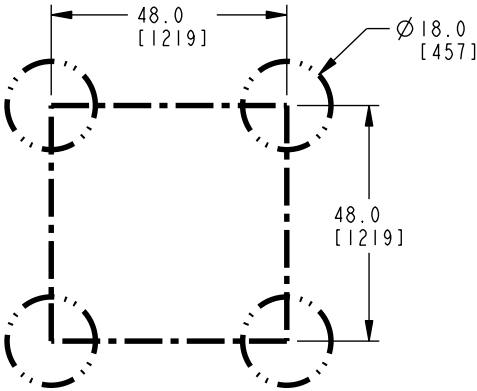
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views



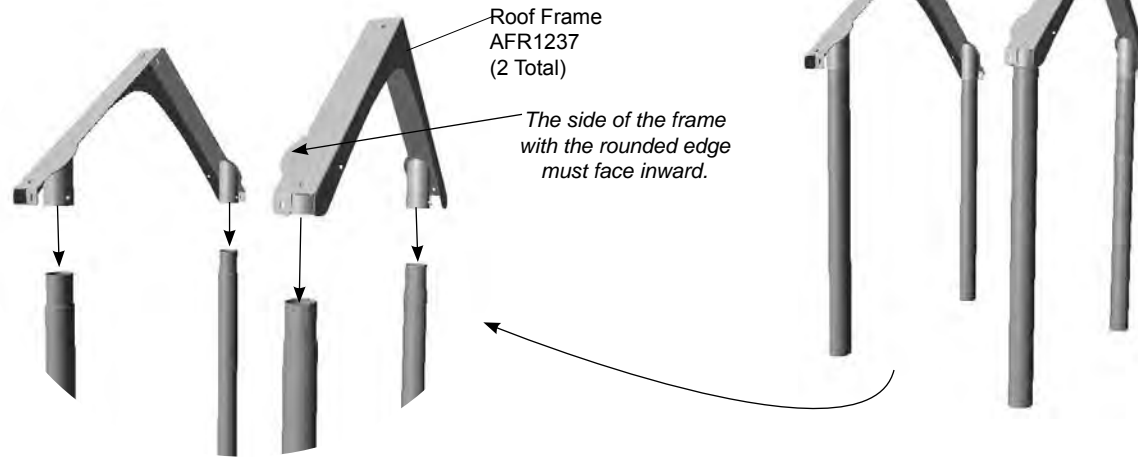
Footing Diagram



<u>PART NUMBER</u>	<u>COLORS</u>	<u>QTY</u>
ARP4571	WALNUT	6
ARP4571	GREY	6
ARP4571	TIGERWOOD	2
ARP4572	TIGERWOOD	4
ARP4573	WALNUT	2
ARP4573	GREY	2
ARP4574	WALNUT	2
ARP4575	WALNUT	2

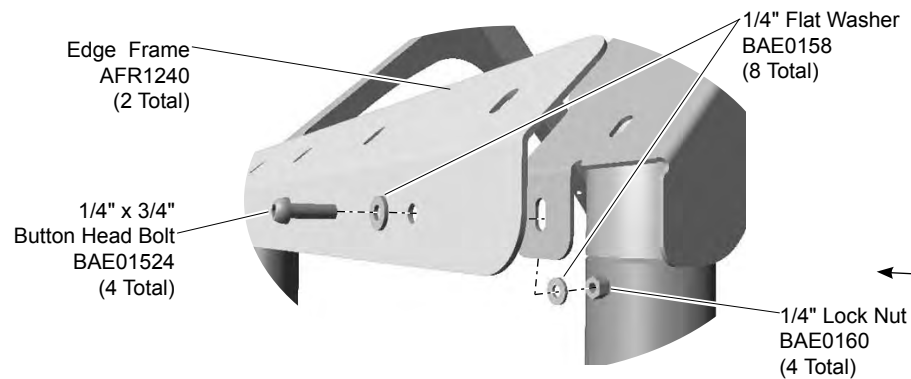
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



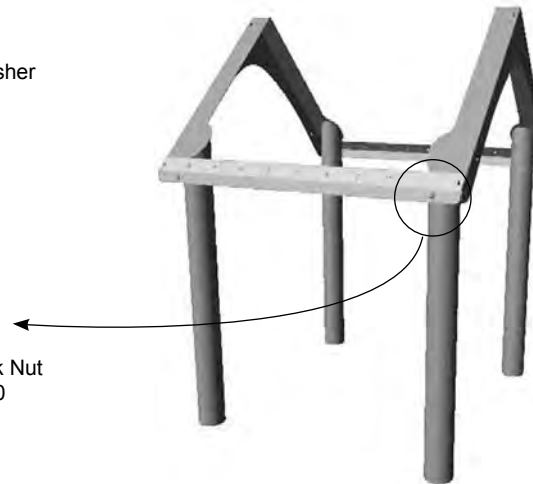
Detail A
Step 3

Place the roof frames on the support posts.



Detail B
Step 4

Attach the edge frames to the roof frames.

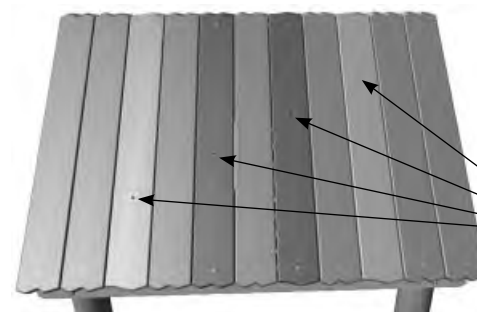


Installation Instructions



Detail C
Step 5

Position the peak frame on top of the roof frames.



***Note:** See Plank Placement Detail for part number, color and location of each plank.

1/4" x 1-1/2"
Flathead Socket Cap Bolt
BAE0141
(36 Total)

*18 of 26 Planks
from Kit ARP4537



Detail D-1

Attach the middle roof planks to the edge frames and the peak frame. See the plank placement above right for interior hole locations.

1/4" Flat Washer
BAE0158
(36 Total)

1/4" Lock Nut
BAE0160
(36 Total)

Details D-1 and D-2
Step 6

Attach the roof planks to the edge frames and the peak frame.

1/4" x 1-3/4"
Flathead Socket Cap Bolt
BAE0136
(8 Total)

*4 of 26 Planks
from Kit ARP4537



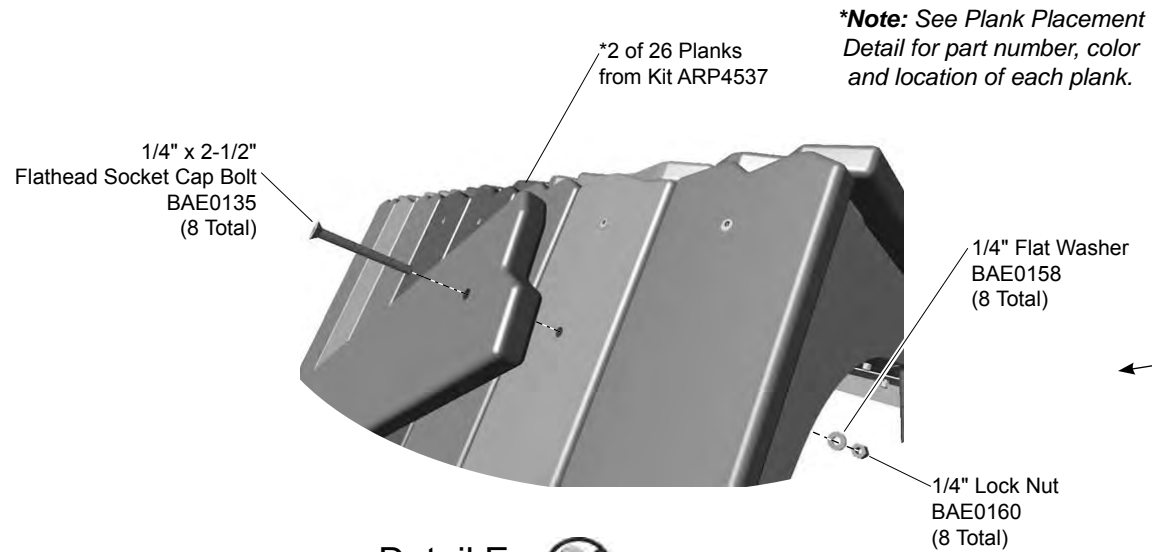
1/4" Flat Washer
BAE0158
(8 Total)

1/4" Lock Nut
BAE0160
(8 Total)

Detail D-2

Attach the end roof planks to the edge frames and the peak frame.

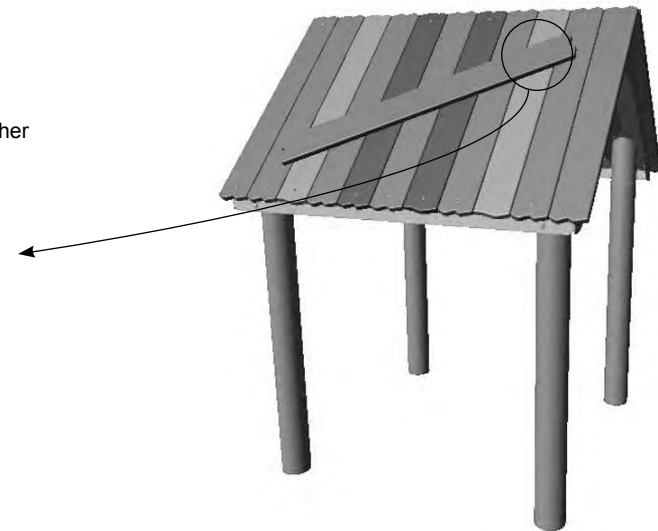
Installation Instructions



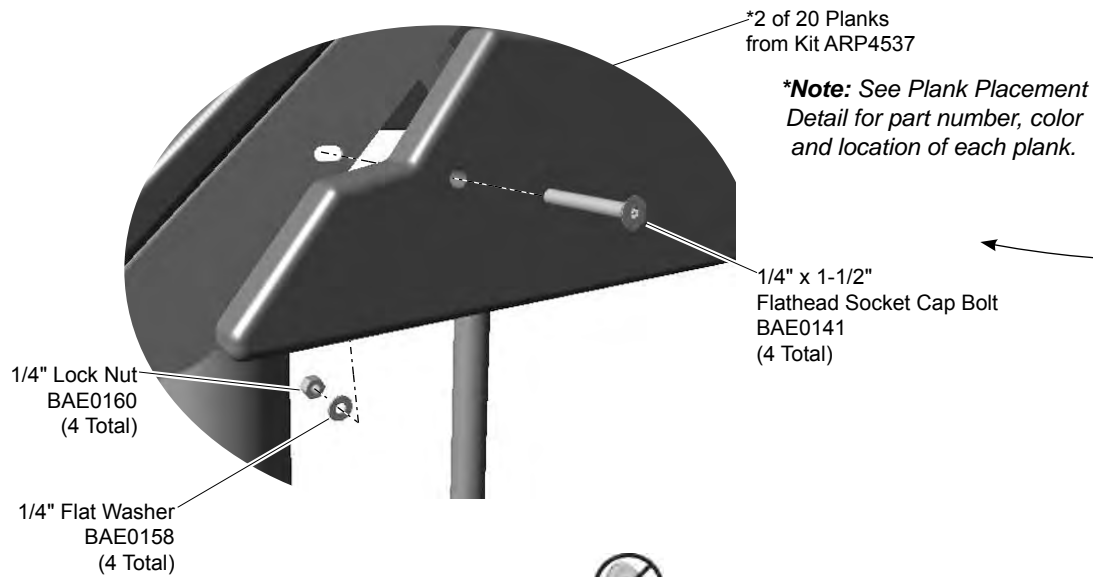
Detail E

Step 7

Attach the diagonal plank to the roof planks.

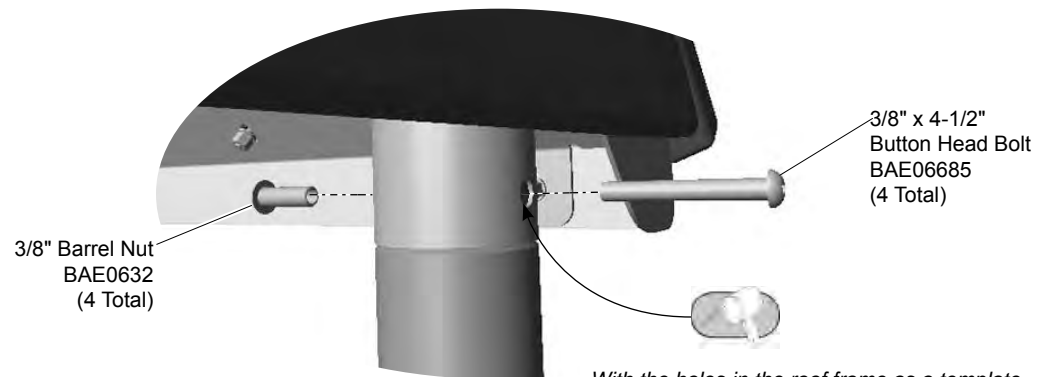
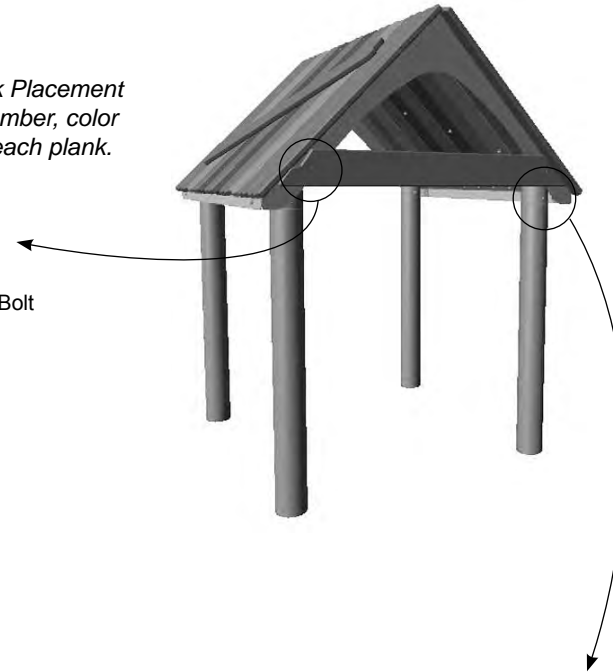


Installation Instructions



Detail F
Step 8

Attach the last two planks to the roof frames.



With the holes in the roof frame as a template and using a 1/2" drill bit, drill holes in the support post to make the connections.



Detail G
Step 10

Attach the roof frames to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Place the roof frames on the support posts. See **Detail A**. Position each frame, with the side of the frame with the rounded edge facing inward, on top of the support posts.

Step 4: Attach the edge frames to the roof frames. See **Detail B**. Position each edge frame against the bottom of the roof frames and attach as shown. The side of the edge frame with all the slots must be on top.

Step 5: Position the peak frame on top of the roof frames. See **Detail C**. Place the peak frame on top of the roof frames and align the hole in the end of the peak frame with the top hole in the roof frame.

Note: For the Steps 6 thru 8 reference the **Plank Placement Detail** for part number, color and location of each plank.

Step 6: Attach the roof planks to the edge frames and the peak frame. See **Details D-1 and D-2**. Position the roof planks on top of the edge and peak frames and attach as shown. **Ensure the holes in the interior part of the designated planks are located as shown.**

Step 7: Attach the diagonal plank to the roof planks. See **Detail E**. Position the designated diagonal plank on top of the roof planks and attach as shown.

Step 8: Attach the last two planks to the roof frames. See **Detail F**. Position each plank against a roof frame and attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Attach the roof frames to the support posts. See **Detail G**. With the holes in the roof frame as a template and using a 1/2" drill bit, drill holes thru the support post and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

PM9606 - PLAYWOOD SINGLE PEAK ROOF

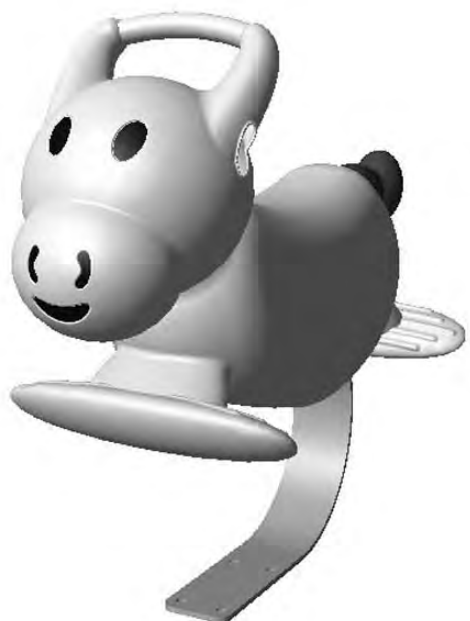
PART NO.	DESCRIPTION	QTY.
AFR1237	FRAME - 30.93" x 58.00" SINGLE PEAK ROOF	2
AFR1239	FRAME - 12 GA x 3.72" x 3.72" x 56.75" ANGLE	1
AFR1240	FRAME - 12 GA x 3.00" x 2.00" x 56.75" EDGE	2
ARP4537	PLAYWOOD KIT - PM SINGLE PEAK ROOF PLANKS	1
BAE0135	BOLT - 1/4"-20 x 2-1/2" FLAT HD SOCKET CAP	8
BAE0136	BOLT - 1/4"-20 x 1-3/4" FLAT HD SOCKET CAP	8
BAE0141	BOLT - 1/4"-20 x 1-1/2" FLAT HD. SOCKET CAP w/PIN	40
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	64
BAE0160	NUT - 1/4"-20 HEAVY LOCK w/o NYLON CAP	60
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	4
BAE06685	BOLT - 3/8"-16 x 4.50" BUTTON HEAD w/1.75" OF THREAD	4



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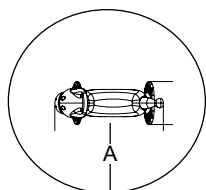
For Customer Service, Call
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570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworld.com





Assembly View (representative structure)

Spring Rider Use Zones
A = ASTM: 72 in. (1829 mm)
 CSA: 1800 mm
 EN: 1000 mm



Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems® Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568
 Cow, Horse, Ladybug, and Bee Spring Rider
 With and Without Sound

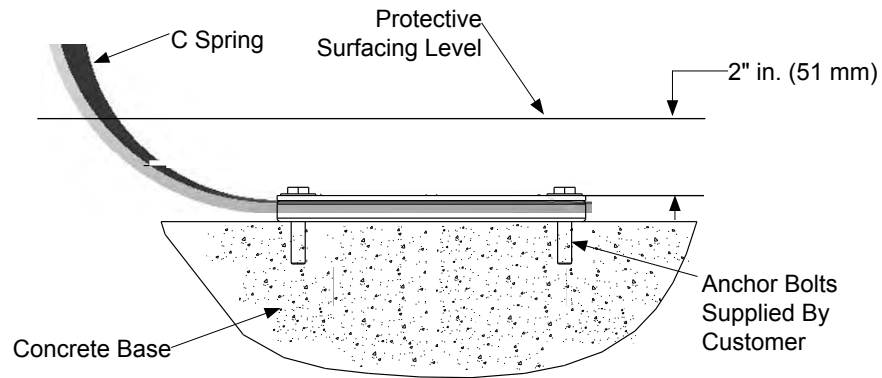
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 Use Zone: Refer to the information below
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



C Spring Surface Mount Footing Detail

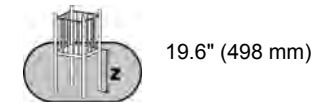
FOOTING NOTES

- Footing size may vary due to local soil and weather conditions.
- The base of the footing must be below frost line.

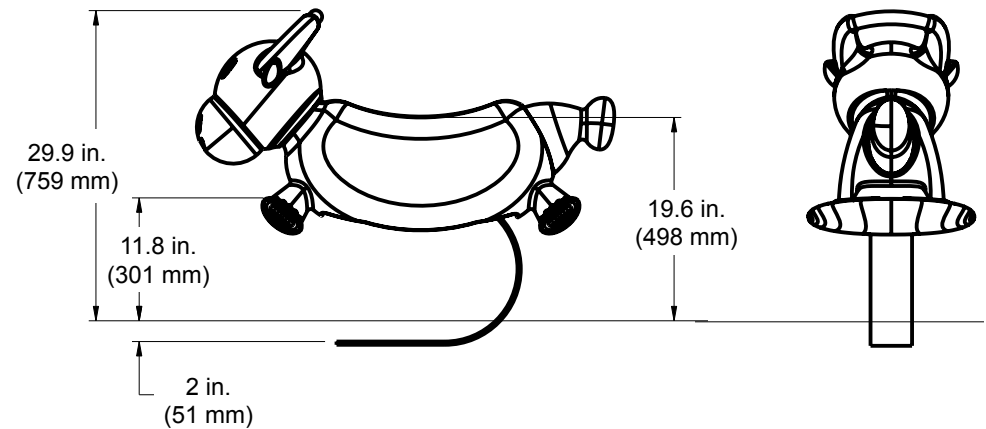
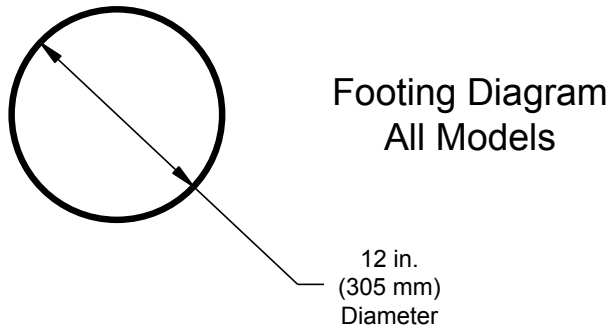
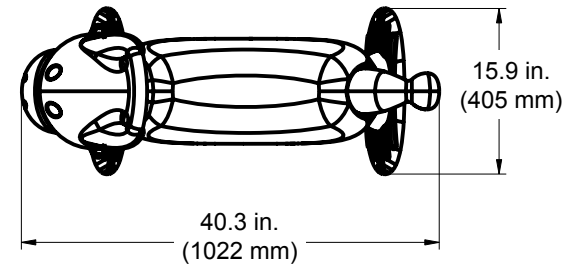
Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Model	Animal
ZZXX0561	Cow
ZZXX0562	Cow w/ Sound
ZZXX0563	Horse
ZZXX0564	Horse w/ Sound
ZZXX0565	Ladybug
ZZXX0566	Ladybug w/ Sound
ZZXX0567	Bee
ZZXX0568	Bee w/ Sound

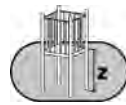


Top View



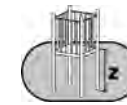
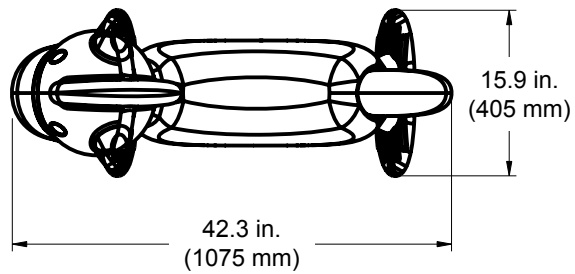
Elevation Views
XX0561 & XX0562

Installation Instructions



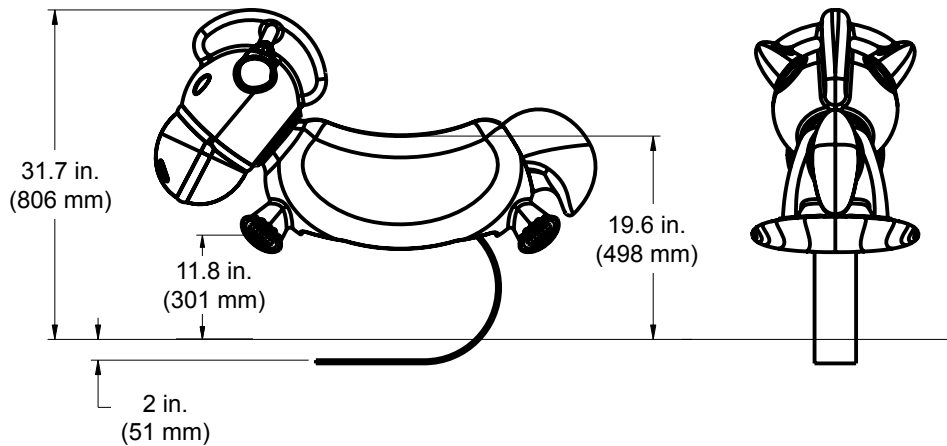
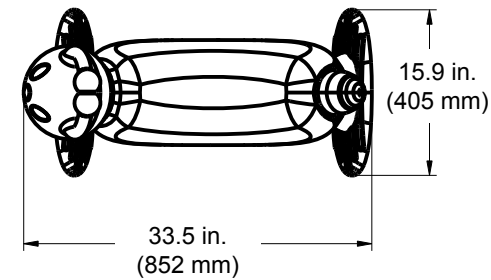
19.6" (498 mm)

Top View

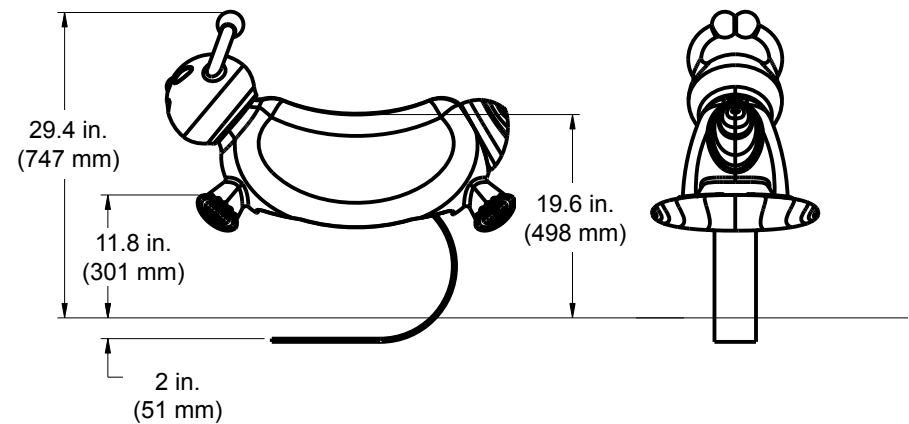


19.6" (498 mm)

Top View



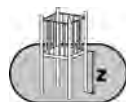
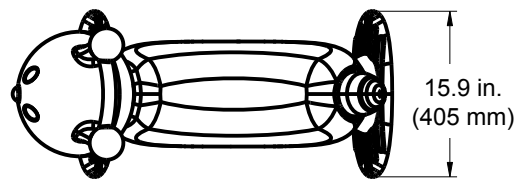
Elevation Views
XX0563 & XX0564



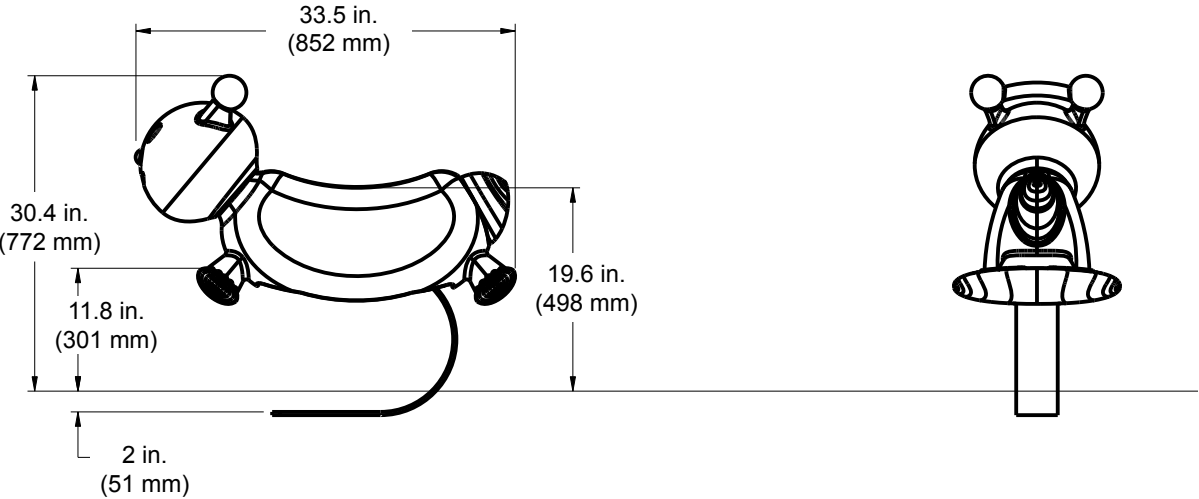
Elevation Views
XX0565 & XX0566

Installation Instructions

Top View



19.6" (498 mm)

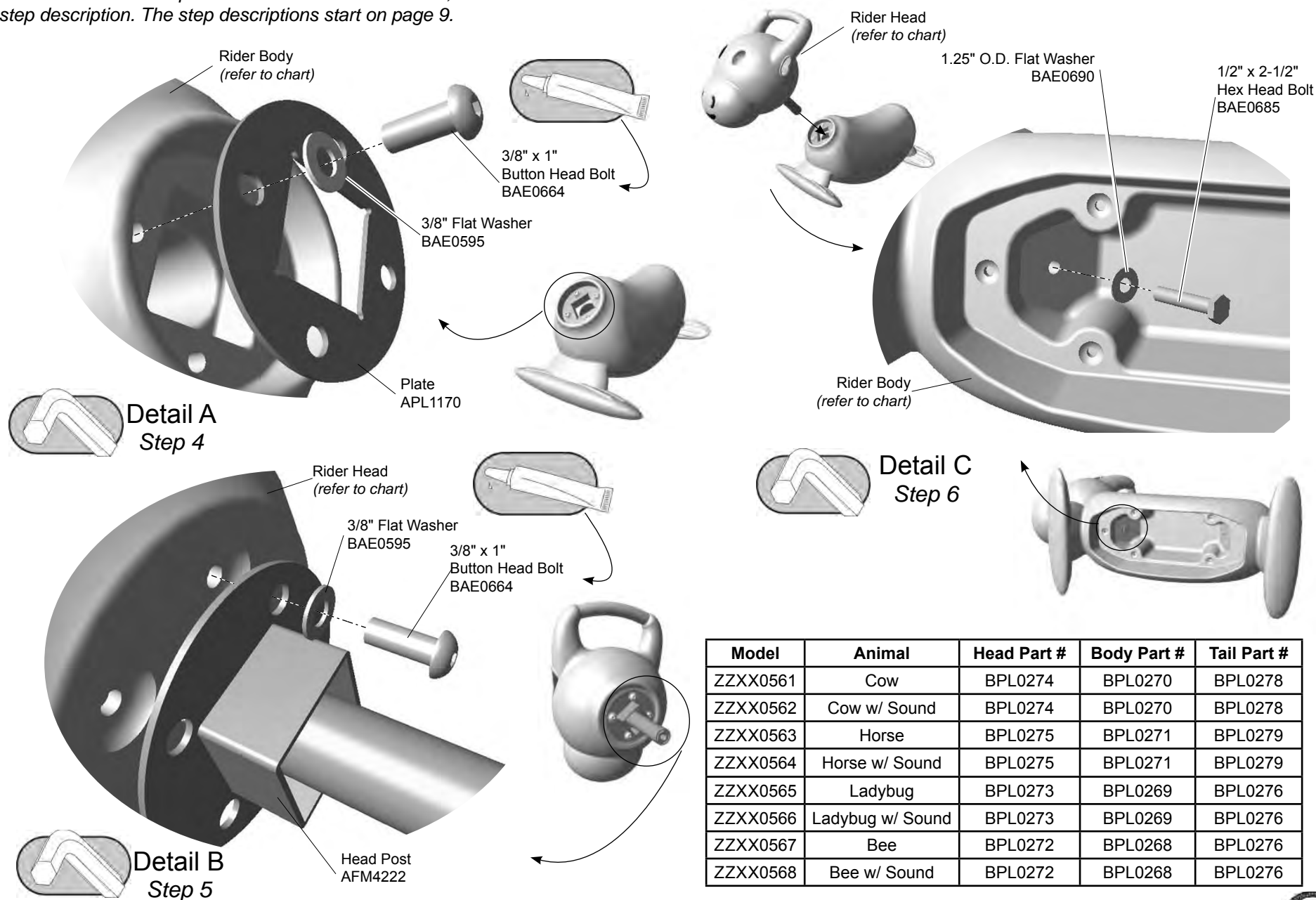


Elevation Views
XX0567 & XX0568

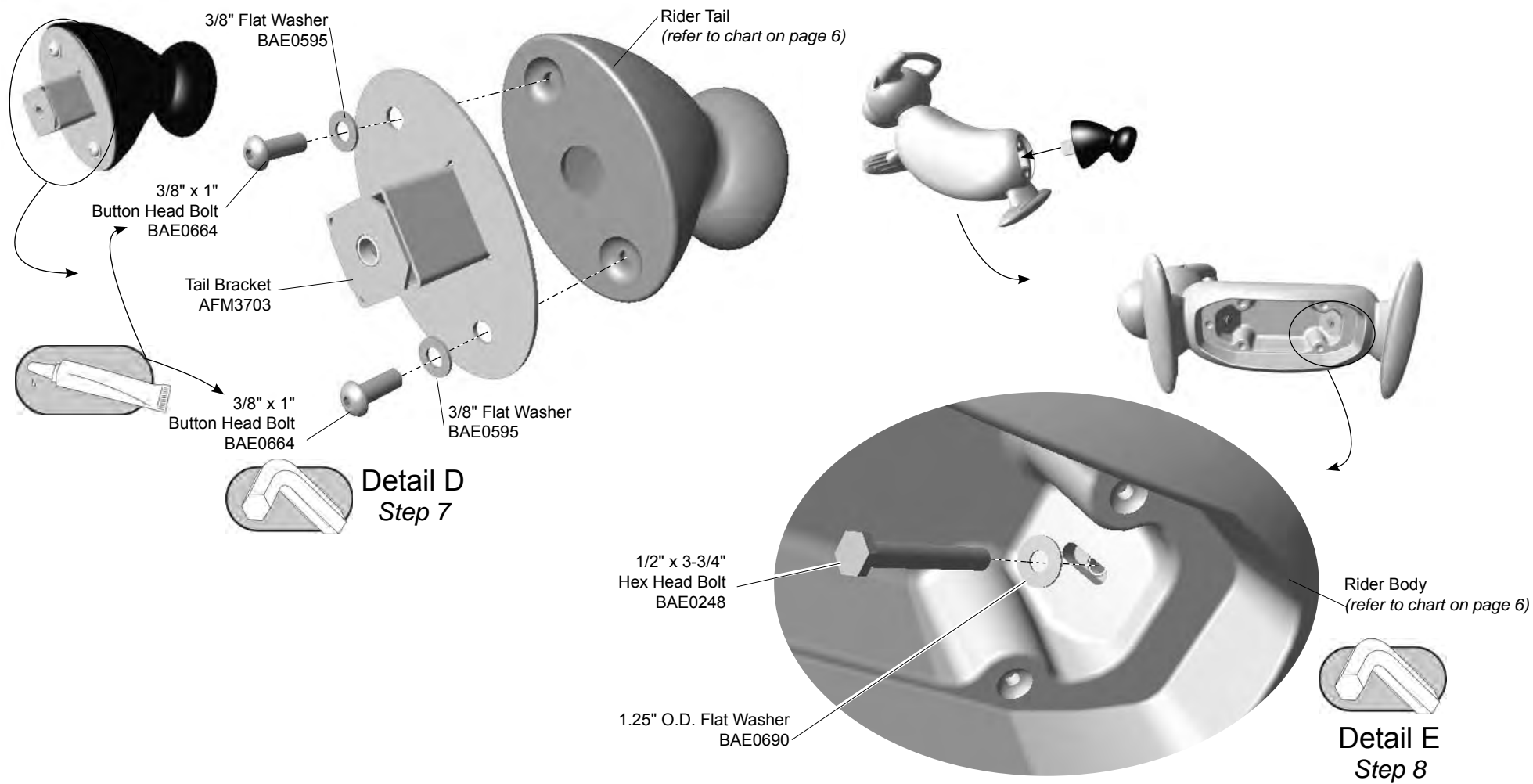


Installation Instructions

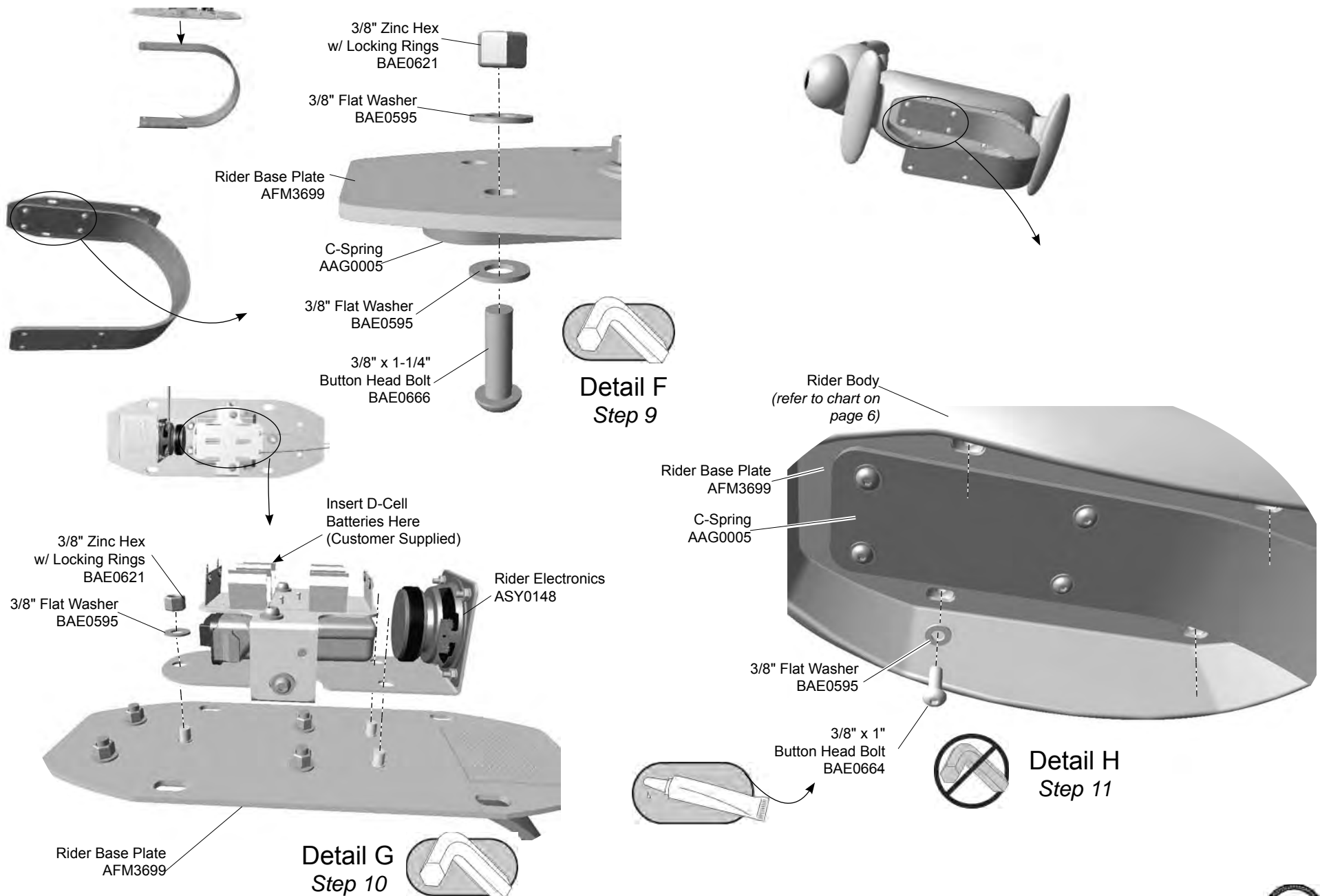
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Prepare footings as shown in the **C-Spring Footing Detail** on page 2 of this document.

Note: Heads and tails can be interchanged with body. Refer to the chart on page 6 to reference your specific parts.

Attach the plate to the rider body.

__Step 4: Attach the plate to the rider body. See **Detail A**. Select the plate, the rider body, and the appropriate hardware. There are (4) four connections. Place the plate in the indent in the neck area of the body and align the holes. Attach as shown.

Attach the head post to the rider head.

__Step 5: Attach the head post to the rider head. See **Detail B**. Select the head post, the rider head, and the appropriate hardware. There are (4) four connections. Place the post in the indent at the bottom of the head and align the holes. Attach as shown.

Attach the head to the body.

__Step 6: Attach the head to the body. See **Detail C**. Select the head assembly, the body assembly, and the appropriate hardware. There is (1) one connection. Insert the head assembly into the body assembly. Insert a bolt up through the rider body and thread into the head post. Tighten the connection until there is no gap between the head and the body.

Assemble the tail.

__Step 7: Assemble the tail. See **Detail D**. Select the tail, the tail bracket, and the appropriate hardware. There are (2) two connections. Align the tail bracket with the holes in the tail and attach as shown.

Attach the tail to the body.

__Step 8: Attach the tail to the body. See **Detail E**. Select the tail assembly and the appropriate hardware. There is (1) one connection. Insert the tail assembly into the body assembly. Insert a bolt up through the rider body and thread into the tail bracket. Tighten the connection until there is no gap between the tail and the body.

Attach the base plate to the C-spring.

__Step 9: Attach the base plate to the C-spring. See **Detail F**. Select the appropriate hardware. There are (4) four connections. Place the base plate onto the C-spring. Align the inner holes on the base plate with the holes in the C-spring. Attach as shown.

Note: Skip *Step 10* if you are not installing a model with sounds.

Attach the electronics to the base plate.

__Step 10: Attach the electronics to the base plate. See **Detail G**. Select the electronics, the base plate, and the appropriate hardware. There are (3) three connections. Insert the electronic panel onto the pegs on the base plate. Attach as shown.

Important Note: Insert (4) four D-cell batteries into the sound electronics before installation. Batteries are sold separately. Battery life is approximately one (1) year. Maintenance should be scheduled to replace the batteries accordingly.

Note: Sound electronics are factory ready. No electrical connections will need to be made.

Attach the rider body assembly to the base plate.

__Step 11: Attach the rider body assembly to the base plate. See **Detail H**. Select the appropriate hardware. There are (4) four connections. Lower the rider body assembly onto the base plate and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Installation Instructions

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.



XX0561 - COW SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1

XX0562 - COW SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0270	COW BODY	1
BPL0274	COW HEAD	1
BPL0278	COW TAIL	1

XX0563 - HORSE SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0271	HORSE BODY	1
BPL0275	HORSE HEAD	1
BPL0279	HORSE TAIL	1

XX0564 - HORSE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0271	HORSE BODY	1
BPL0275	HORSE HEAD	1
BPL0279	HORSE TAIL	1



XX0565 - LADYBUG SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0269	LADYBUG BODY	1
BPL0273	LADYBUG HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0566 - LADYBUG SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0269	LADYBUG BODY	1
BPL0273	LADYBUG HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0567 - BEE SPRING RIDER

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	22
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1

XX0568 - BEE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0268	BEE BODY	1
BPL0272	BEE HEAD	1
BPL0276	BEE AND LADYBUG TAIL	1



Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Sound Unit

- Inspect for proper operation and replace batteries as needed.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568 Cow, Horse, Ladybug, and Bee Spring Rider With and Without Sound



Inspection Form

Preventive Maintenance

... for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect spring connections for tightness.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect sound unit for proper operation and replace batteries as needed.	Medium			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

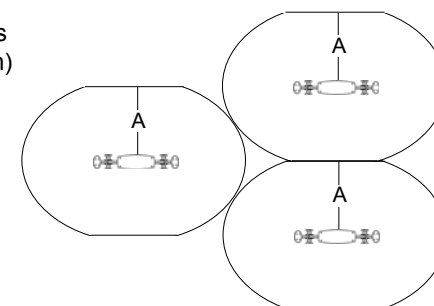


Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 84 inches (2134 mm). This use zone may not be overlapped by the use zones of adjacent play equipment. See diagram.
- **CSA compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 2100 mm. This use zone may not be overlapped by the use zones of adjacent play equipment. See diagram.
- **EN Compliance:** For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 1000 mm.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

Rocking/Springing Equipment
Intended for Standing Use Zones
A = ASTM: 84 in. (2134 mm)
CSA: 2100 mm
EN: 1000 mm



Placement of multiple rocking springing equipment intended for standing

- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

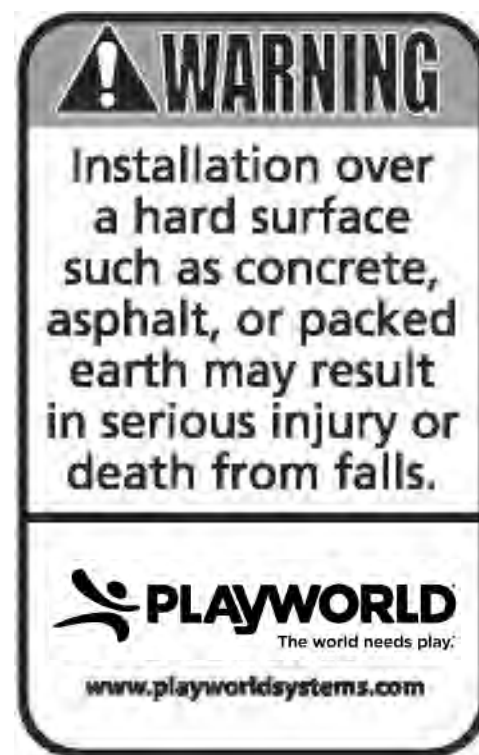
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®

Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

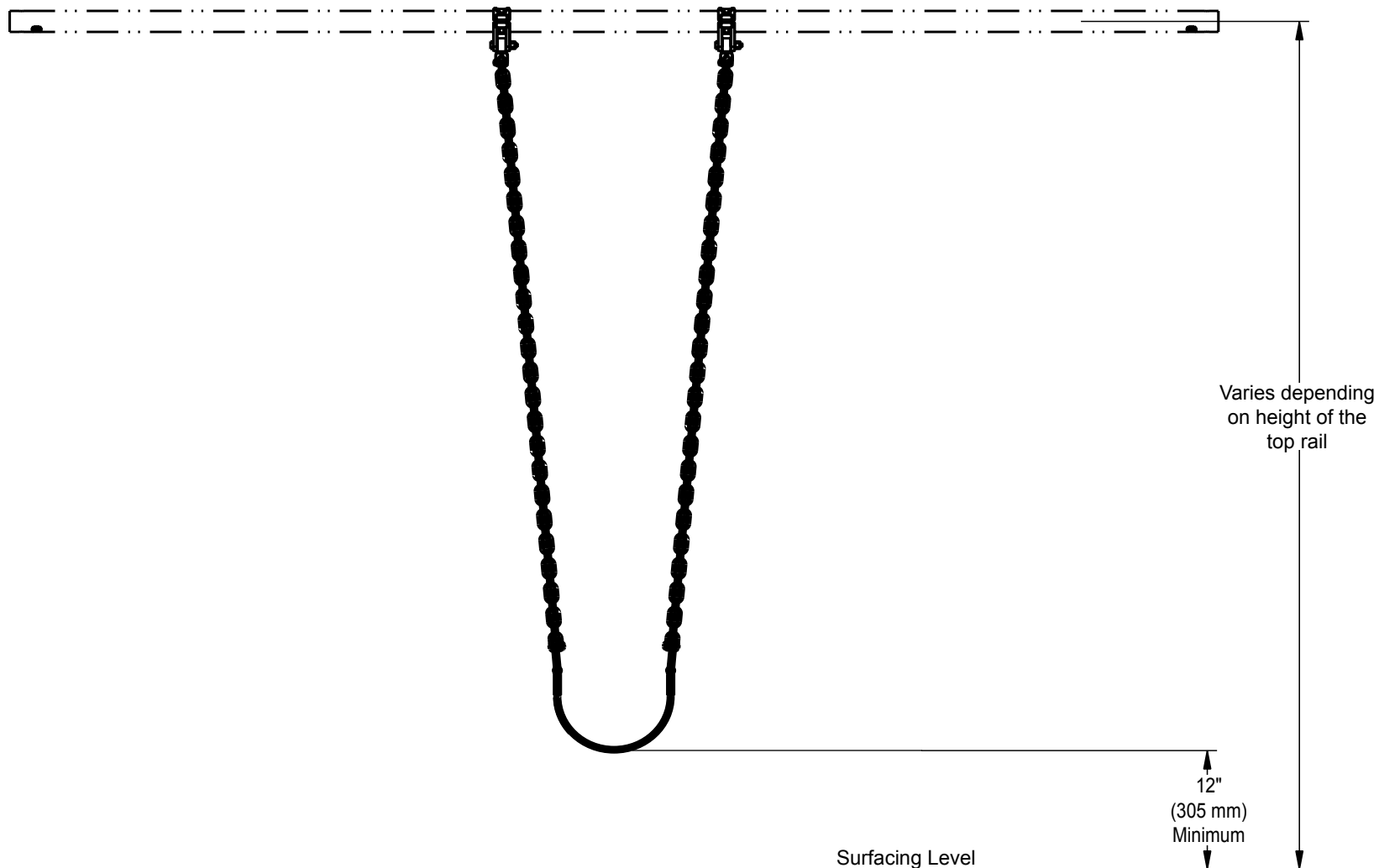
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

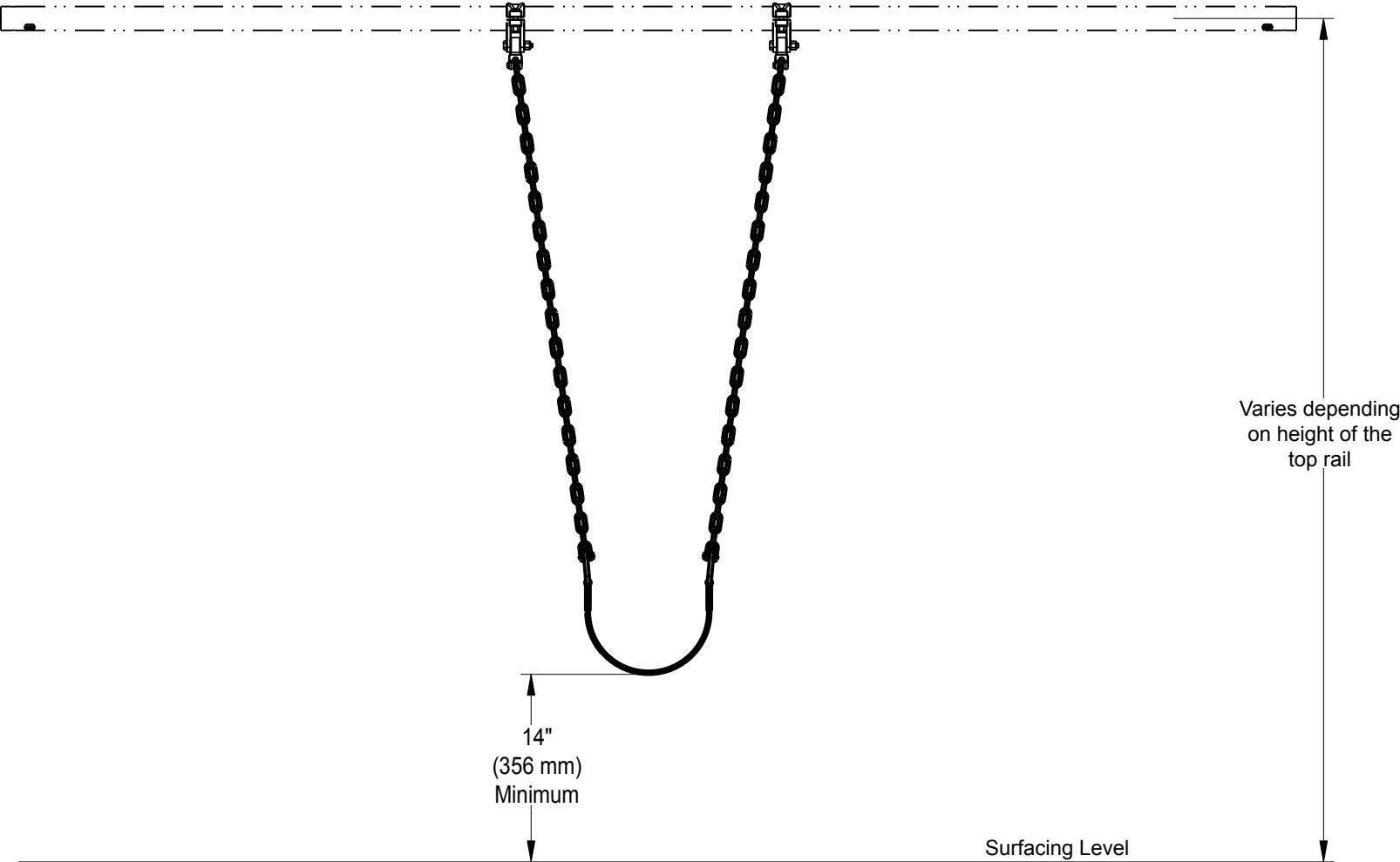
Installation Instructions



Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)

Installation Instructions



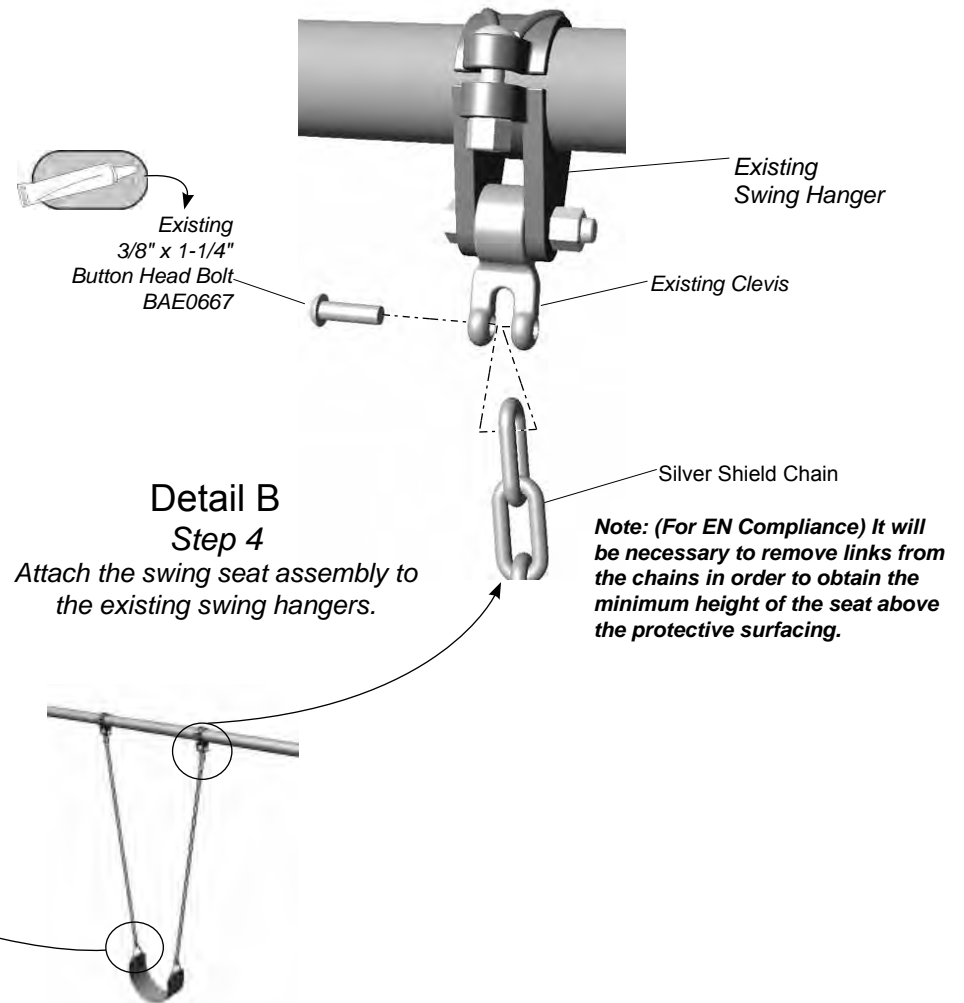
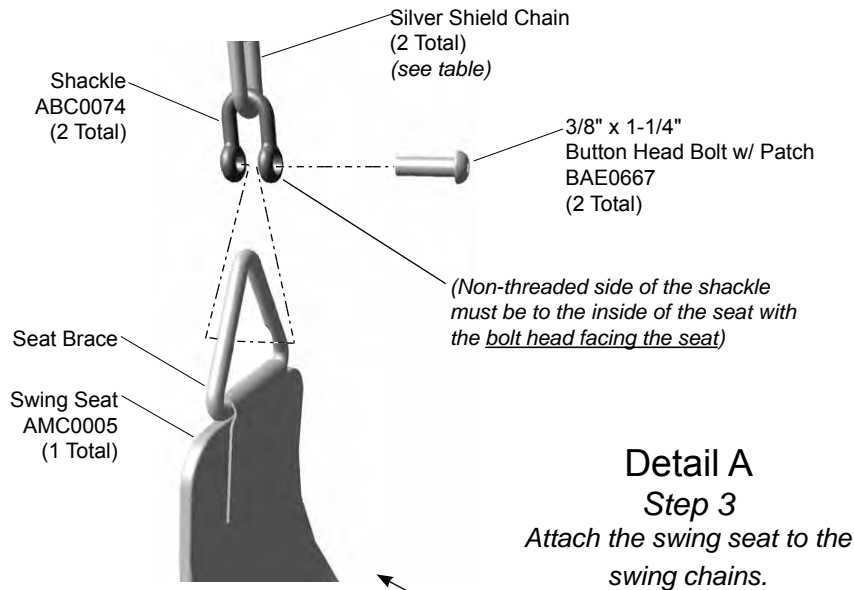
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain





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800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Top Rail Height
ZZXX0325	7 ft. (2134 mm)
ZZXX0265	8 ft. (2440 mm)
ZZXX0266	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

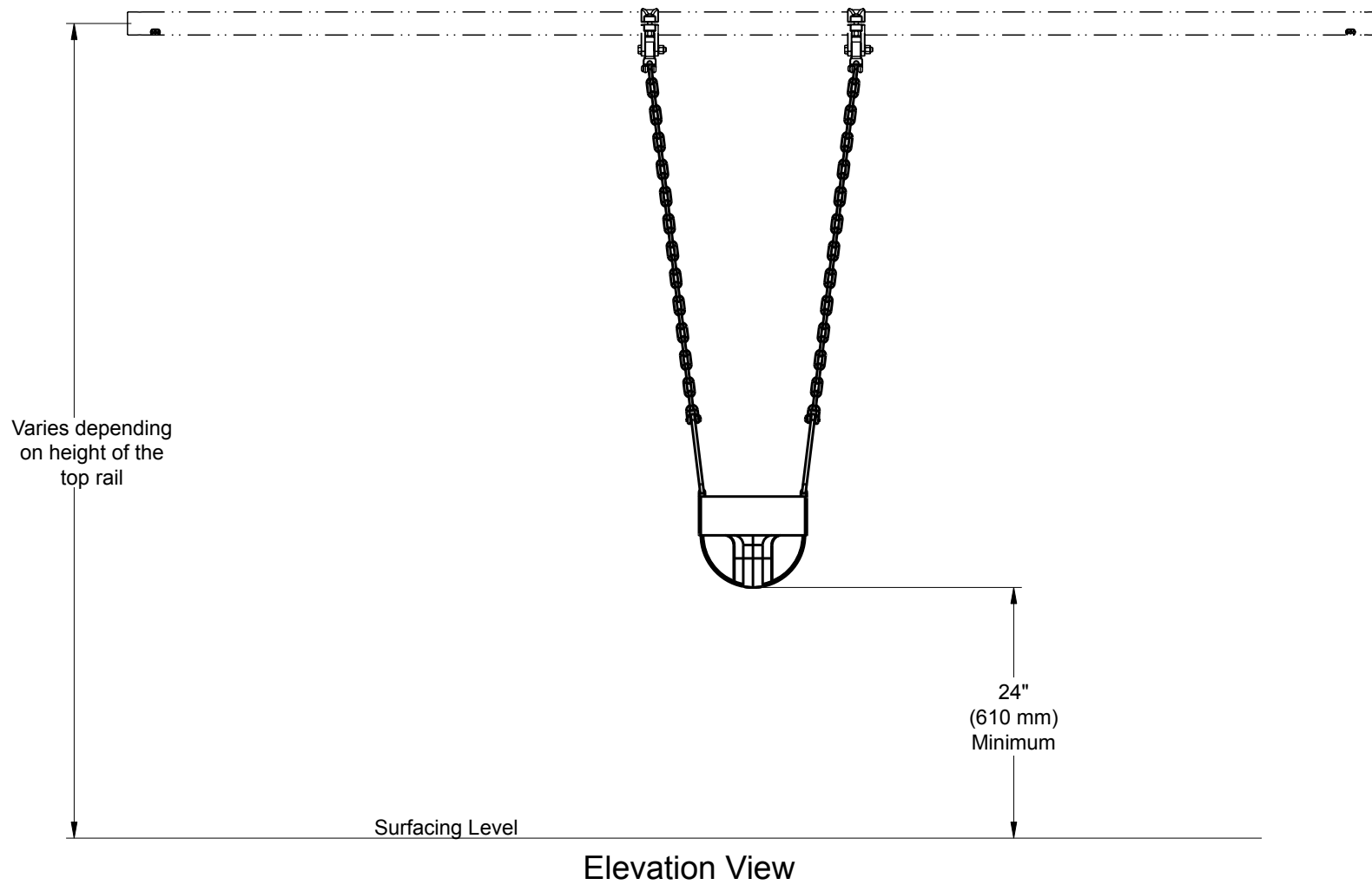
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone:..... Refer to the swing frame instructions
 User Group:..... Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

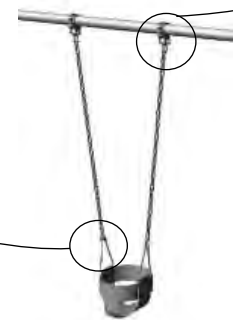
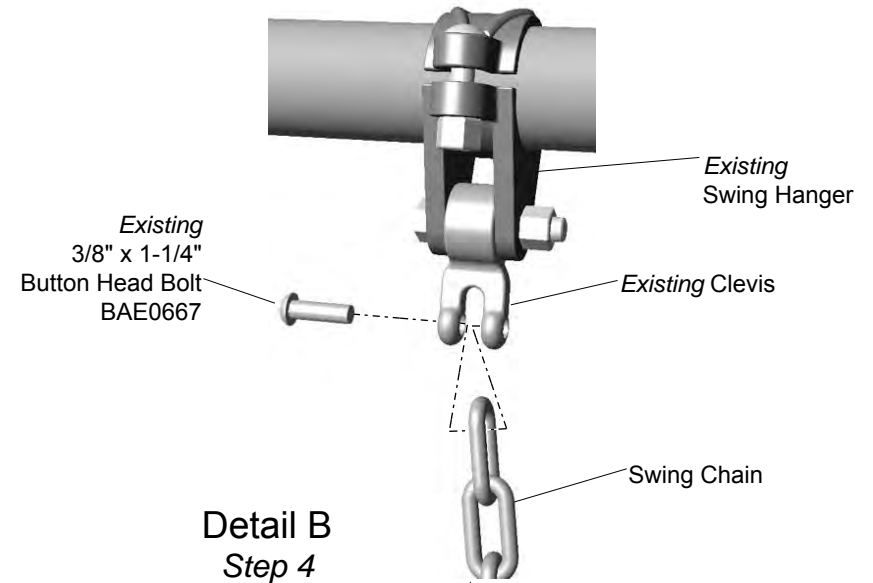
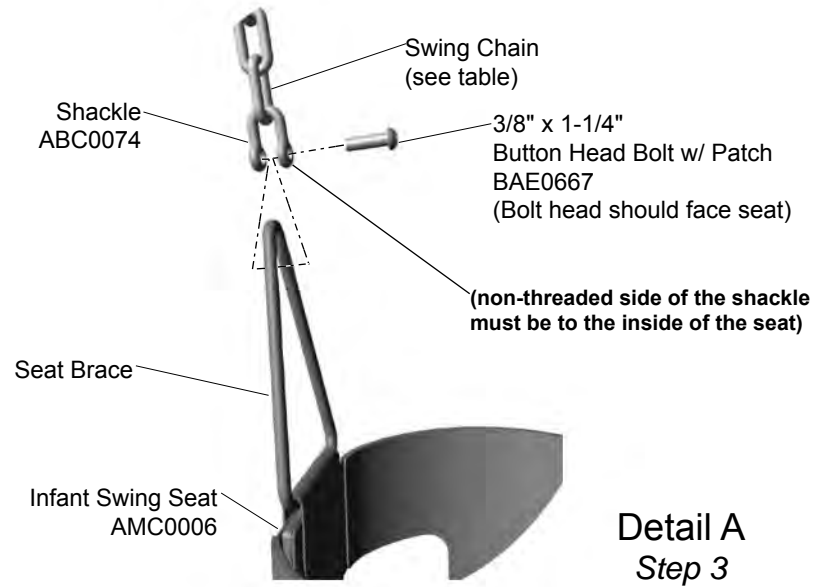
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

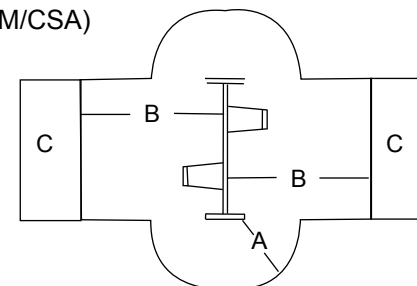
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

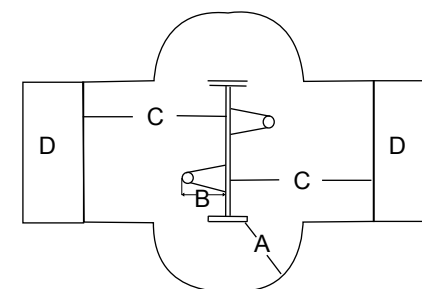
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

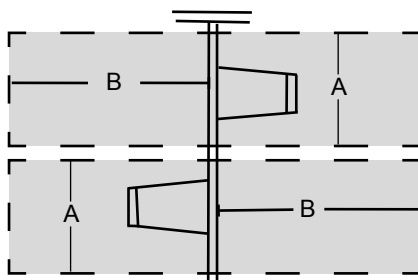
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

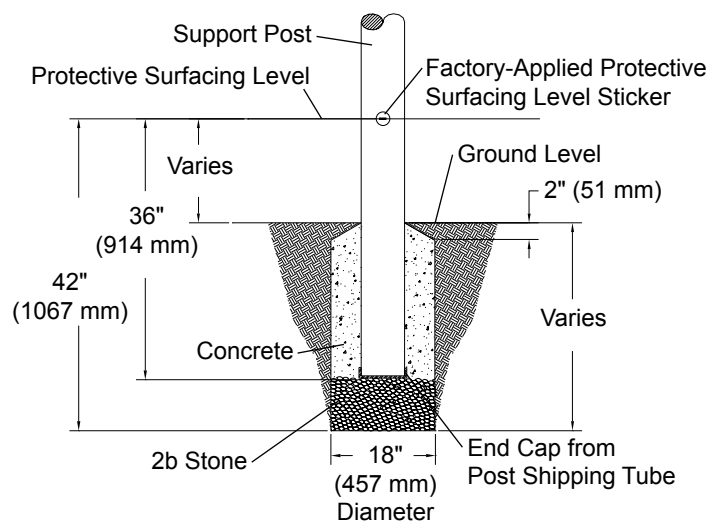
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

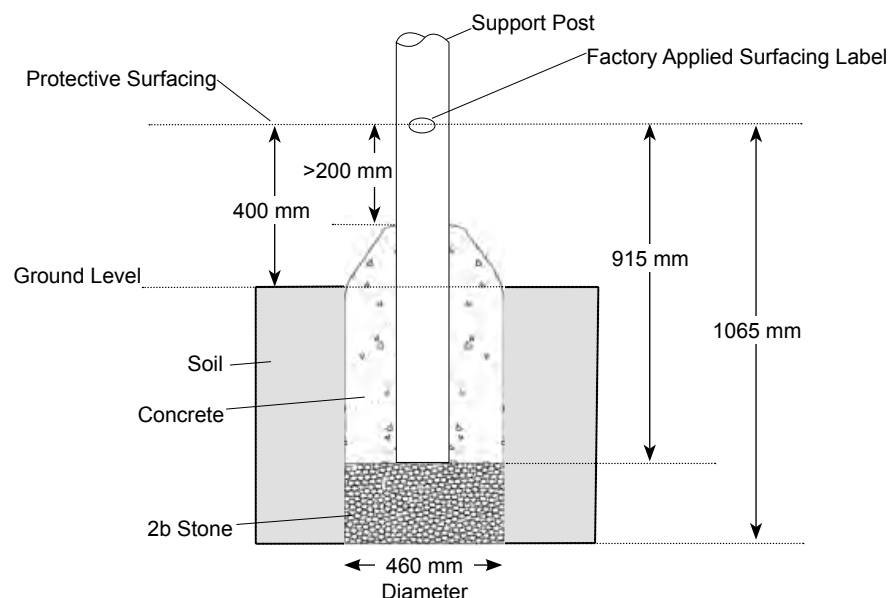
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Assembly View (representative model)

Installation Instructions

Playworld Systems® Model XX0287
 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
 8 ft. (2438 mm) Top Rail

Installation Preparation

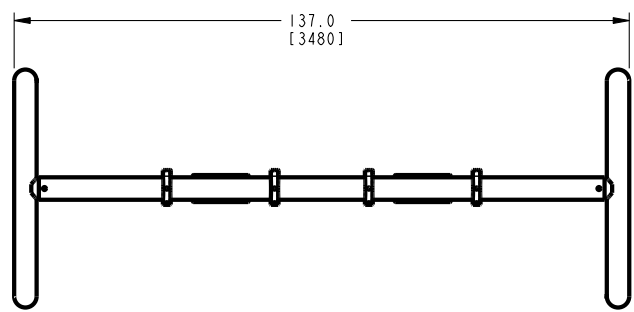
Recommended Crew: Four (4) adults
 Installation Time: 3 man-hours
 Concrete Required: 0.48 cubic yard (0,37 cubic meters)
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

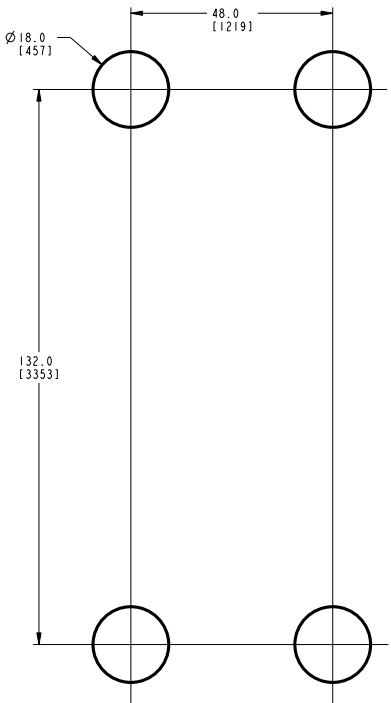
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

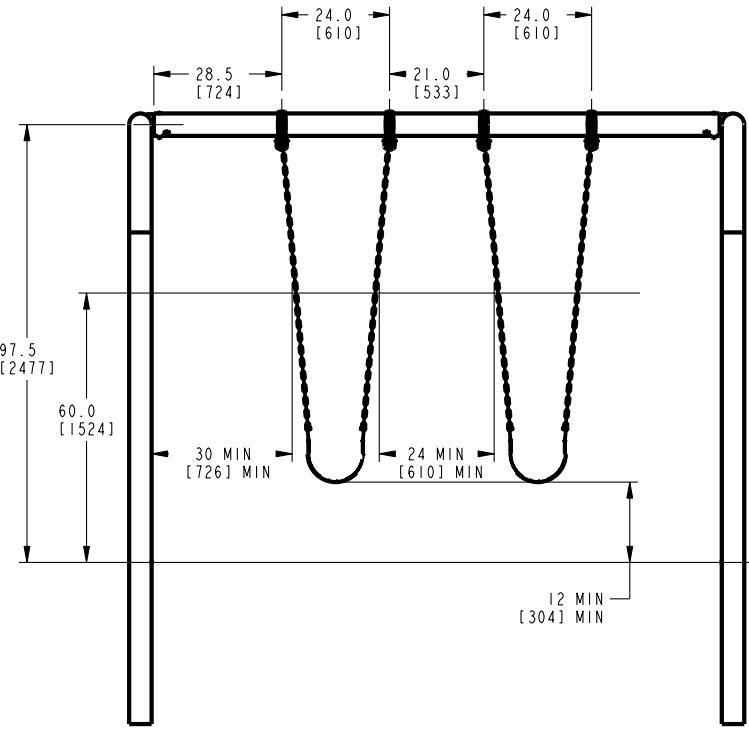
Top View



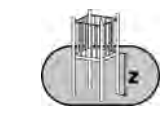
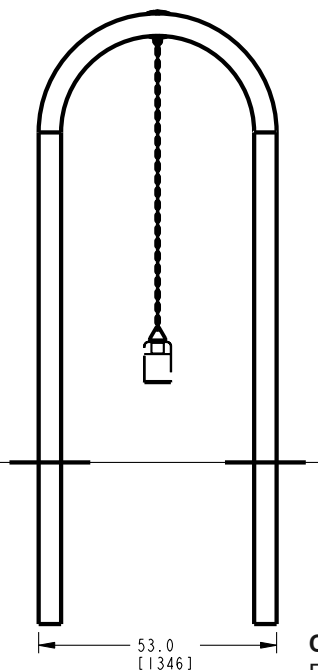
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Footing Diagram



Elevation Views

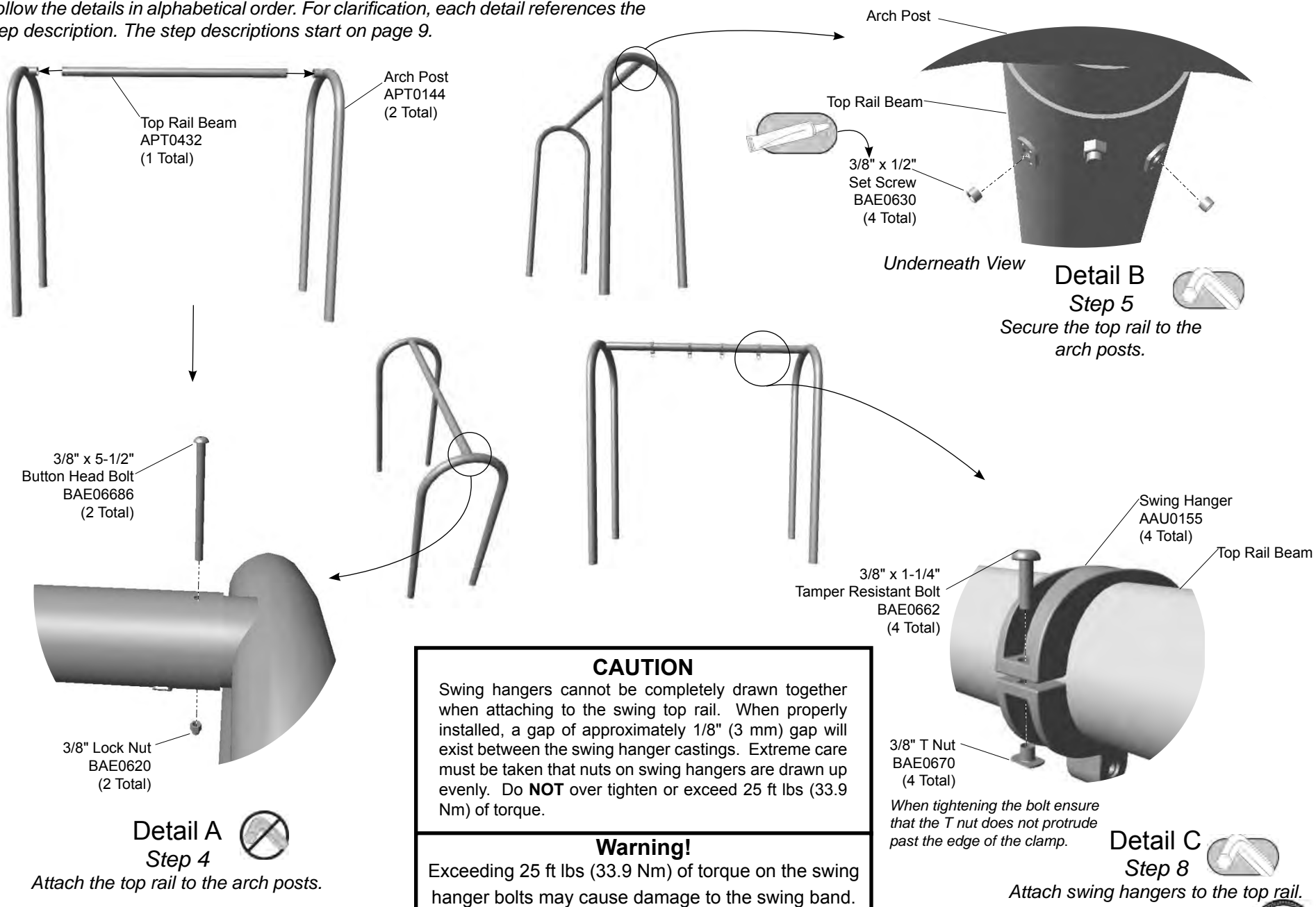


Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

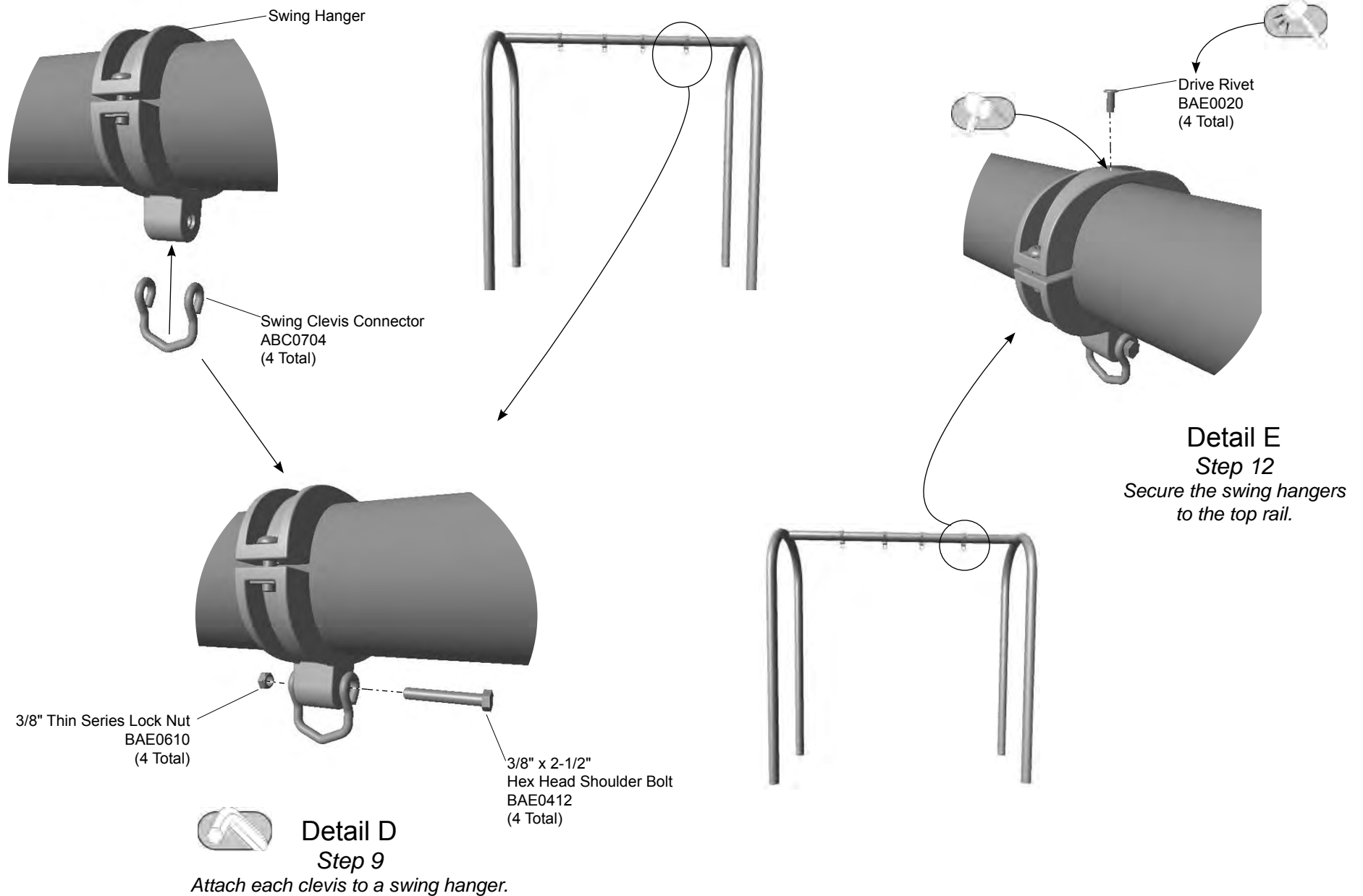


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133-1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1



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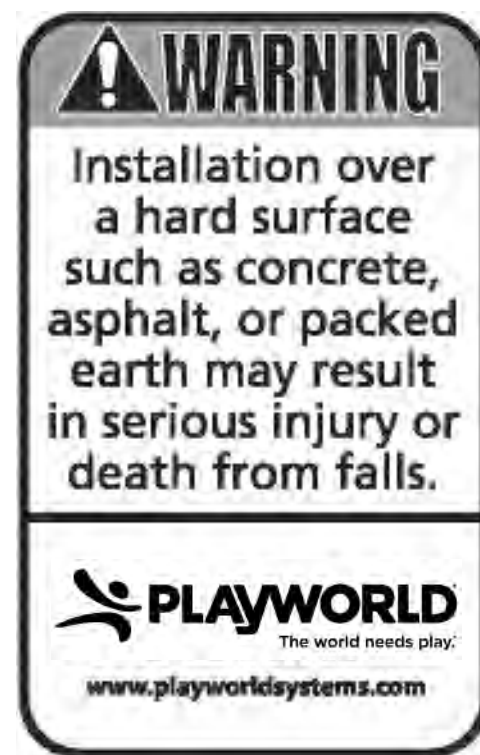


Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.



The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

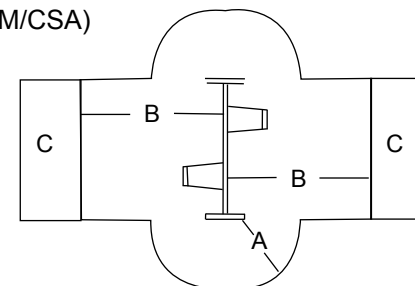
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

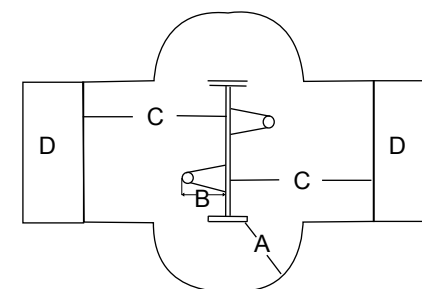
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

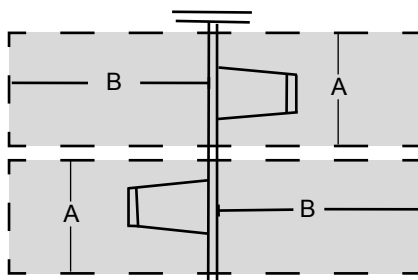
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

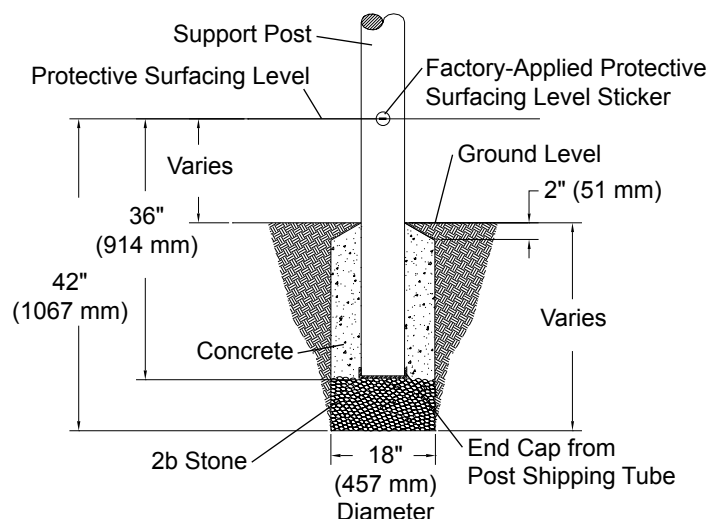
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

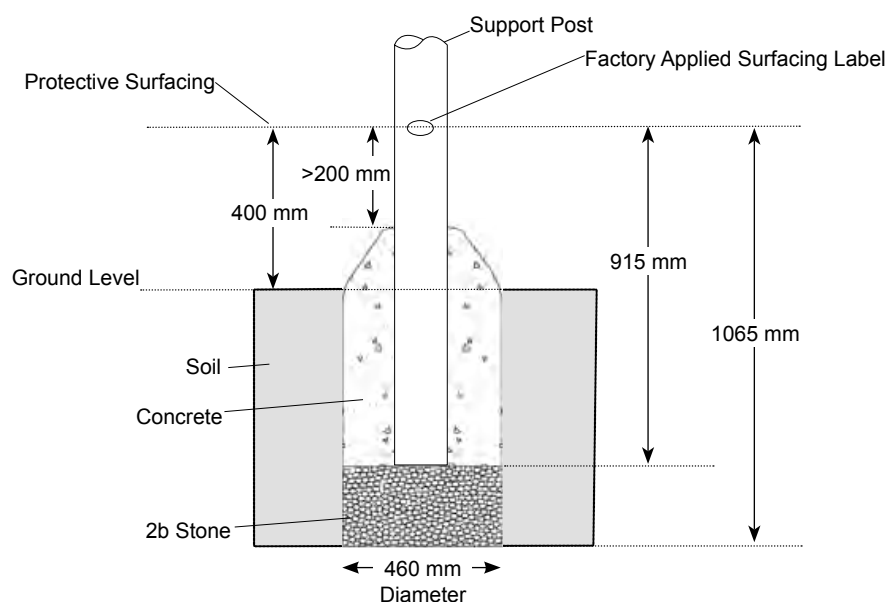
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



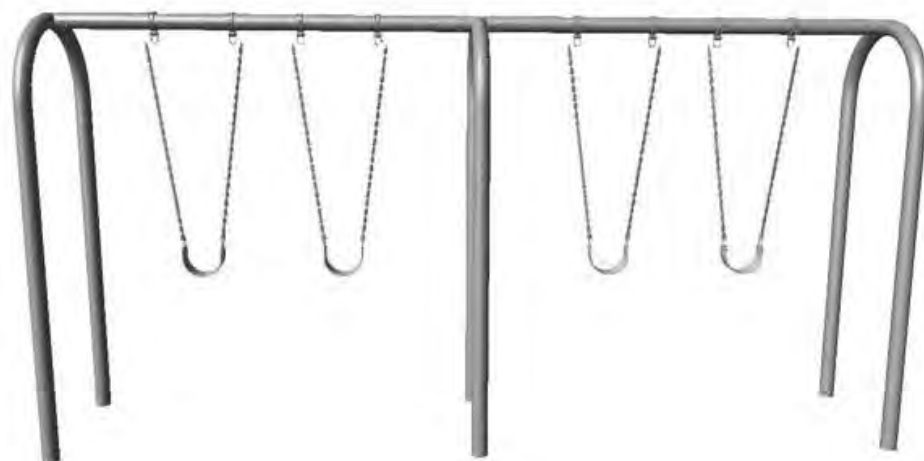
Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Assembly View

Installation Instructions

Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 2 man-hours
Concrete Required: 0.24 cubic yard (0,18 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

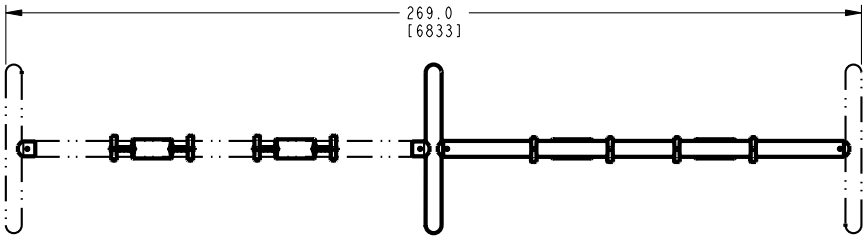
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

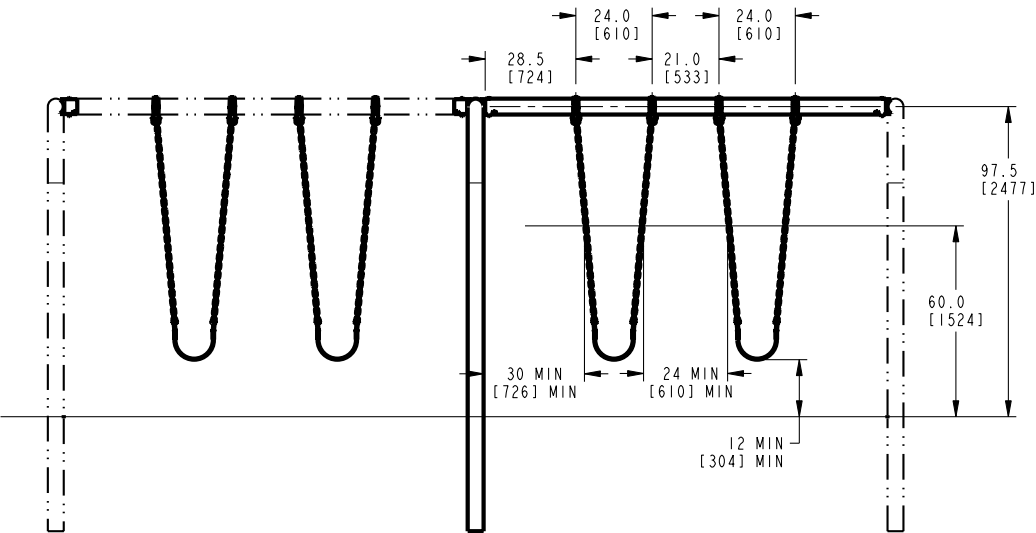
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

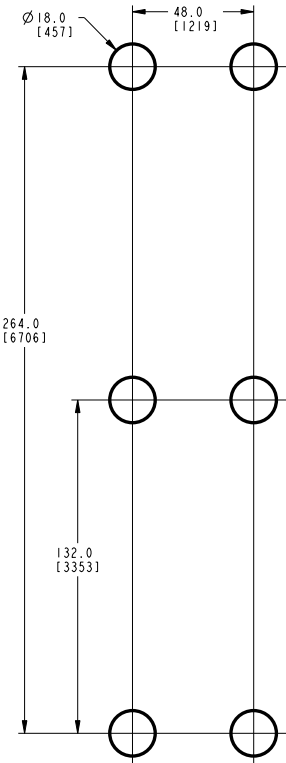
Top View



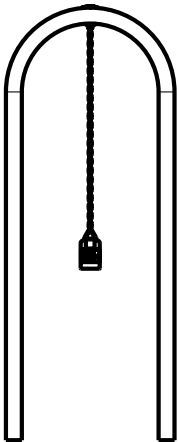
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

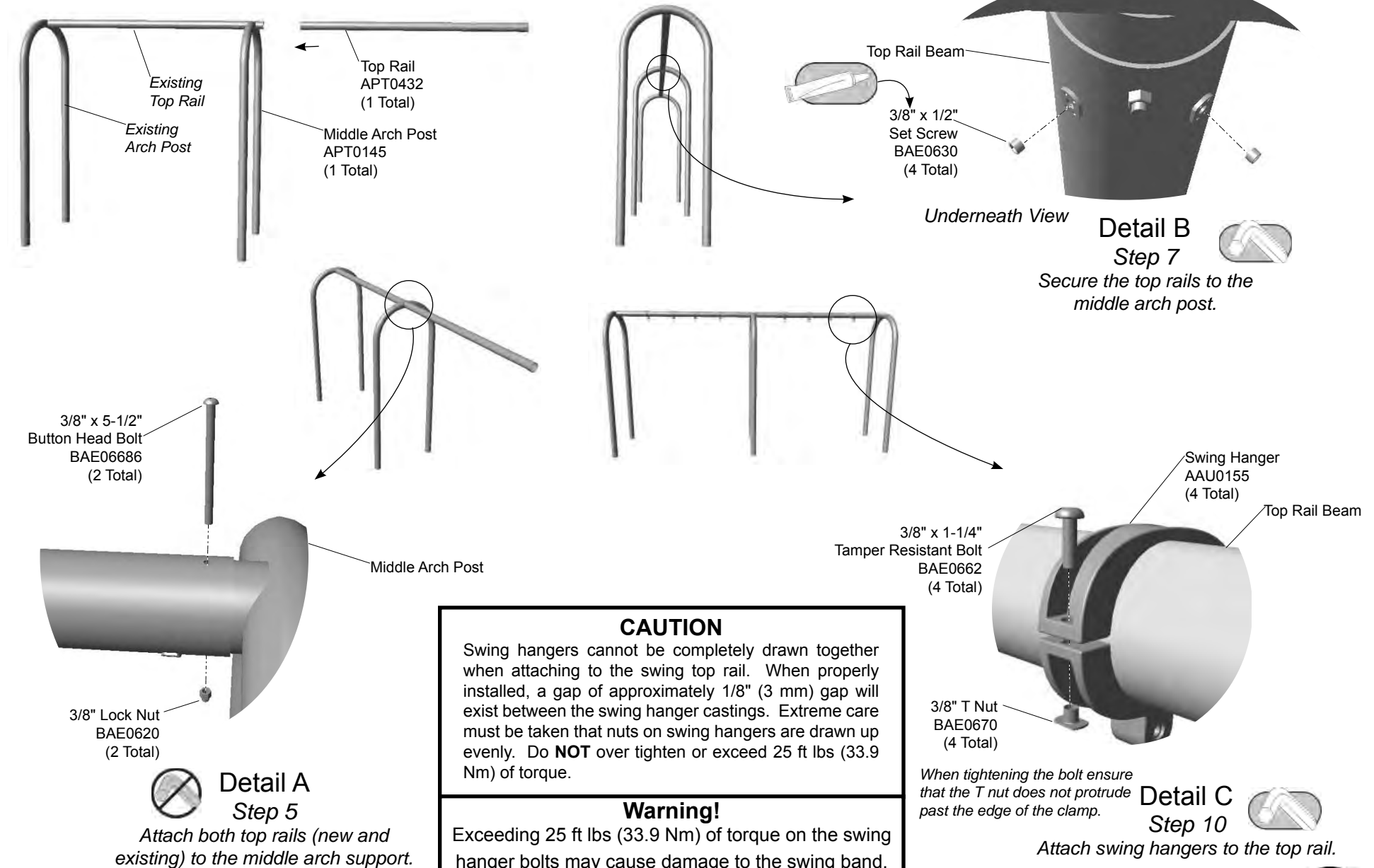


Footing Diagram

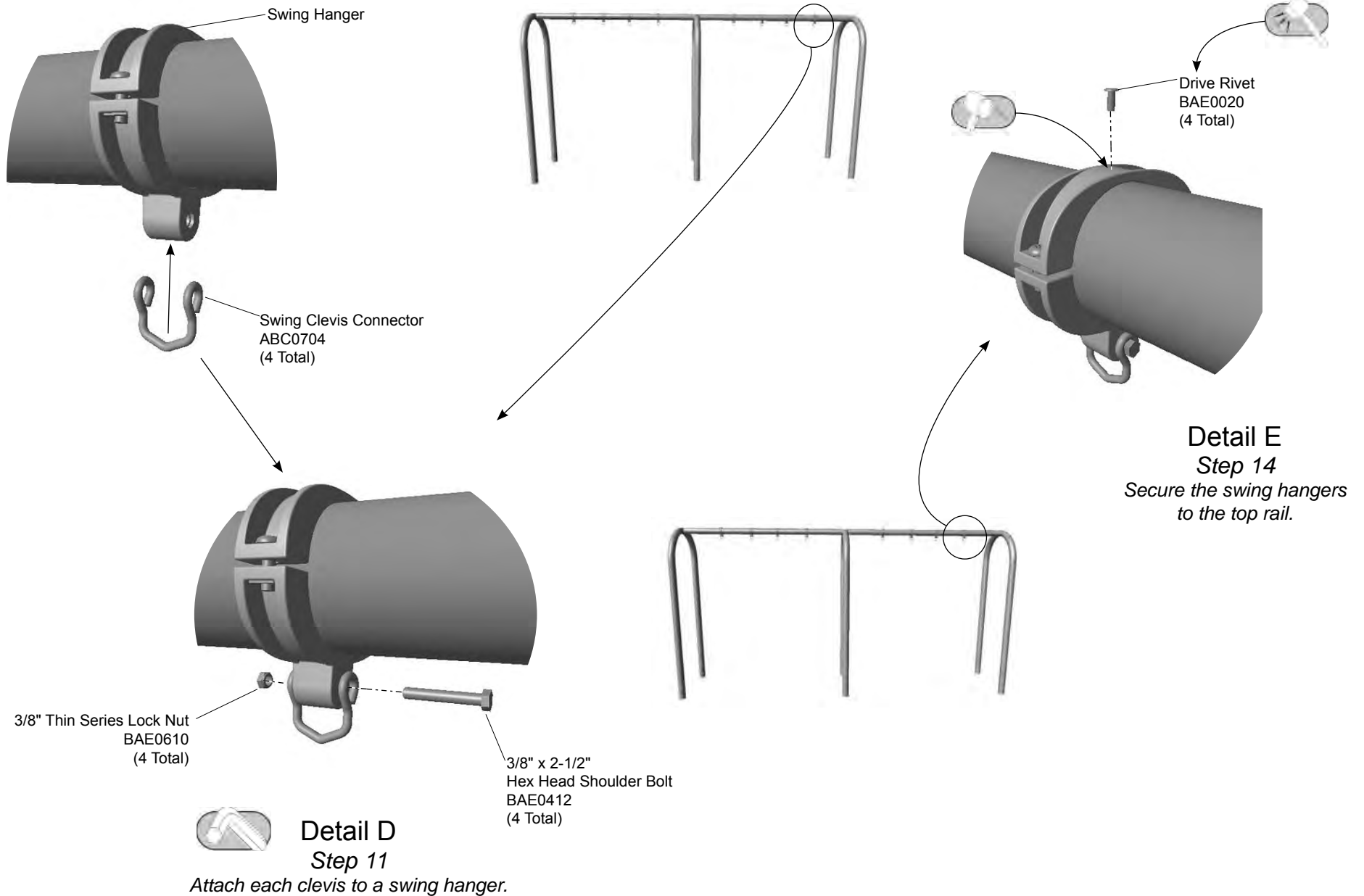


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - S.S.	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - S.S.	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

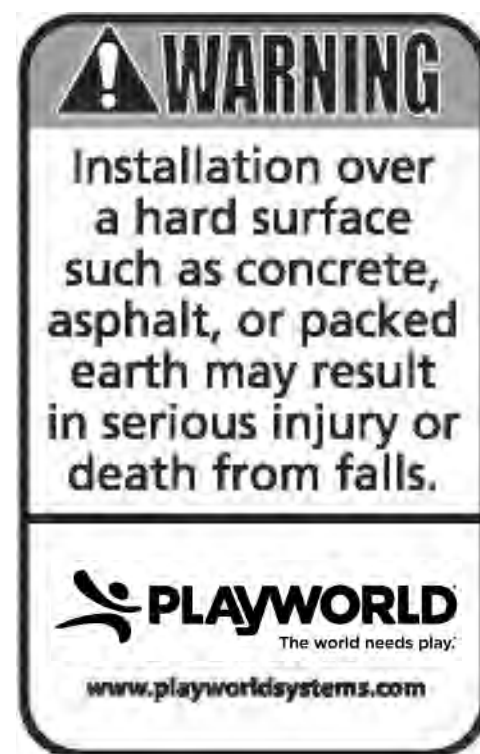


Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
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Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

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For Customer Service, Call
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1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__



COUNTRY GROVE PARK

MADISON, WI

5 TO 12 YEAR OLDS OPTION #1



(800) 775-8937 Main
(608) 423-7655 Fax
809 Bluebird Pass
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



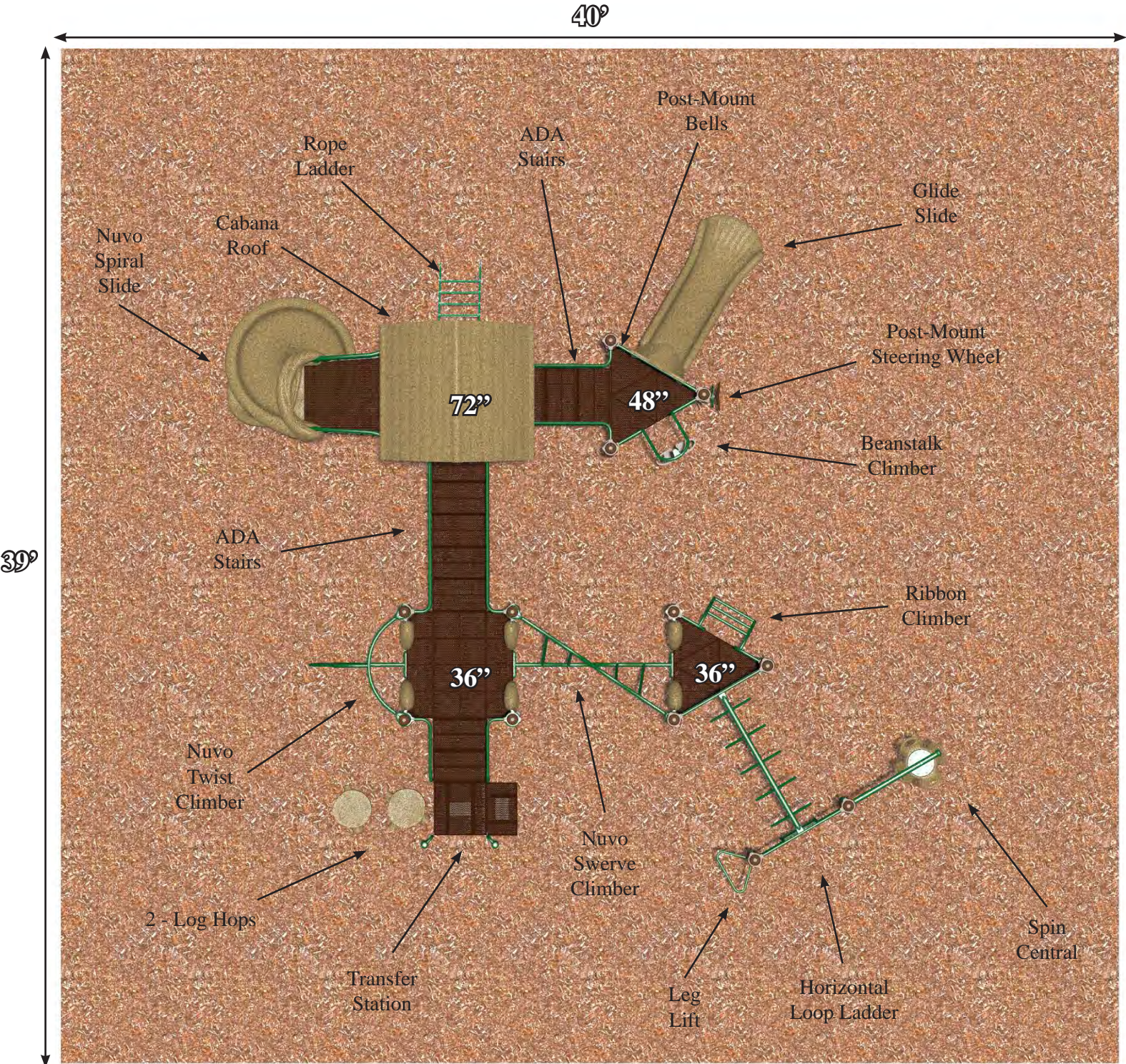
VIEW A



VIEW B

COUNTRY GROVE PARK

MADISON, WI 5 TO 12 YEAR OLDS OPTION #1



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(608) 423-7655 Fax
809 Bluebird Pass
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW120616-1

Use Zone: 40' x 39'

of Users: 38

of Active Play Events: 13

Age: 5 to 12

Colors Shown:



Chocolate



Brownstone



Green





Assembly View *(representative model)*

Installation Instructions

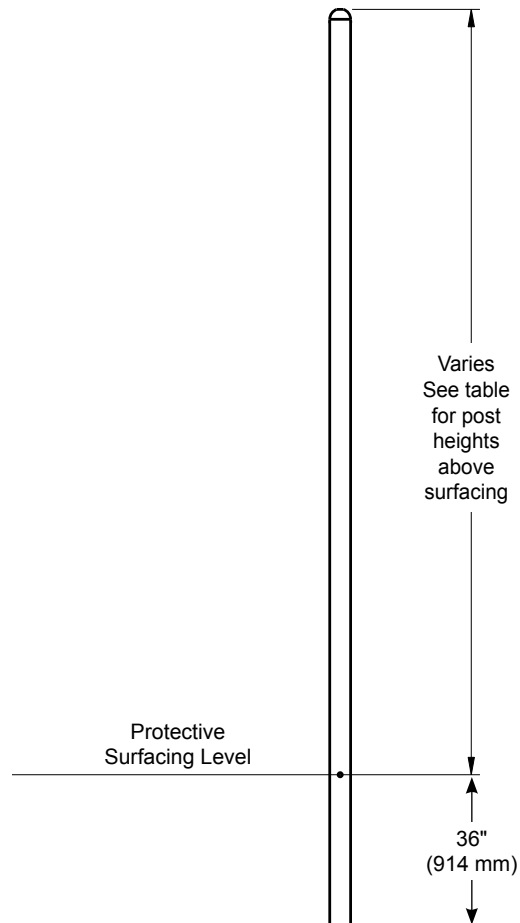
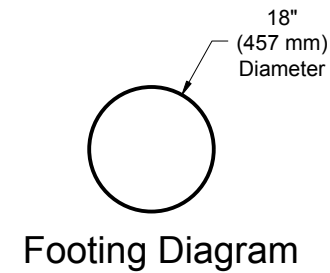
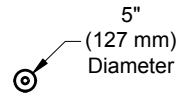
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
ZZPM0036A	144" (3658 mm)	108" (2743 mm)
ZZPM0046A	156" (3962 mm)	120" (3048 mm)
ZZPM0056A	168" (4267 mm)	132" (3353 mm)
ZZPM0066A	180" (4623 mm)	144" (3658 mm)
ZZPM0078A	205" (5207 mm)	169" (4293 mm)
ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

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Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

Installation Instructions

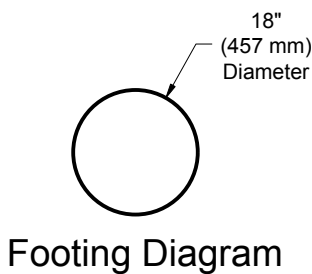
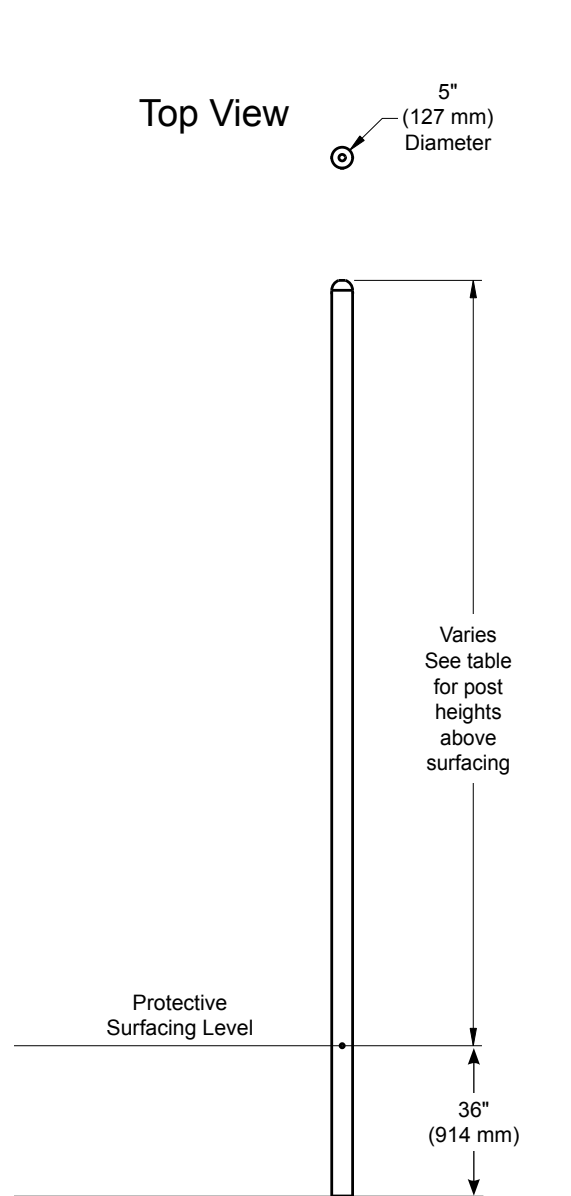
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)



Installation Instructions



Model	Post Height	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
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ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

Installation Instructions

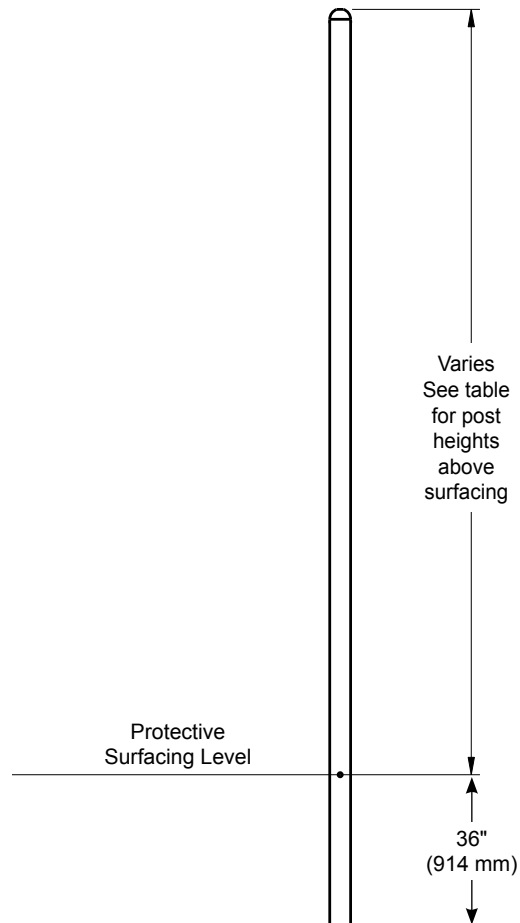
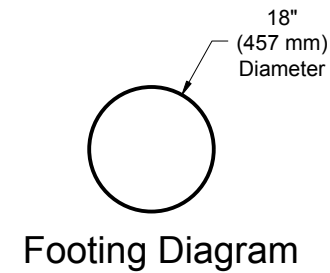
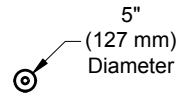
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
ZZPM0036A	144" (3658 mm)	108" (2743 mm)
ZZPM0046A	156" (3962 mm)	120" (3048 mm)
ZZPM0056A	168" (4267 mm)	132" (3353 mm)
ZZPM0066A	180" (4623 mm)	144" (3658 mm)
ZZPM0078A	205" (5207 mm)	169" (4293 mm)
ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 mm)

Installation Instructions

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Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

Installation Instructions

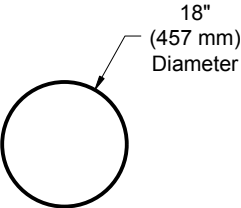
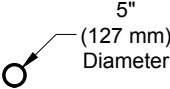
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Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

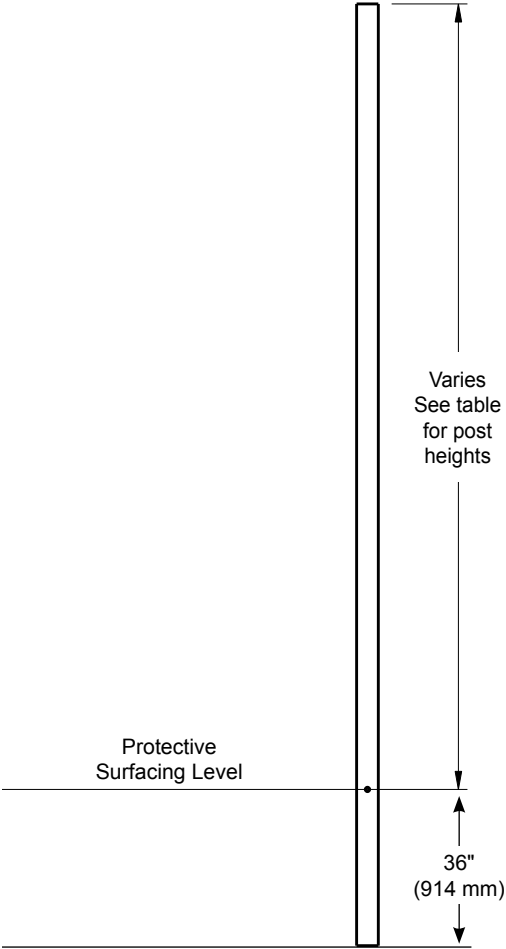
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0017A	120" (3048 mm)	84" (2134 mm)
ZZPM0027A	132" (3353 mm)	96" (2438 mm)
ZZPM0037A	144" (3658 mm)	108" (2743 mm)
ZZPM0047A	156" (3962 mm)	120" (3048 mm)
ZZPM0057A	168" (4267 mm)	132" (3353 mm)
ZZPM0067A	180" (4572 mm)	144" (3658 mm)
ZZPM0079A	205" (5207 mm)	169" (4293 mm)
ZZPM0129A	192" (4877 mm)	156" (3962 mm)
ZZPM0136A	96" (2438 mm)	60" (1524 mm)
ZZPM0138A	108" (2743 mm)	72" (1829 mm)
ZZPM0267A	217" (5512 mm)	181" (4597 mm)
ZZPM0269A	229" (5817 mm)	193" (4902 mm)



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Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



Installation Instructions

Playmakers® PM0616 and PM0629

Square and Long Coated Perforated Decks



ZZPM0616
Square Deck




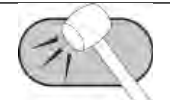



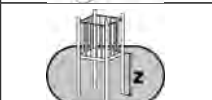


ZZPM0629
Long Deck

Assembly View

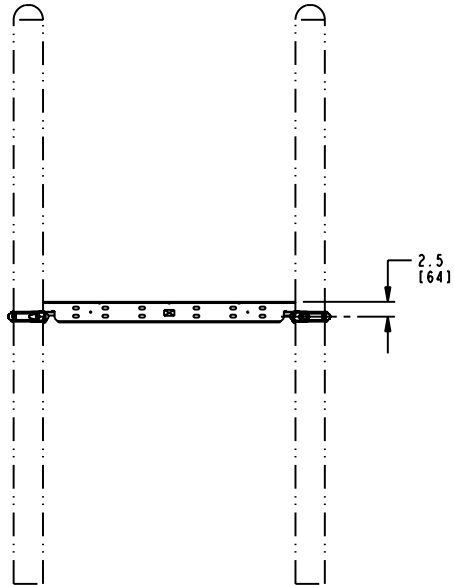
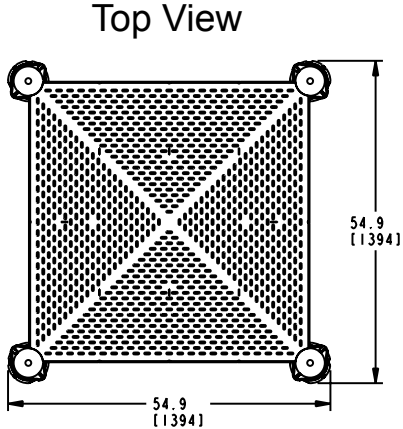
Installation Preparation

Recommended Crew (PM0616):..... Two (2) adults
 Recommended Crew (PM0629):..... Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

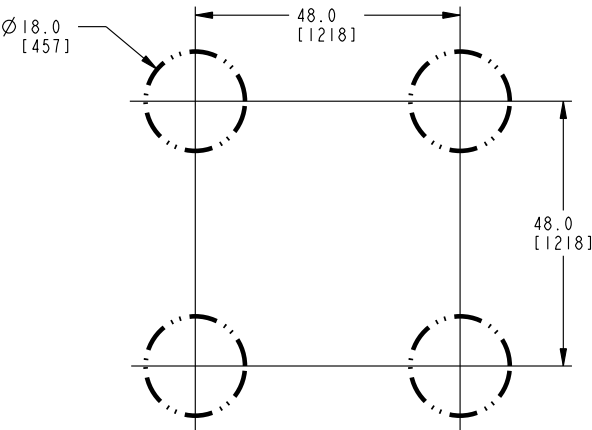
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

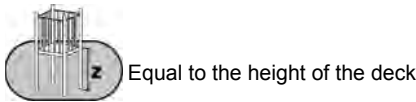
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

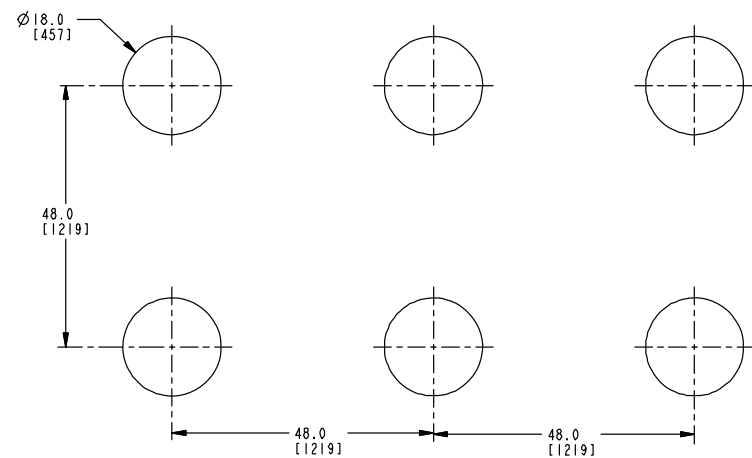
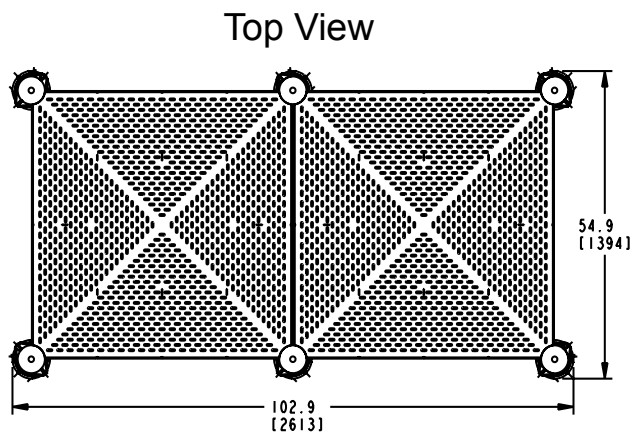


Footing Diagram

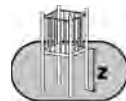
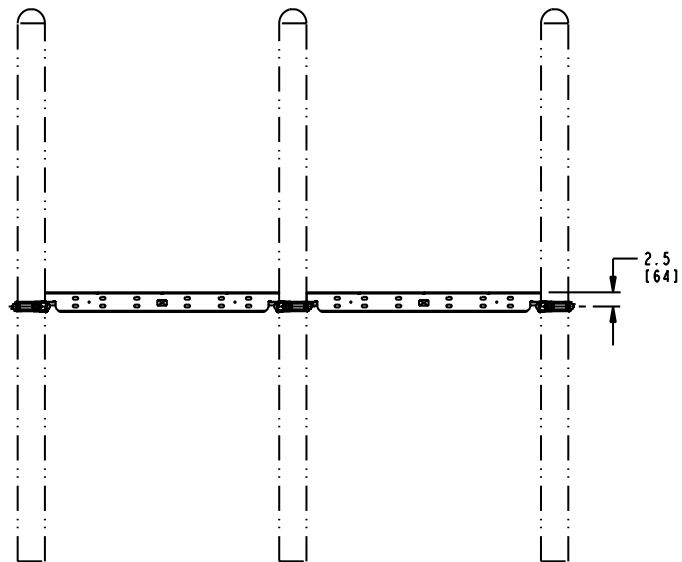


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



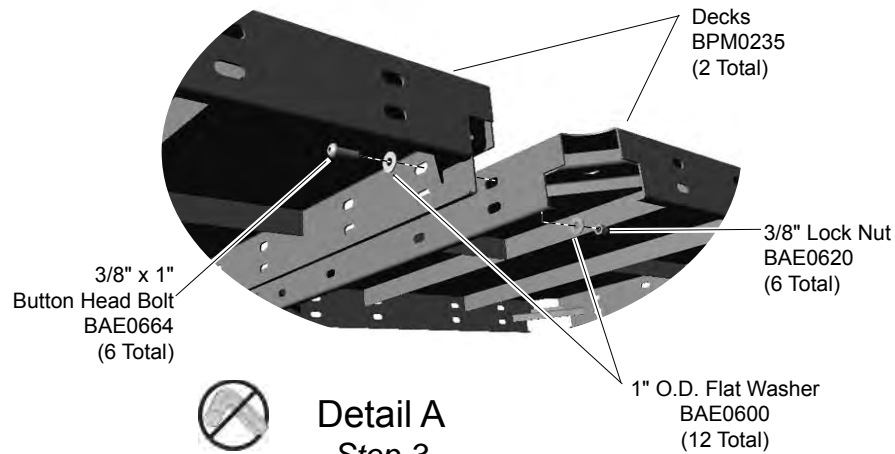
Equal to the height of the deck

Elevation View
Model PM0629

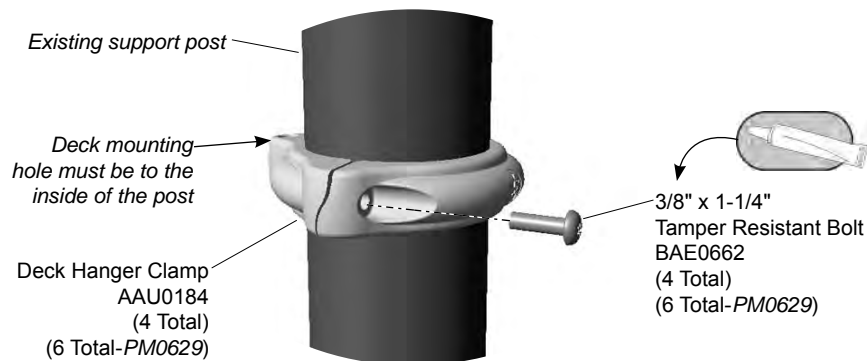


Installation Instructions

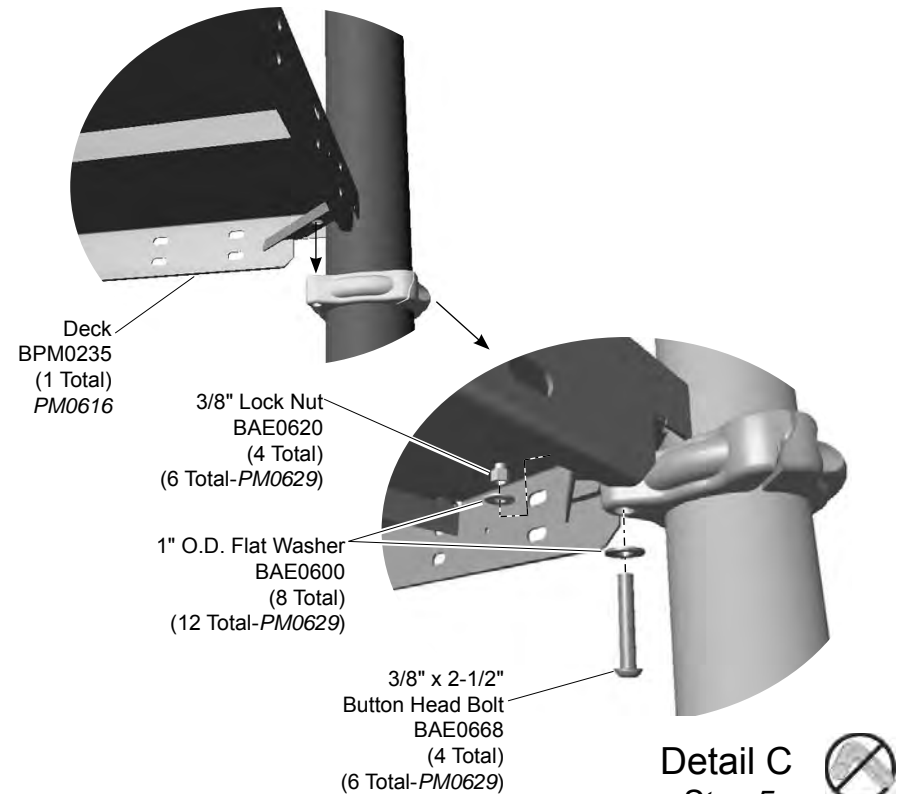
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



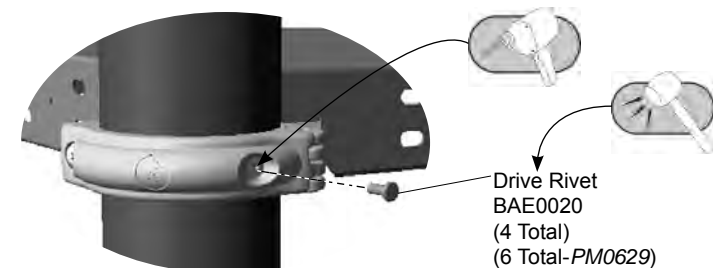
Detail A
Step 3
(Model PM0629 Only)
Attach the two decks together.



Detail B
Step 4
Attach the deck clamps to the support posts.



Detail C
Step 5
Attach the decks to the clamps.



Detail D
Step 7
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0235	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



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Installation Instructions

Playmakers® PM0617, and PM0639

Triangular and 45 Degree Tri-Deck

Coated Perforated Decks



ZZPM0617
Triangular Deck




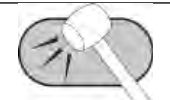



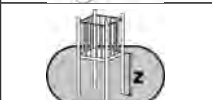


ZZPM0639
45 Degree Tri-Deck

Assembly View

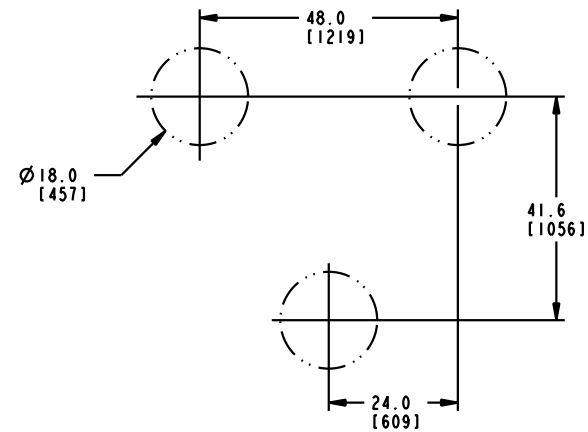
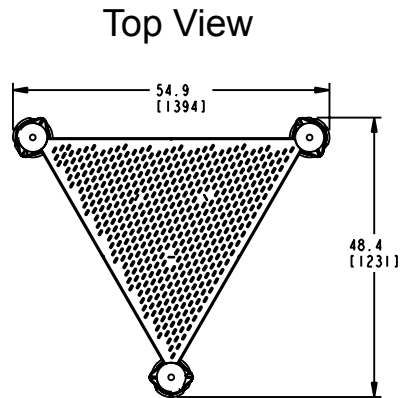
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

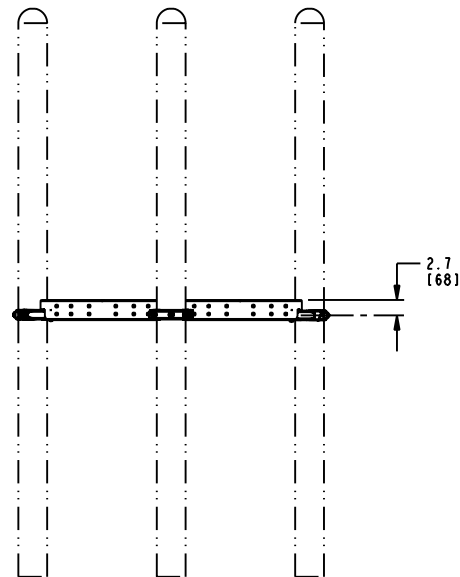
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



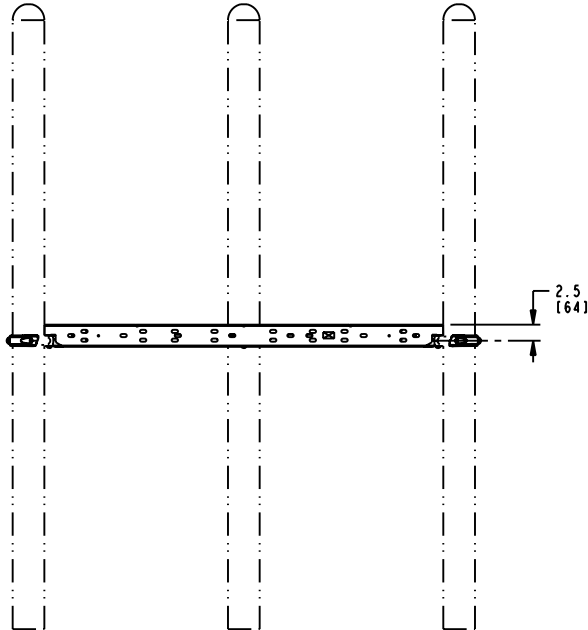
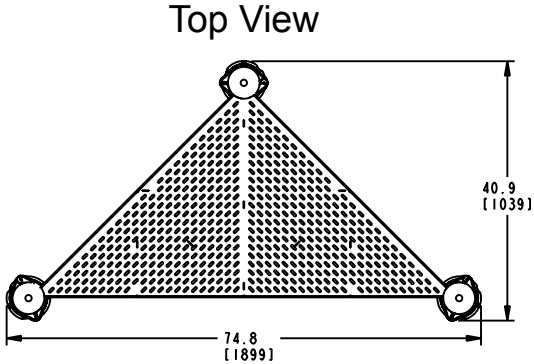
Elevation View
Model PM0617



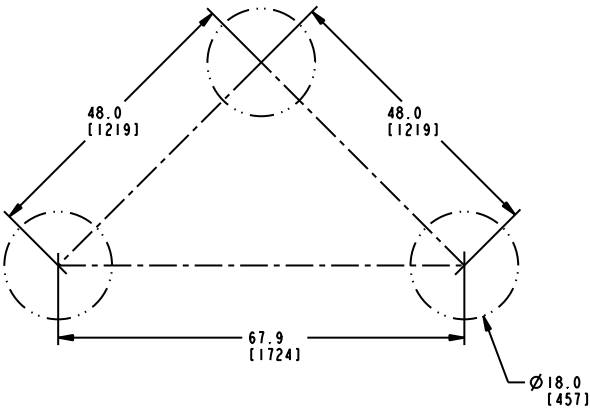
Equal to the height of the deck

Installation Instructions

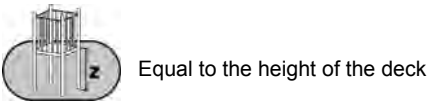
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0639

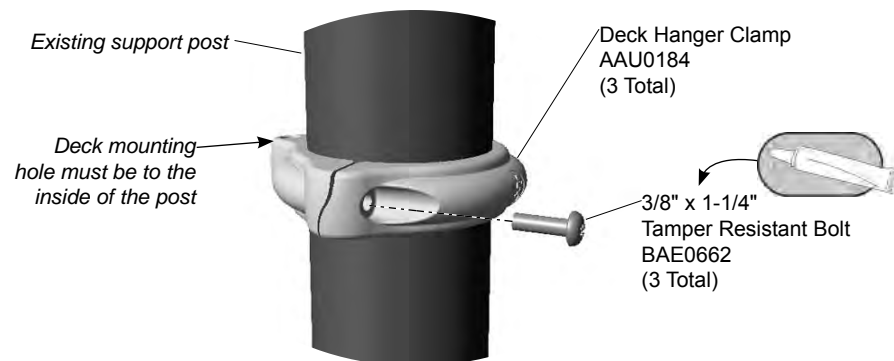


Footing Diagram



Installation Instructions

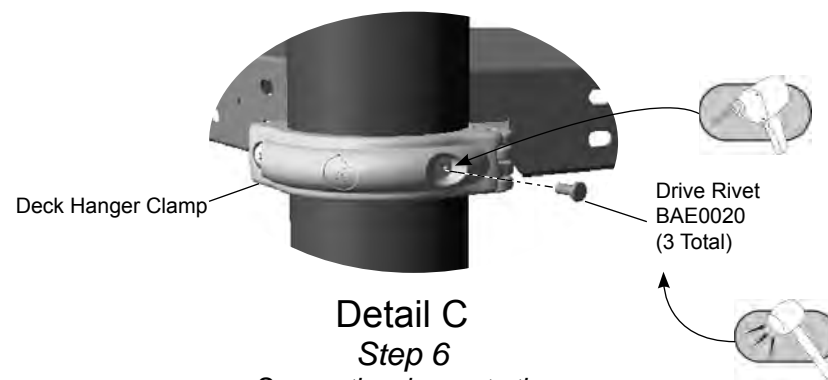
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A

Step 3

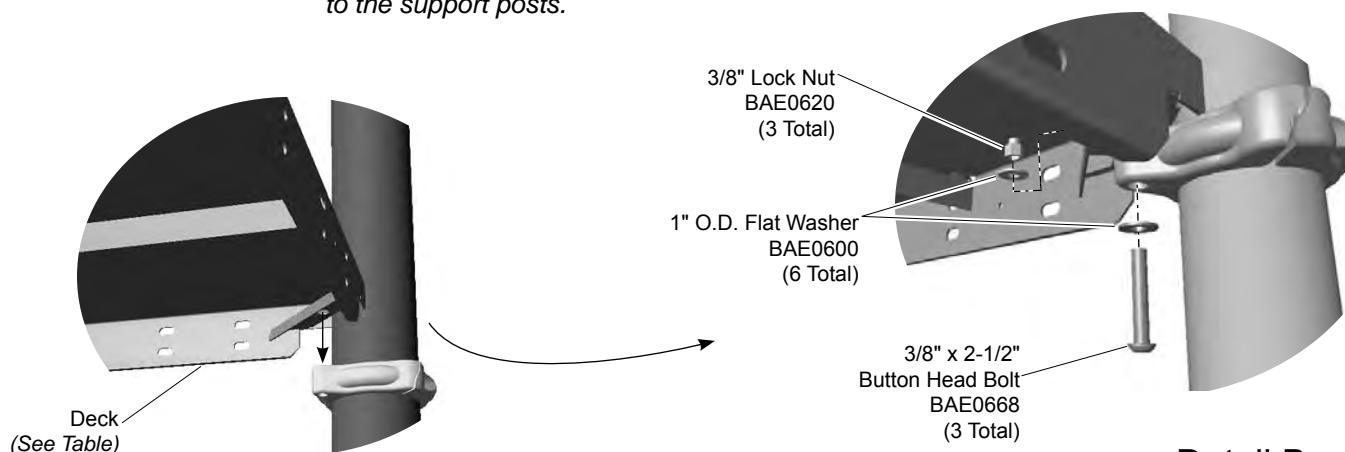
Attach the deck hanger clamps to the support posts.



Detail C

Step 6

Secure the clamps to the support posts.



Detail B

Step 4

Attach the deck to the deck hanger clamps.

Model	Deck Shape	Deck Part Number
ZZPM0617	Triangular	BPM0287
ZZPM0639	45° Tri-Deck	BPM0289

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: Attach the clamps to the support posts. See **Detail A**. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 4: Attach the deck to the clamps. See **Detail B**. Using adequate manpower, position the deck between the posts and resting on top of the clamps. Align the holes and attach as shown.

Final Details.

Step 5: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



PM0617 - TRIANGULAR COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0287	PLATFORM - PM TRIANGULAR PERF	1

PM0639 - 45 DEGREE TRI-DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	3
BAE0600	WASHER - 1" O.D. FLAT	6
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	3
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	3
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	3
BPM0289	PLATFORM - PM 45 DEG TRI DECK	1



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Assembly View (representative model)

Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S

36 in. (914 mm) Transfer Station and
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (In-Ground): 3 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.09 cubic yard (0,07 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

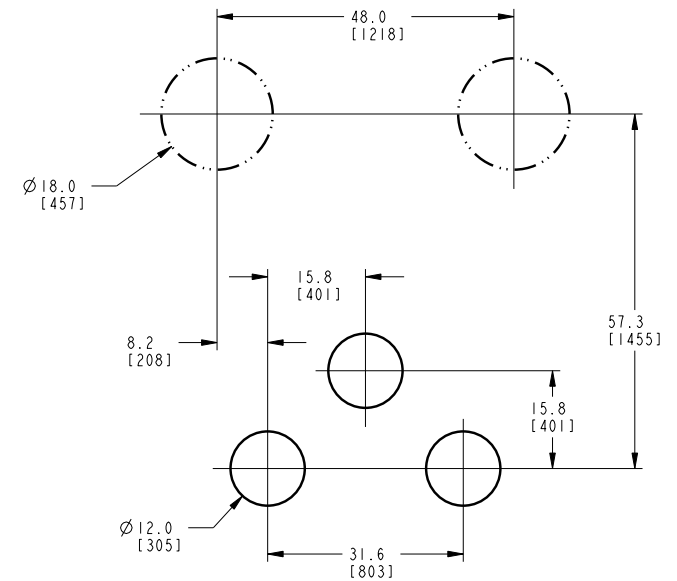
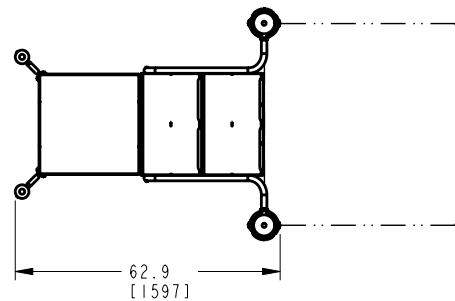
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

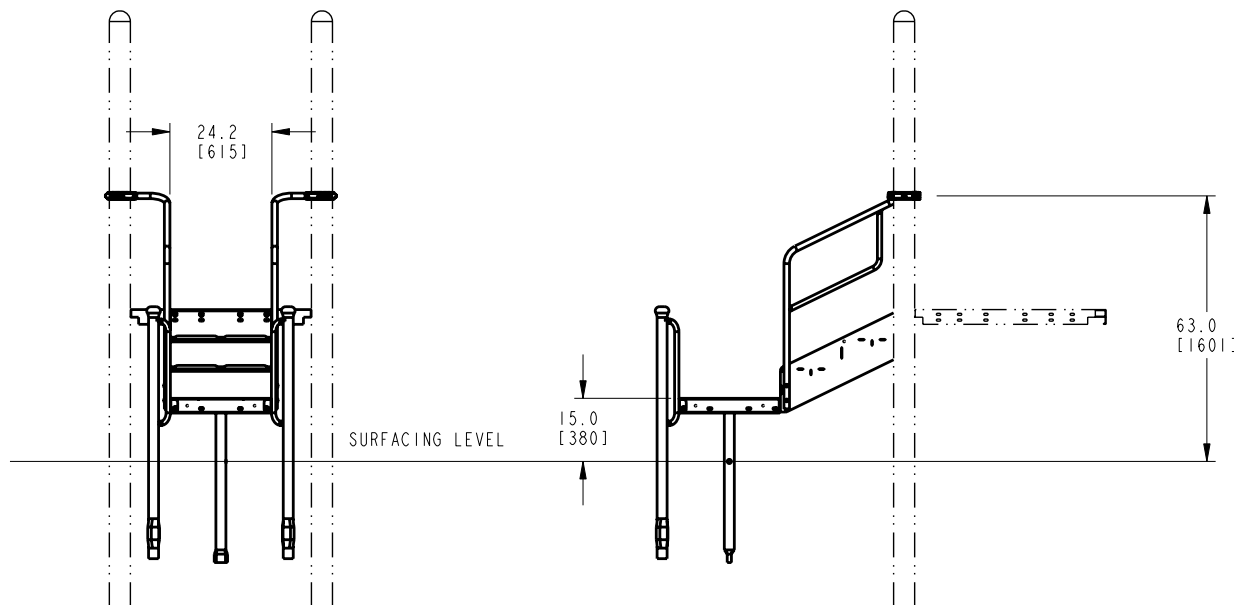
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram



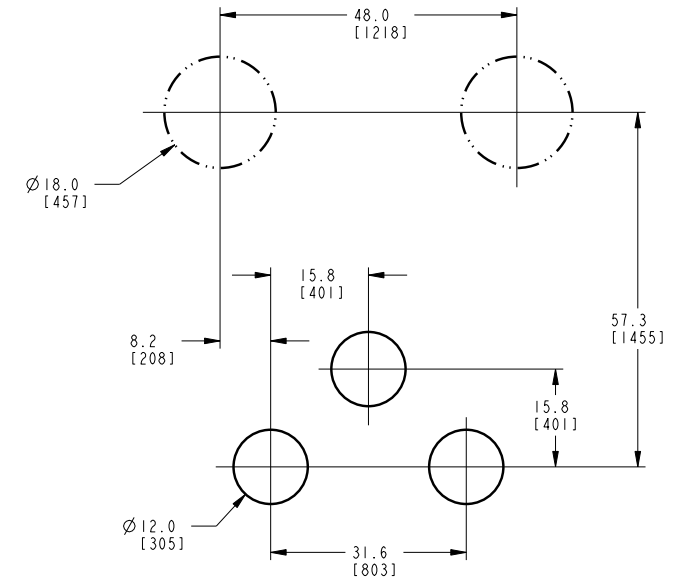
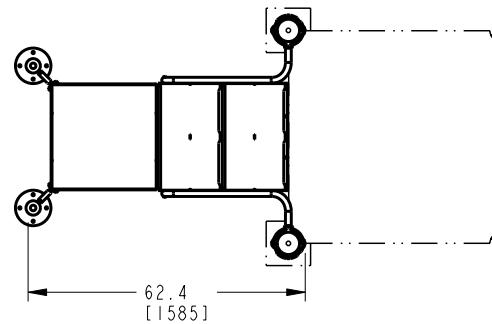
Elevation View
PM2006



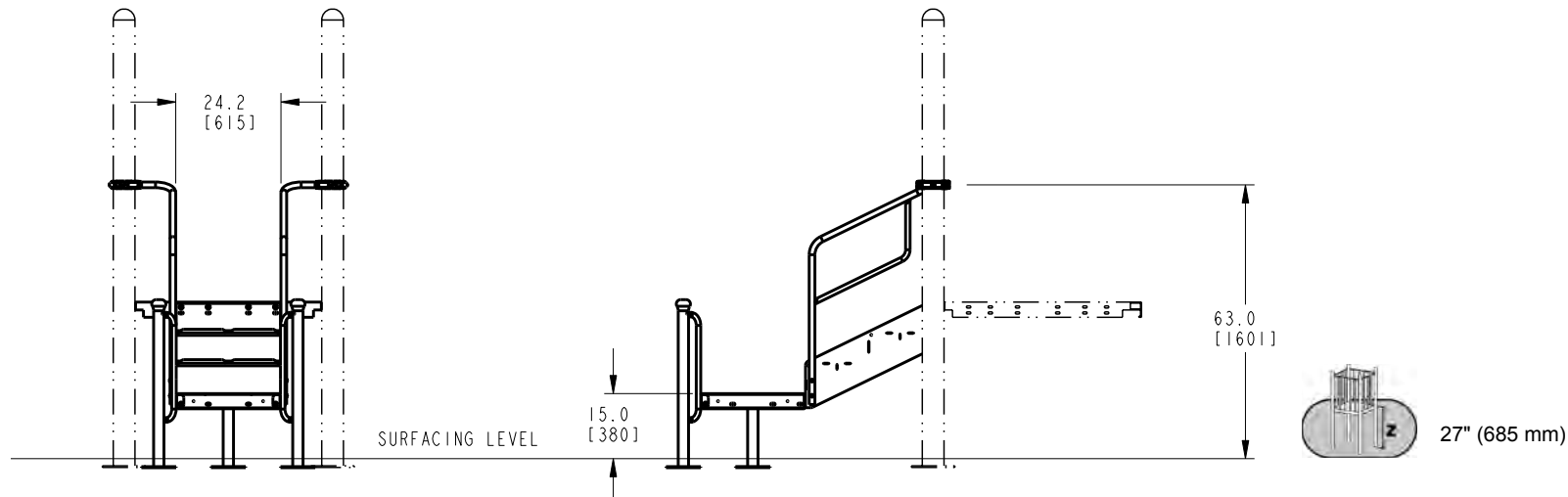
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram

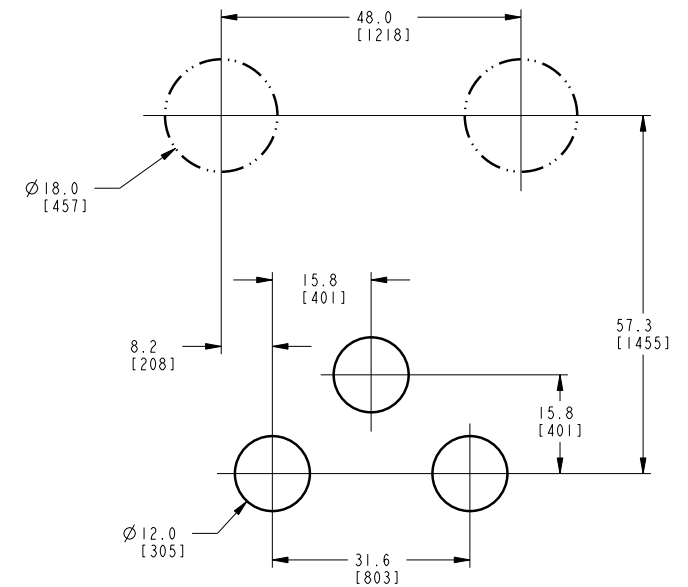
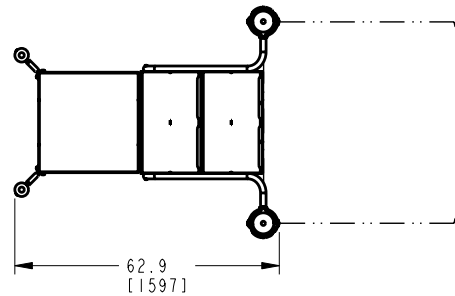


Elevation View
PM2006S

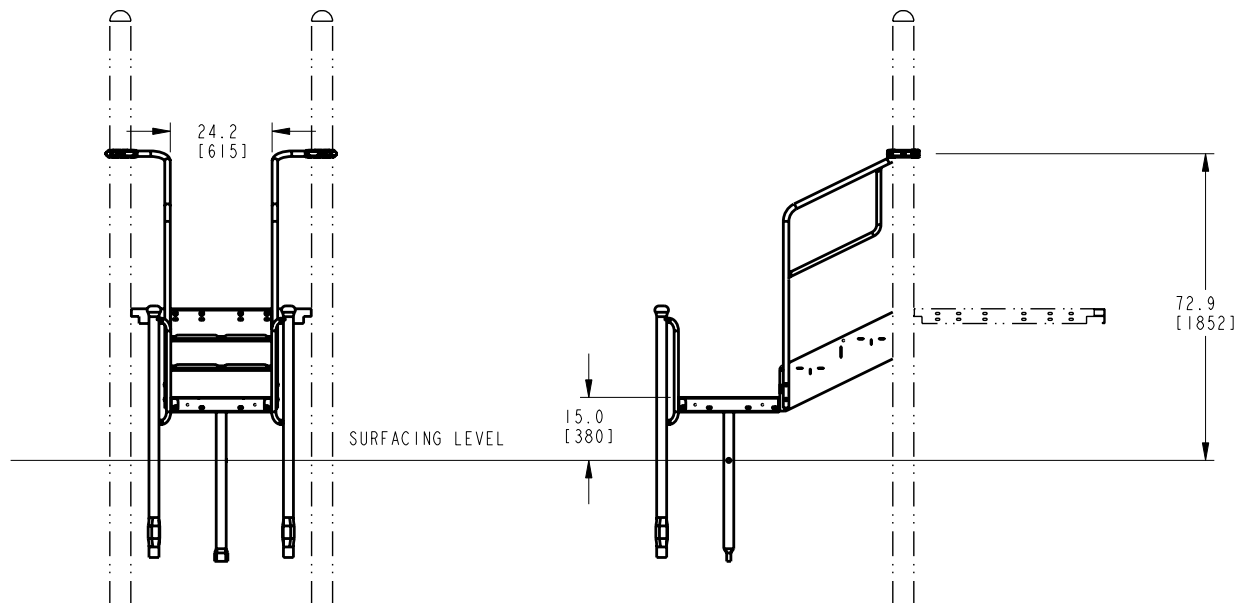
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

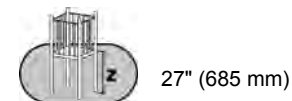
Top View



Footing Diagram



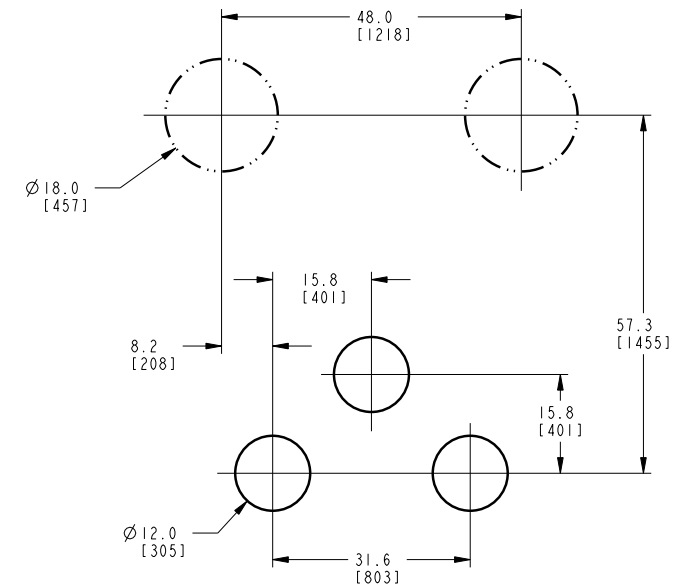
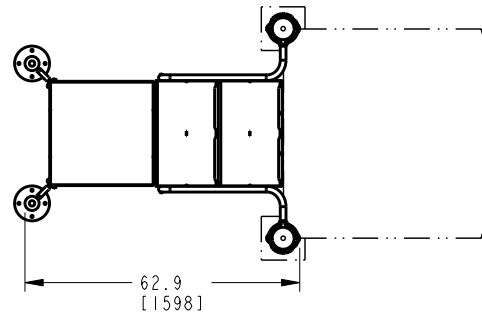
Elevation Views
PM2007



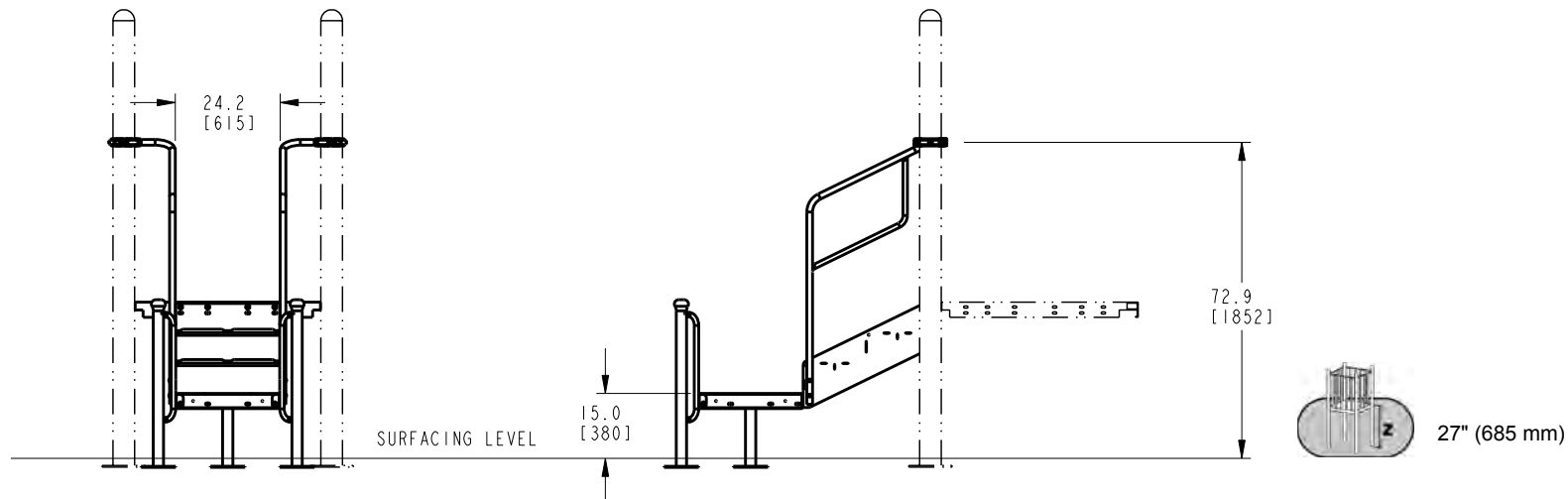
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram



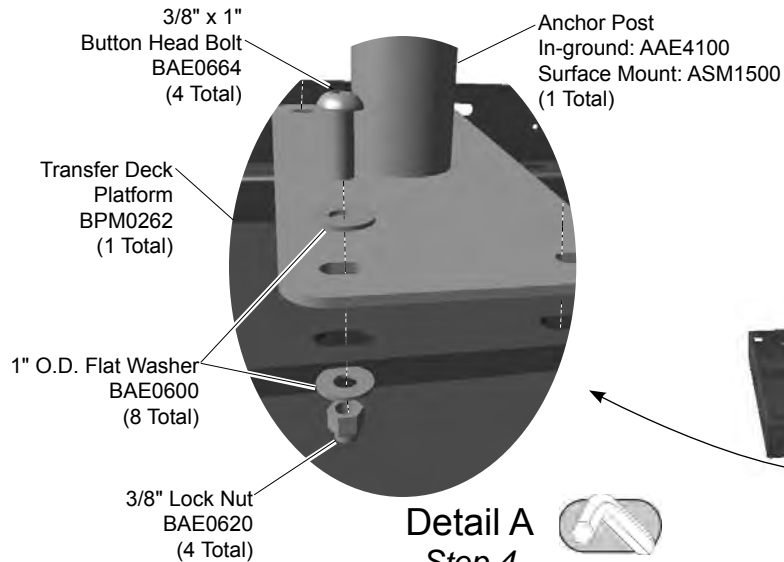
Elevation Views

PM2007S

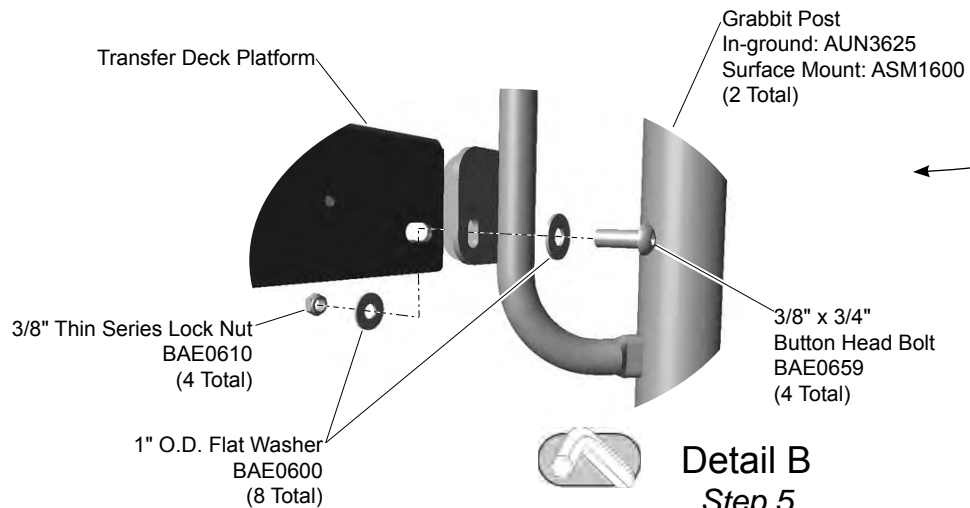


Installation Instructions

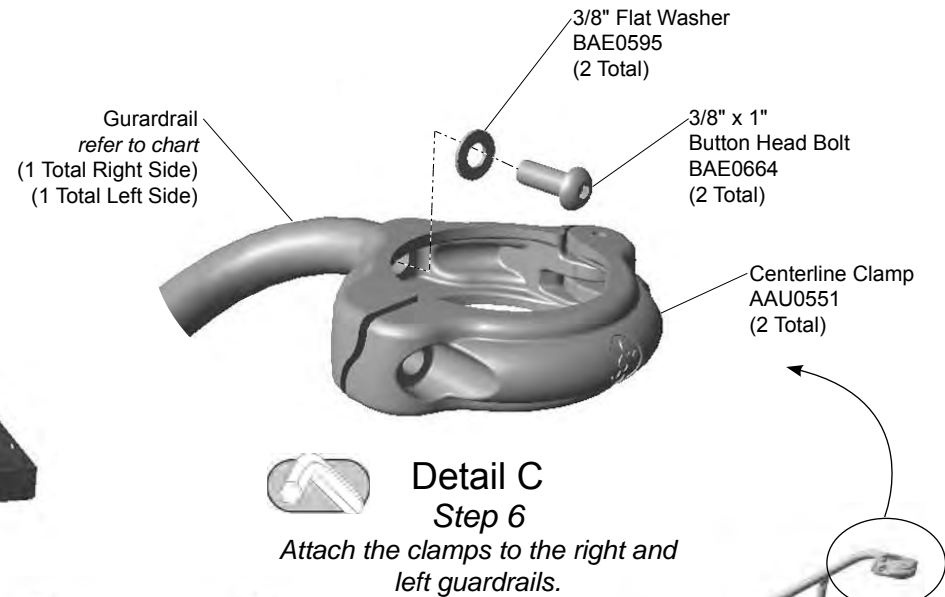
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A
Step 4
Attach the anchor post to the transfer deck.



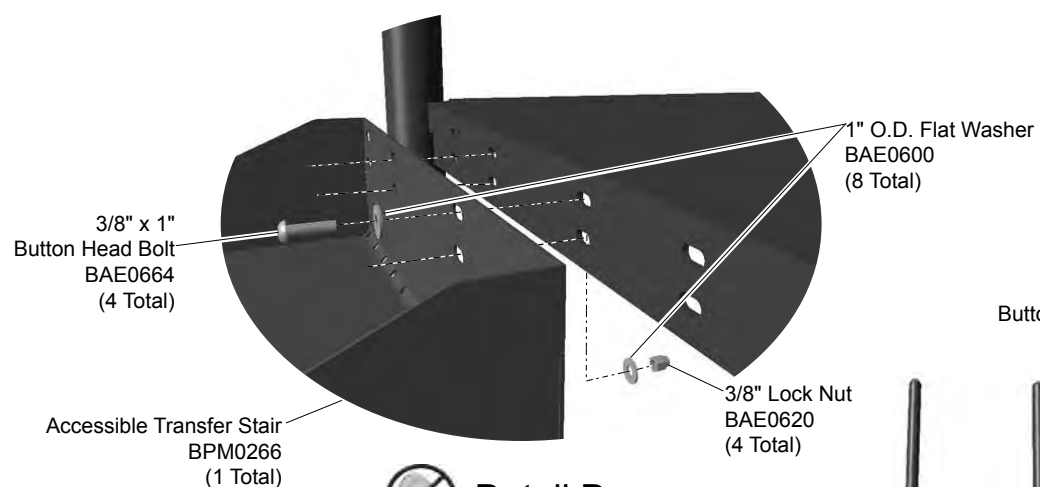
Detail B
Step 5
Attach the grabbit post to the platform.



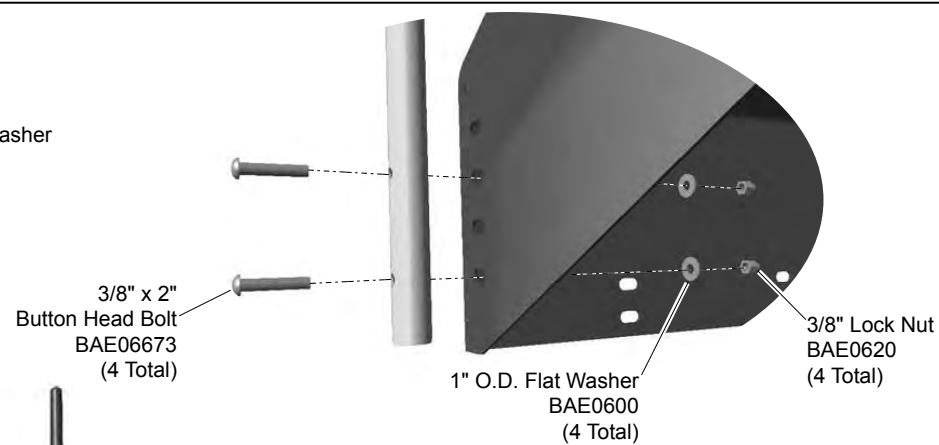
Detail C
Step 6
Attach the clamps to the right and left guardrails.

Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056

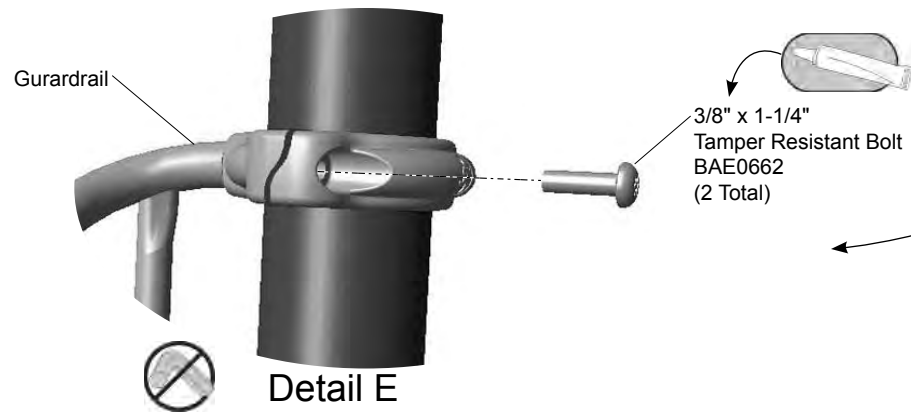
Installation Instructions



Detail D
Step 7
Attach the stair to the deck.

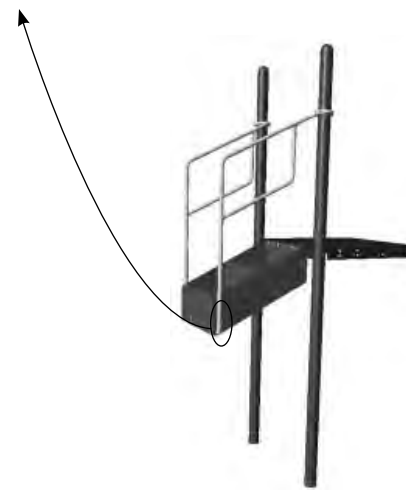
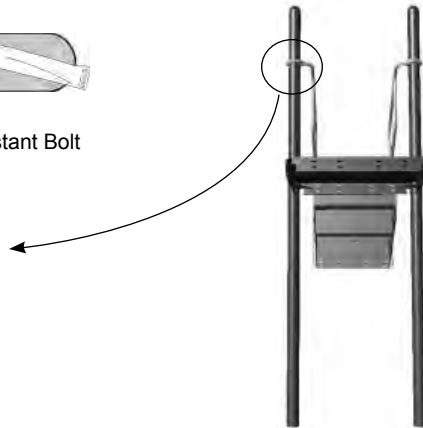


Detail F
Step 9
Attach the guardrails to the stair.

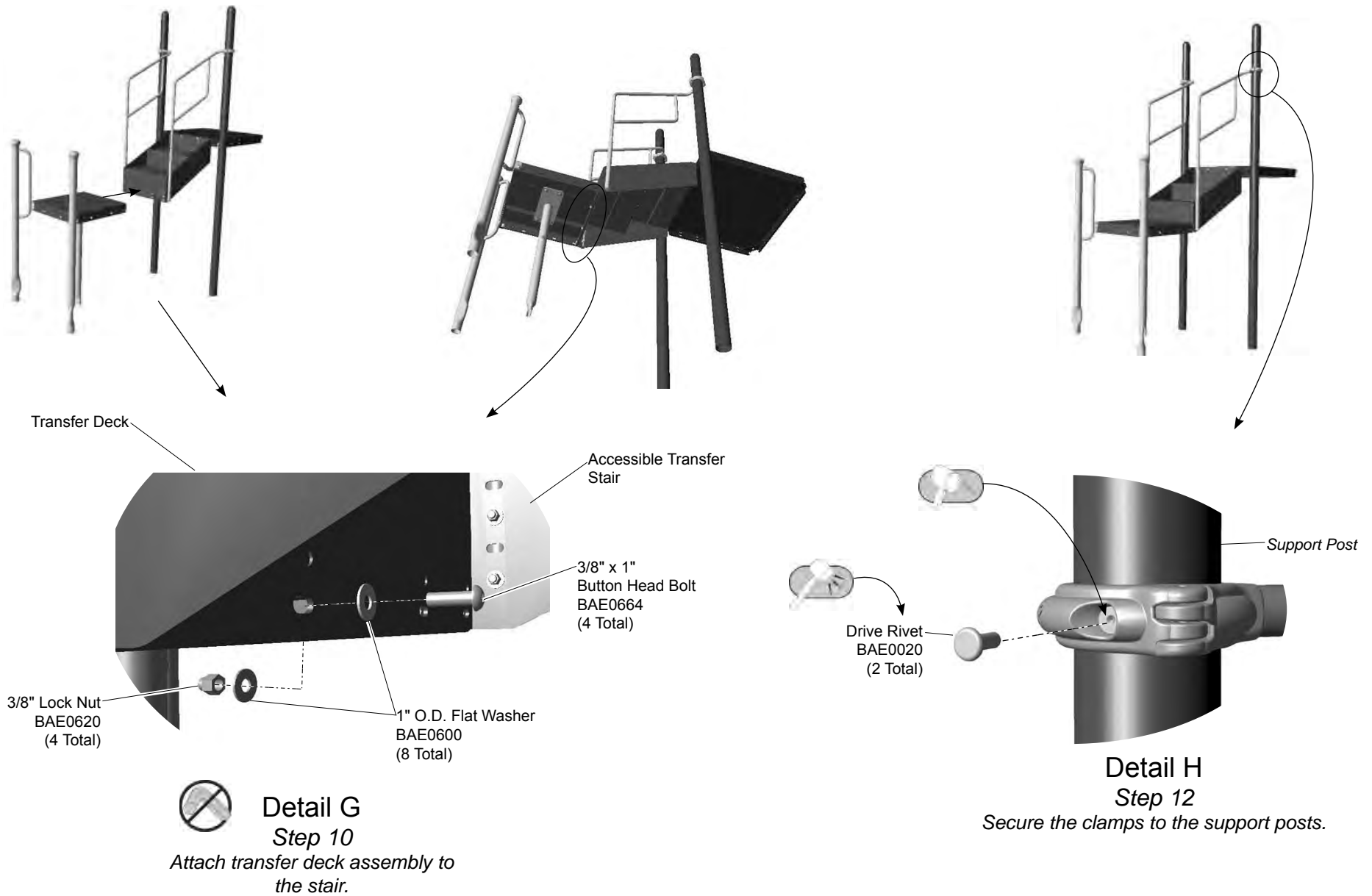


Detail E
Step 8

Attach the guardrails to the support posts.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

Attach the anchor post to the transfer deck.

Step 4: Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbits to transfer deck.

Step 5: Attach grabbits to transfer deck. See **Detail B**. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.

Step 6: Attach the clamps to guardrails. See **Detail C**. Position the end of each guardrail top rail against the neck of each clamp and attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

Step 7: Attach the stairs to existing support deck. See **Detail D**. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.

Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.

The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.

Step 9: Attach the guardrails to the stair. See **Detail F**. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

Step 10: Attach transfer deck assembly to the stair. See **Detail G**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBL COATED TRANSFER w/SLOTS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBLE COATED TRANSFER w/SLOTS	1

ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSIBLE COATED TRANSFER w/SLOTS	1



Assembly View







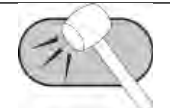
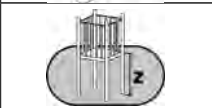
Installation Instructions

Universal Model UN2019

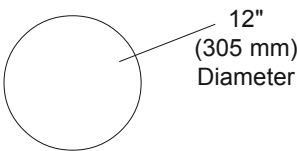
Platform Approach Step

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

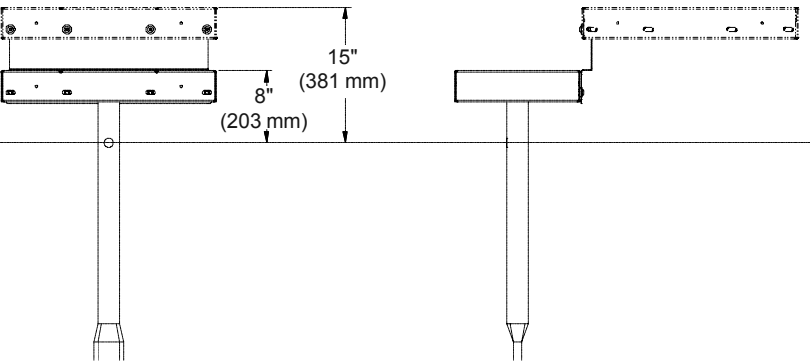
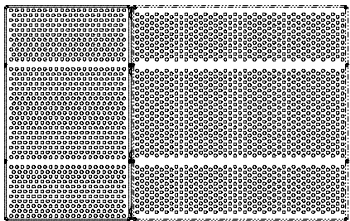
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Drill
	Dig Footing Holes
	Hammer
	Critical Fall Height

Installation Instructions

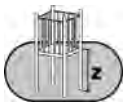


Footing Diagram

Top View



Elevation Views

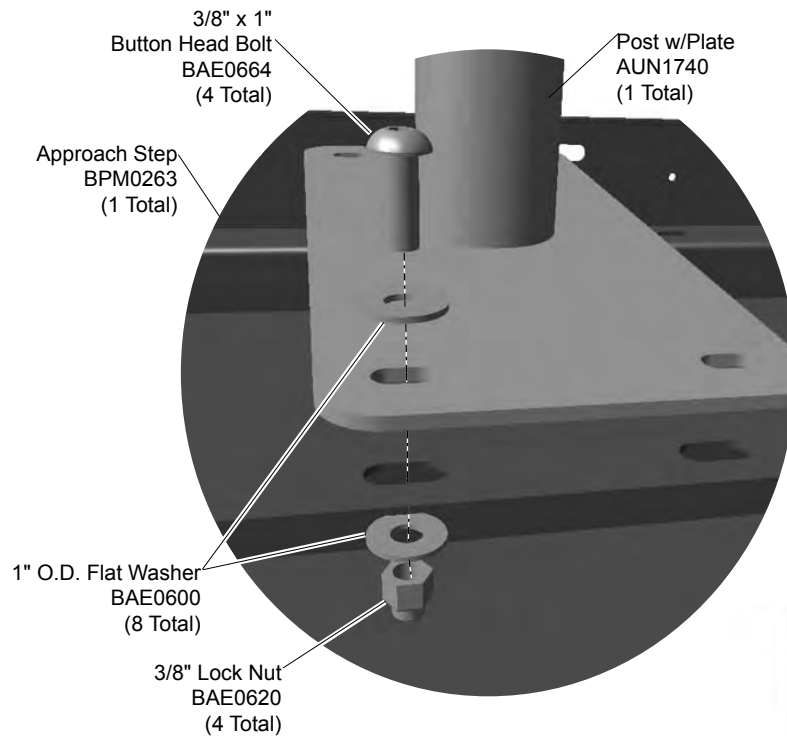


15" (381 mm)



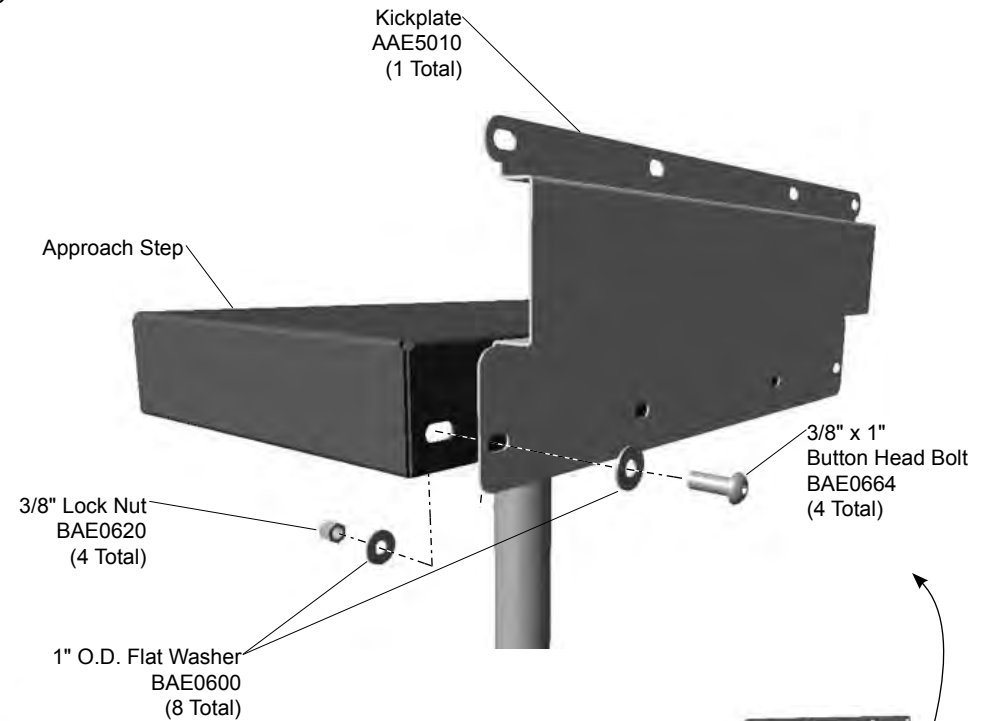
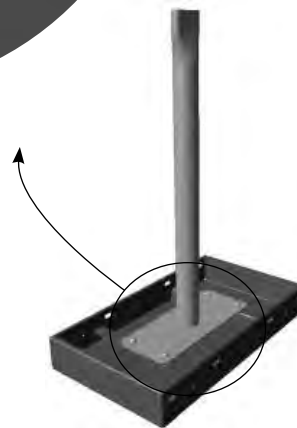
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 4

Attach the anchor post to the approach step.

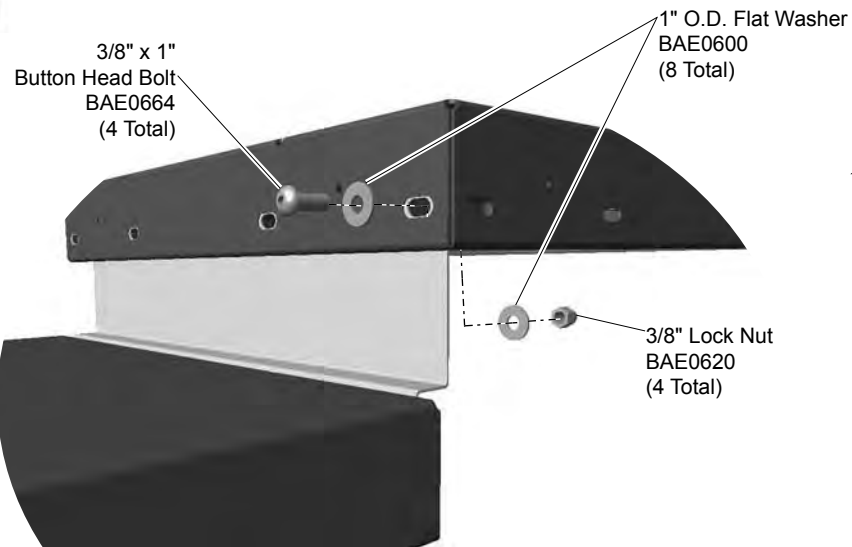
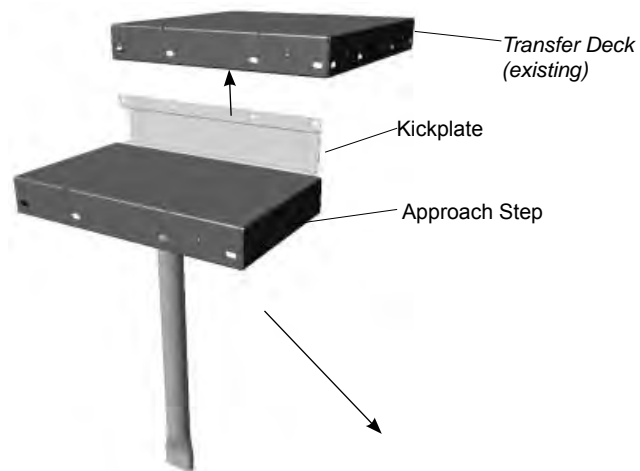


Detail B Step 5

Attach the kickplate to the approach step.



Installation Instructions



Step 6

Attach the kickplate to the transfer deck.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

Step 4: Attach the support leg to the approach step. See **Detail A**. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

Step 5: Attach the kickplate to the approach step. See **Detail B**. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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Assembly View (representative model)

Model	Deck Height
PM3128	24-30" (610-762 mm)
PM3127	36" (915 mm)
PM3126	48" (1220 mm)
PM2658	60" (1525 mm)
PM2696	72" (1830 mm)

Installation Instructions








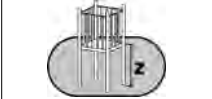
Playmakers®

Models PM2658, PM2696, PM3126-PM3128
24"-72" (610-1829 mm) Glide Slides

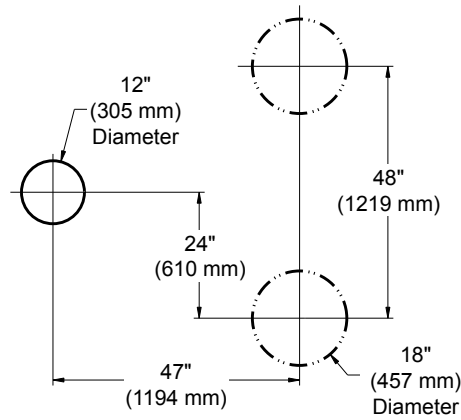
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
Concrete Required: 0.03 cubic yard (0,02 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

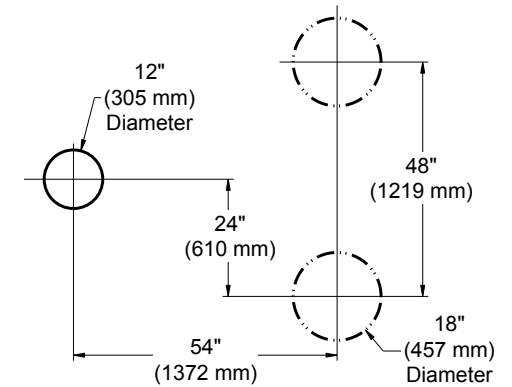
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

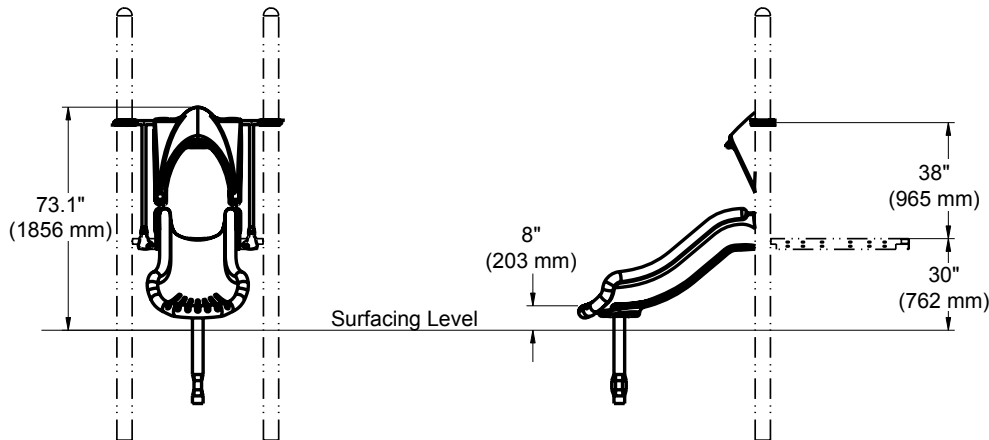
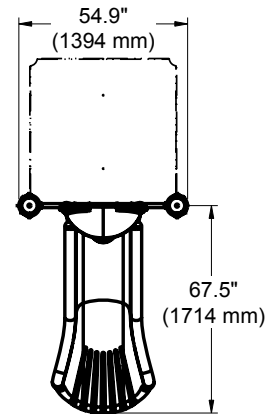
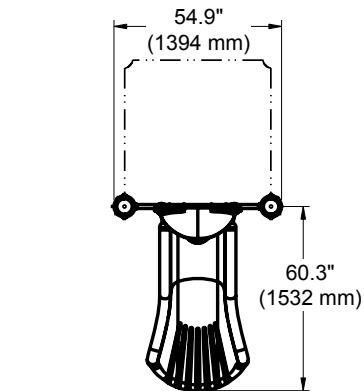


Footing Diagram

If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.

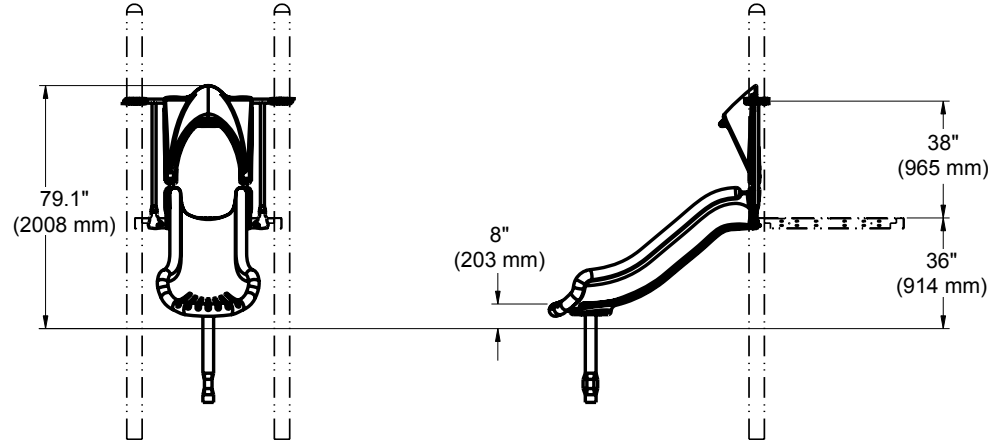


Footing Diagram



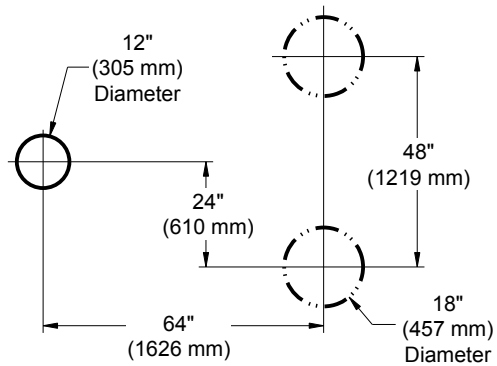
Elevation View PM3128 - 30" Glide Slide

(24" slide: exit will be 2" (50mm) above the surfacing level)

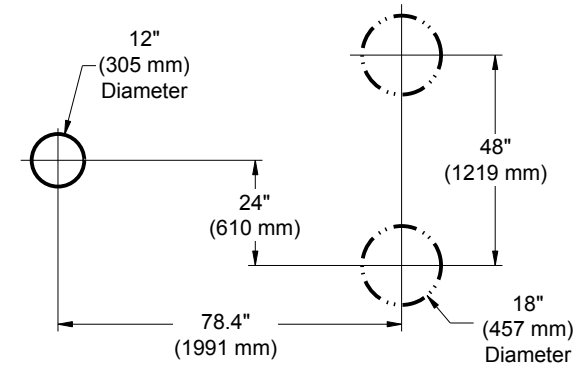


Elevation View PM3127 - 36" Glide Slide

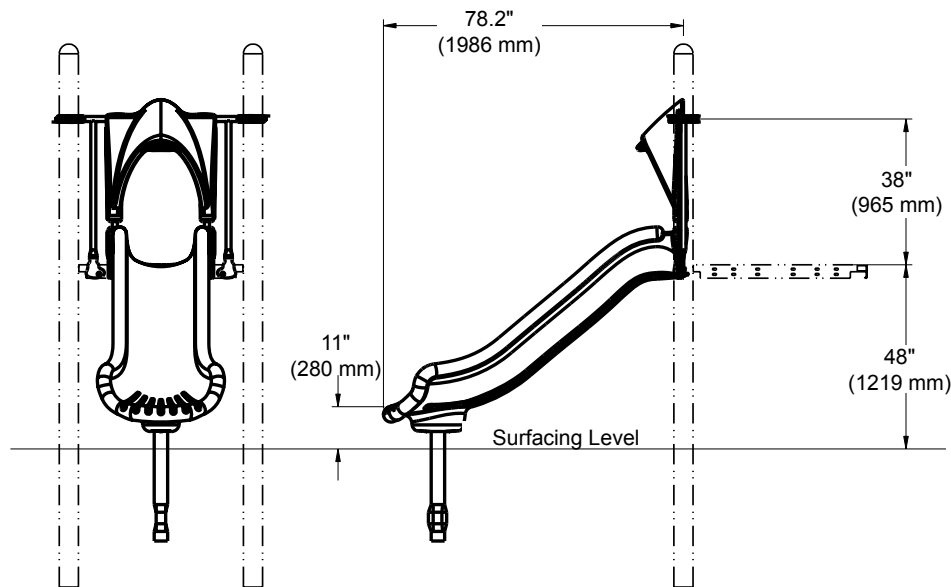
Installation Instructions



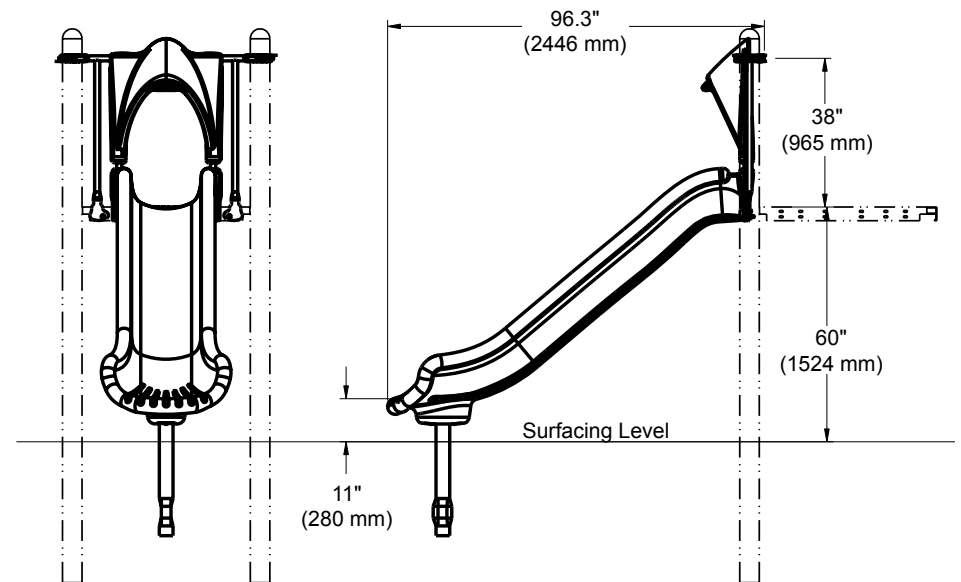
Footing Diagram



Footing Diagram

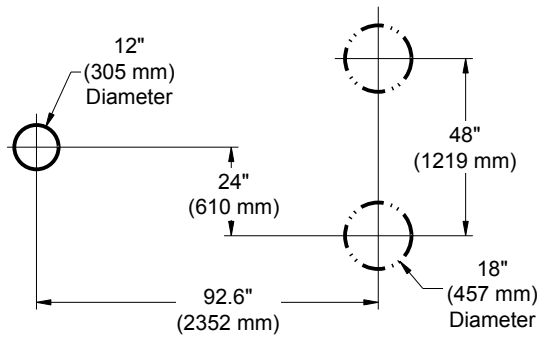


Elevation View PM3126 - 48" Glide Slide

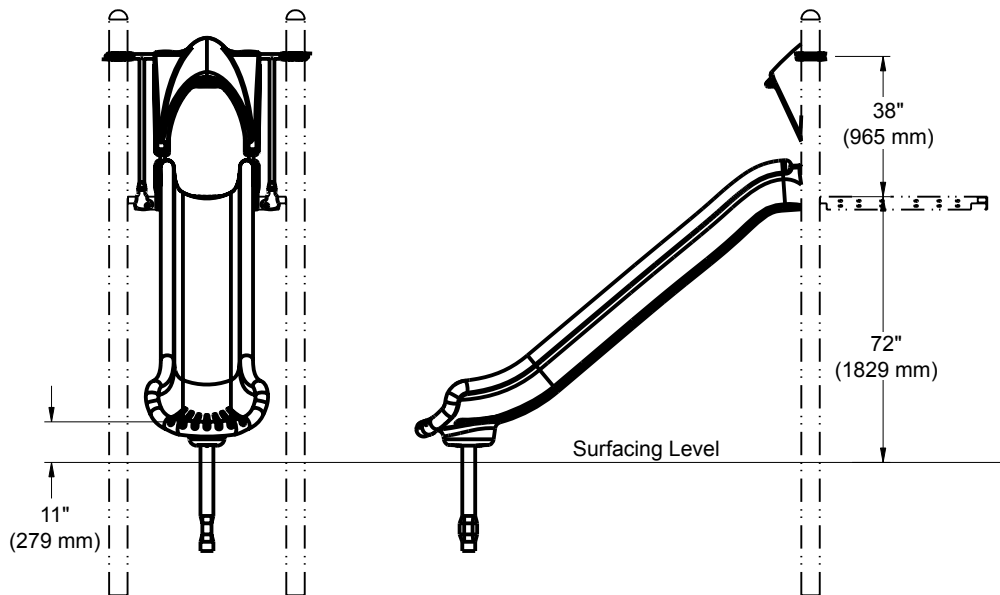


Elevation View PM2658 - 60" Glide Slide

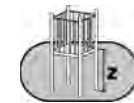
Installation Instructions



Footings Diagram



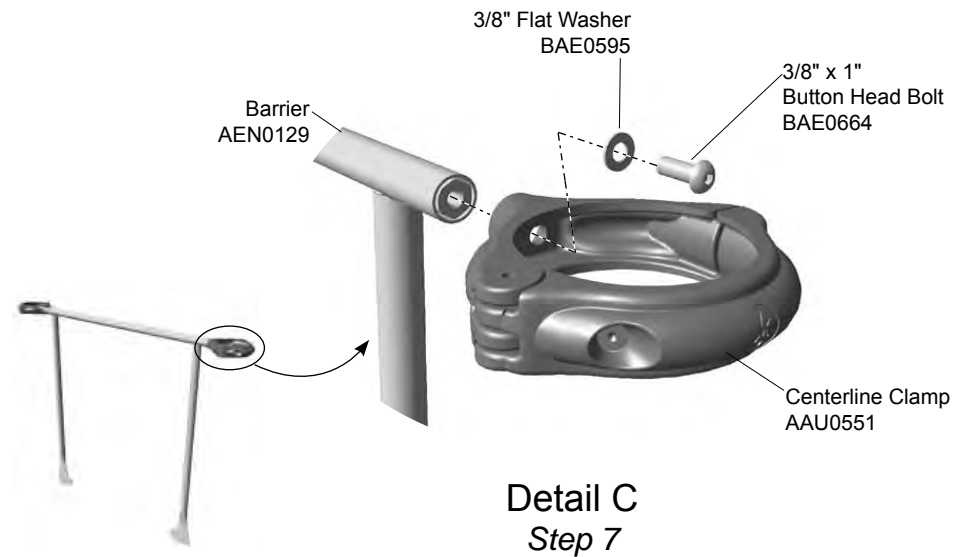
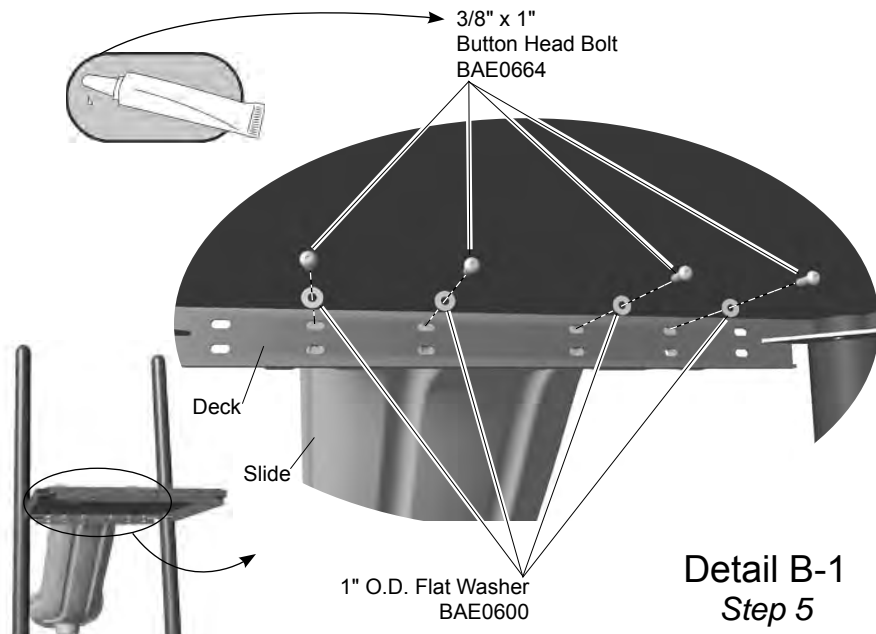
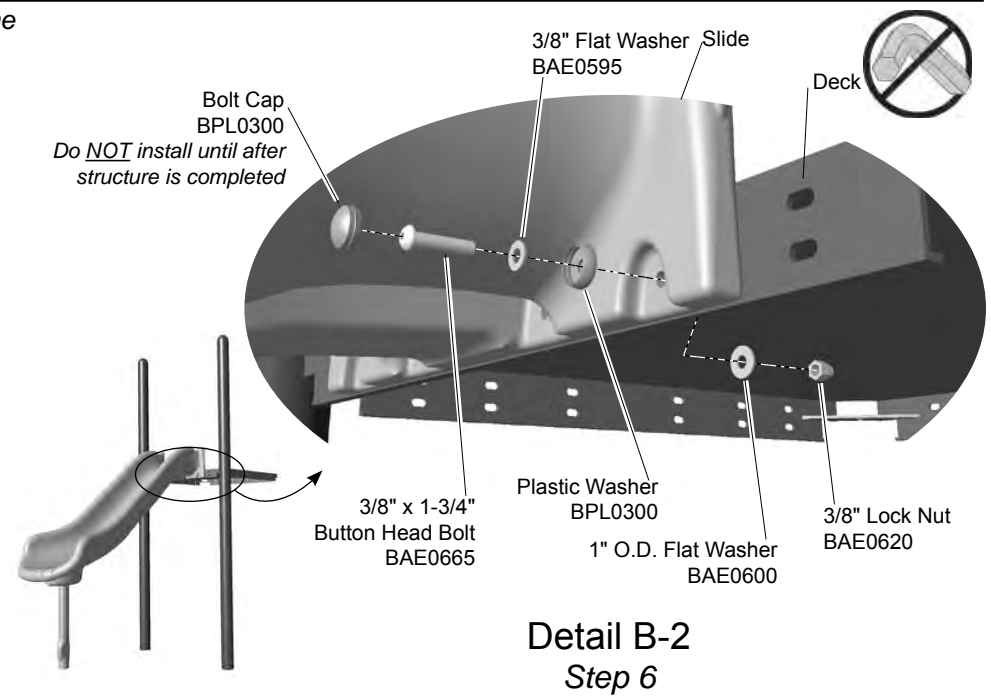
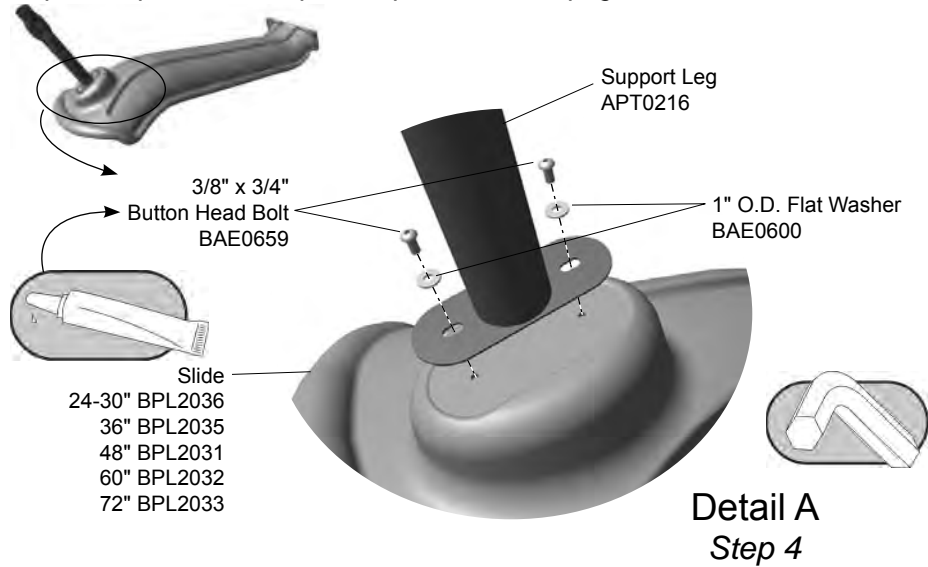
Elevation View PM2696 - 72" Glide Slide



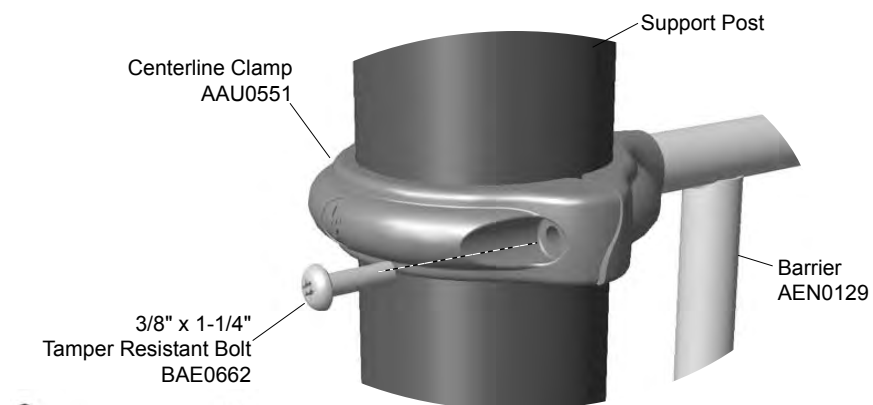
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

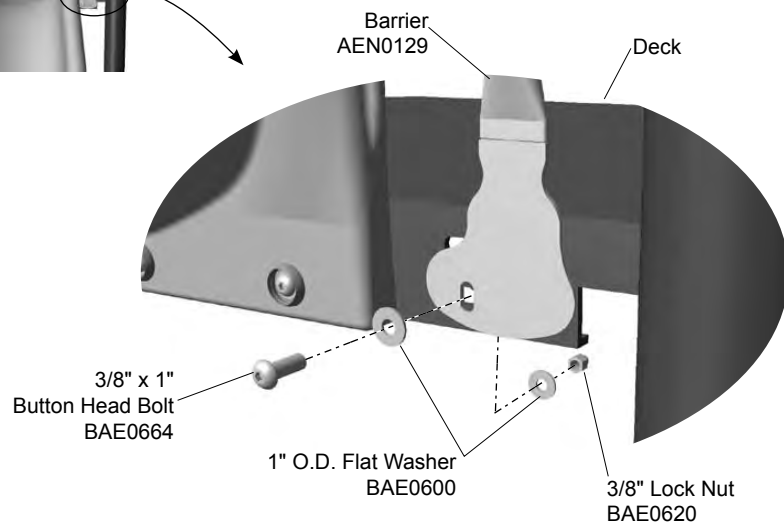
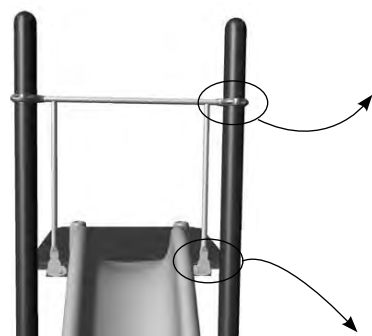
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



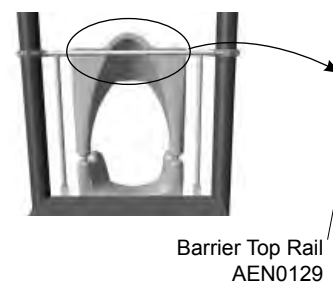
Installation Instructions



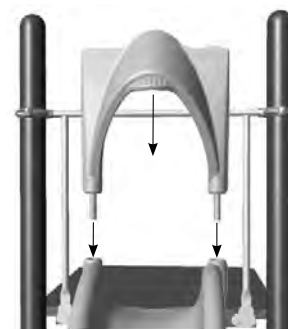
Detail D-1
Step 8



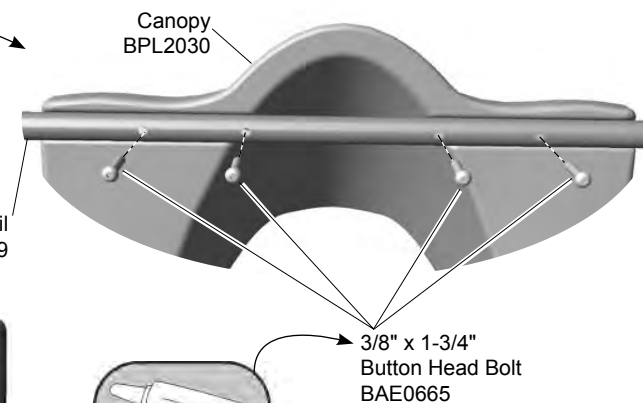
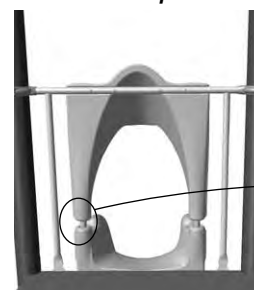
Detail D-2
Step 9



Barrier Top Rail
AEN0129



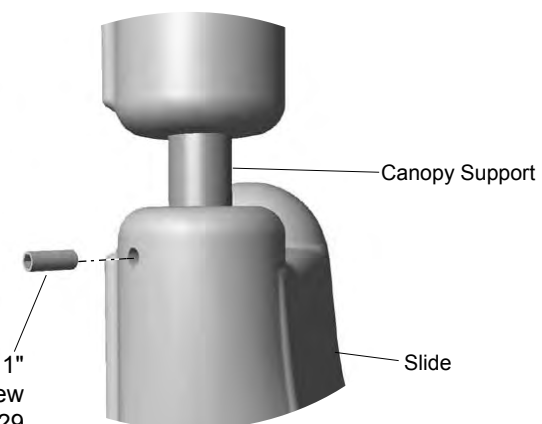
Detail E-1
Step 10



Detail E-2
Step 10

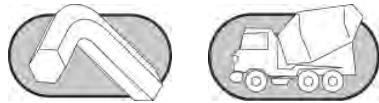


3/8" x 1"
Set Screw
BAE0629

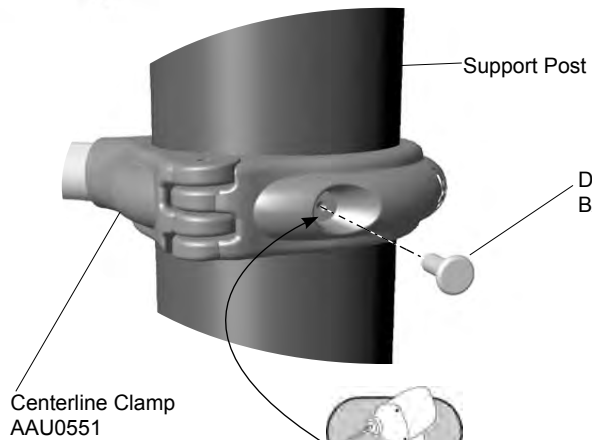
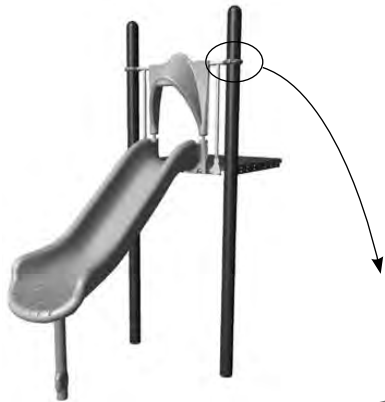


Detail F
Step 11

Installation Instructions



Step 12

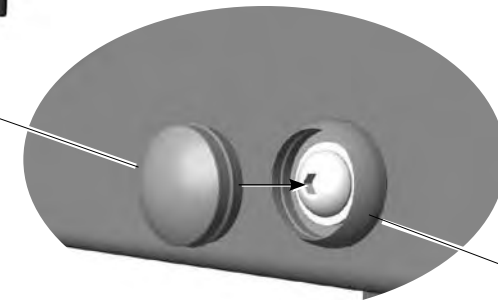


Detail G
Step 13

Drive Rivet
BAE0020



Bolt Cap
BPL0300



Plastic Washer
BPL0300

Detail H
Step 14
(refer to Detail B-2 also)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.



Installation Instructions

Step 13: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

Step 15: Apply the hood string entanglement warning label to the equipment at eye level.



PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM3537 and PM3537S








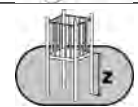
Nuvo™ 360° Spiral Slide

In-Ground and Surface Mount

Installation Preparation

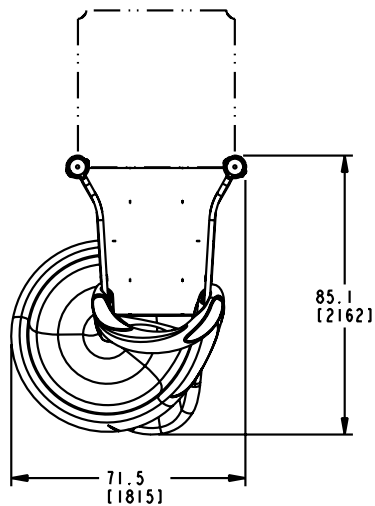
Recommended Crew: Four (4) adults
 Installation Time (in-ground): 6 man-hours
 Installation Time (surface mount): 5 man-hours
 Concrete Required: 0.15 cubic yard (0,11 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

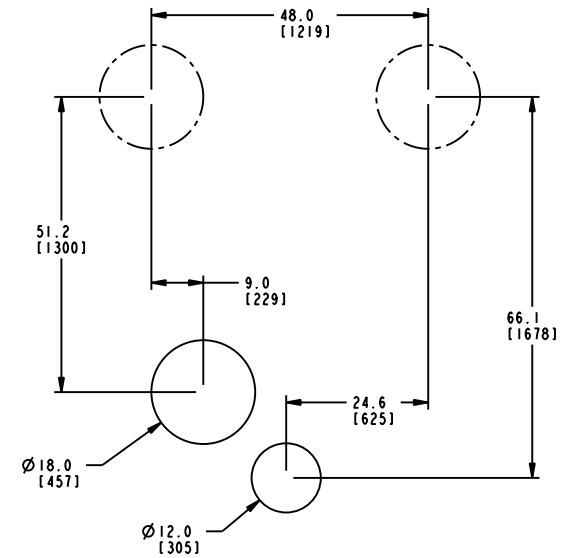
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

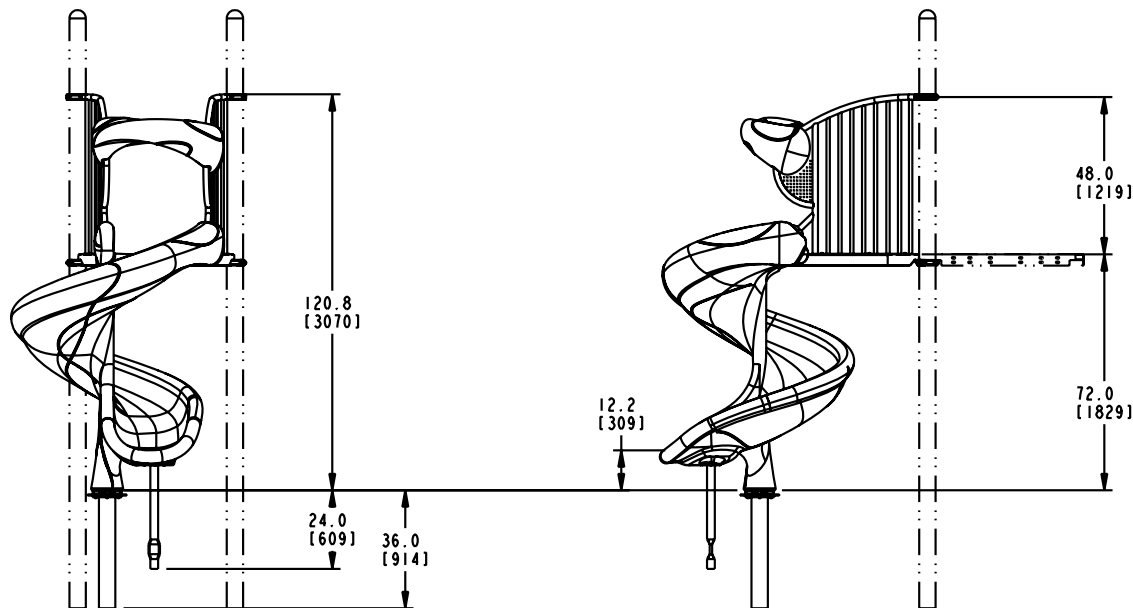
Top View



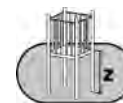
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram
(Both Models)

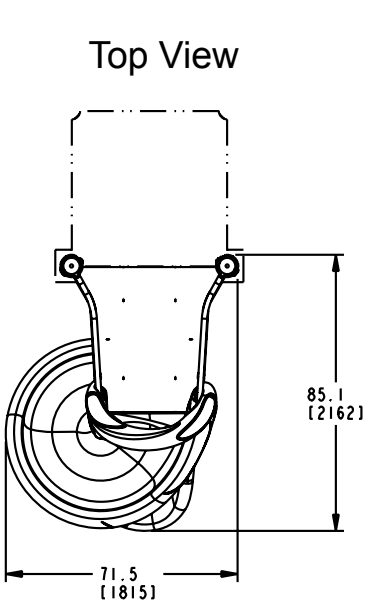


Elevation Views
PM3537

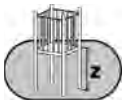
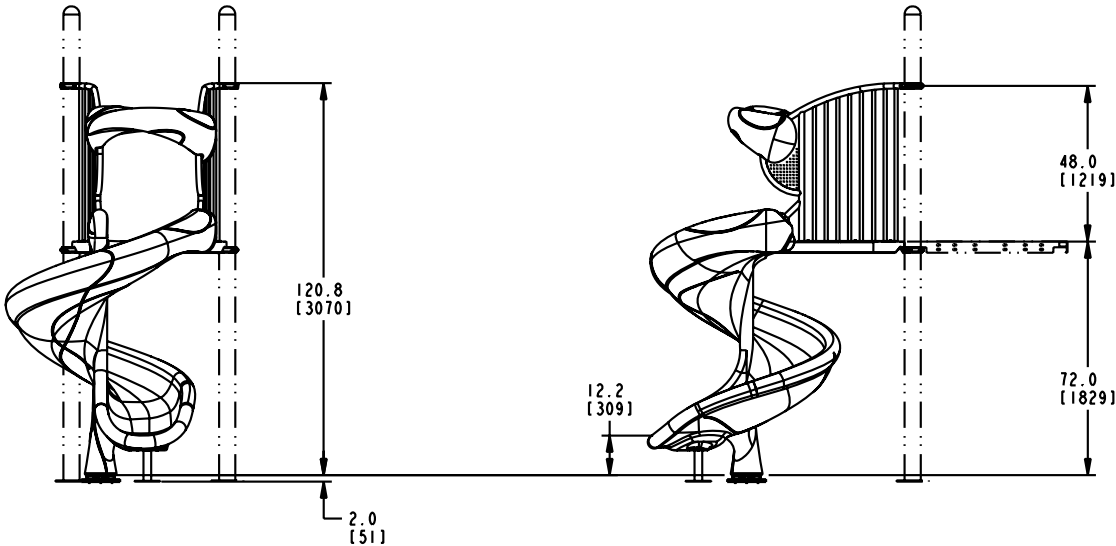


72" (1829 mm)

Installation Instructions



KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



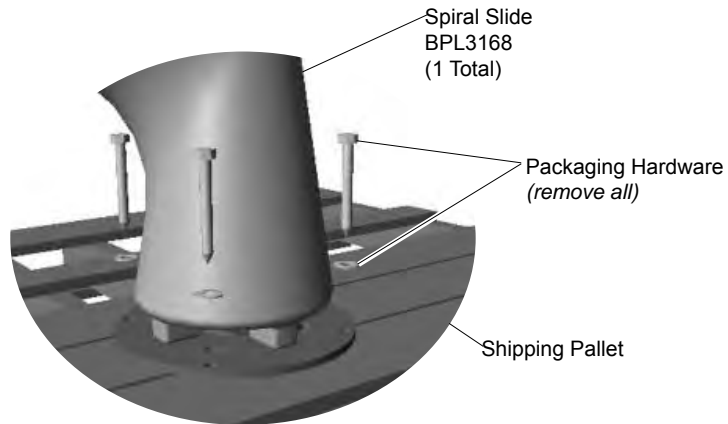
72" (1829 mm)

Elevation Views
PM3537S



Installation Instructions

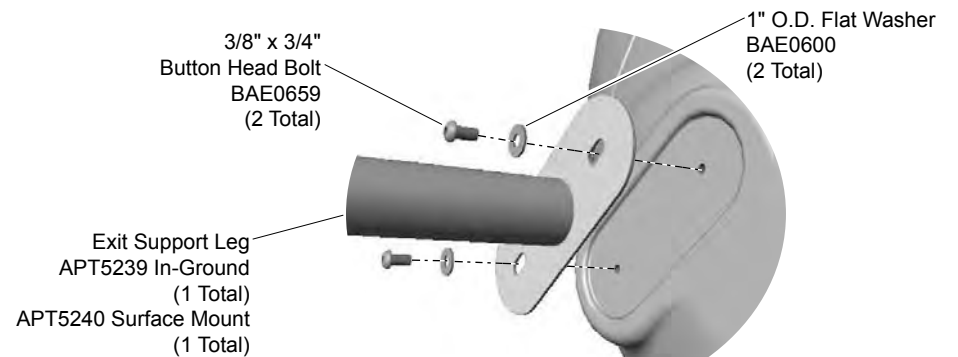
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 11.



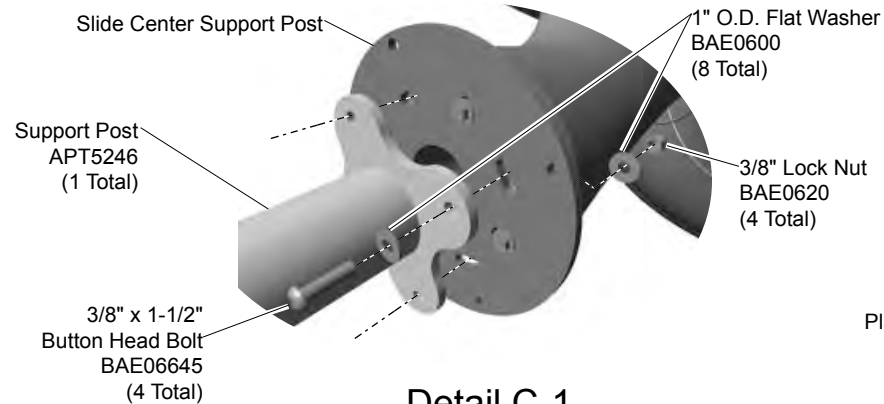
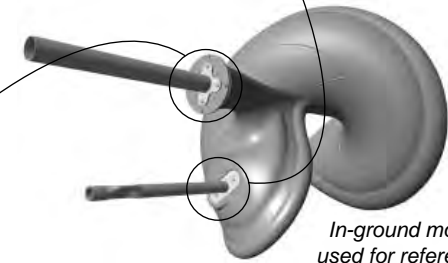
Detail A

Step 4

Remove the slide from the shipping pallet and lay on it's side.

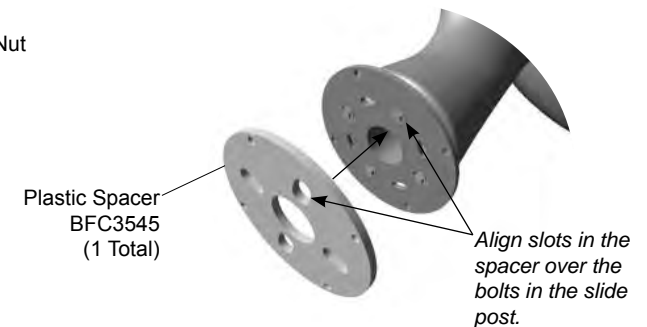


Detail B



Detail C-1

(In-ground model only)



Detail C-2

(Surface mount model only)

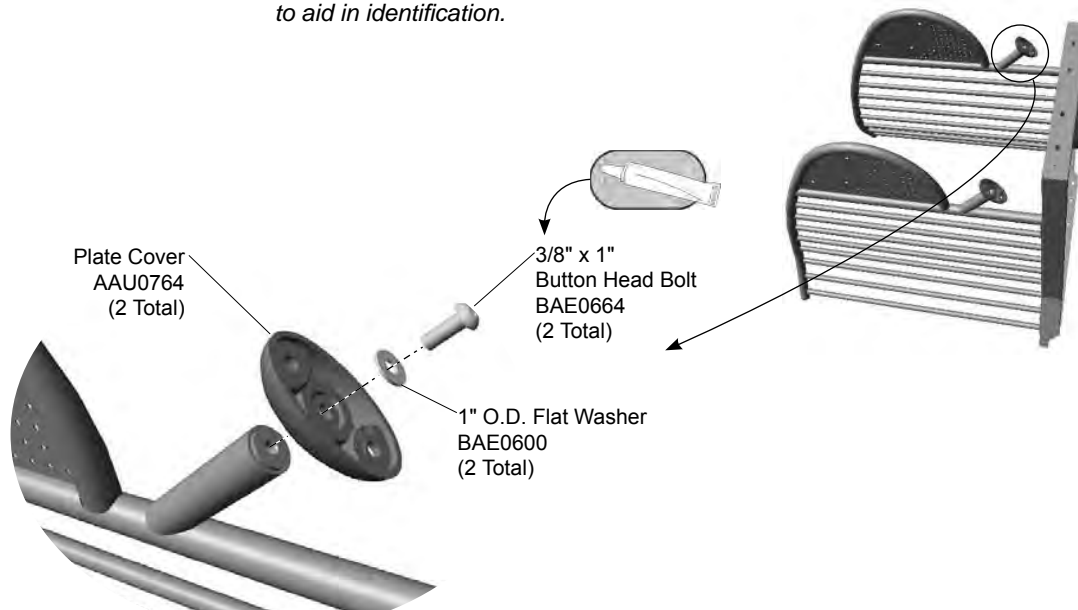
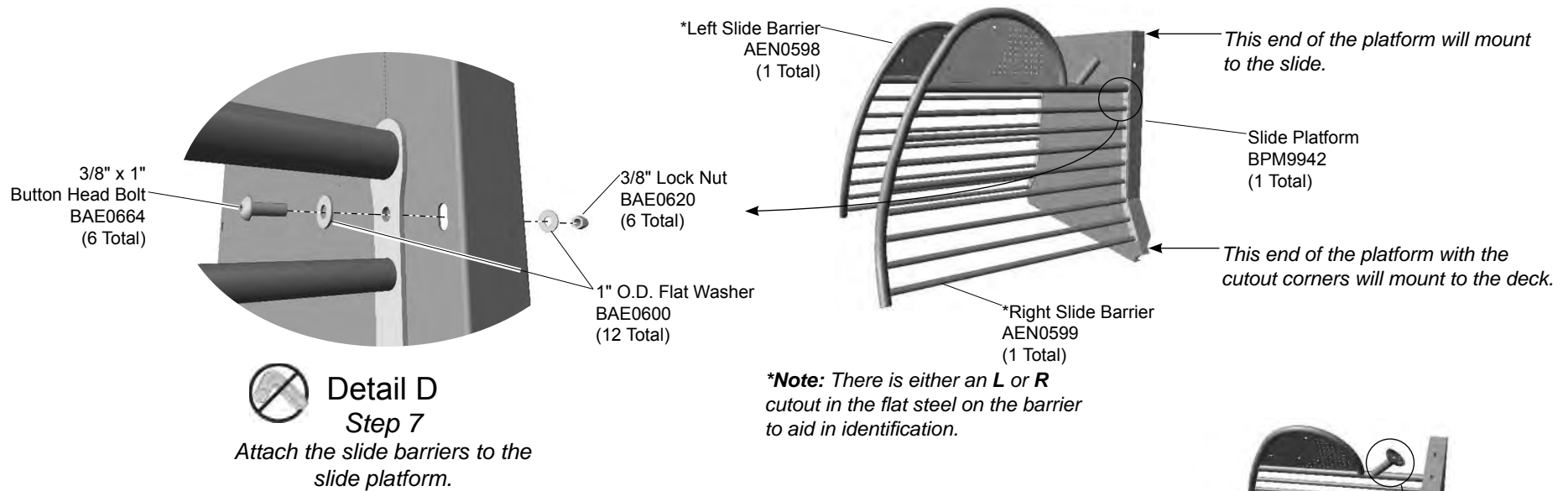


Details B & C-1 & C-2

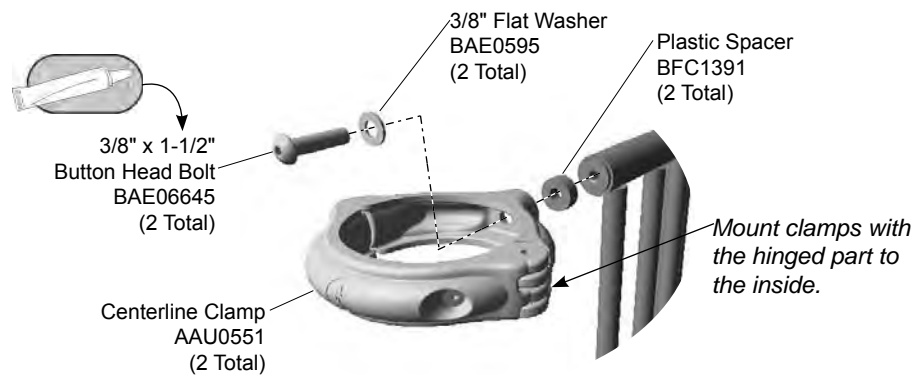
Steps 5 and 6

Attach the exit support leg and support post to the slide.

Installation Instructions

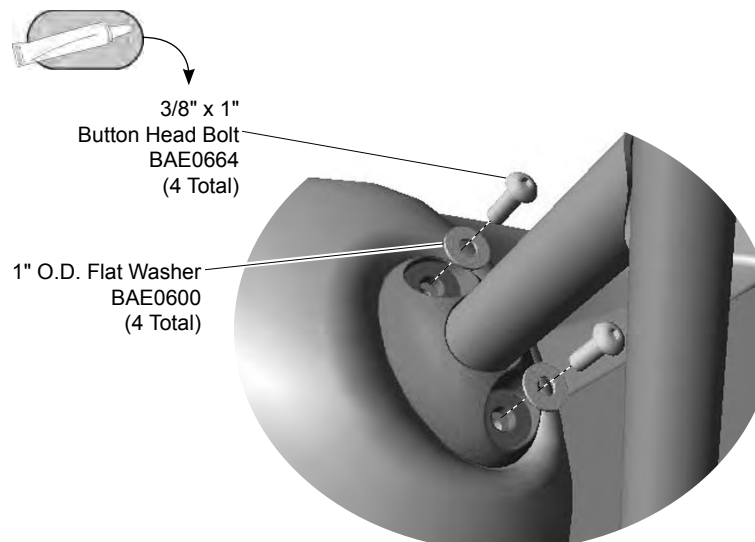
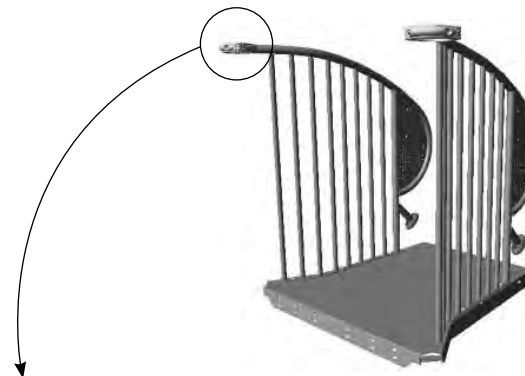


Installation Instructions



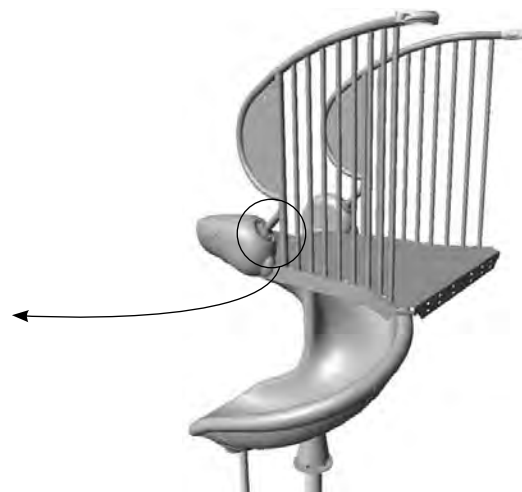
Detail F Step 9

Attach the centerline clamps to
the slide barriers.

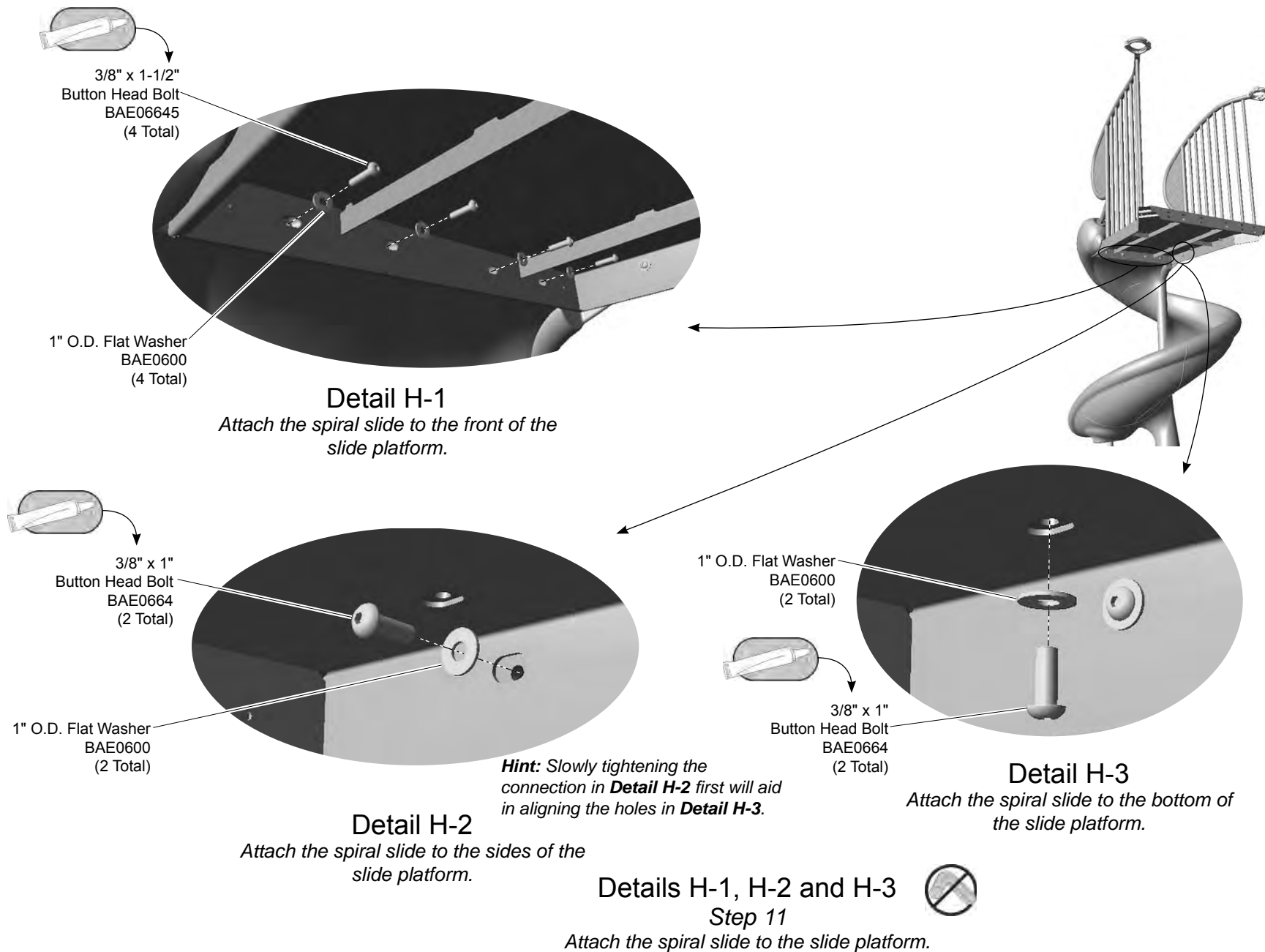


Detail G Step 10

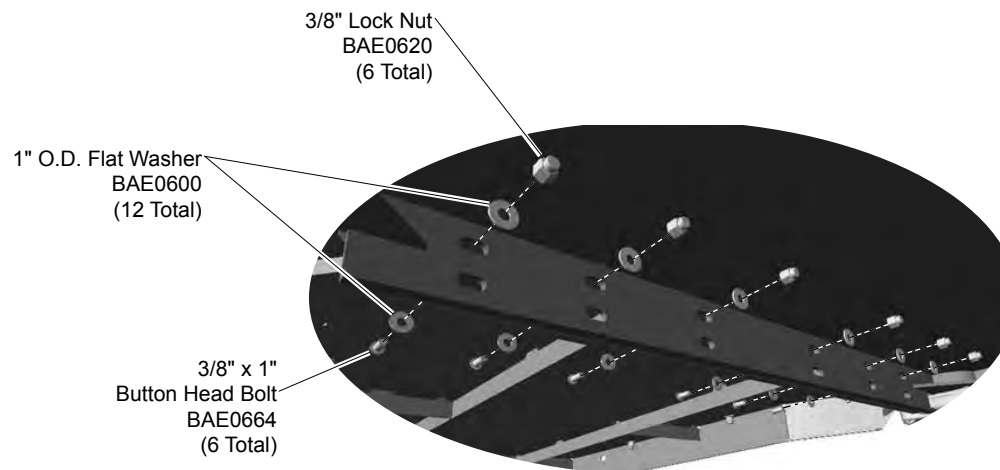
Attach the spiral slide to the barriers.



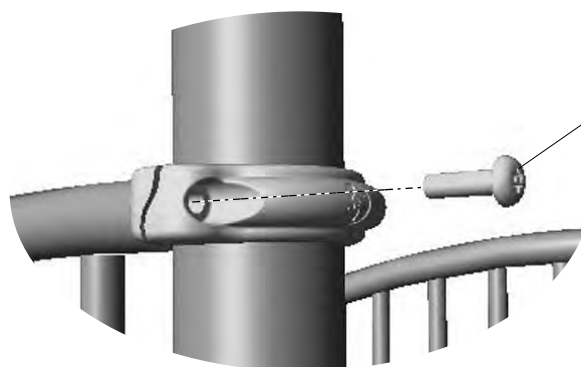
Installation Instructions



Installation Instructions



Detail I
Step 12
*Attach the slide platform assembly
to the deck.*



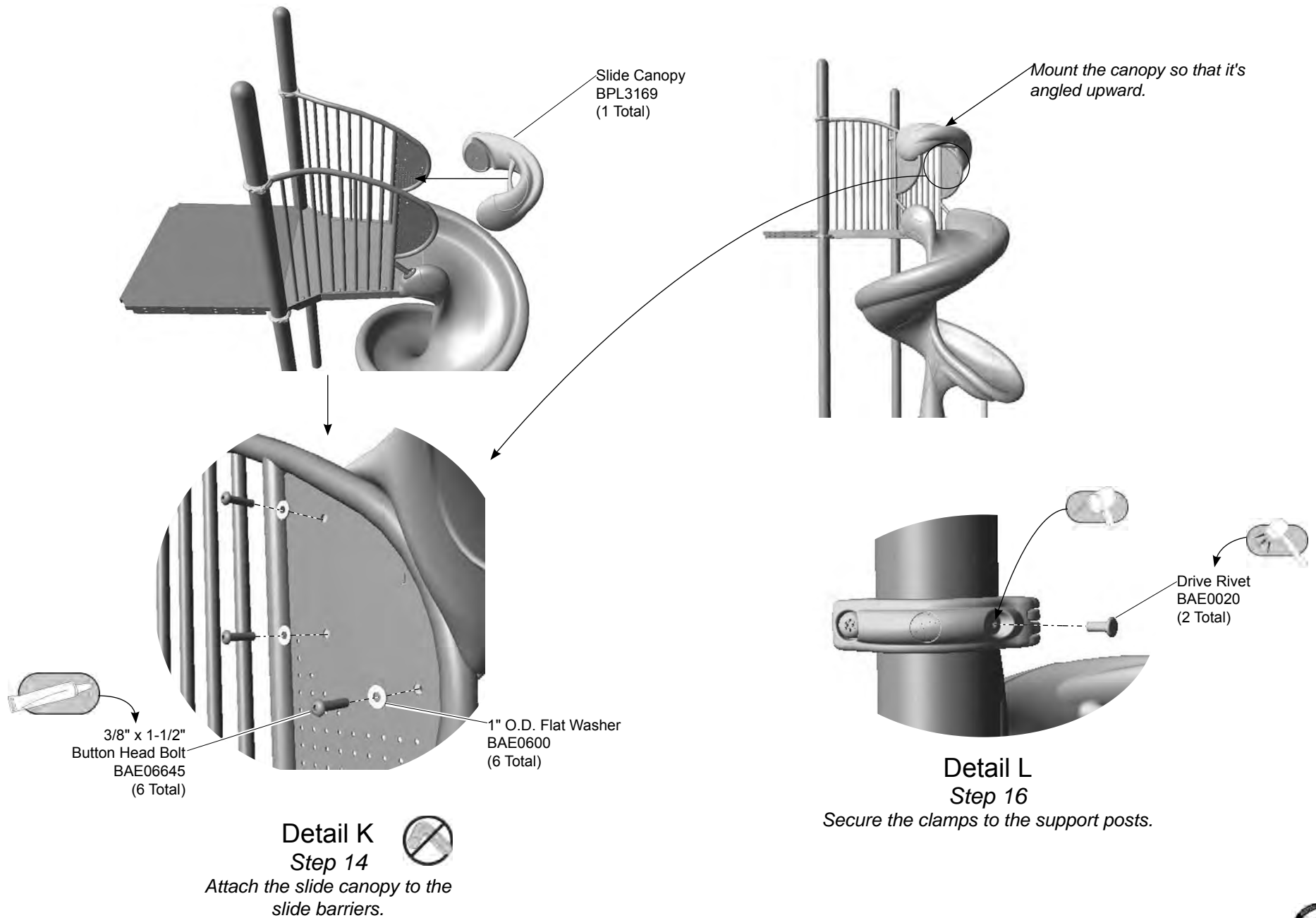
Detail J
Step 13
*Attach the barrier clamps to the
support posts.*



3/8" x 1-1/4"
Tamper Resistant Bolt
BAE0662
(2 Total)

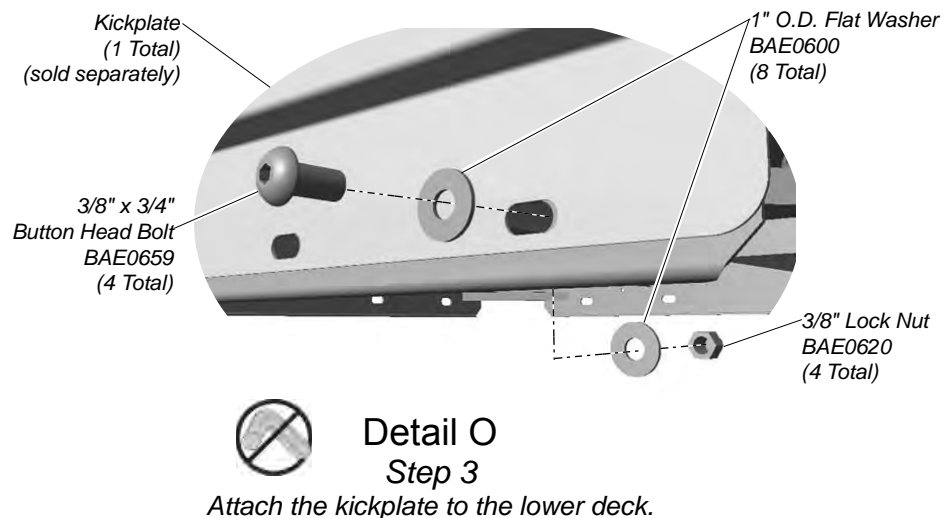
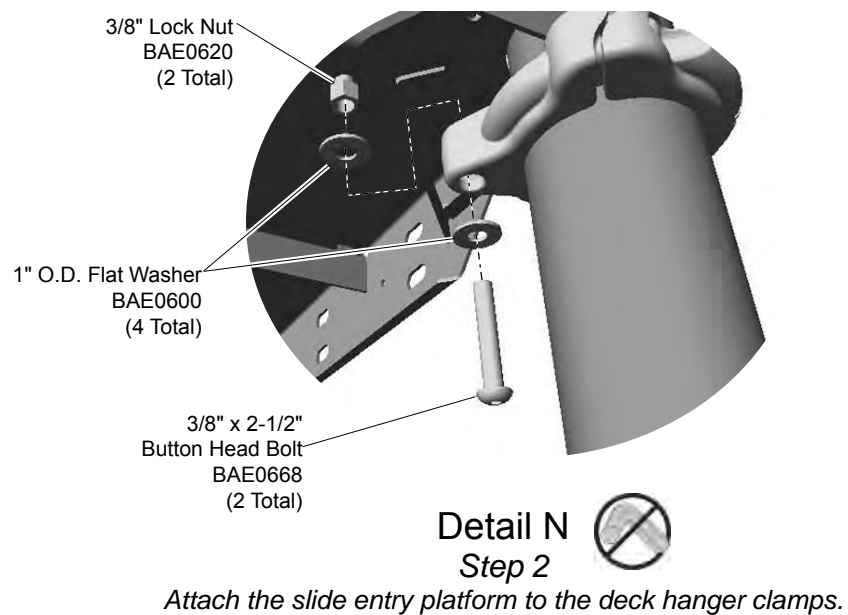
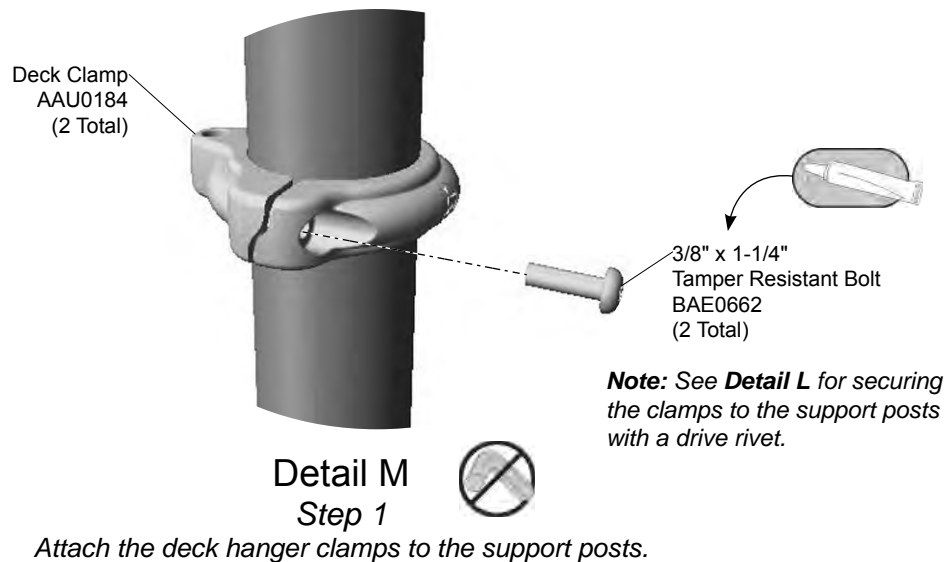


Installation Instructions

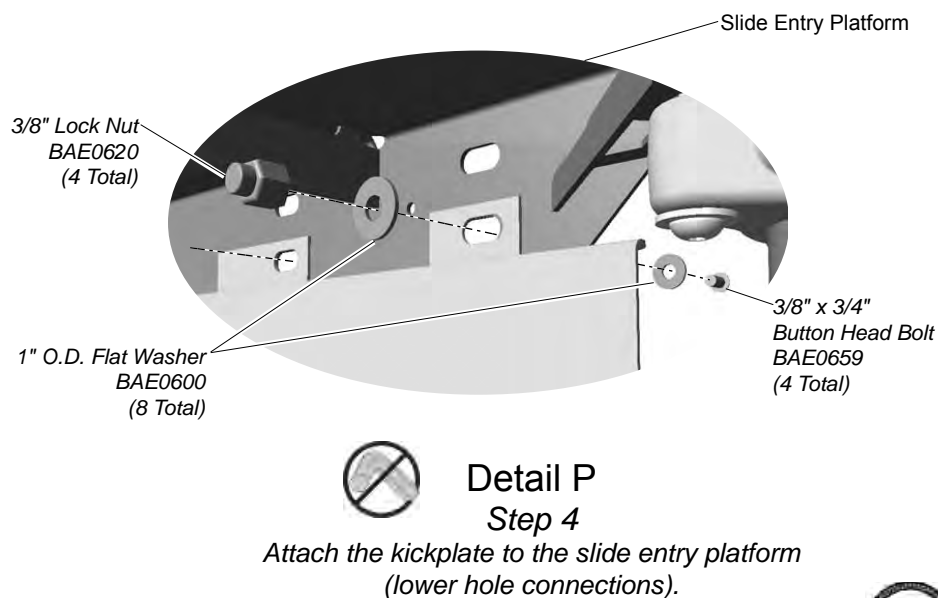


Installation Instructions

ADDITIONAL INSTRUCTIONS



Note: The Kickplate is shown here. If you have the Deck To Deck Climber please refer to the appropriate install. Hardware shown in Details O and P is supplied with the kickplate.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Footing Details** show in the *Guidelines* at the beginning of this instruction booklet.

(*In-ground model*): For the slide support post, reference the **Support Post Footing Detail** and for the slide exit leg reference the **Component Footing Detail**.

Step 4: Unbolt the slide from the shipping pallet. See **Detail A**. Remove the slide from the pallet and lay the slide down on the ground.

Step 5: Attach the exit support leg to the bottom of the slide. See **Detail B**. Place the support leg into the indent on the bottom of the slide exit. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the torque specifications (See **Final Details**).

Step 6: Attach the support post to the bottom of the slide center support post (*in-ground model*). See **Detail C-1**. Align the mounting holes in the plate of the support post with the slots in the center support post and attach as shown. Fully tighten the connections according to the torque specifications. For the *surface mount* model a plastic spacer is provided and should be placed under the slide center post with the slots in the spacer over the hardware in the center post. See **Detail C-2**.

Step 7: Attach the slide barriers to the slide platform. See **Detail D**. Position each barrier against the top of the platform and attach as shown. Note the placement of the barriers is to the end of the platform with the cutout corners.

Step 8: Attach the plate covers to the slide barriers. See **Detail E**. Position a plate cover against each short protrusion on the bottom of the front rung on the barriers, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the torque specifications.

Step 9: Attach the centerline clamps to the slide barriers. See **Detail F**. Position a clamp against the top rail on each barrier, *with the hinges facing in*, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections according to the torque specifications.

Step 10: Attach the spiral slide to the barriers. See **Detail G**. Position the platform assembly against the top of the spiral slide with the barrier plate covers seated in the recessed sections in the spiral slide. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 11: Attach the spiral slide to the slide platform. See **Details H-1, H-2 and H-3**. Align the holes in the spiral slide with those in the slide platform, apply a drop of thread locking adhesive to the bolt threads, and attach as shown to the front, bottom and sides of the platform.

Attach the slide assembly to the structure deck.

Important note: Due to the weight of the assembly it is recommended that (4) four average sized adults perform **Steps 12 and 13**. *If attaching the assembly to a kickplate and entry support bracket on a lower deck, refer to instructions accompanying those items and the additional Details on pages 10 and 11 of these instructions.*

Step 12: Attach the slide assembly to the deck. See **Detail I**. Position the slide platform against the structure deck, close the clamps on the barriers around the support posts, and attach the platform to the deck as shown.

Step 13: Attach the barrier clamps to the support posts. See **Detail J**. Apply a drop of thread locking adhesive to the bolt threads, and attach the clamps to the support posts as shown.

Step 14: Attach the slide canopy to the slide barriers. See **Detail K**. Position the canopy over the barriers so that it's angled upward, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Installation Instructions

Final Details.

Step 15: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 16: Install drive rivets. See **Detail L**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head. This step will also apply to the deck hanger clamps used in **Detail M**.

Note: This step should be executed after structure has been assembled and properly footed.

Step 17: Apply the hood string entanglement warning label to the equipment at eye level.

Additional instructions and details for connection of the slide to a kickplate (sold separately) on a lower structure deck.

Note: The *Kickplate* is shown. If you have the *Deck To Deck Climber* please refer to the appropriate install.

Step 1: Attach the deck hanger clamps to the support posts. See **Detail M**. Position the clamps around the support post at the appropriate height, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Portion of the clamp that will accept the slide platform should be to the inside of the posts.

Step 2: Attach the slide entry platform to the deck hanger clamps. See **Detail N**. Position the cutout corners of the platform on top of the deck hanger clamps and attach as shown. Platform will need to be supported during the following steps.

Step 3: Attach the kickplate to the lower deck. See **Detail O**. Align the kickplate with the holes in the deck and attach as shown.

Step 4: Attach the kickplate to the slide entry platform (*lower hole connections*). See **Detail P**. Align the slide entry platform with the kickplate. Insert each bolt through the lower holes of the slide platform and attach as shown.

Hint: Use an alignment tool to help keep the platform and kickplate aligned until several connections have been made.

Step 5: Continue attaching the slide to the slide platform (*Steps 13 - 14*). Follow remainder of instructions.

PM3537 - NUVO™ 360° SPIRAL SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0764	CASTING - 1.66" O.D. TUBING PLATE COVER	2
AEN0598	BARRIER - SPIRAL SLIDE - LEFT (PM)	1
AEN0599	BARRIER - SPIRAL SLIDE - RIGHT (PM)	1
APT5239	POST - 31.87" EXIT SUPPORT	1
APT5246	POST - 34.38" x 6.81" x 6.81"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	58
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	18
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	16
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BFC1391	SHEET - 1.25" O.D. x .50"	2
BPL3168	SLIDE - NUVO 360° SPIRAL SLIDE	1
BPL3169	CANOPY - 360° SPIRAL SLIDE	1
BPM9942	PLATFORM - NUVO SPIRAL SLIDE - PM	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3537S - NUVO™ 360° SPIRAL SLIDE SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0764	CASTING - 1.66" O.D. TUBING PLATE COVER	2
AEN0598	BARRIER - SPIRAL SLIDE - LEFT (PM)	1
AEN0599	BARRIER - SPIRAL SLIDE - RIGHT (PM)	1
APT5240	POST - 9.87" SURFACE MOUNT EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	50
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	12
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BFC1391	SHEET - 1.25" O.D. x .50"	2
BFC3545	SHEET - 12.00" DIA x .50"	1
BPL3168	SLIDE - NUVO 360° SPIRAL SLIDE	1
BPL3169	CANOPY - 360° SPIRAL SLIDE	1
BPM9942	PLATFORM - NUVO SPIRAL SLIDE - PM	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View

Installation Instructions







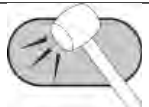
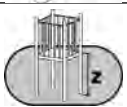
Playmakers® Model PM6956

Nuvo™ Swerve Climber

Installation Preparation

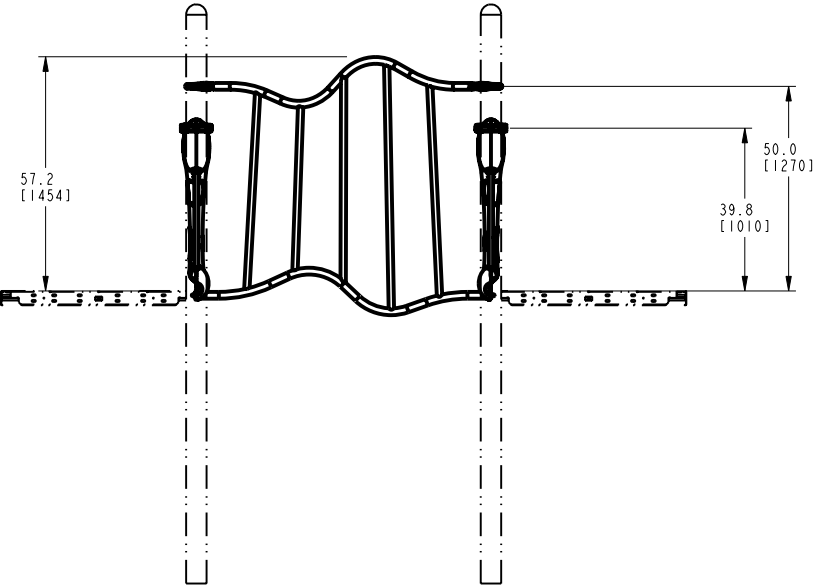
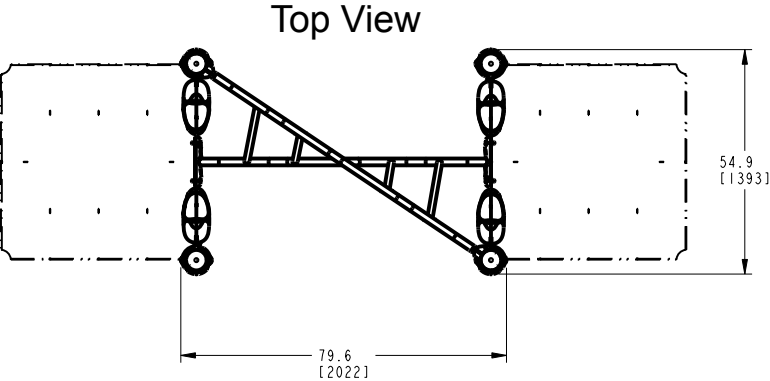
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

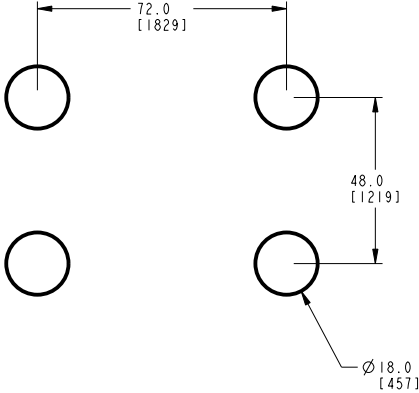
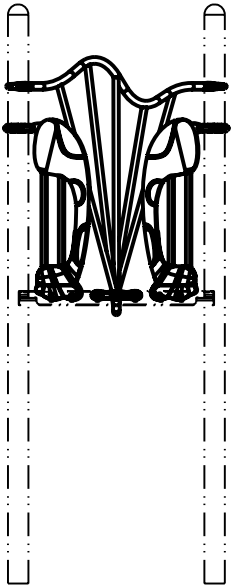
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

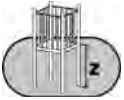
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views



Footing Diagram

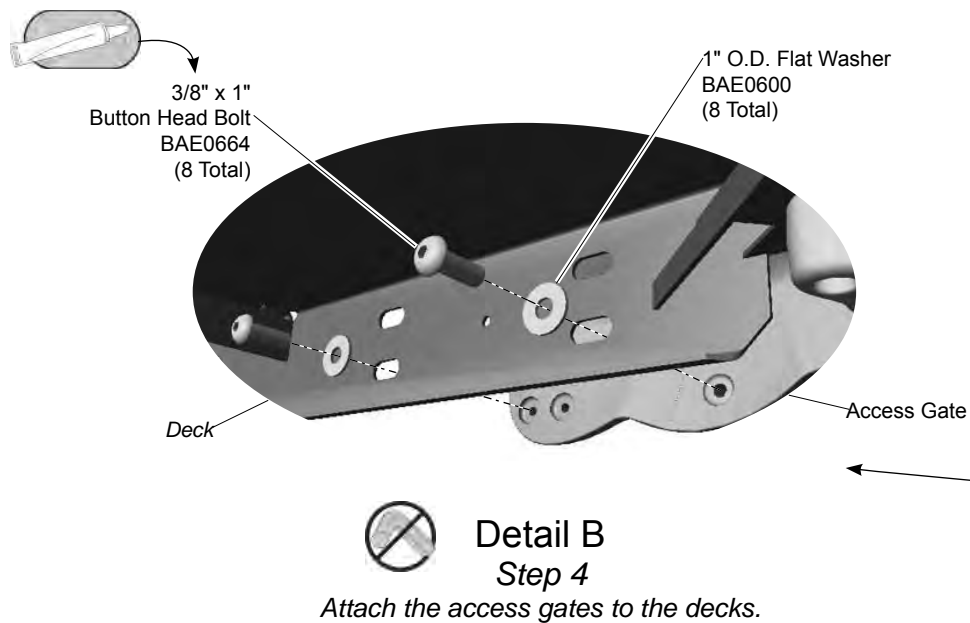
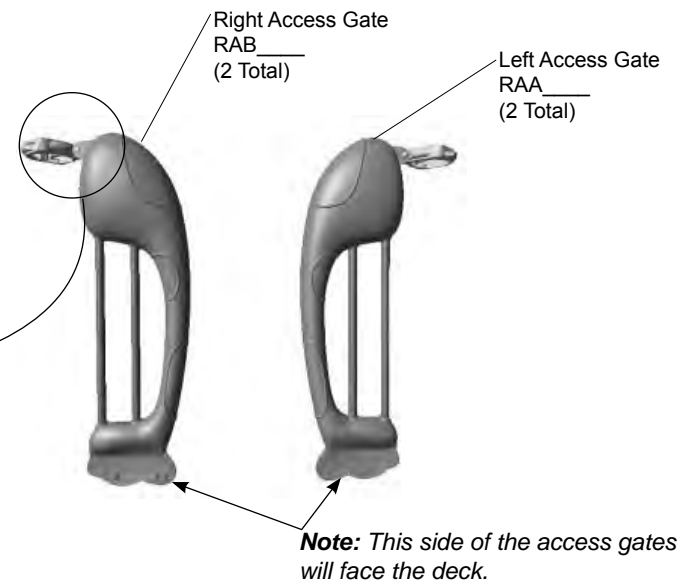
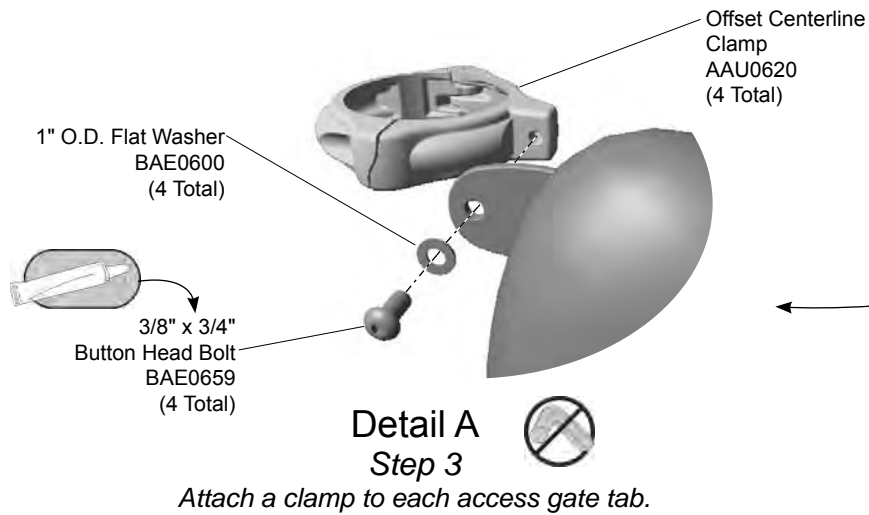


Equal to the height of the deck + 5" (127 mm)

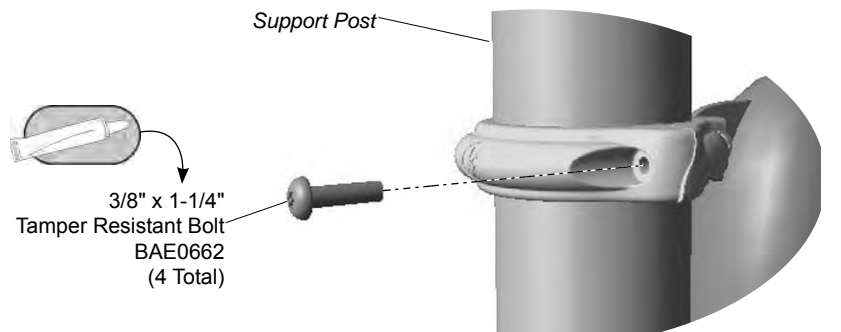


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



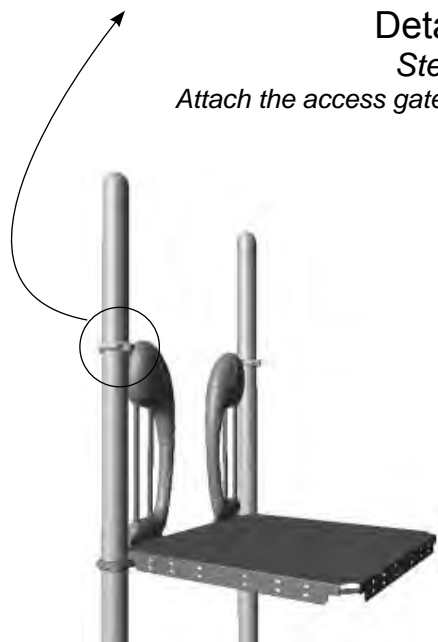
Installation Instructions



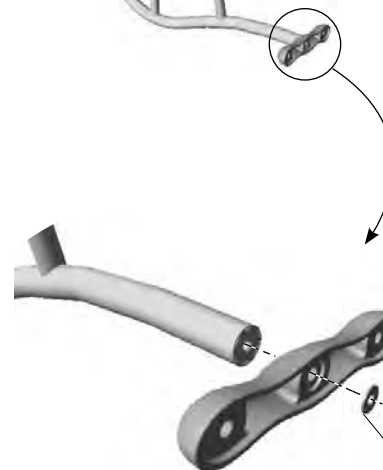
Detail C
Step 5



Attach the access gates to the support posts.



Swerve Climber
AFR1421
(1 Total)



Deck Connection Casting
AAU0777
(2 Total)

3/8\" x 1-1/2\"
Button Head Bolt
BAE06645
(2 Total)

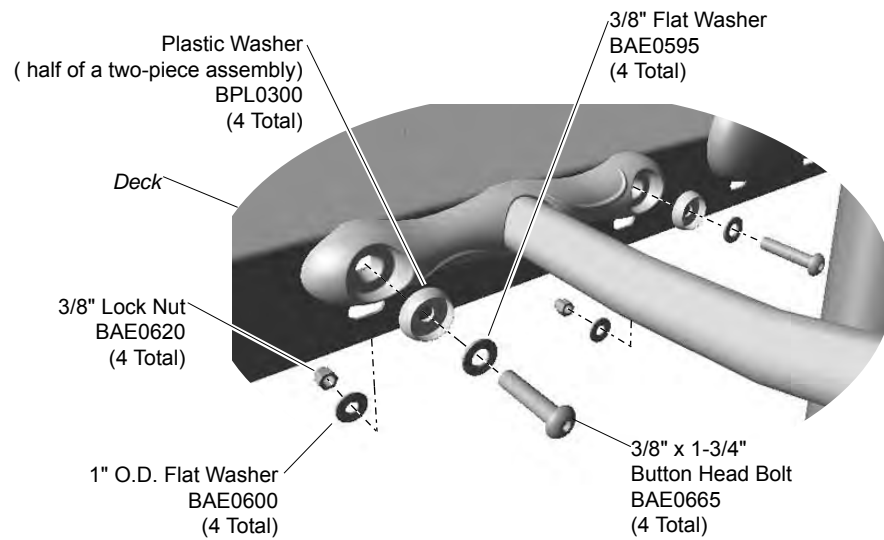
1\" O.D. Flat Washer
BAE0600
(2 Total)



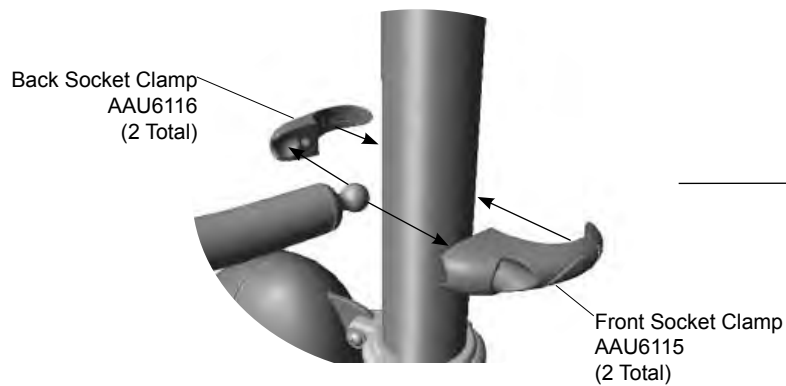
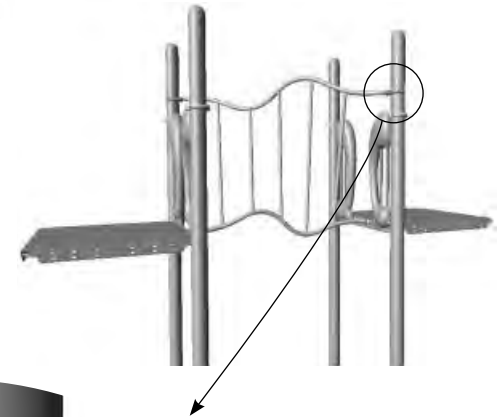
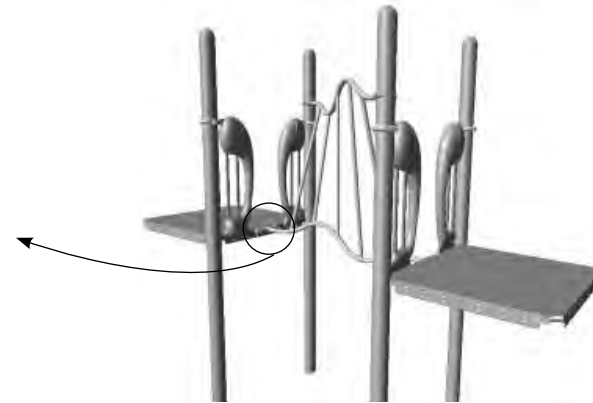
Detail D
Step 6

Attach the deck connection castings to the climber.

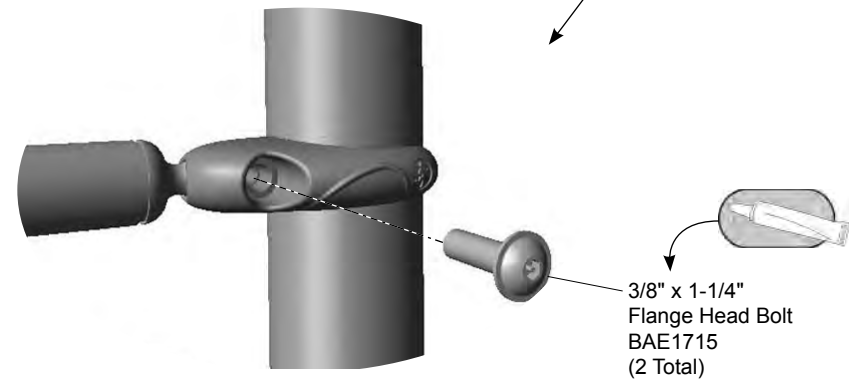
Installation Instructions



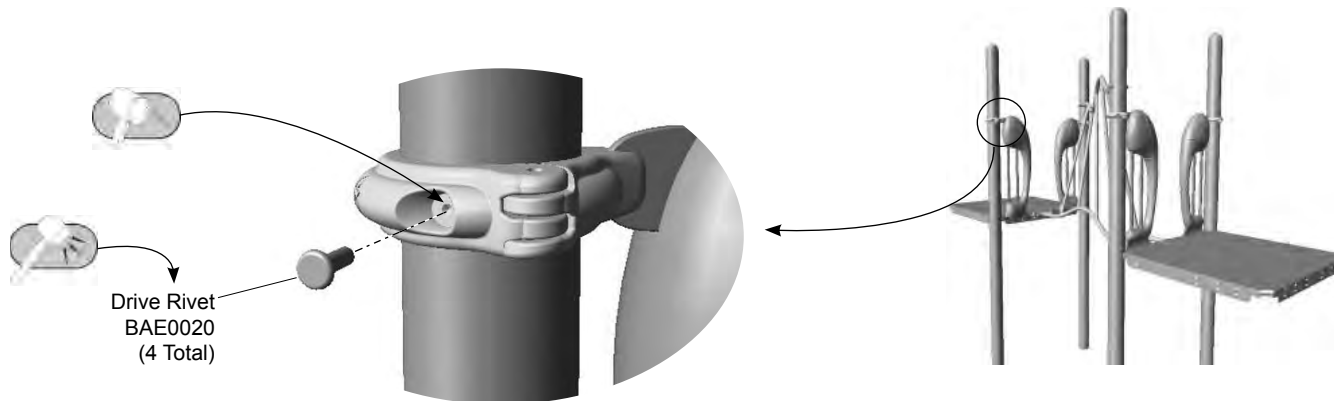
Detail E
Step 7
Attach the climber to the decks.



Detail F
Step 8
Attach the climber to the support posts.



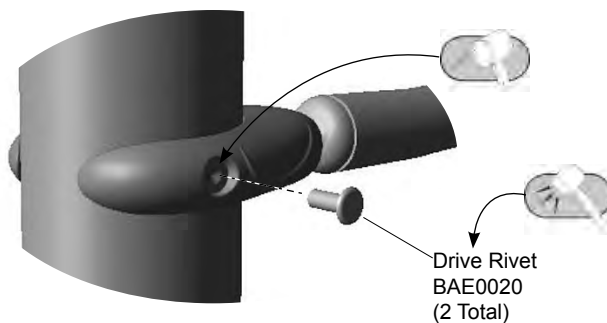
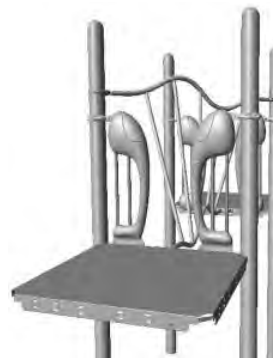
Installation Instructions



Detail G-1

Step 10

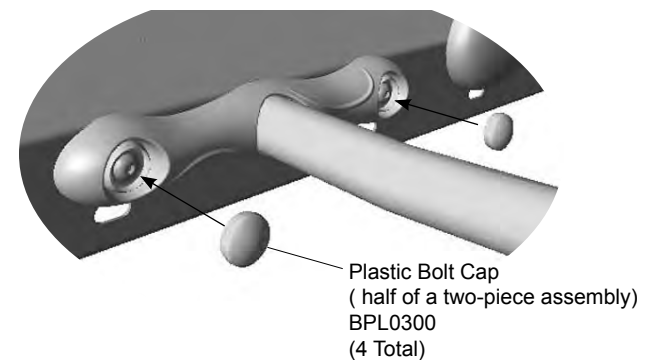
Secure the centerline clamp to the support post.



Detail G-2

Step 10

Secure the front socket clamp to the support post.



Detail H

Step 11

Press the bolt caps into the plastic washers (deck connection castings).

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach a clamp to each access gate tab. See **Detail A**. Position the flat side of each clamp against a gate tab, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Note the side of the gate that faces away from the deck.

Step 4: Attach the access gates to the decks. See **Detail B**. Position an access gate against a deck with the clamp closed around the support post, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Gate may be attached to the upper holes or the lower holes in the deck.

Step 5: Attach the access gates to the support posts. See **Detail C**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 6: Attach the deck connection castings to the climber. See **Detail D**. Position a casting against each end of the climber bottom rail and attach as shown.

Step 7: Attach the climber to the decks. See **Detail E**. With adequate manpower, position the climber between the decks and attach the bottom of the climber to the decks as shown.

Step 8: Attach the climber to the support posts. See **Detail F**. Position a front and a back socket clamp against a support post and over the ball on the end of the climber top rail, apply a drop of thread locking adhesive to the bolt thread, and attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Details G-1 and G-2**. After the equipment assembly is complete, install a drive rivet in each centerline clamp and front socket clamp to permanently secure them to the support posts. Using a 1/4" drill bit, drill through each clamp and the support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp or handle. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 11: Select plastic bolt caps and press into the plastic washers. See **Detail H**. The bolt caps install more easily when they are warm.

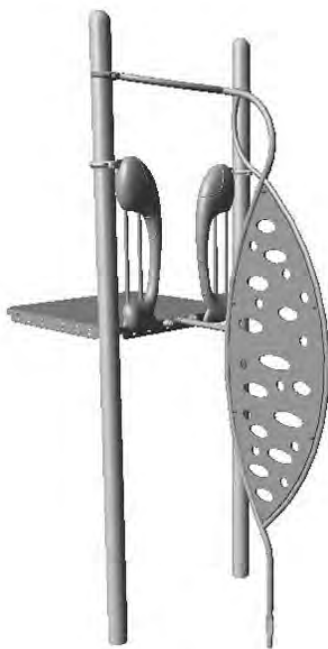
PM6956 - NUVO™ SWERVE CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	2
AAU6115	CLAMP - 5" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5" DIA BACK SOCKET	2
AFR1421	CLIMBER - SWERVE	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BPL0300	CAP - 3/8" BOLT	4
RAA____	GATE - ACCESS LEFT	2
RAB____	GATE - ACCESS RIGHT	2



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Assembly View (representative model)

Installation Instructions

Playmakers®









Models PM7046, PM7047, PM7048 and PM7049

Nuvo™ Twist Climber

36 in. (914 mm), 48 in. (1219 mm), 60 in. (1524 mm)
and 72 in. (1829 mm) Decks

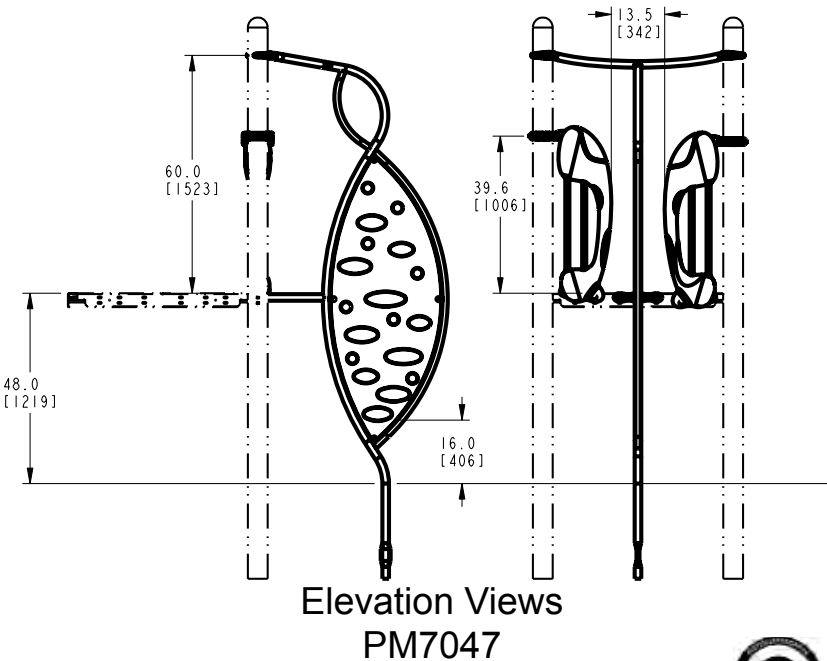
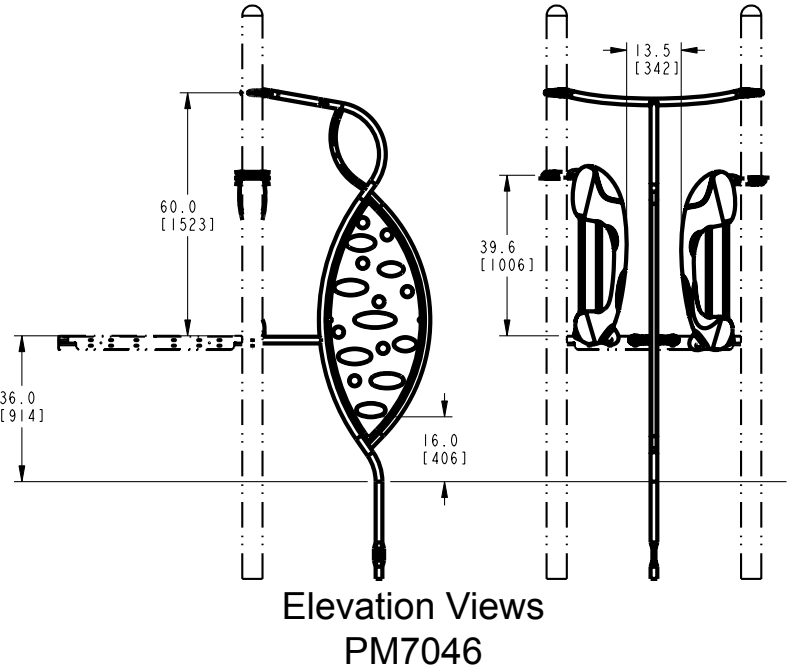
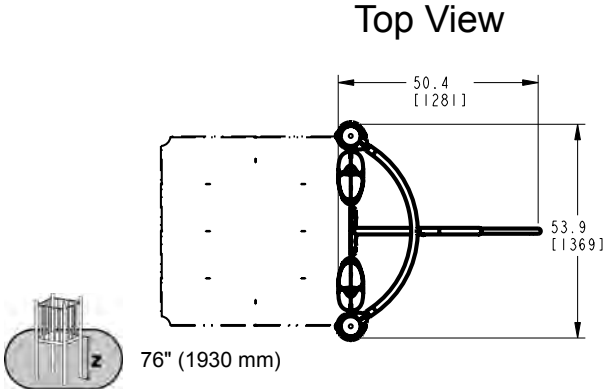
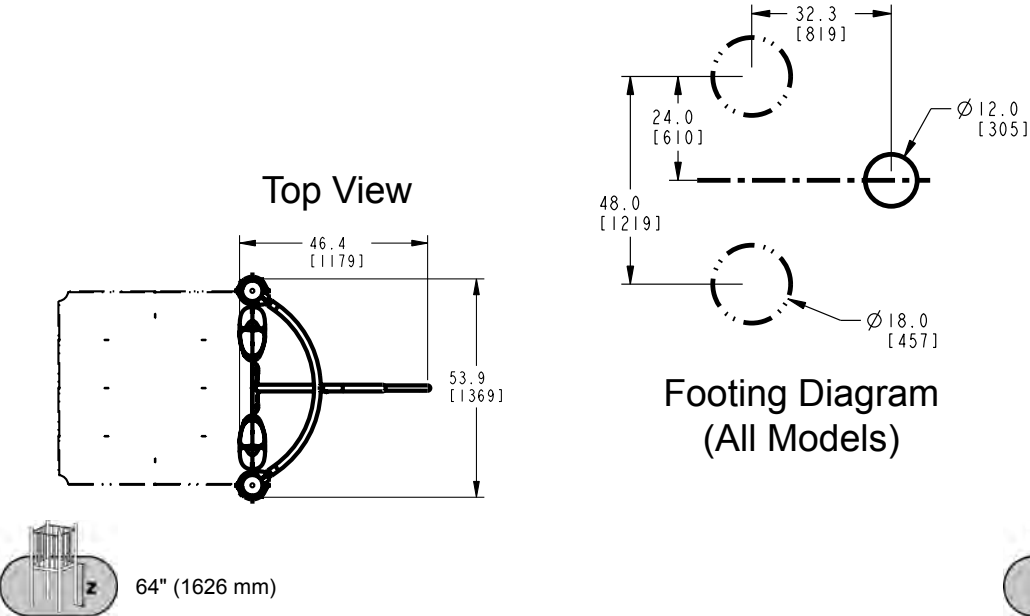
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
Concrete Required: 0.03 cubic yard (0,02 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

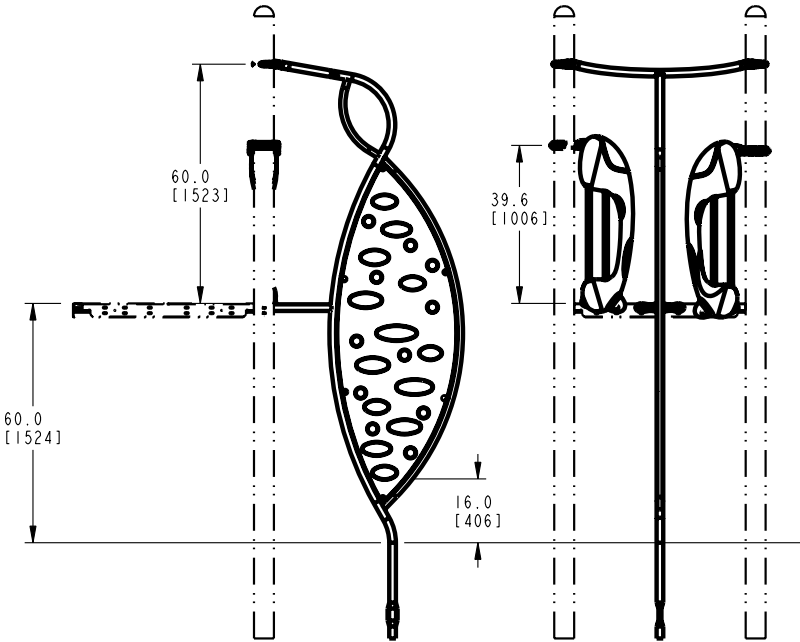
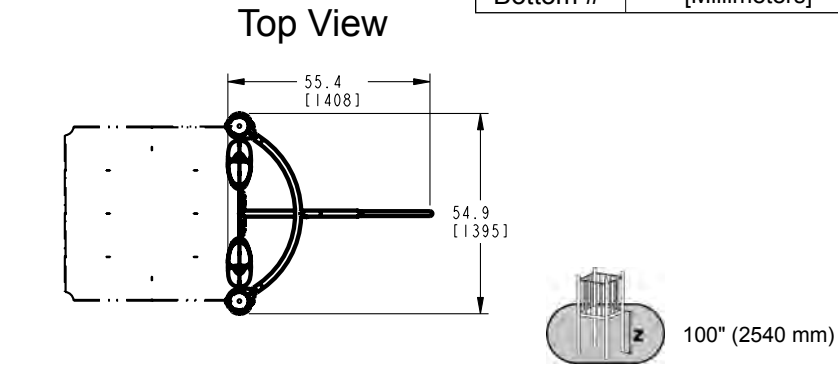
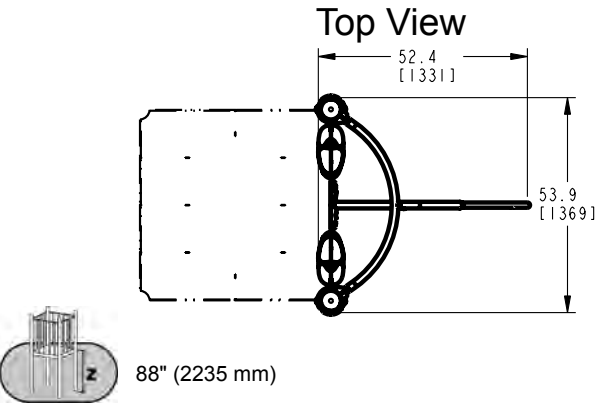
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

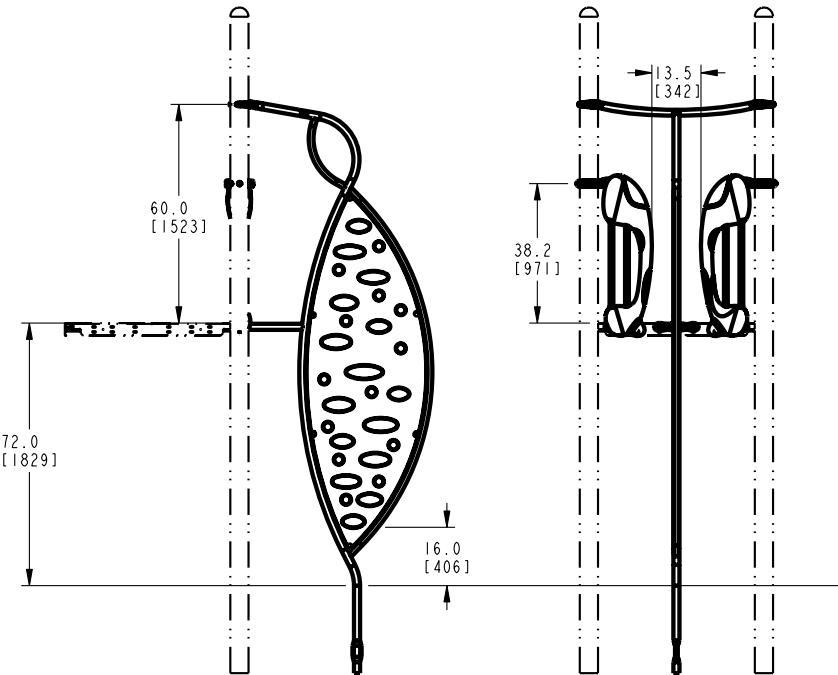


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM7048

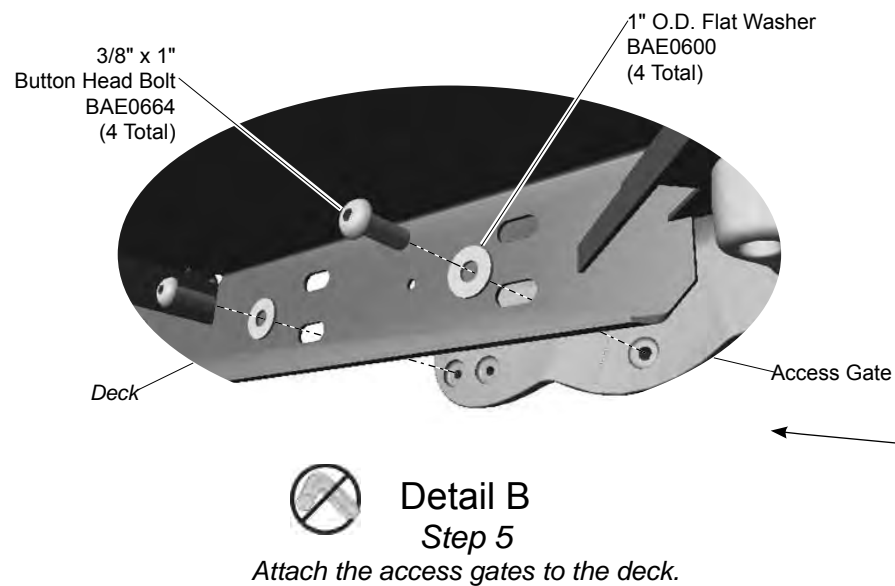
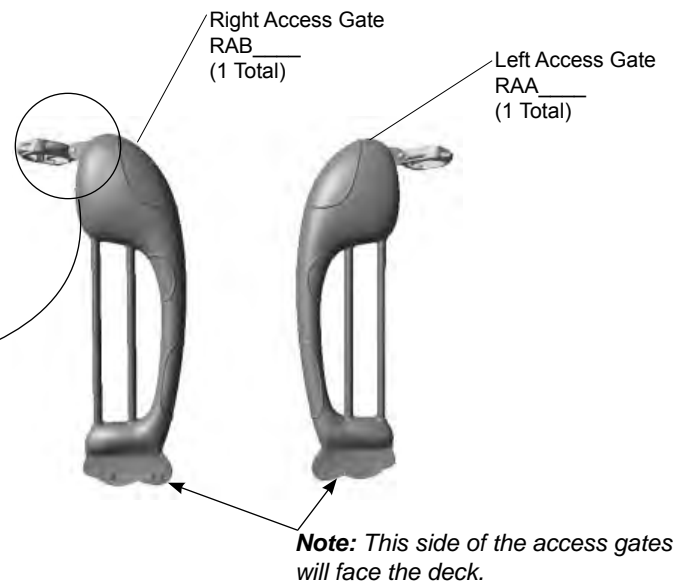
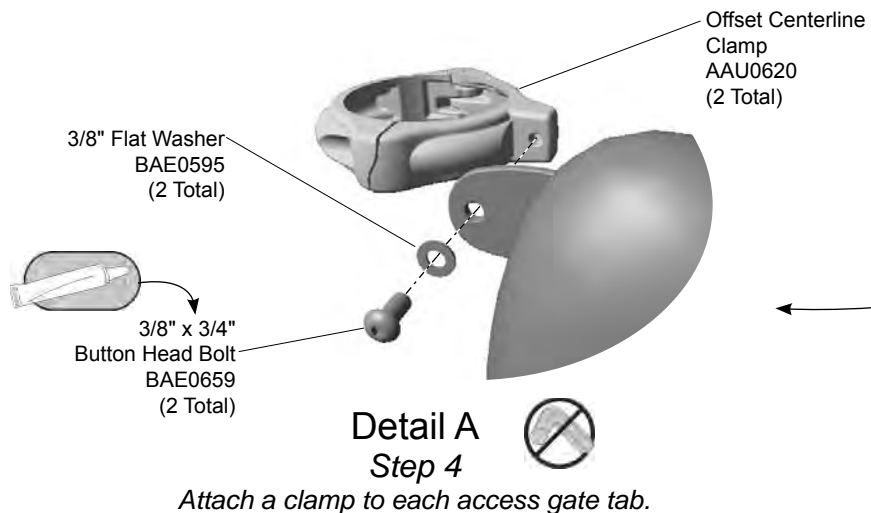


Elevation Views
PM7049

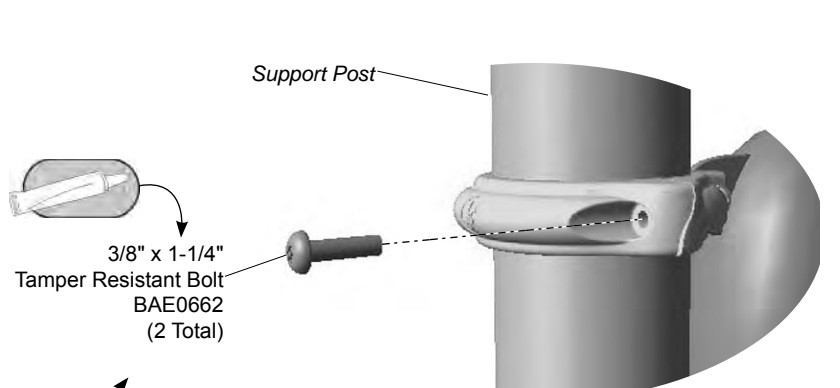


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 10.

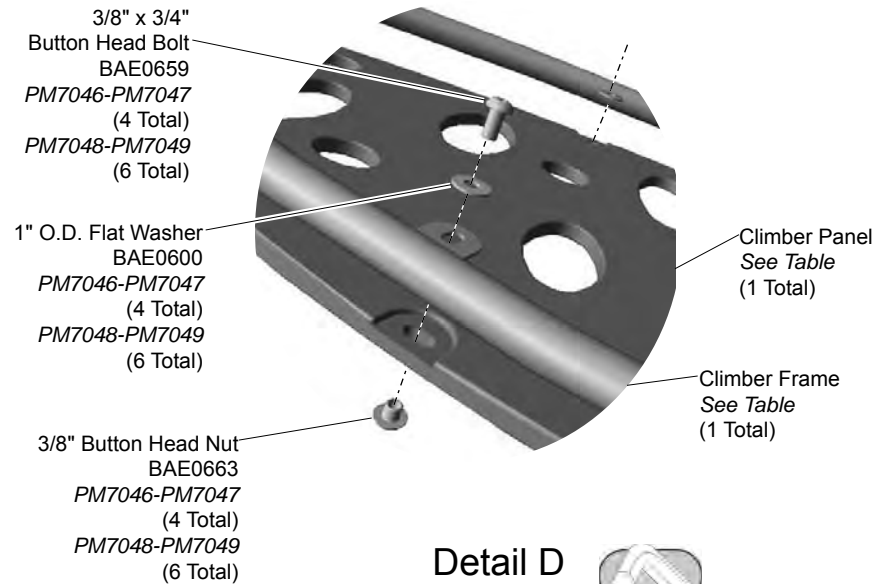


Installation Instructions



Detail C
Step 6

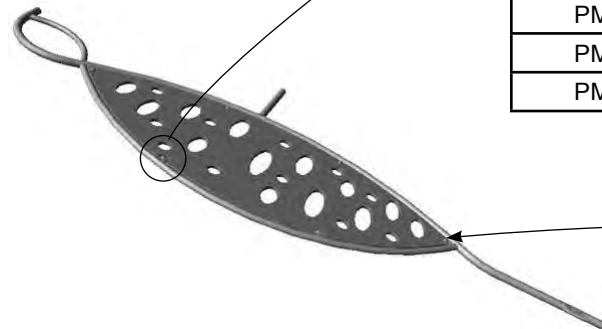
Attach the access gates to the support posts.



Detail D
Step 7

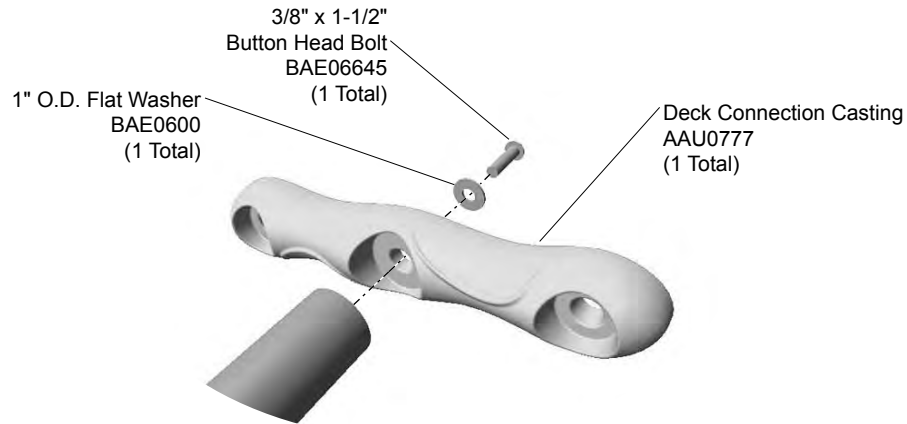
Attach the climber panel to the climber frame.

Model	Climber Frame Part No.	Climber Panel Part No.
PM7046	ACL0390	BFC3507
PM7047	ACL0392	BFC3508
PM7048	ACL0394	BFC3509
PM7049	ACL0396	BFC3510



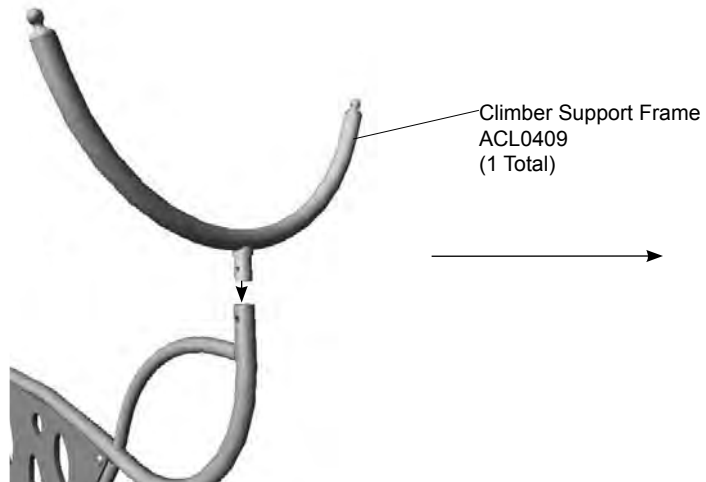
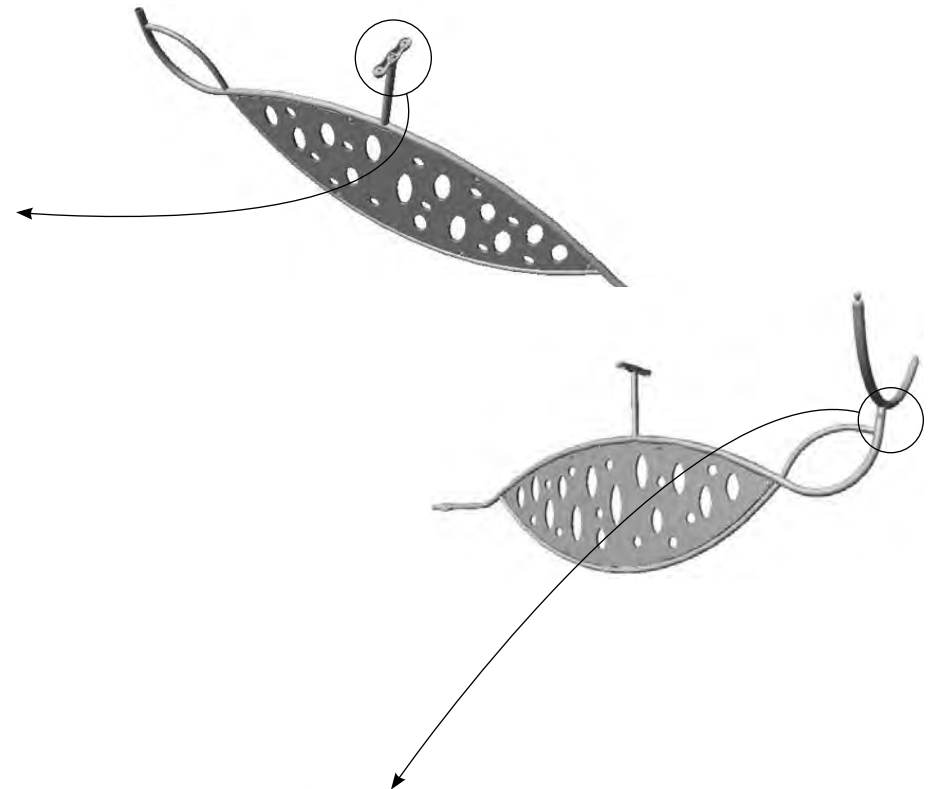
Note: There is an "L" routed on one end of the climber. This must be positioned to the bottom of the climber frame. Contour of the climber panel must match the contour of the climber frame.

Installation Instructions



Detail E
Step 8

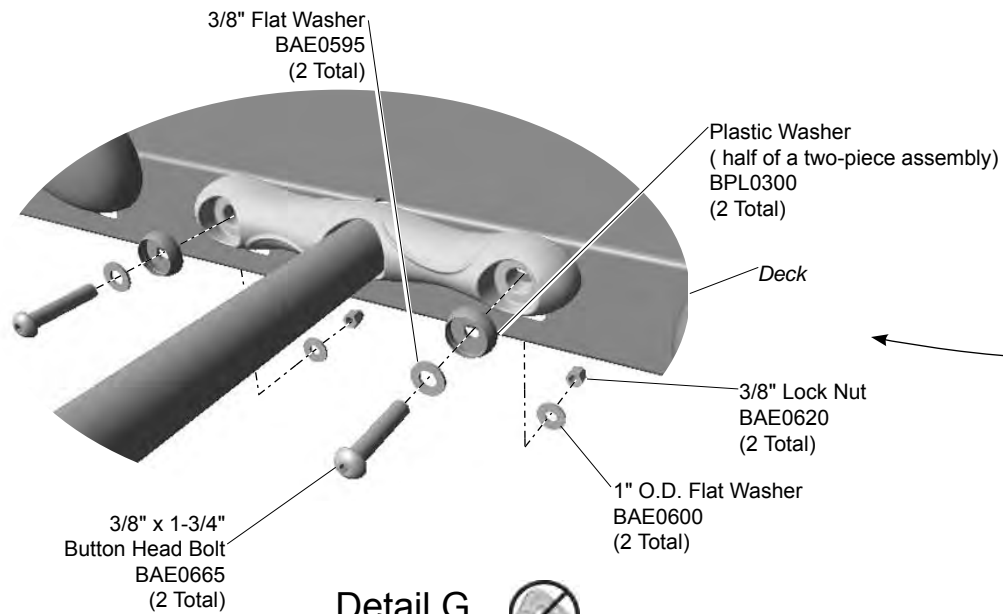
Attach the deck connection casting to the climber frame.



Detail F
Step 9

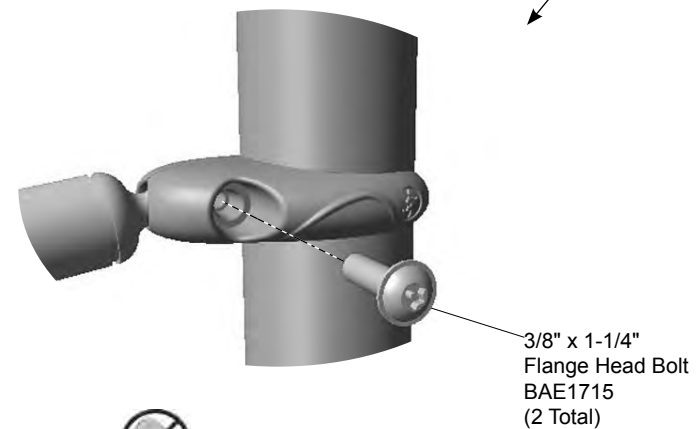
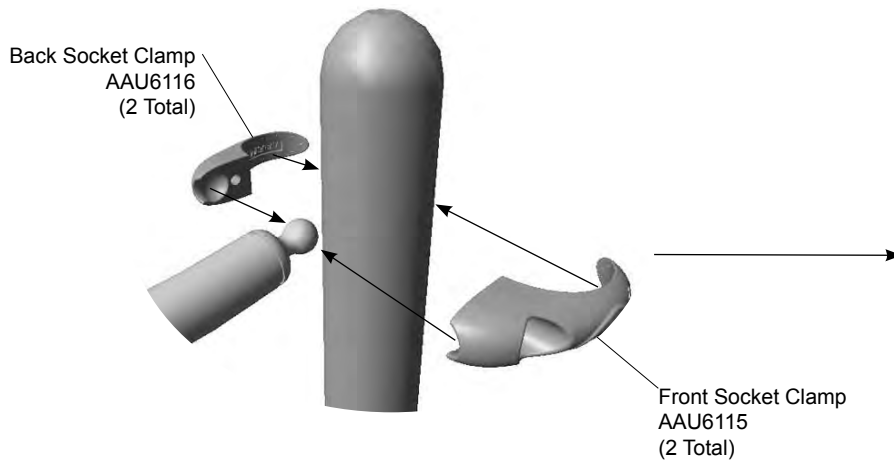
Attach the climber support frame to the climber frame.

Installation Instructions



Detail G
Step 10

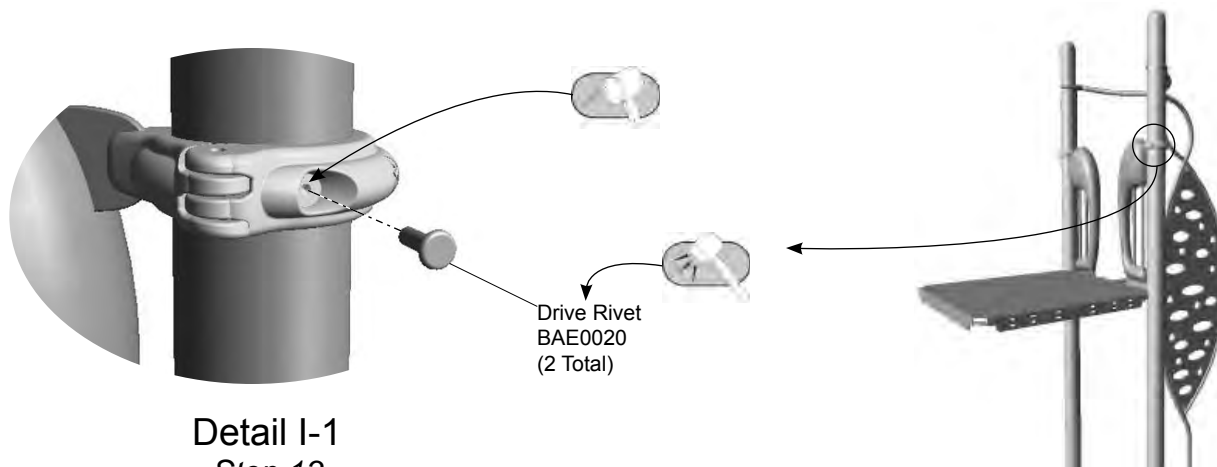
Attach the climber to the deck.



Detail H
Step 11

Attach the climber assembly to the support posts.

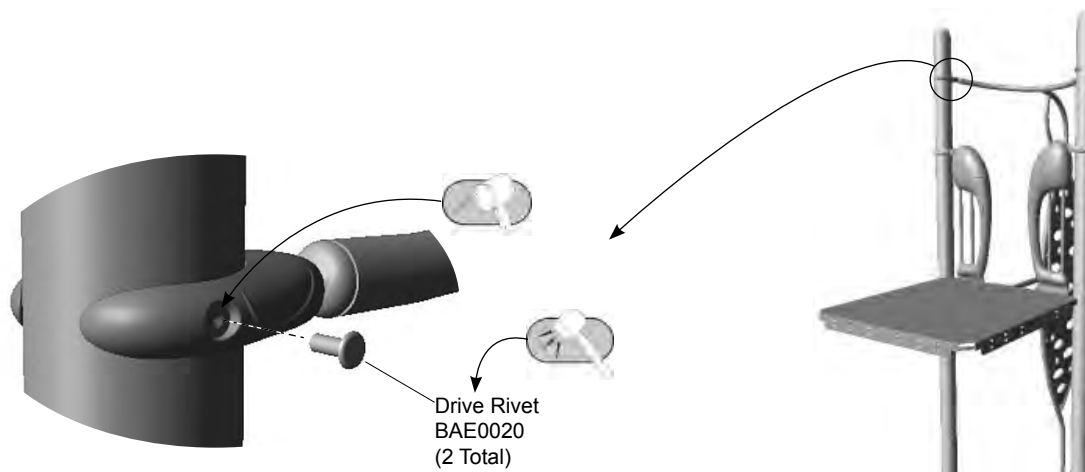
Installation Instructions



Detail I-1

Step 13

Secure the clamp to the support post.

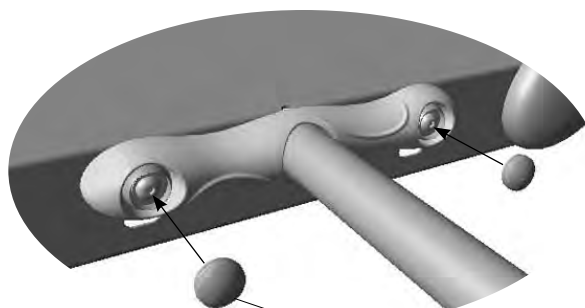


Detail I-2

Step 13

Secure the front socket clamp to the support post.

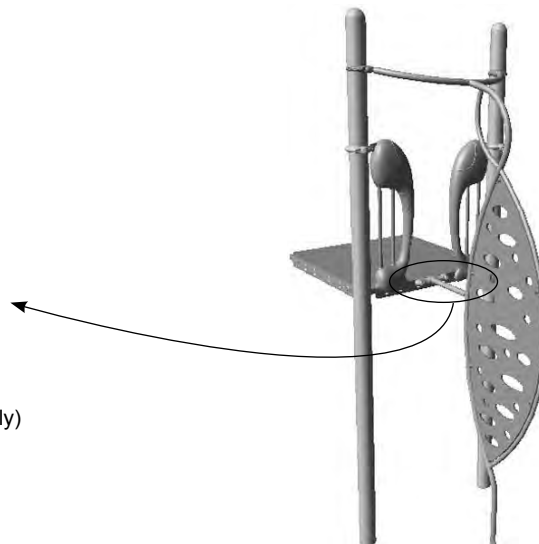
Installation Instructions



Plastic Bolt Cap
(half of a two-piece assembly)
BPL0300
(2 Total)

Detail J Step 14

Press the bolt caps into the plastic washers (deck connection casting).



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Detail** in the *Guidelines* at the beginning of this instruction booklet.

Step 4: Attach a clamp to each access gate tab. See **Detail A**. Position the flat side of each clamp against a gate tab, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Note the side of the gate that faces the deck.

Step 5: Attach the access gates to the deck. See **Detail B**. Position the access gates against the deck with the clamps closed around the support posts, and attach as shown. Gates may be attached to the upper holes or the lower holes in the deck.

Step 6: Attach the access gates to the support posts. See **Detail C**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 7: Attach the climber panel to the climber frame. See **Detail D**. Position the side of the climber panel with the routed out edges against the tabs on the climber frame and attach as shown. Fully tighten the fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Attach the deck connection casting to the climber frame. See **Detail E**. Position the casting against the climber and attach as shown. Fully tighten the fasteners according to tightening torque specifications.

Step 9: Attach the climber support frame to the climber frame. See **Detail F**. Slide the support frame into the top of the climber frame, align the holes, apply a drop of thread locking adhesive to the bolt thread and attach as shown.

Step 10: Attach the climber to the deck. See **Detail G**. Place the climber assembly in it's footing with the deck connection casting aligned with the deck and attach as shown.

Step 11: Attach the climber assembly to the support posts. See **Detail H**. Position each socket clamp against a support post and over the ball on the end of the climber support frame attach as shown.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 13: Install drive rivets. See **Details I-1 and I-2**. After the equipment assembly is complete, install a drive rivet in the centerline clamp and the front socket clamp to permanently secure them to the support posts. Using a 1/4" drill bit, drill through each clamp and the support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp or handle. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select plastic bolt caps and press into the plastic washers. See **Detail J**. The bolt caps install more easily when they are warm.

PM7046 - NUVO™ TWIST CLIMBER 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	1
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0390	CLIMBER - 43.25" x 118.31" TWIST	1
ACL0409	CLIMBER - 1.66" O.D. PM ARCH w/1 CNNCTR STRAIGHT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	7
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BFC3507	CLIMBER - .75" x 24.13" x 60.55"	1
BPL0300	CAP - 3/8" BOLT	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1

PM7047 - NUVO™ TWIST CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	1
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0392	CLIMBER - 47.25" x 130.31" TWIST	1
ACL0409	CLIMBER - 1.66" O.D. PM ARCH w/1 CNNCTR STRAIGHT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	11
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	7
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BFC3508	CLIMBER - .75" x 28.15" x 72.40"	1
BPL0300	CAP - 3/8" BOLT	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1



PM7048 - NUVO™ TWIST CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	1
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0394	CLIMBER - 49.25" x 142.31" TWIST	1
ACL0409	CLIMBER - 1.66" O.D. PM ARCH w/1 CNNCTR STRAIGHT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	9
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BFC3509	CLIMBER - .75" x 30.15" x 85.17"	1
BPL0300	CAP - 3/8" BOLT	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1

PM7049 - NUVO™ TWIST CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0777	CASTING - PM LOOP CLIMBER DECK CONNECTION	1
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0396	CLIMBER - 52.25" x 154.31" TWIST	1
ACL0409	CLIMBER - 1.66" O.D. PM ARCH w/1 CNNCTR STRAIGHT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	9
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	2
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
BFC3510	CLIMBER - .75" x 33.15" x 97.87"	1
BPL0300	CAP - 3/8" BOLT	2
RAA_____	GATE - ACCESS LEFT	1
RAB_____	GATE - ACCESS RIGHT	1



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Assembly View (36" (914 mm) model shown)

Model	Deck Height
ZZPM7236 & ZZPM7236S	36" (914 mm)
ZZPM7237 & ZZPM7237S	48" (1219 mm)
ZZPM7238 & ZZPM7238S	60" (1524 mm)
ZZPM7239 & ZZPM7239S	72" (1829 mm)

Installation Instructions





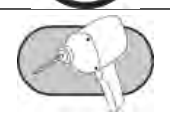

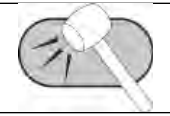
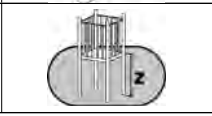
Playmakers® Model PM7236(S), PM7237(S),
PM7238(S), and PM7239(S)

Rope Ladder In-Ground Mount and Surface Mount
36" (914 mm), 48" (1219 mm), 60" (1524 mm) & 72"
(1829 mm) Deck Heights

Installation Preparation

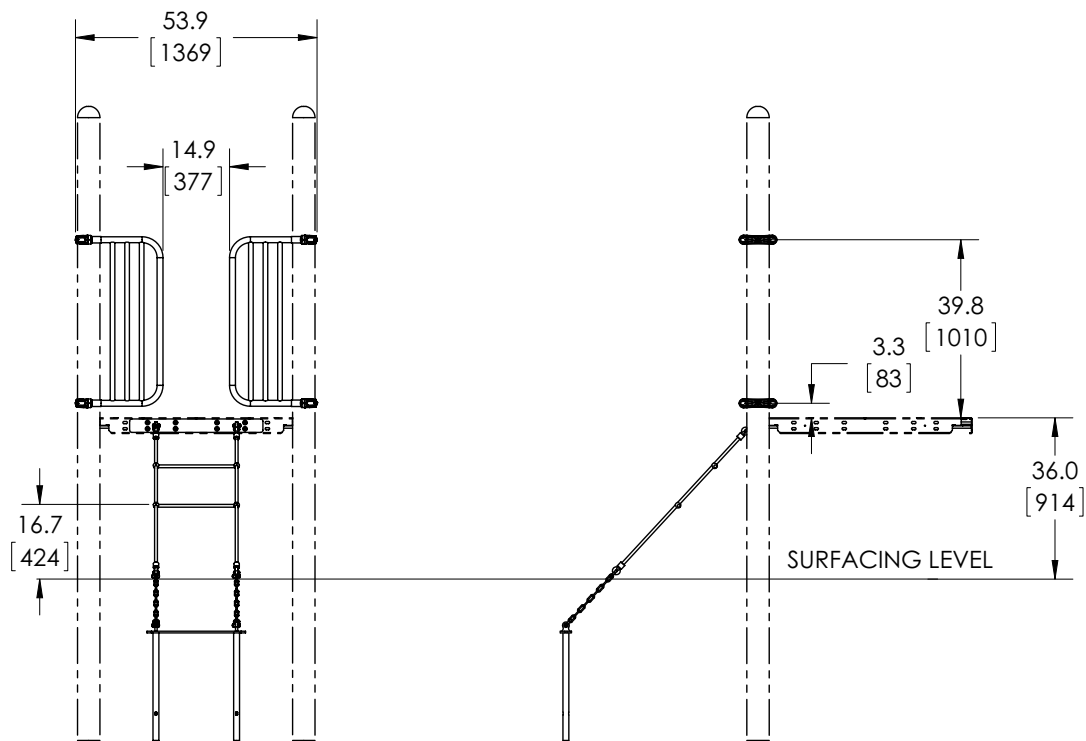
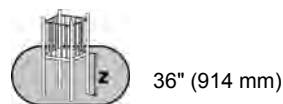
Recommended Crew: Two (2) adults
Installation Time (in-ground): 2 man-hours
Installation Time (surface mount): 1 man-hour
Concrete Required (in-ground only): 0.06 cubic yard (0,05 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): 36"-60": ASTM/CSA: 2-12, EN: 2-14
..... 60"-72": ASTM/CSA: 5-12, EN: 6-14

ICON KEY

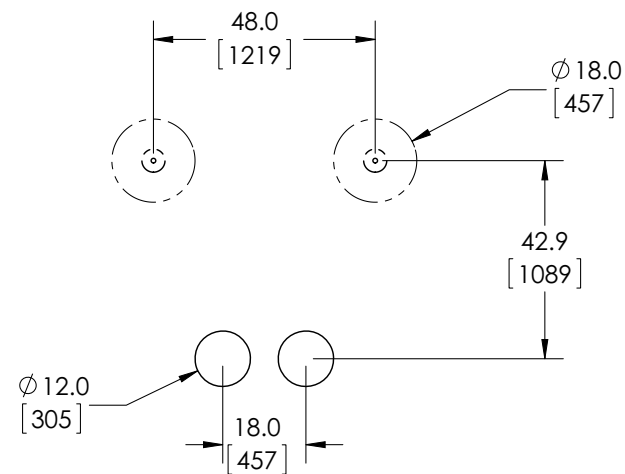
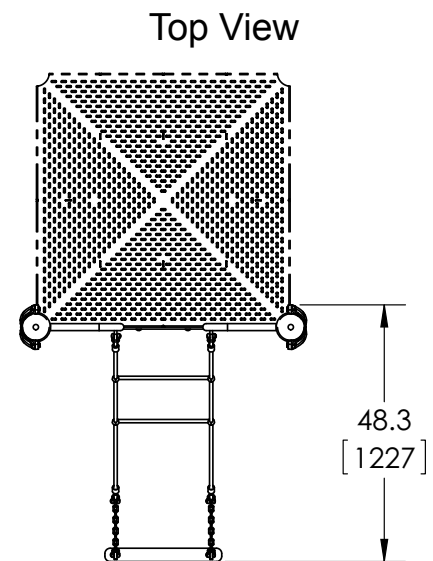
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views PM7236

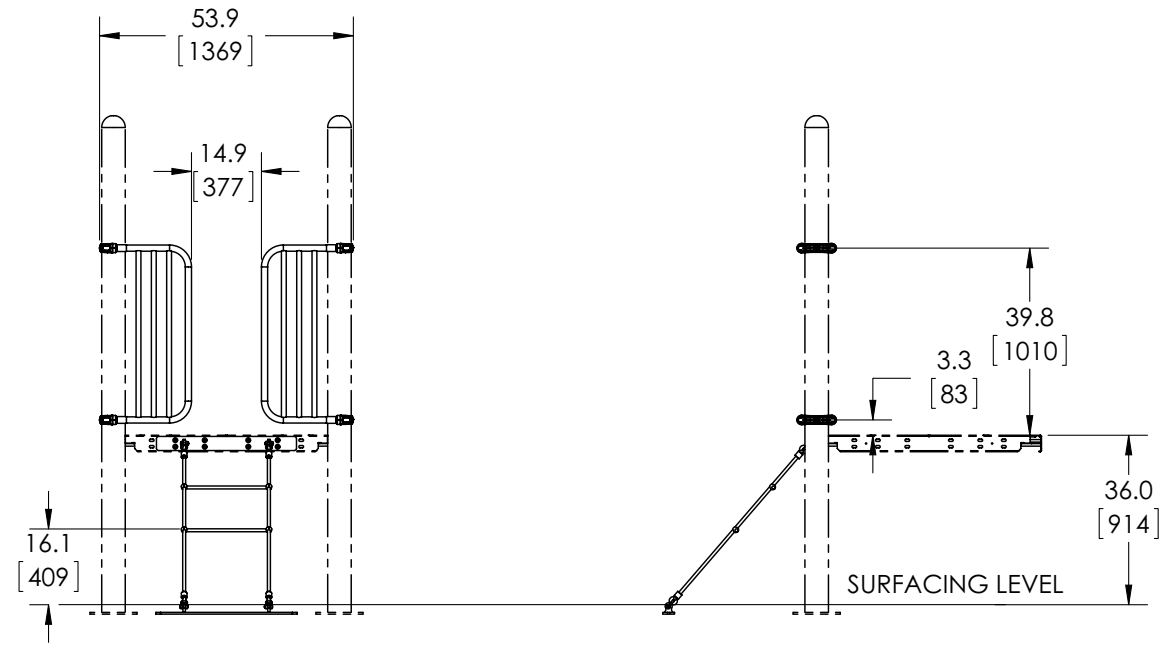
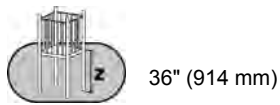


Footing Diagram

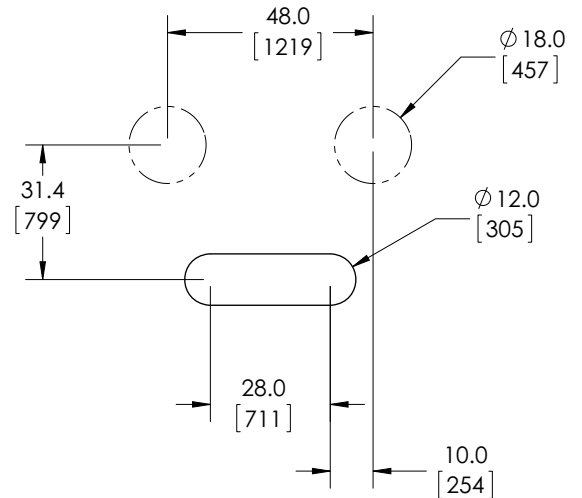
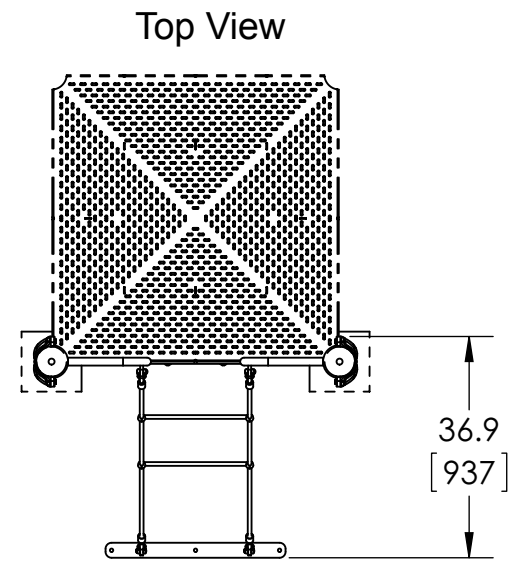


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views PM7236S
Surface Mount

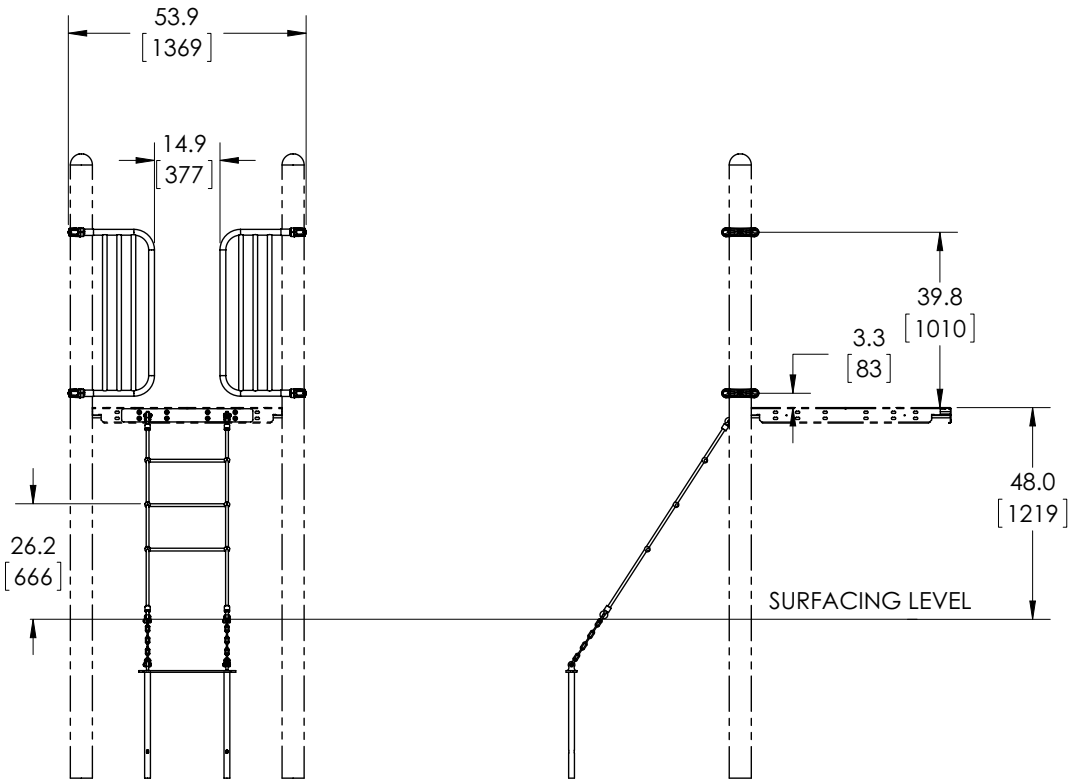
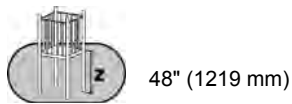


Footing Diagram



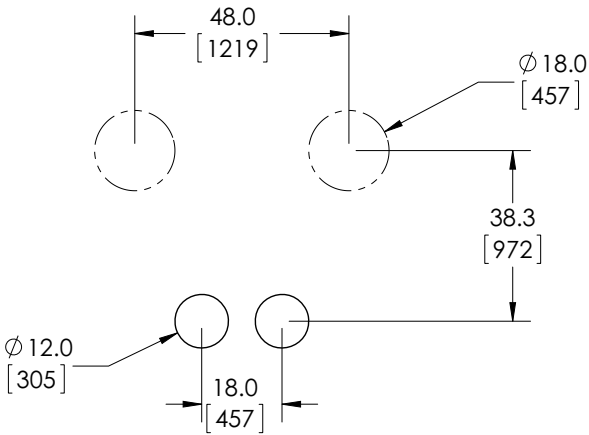
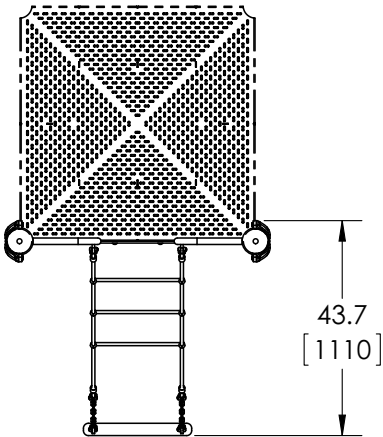
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views PM7237

Top View

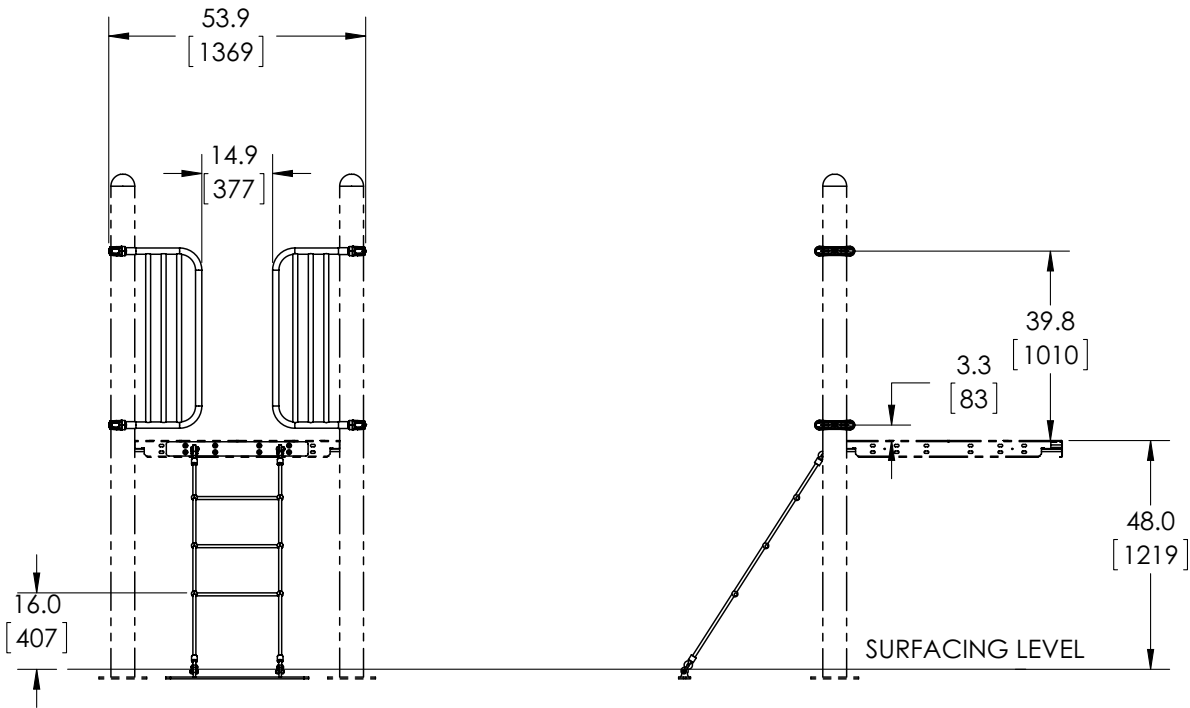
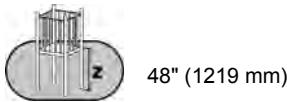


Footing Diagram

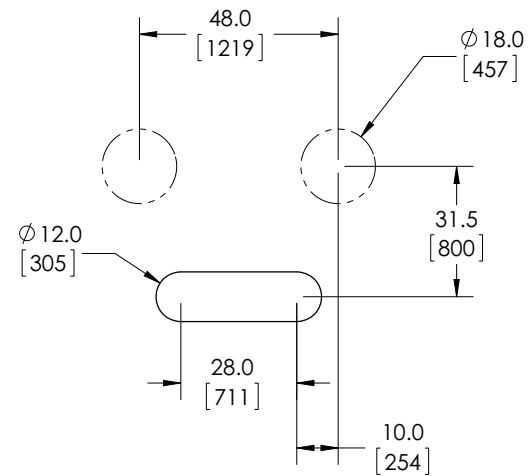
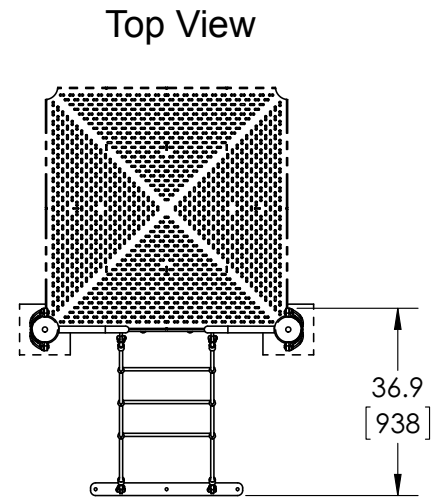


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views PM7237S
Surface Mount

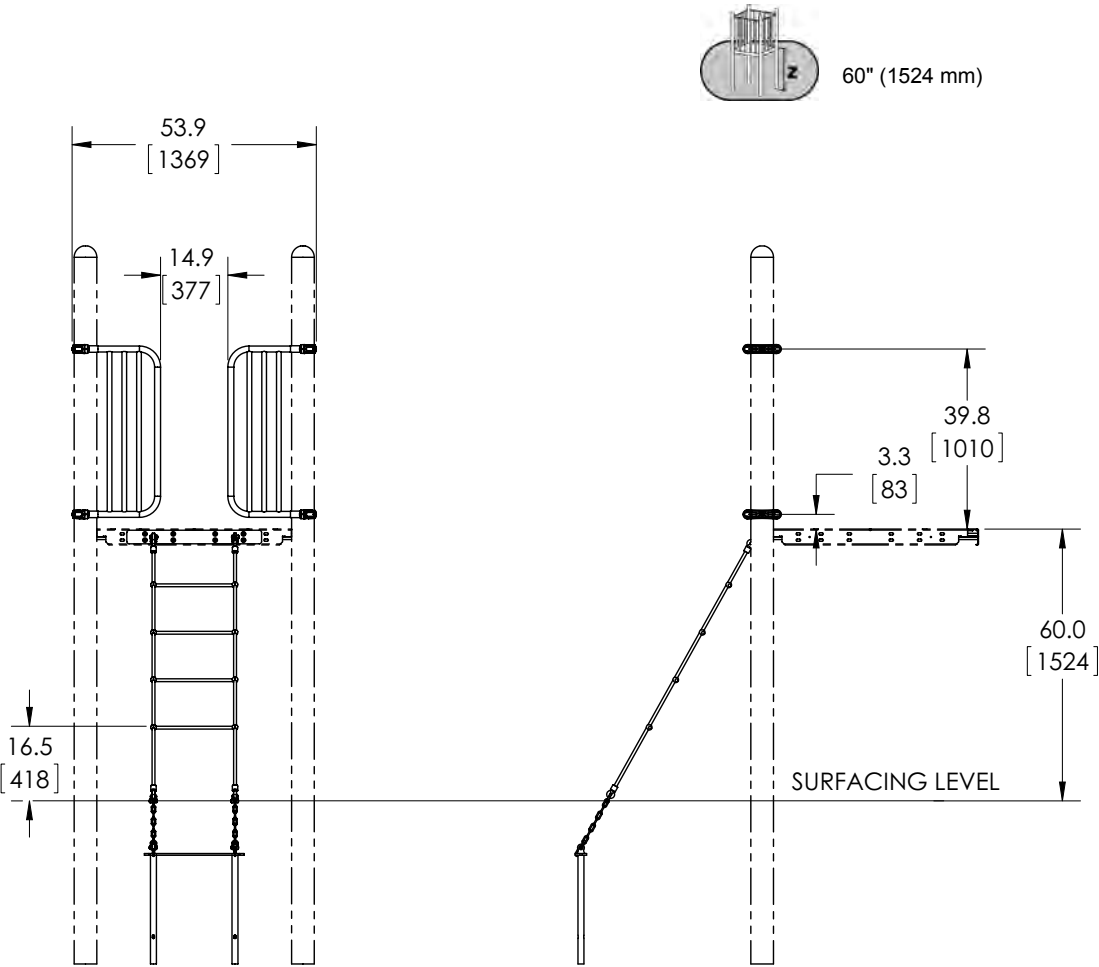


Footings Diagram

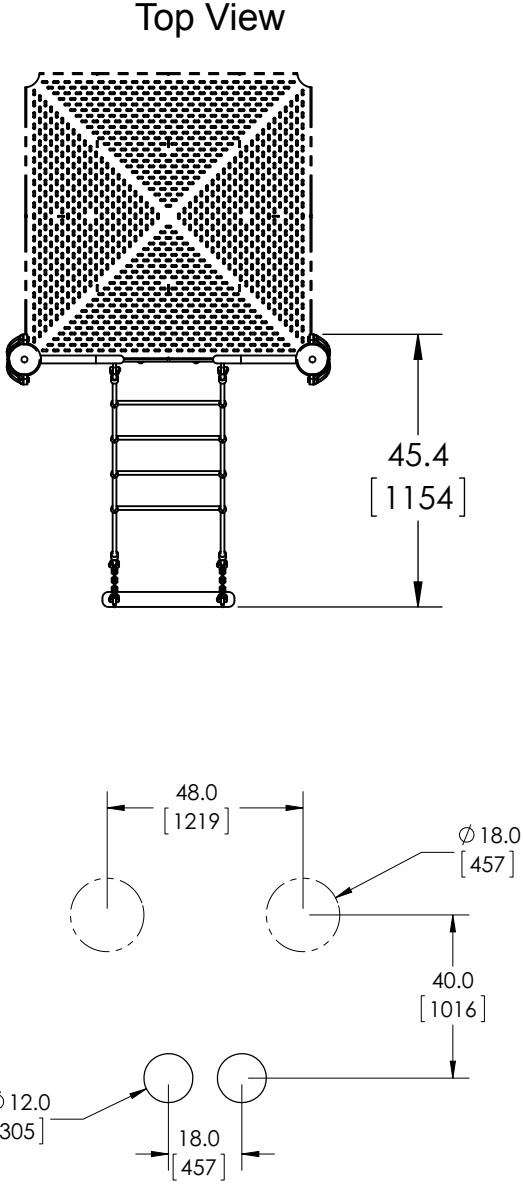
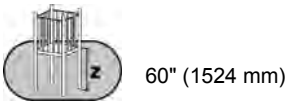


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views PM7238

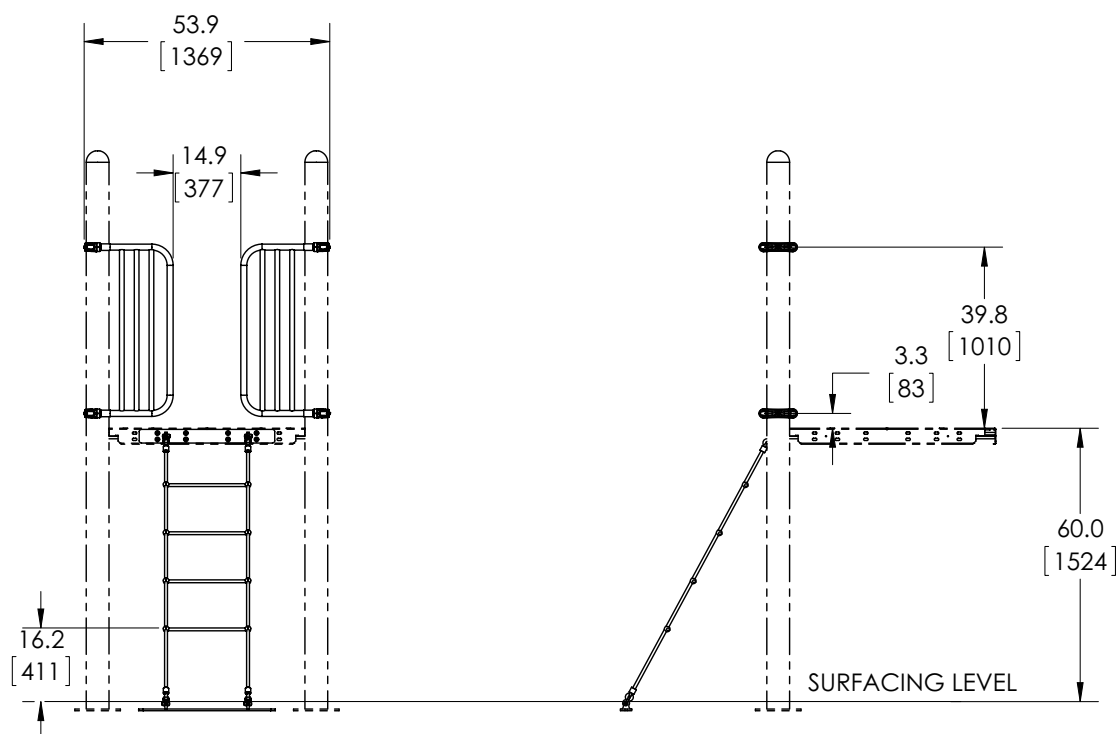


Footing Diagram



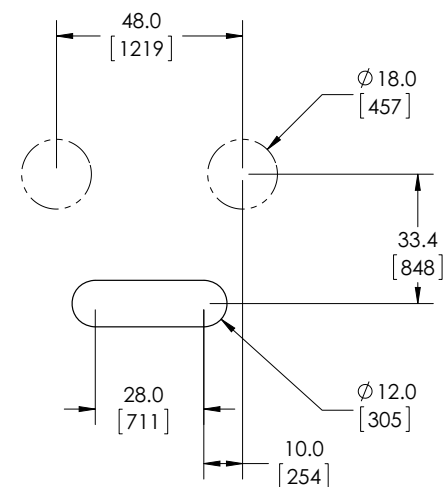
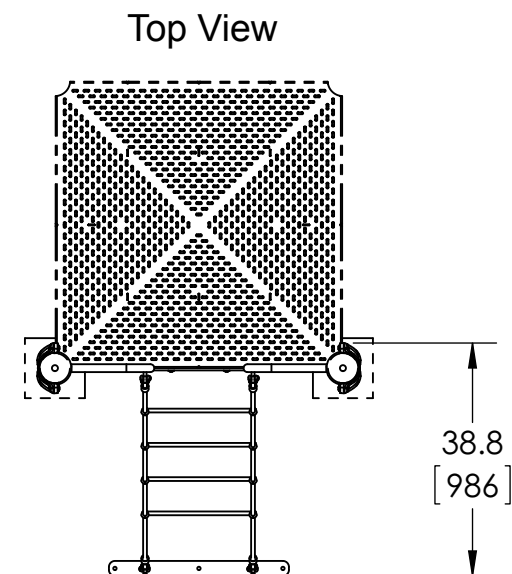
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views PM7238S

Surface Mount

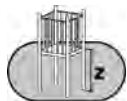


Footing Diagram

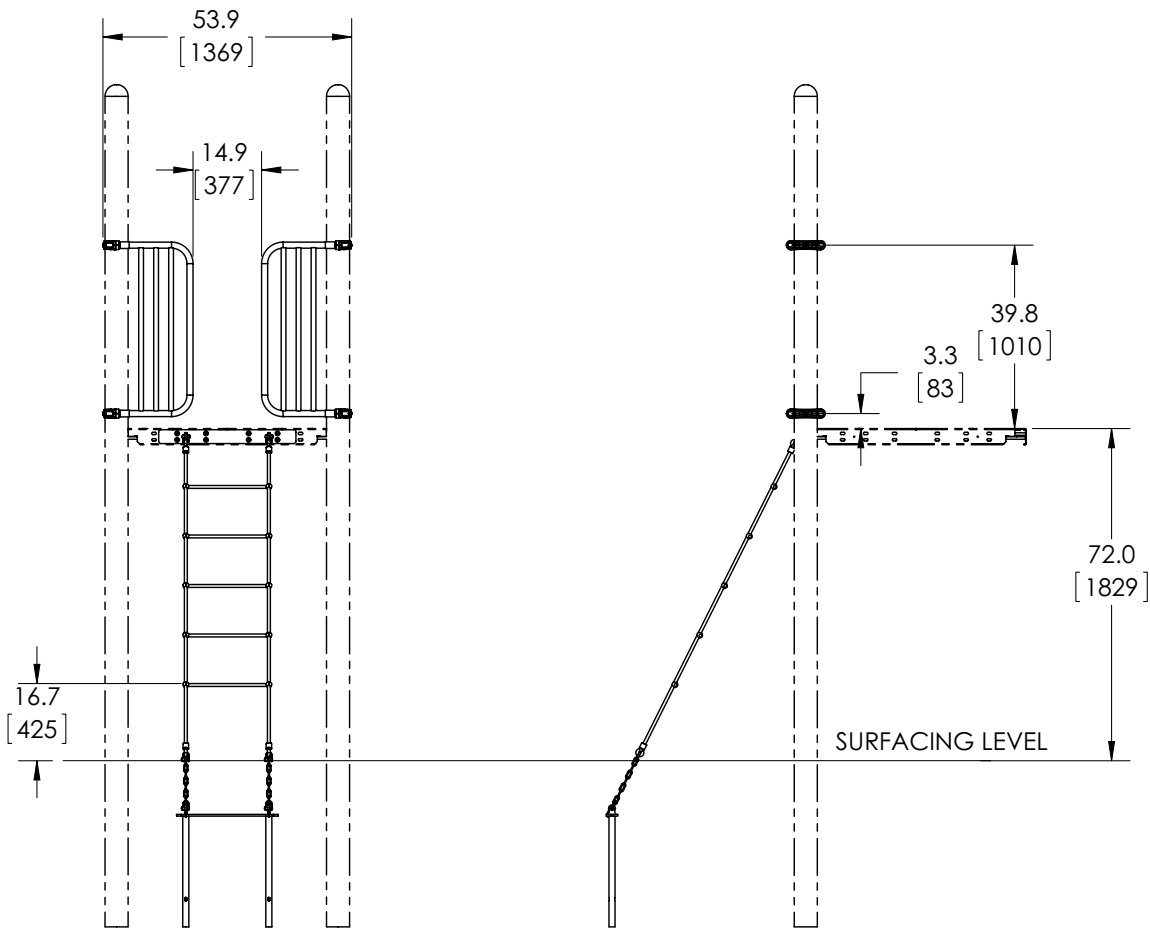


Installation Instructions

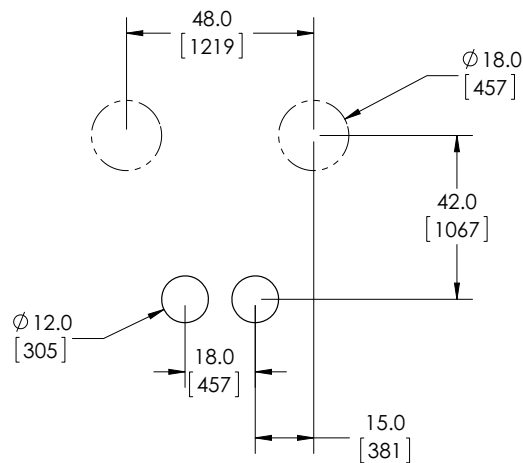
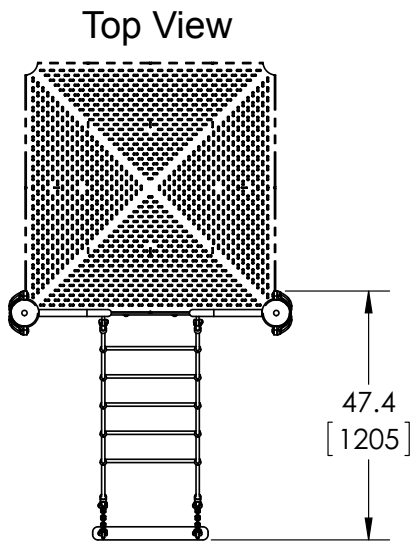
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



72" (1829 mm)



Elevation Views PM7239

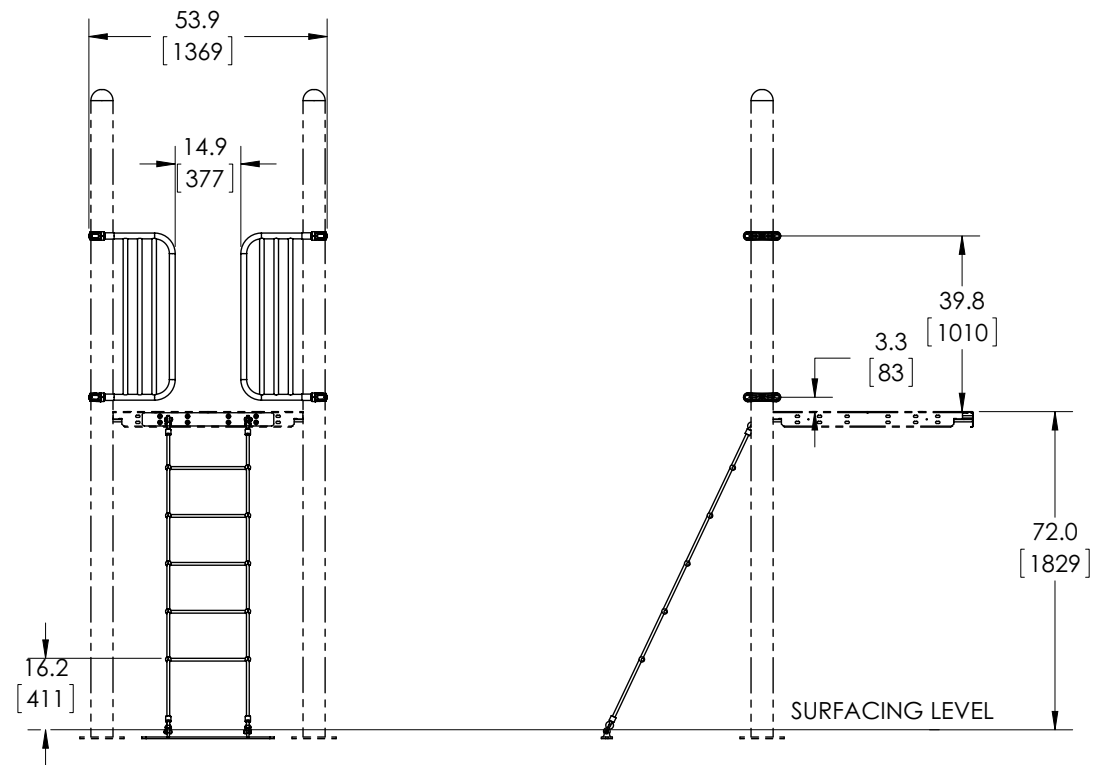
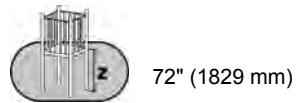


Footing Diagram

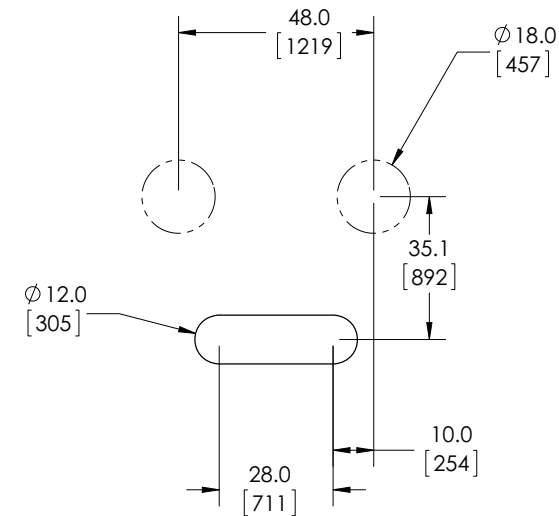
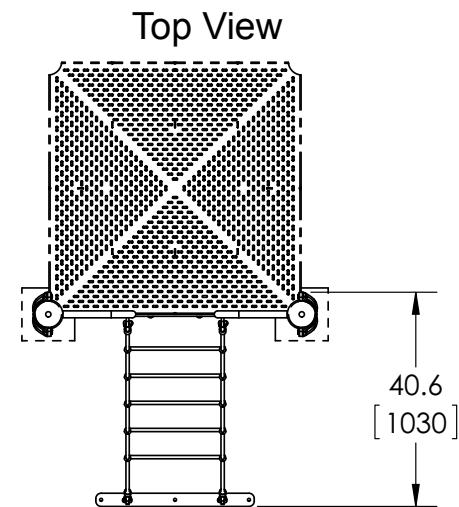


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views PM7239S
Surface Mount

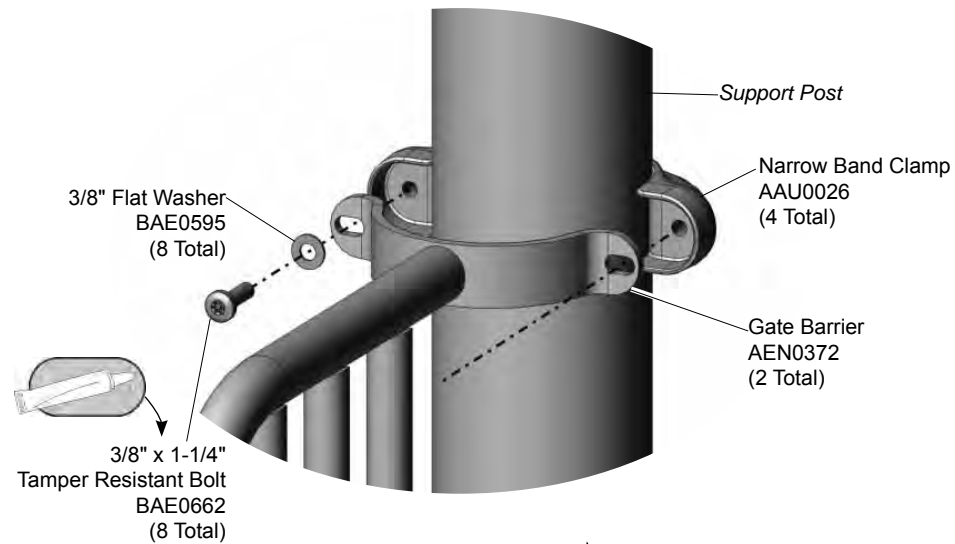


Footings Diagram



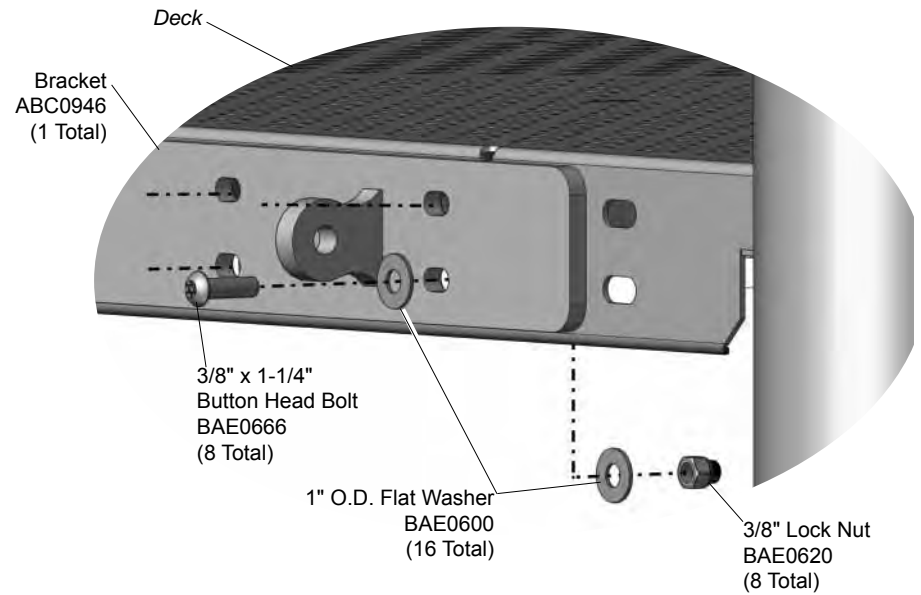
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 13.



Detail A
Step 4

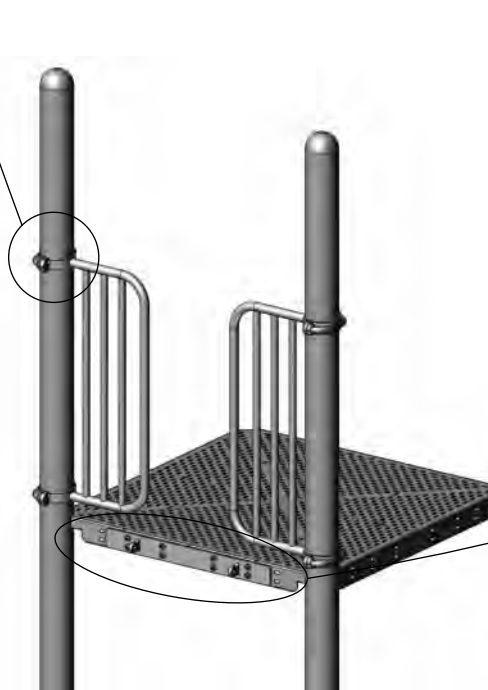
Attach the barriers to the support post.



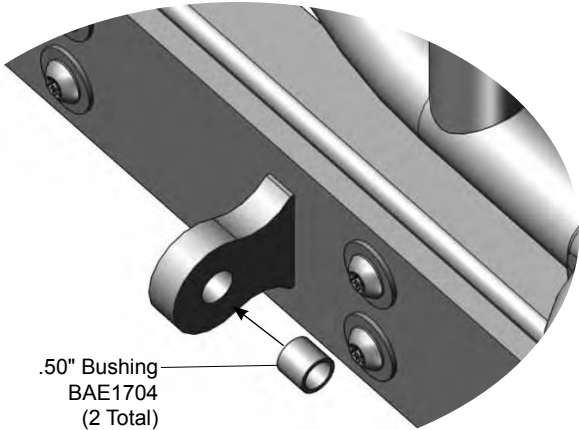
Detail B
Step 5

Attach the bracket to the deck.

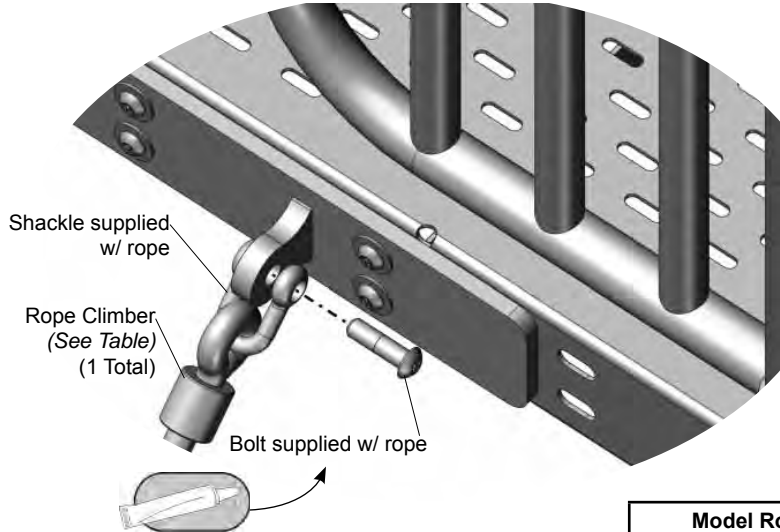
Note: Leave the outside bolt holes open on both sides of the deck.



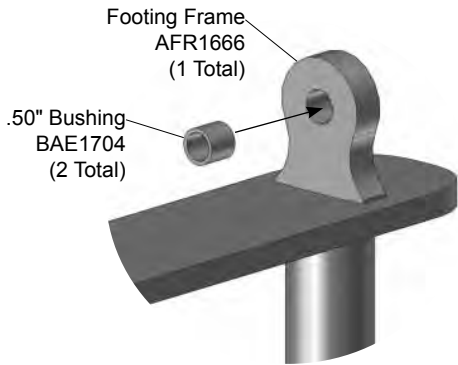
Installation Instructions



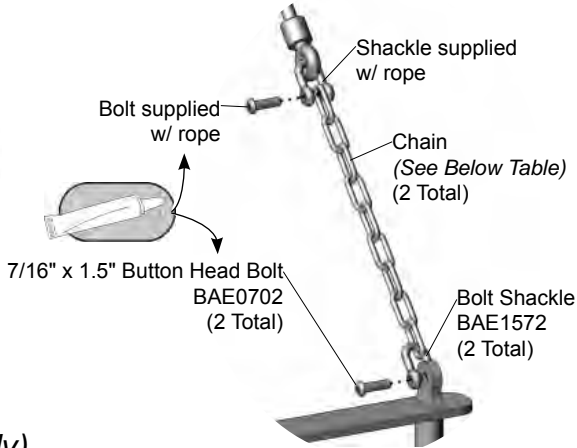
Detail C-1
Step 6
Insert the bushing into the bracket.



Detail C-2
Step 6
Attach the rope climber to the deck.

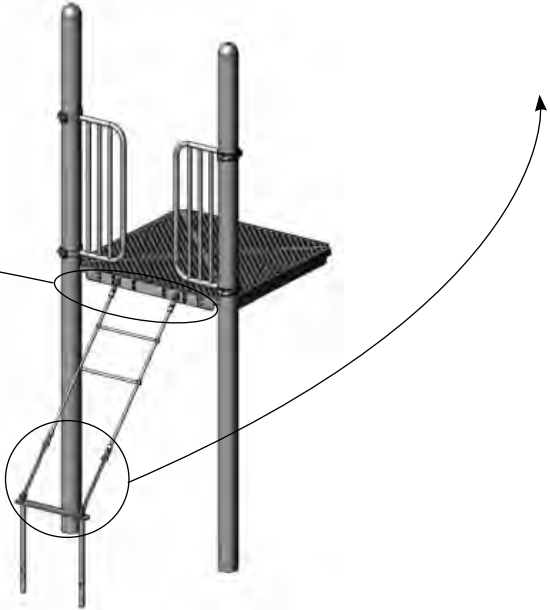


Detail D-1
Step 7
(In-Ground Mount Only)
Insert the bushing into the footing frame.

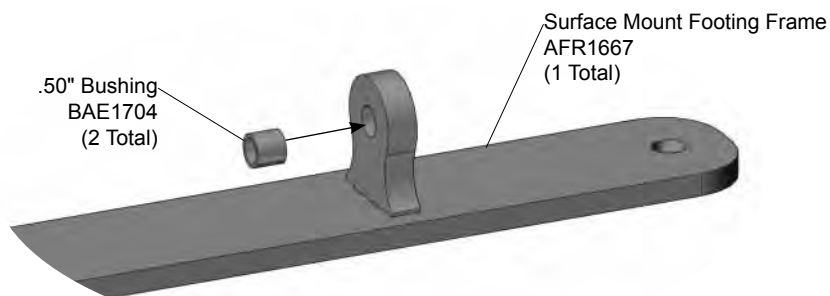


Detail D-2
Step 7
(In-Ground Mount Only)
Attach the chain to the climber and footing frame.

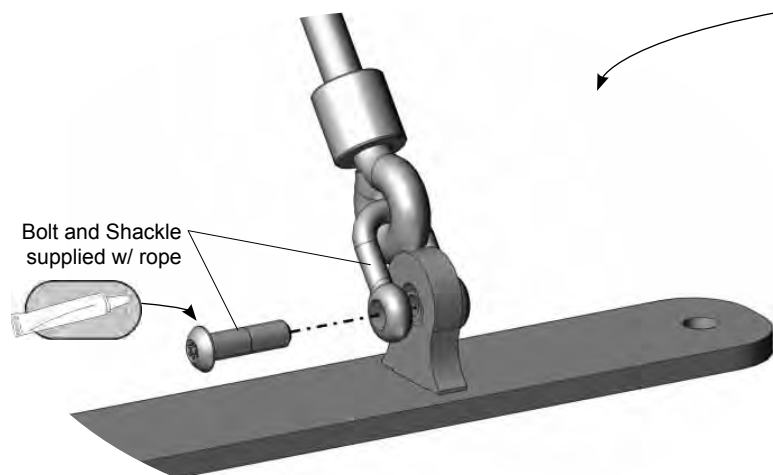
Model Rope / Chain	Deck Height
AMC0701 / ACN0109	36" (914 mm)
AMC0702 / ACN0101	48" (1219 mm)
AMC0703 / ACN0101	60" (1524 mm)
AMC0704 / ACN0101	72" (1829 mm)



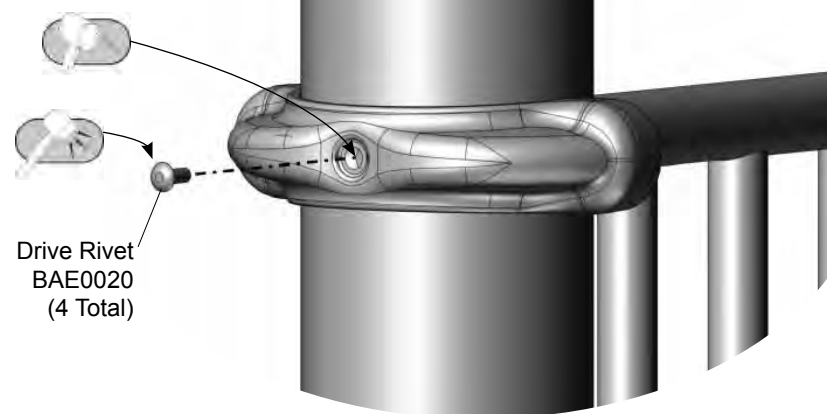
Installation Instructions



Detail E-1
Step 8
(Surface Mount Only)
Insert bushing into the footing frame.



Detail E-2
Step 8
(Surface Mount Only)
Attach the climber to the footing frame.



Detail F
Step 10
Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component** or **Surface Mount Footing Details** in the *Playmaker Guidelines*.

Step 4: Attach the barriers to the support post. See **Detail A**. Select the two gate barriers, four band clamps and appropriate hardware. Position the barriers on the support posts (using the **Elevation Views**), align the band clamp with the holes on the barriers, apply thread locking adhesive to the bolt threads, and attach as shown.

Step 5: Attach the bracket to the deck. See **Detail B**. Align the holes in the bracket with the holes on the deck (**leaving the outside holes open on both sides of the deck**), and attach as shown in both the top and bottom holes in the bracket. There are a total of eight connections.

Step 6: Attach the rope climber to the deck. See **Details C-1 and C-2**. Insert the bushing into the bracket as shown in **Detail C-1**. Attach the rope climber to the deck, using the bolts and shackles supplied with the rope climber, apply thread locking adhesive to the bolt threads, and attach as shown in **Detail C-2**.

Step 7 (In-Ground Mount Only): Attach the climber to the footing frame. See **Details D-1 and D-2**. Insert the bushing into the footing frame as shown in **Detail D-1**. Attach the top link of the chain to the rope climber using the shackle and bolt supplied with the rope climber. Apply thread locking adhesive to the bolt threads, and attach as shown. Next, attach the chain to the footing frame, apply thread locking adhesive to the bolt threads, and attach as shown in **Detail D-2**.

Step 8 (Surface Mount Only): Attach the climber to the footing frame. See **Details E-1 and E-2**. Insert the bushings into the footing frame as shown in **Detail E-1**. Attach the climber to the footing frame, using the bolts and shackles

supplied with the rope, apply thread locking adhesive to the bolt threads, and attach as shown in **Detail E-2**.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

(In-Ground): Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

(Surface Mount): Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 10: Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM7236 - ROPE CLIMBER 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0946	BRACKET - ROPE LADDER	1
ACN0109	CHAIN - 5/0 SILVER SHIELD CHAIN - 9 LINKS	2
AEN0372	BARRIER - 16.44" x 37.94" GATE	2
AFR1666	FRAME - ROPE LADDER FOOTING	1
AMC0701	CLIMBER - 36" ROPE LADDER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	8
BAE0702	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PARTI THREADED	2
BAE1572	7/16" BOLT SHACKLE	2
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	4

PM7236S - ROPE CLIMBER 36 in. (914 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0946	BRACKET - ROPE LADDER	1
AEN0372	BARRIER - 16.44" x 37.94" GATE	2
AFR1667	FRAME - ROPE LADDER FOOTING	1
AMC0701	CLIMBER - 36" ROPE LADDER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	8
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	4



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Bill of Materials

PM7237 - ROPE CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0946	BRACKET - ROPE LADDER	1
ACN0101	CHAIN - 5/0 SILVER SHIELD CHAIN - 7 LINKS	2
AEN0372	BARRIER - 16.44" x 37.94" GATE	2
AFR1666	FRAME - ROPE LADDER FOOTING	1
AMC0702	CLIMBER - 48" ROPE LADDER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	8
BAE0702	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	2
BAE1572	7/16" BOLT SHACKLE	2
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	4

PM7237S - ROPE CLIMBER 48 in. (1219 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0946	BRACKET - ROPE LADDER	1
AEN0372	BARRIER - 16.44" x 37.94" GATE	2
AFR1667	FRAME - ROPE LADDER FOOTING	1
AMC0702	CLIMBER - 48" ROPE LADDER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	8
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	4



The world needs play.

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PM7238 - ROPE CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0946	BRACKET - ROPE LADDER	1
ACN0101	CHAIN - 5/0 SILVER SHIELD CHAIN - 7 LINKS	2
AEN0372	BARRIER - 16.44" x 37.94" GATE	2
AFR1666	FRAME - ROPE LADDER FOOTING	1
AMC0703	CLIMBER - 60" ROPE LADDER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	8
BAE0702	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	2
BAE1572	7/16" BOLT SHACKLE	2
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	4

PM7238S - ROPE CLIMBER 60 in. (1524 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0946	BRACKET - ROPE LADDER	1
AEN0372	BARRIER - 16.44" x 37.94" GATE	2
AFR1667	FRAME - ROPE LADDER FOOTING	1
AMC0703	CLIMBER - 60" ROPE LADDER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	8
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	4



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Bill of Materials

PM7239 - ROPE CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0946	BRACKET - ROPE LADDER	1
ACN0101	CHAIN - 5/0 SILVER SHIELD CHAIN - 7 LINKS	2
AEN0372	BARRIER - 16.44" x 37.94" GATE	2
AFR1666	FRAME - ROPE LADDER FOOTING	1
AMC0704	CLIMBER - 72" ROPE LADDER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	8
BAE0702	BOLT - 7/16"-14 x 1.5" BUTTON HEAD PART THREADED	2
BAE1572	7/16" BOLT SHACKLE	2
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	4

PM7239S - ROPE CLIMBER 72 in. (1829 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
ABC0946	BRACKET - ROPE LADDER	1
AEN0372	BARRIER - 16.44" x 37.94" GATE	2
AFR1667	FRAME - ROPE LADDER FOOTING	1
AMC0704	CLIMBER - 72" ROPE LADDER	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1.25" TAMP RESIST w/TORX DRIVE	8
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	8
BAE1704	BUSHING - .44" I.D. x .56" O.D. x .50"	4



The world needs play.

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Assembly View (representative models)

	PM8289	PM8290	PM8300	PM8310
Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Weight	52 lbs 23.6 kilos	59.1 lbs. 26.9 kilos	63.4 lbs. 28.8 kilos	69 lbs. 31.4 kilos

Installation Instructions

Playworld Systems

Models PM8289, PM8290, PM8300, PM8310

Ribbon Climber

36 in. (914 mm), 48 in. (1219 mm),
60 in. (1524 mm), 72 in. (1829 mm)

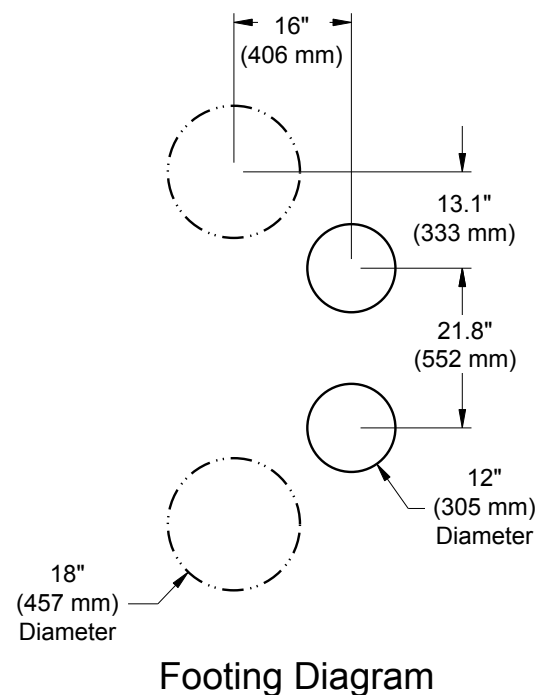
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1.5 hours
 Weight: See table at lower left
 Concrete Required: 0.06 cubic yard (0,5 cubic meters)
 Use Zone: Refer to Use Zone on Master Drawing
 User Group Age (years): 36"-60": ASTM/CSA: 2-12, EN: 2-14
 60"-72": ASTM/CSA: 5-12, EN: 6-14

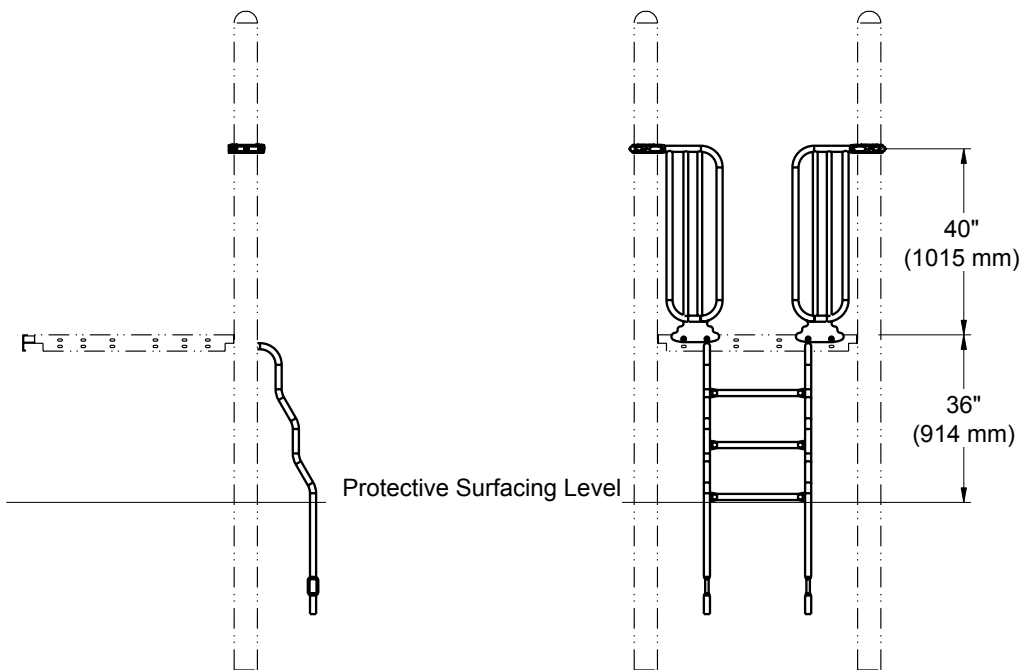
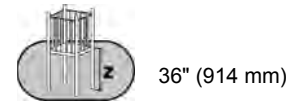
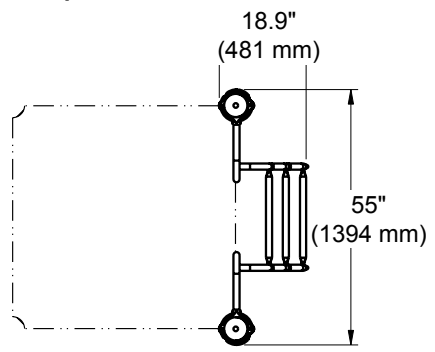
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions



Top View

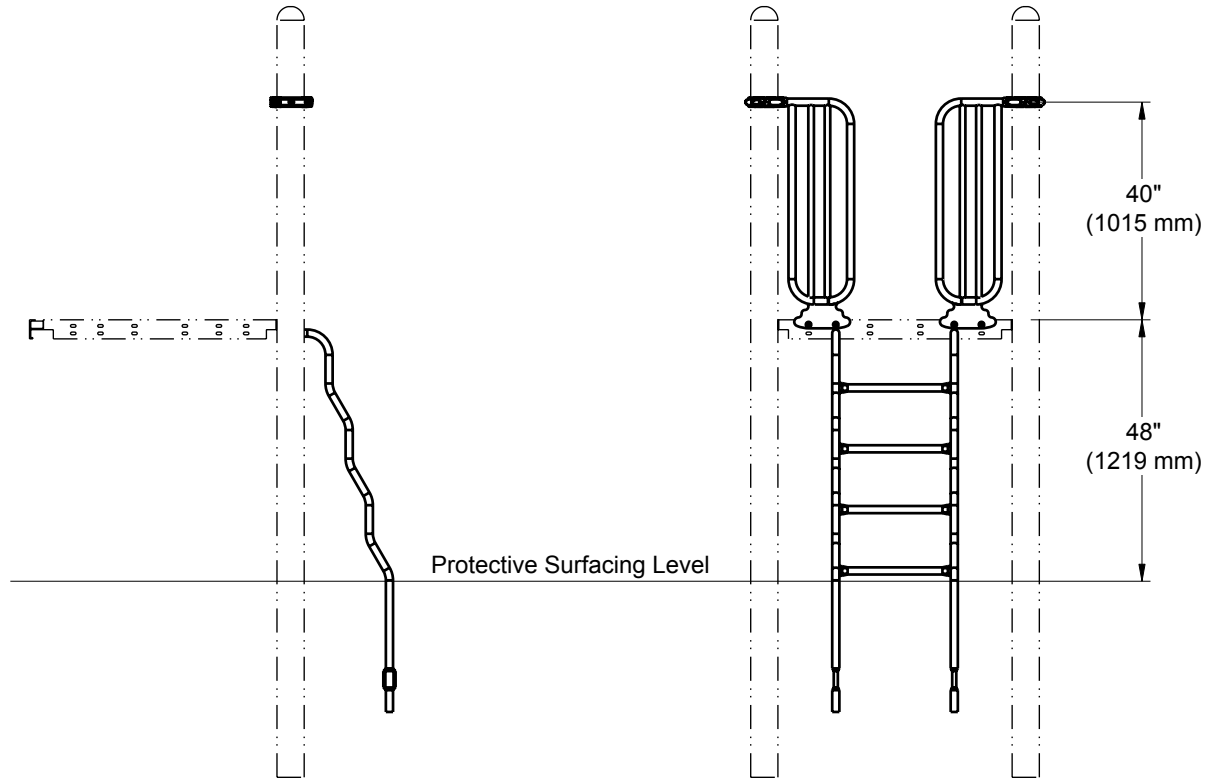
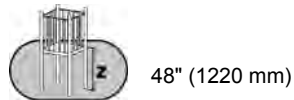
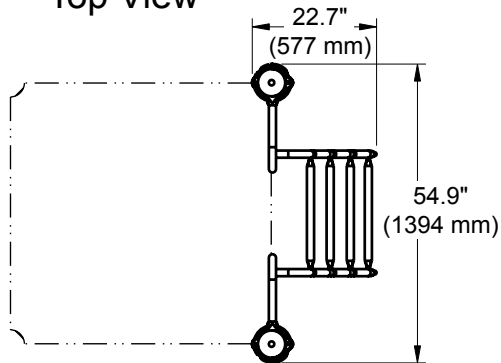


Elevation View
36" (914 mm) Deck

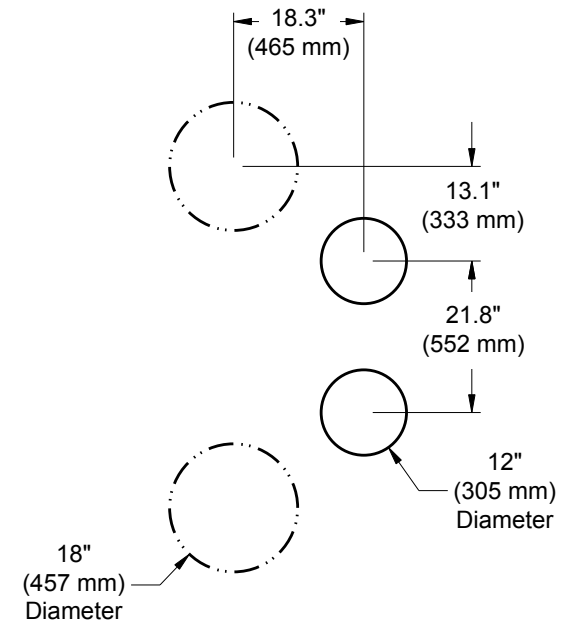


Installation Instructions

Top View



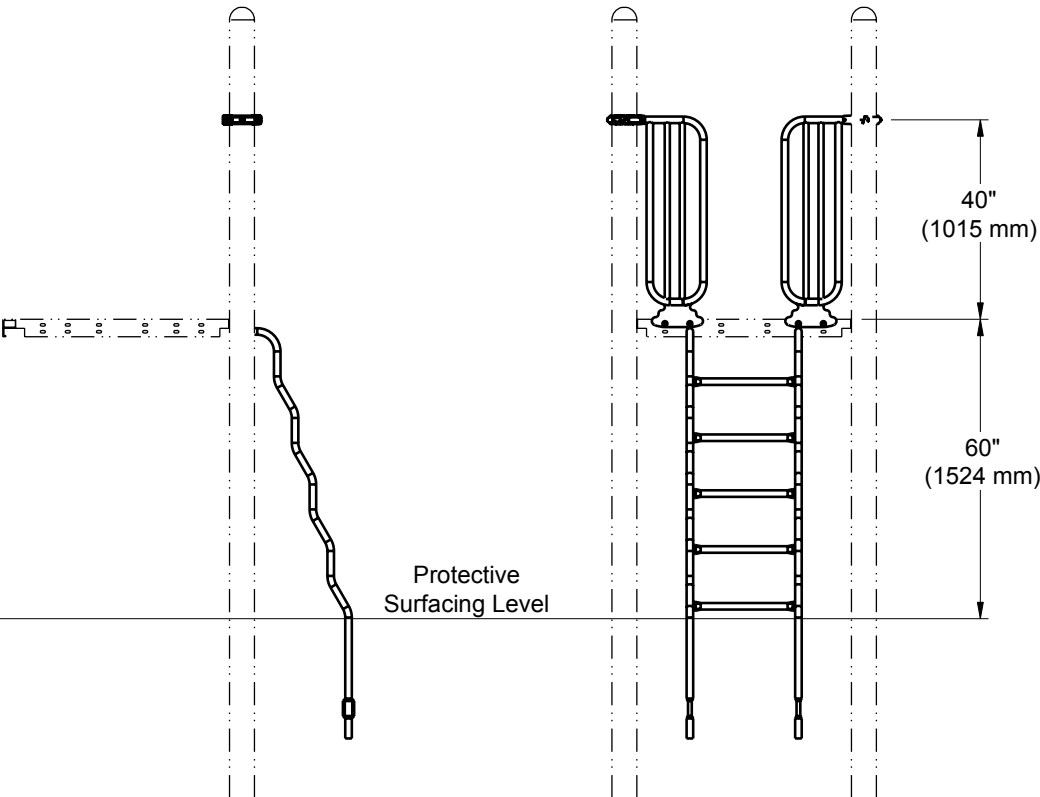
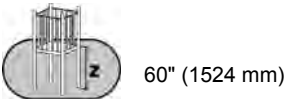
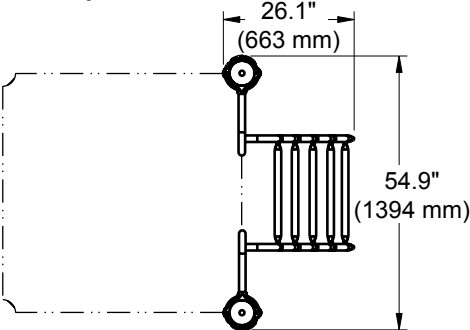
Elevation View
48" (1219 mm) Deck



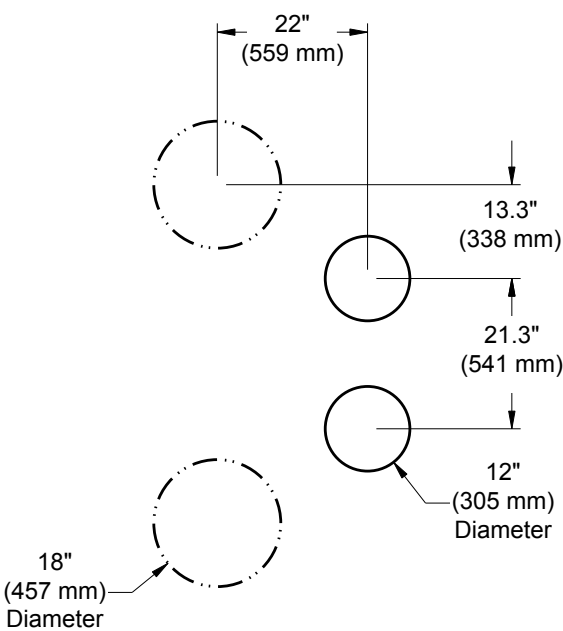
Footing Diagram

Installation Instructions

Top View



Elevation View
60" (1524 mm) Deck

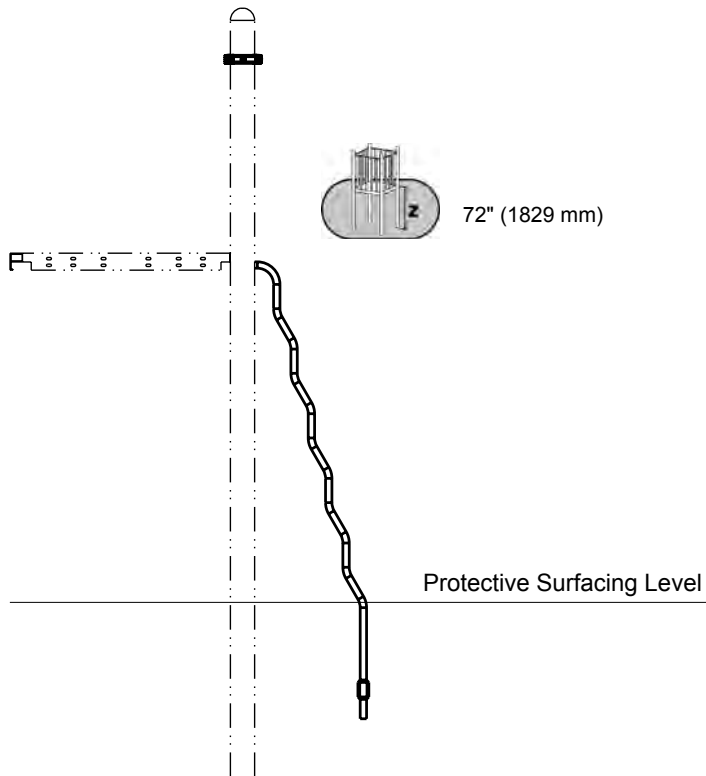
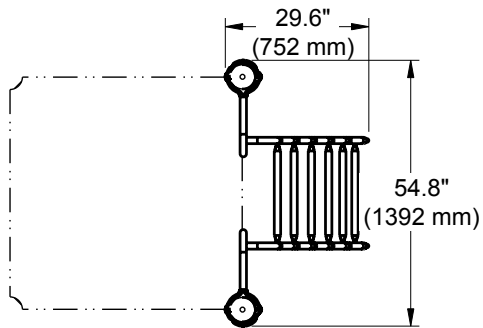


Footing Diagram

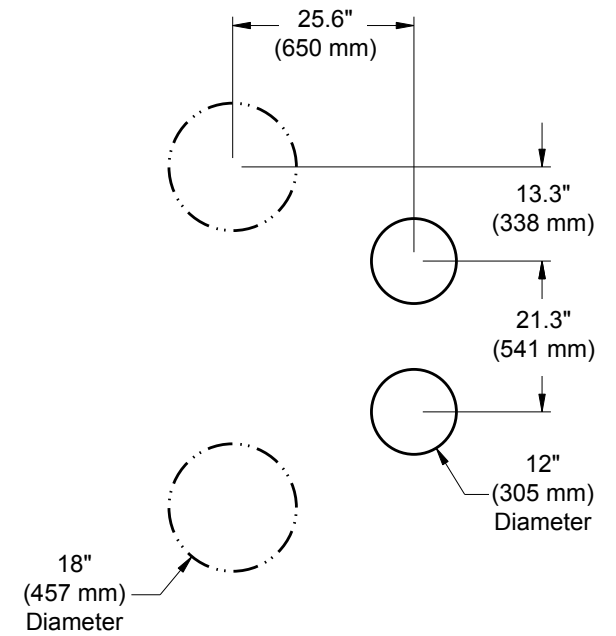
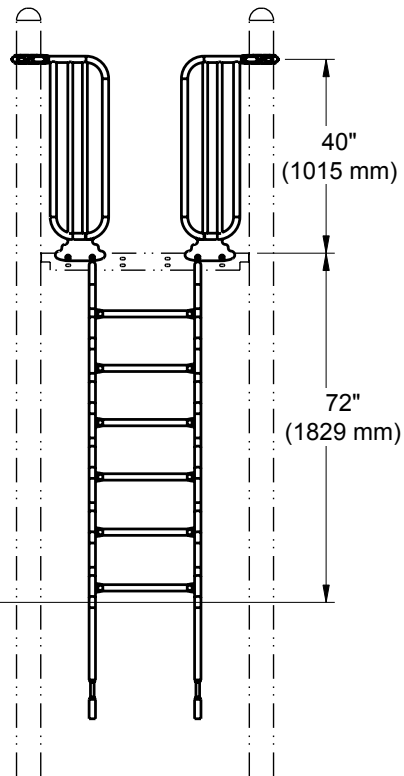


Installation Instructions

Top View



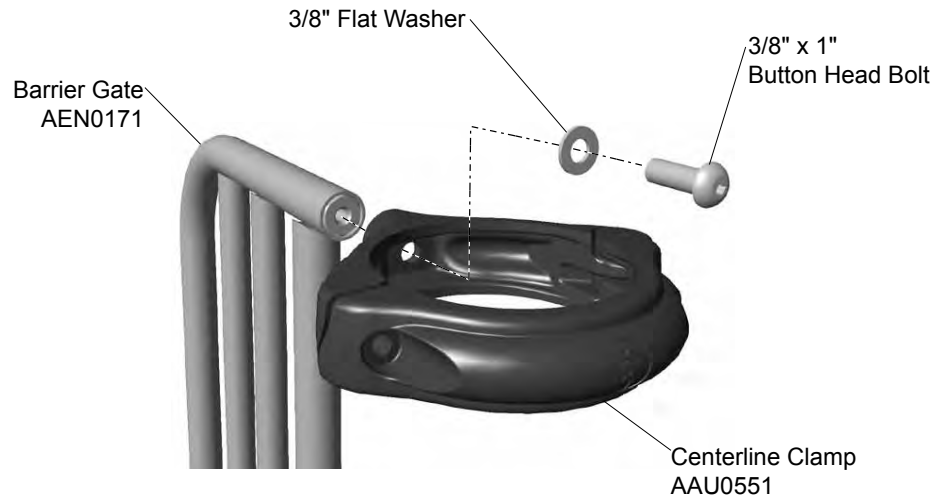
Elevation View 72" (1829 mm) Deck



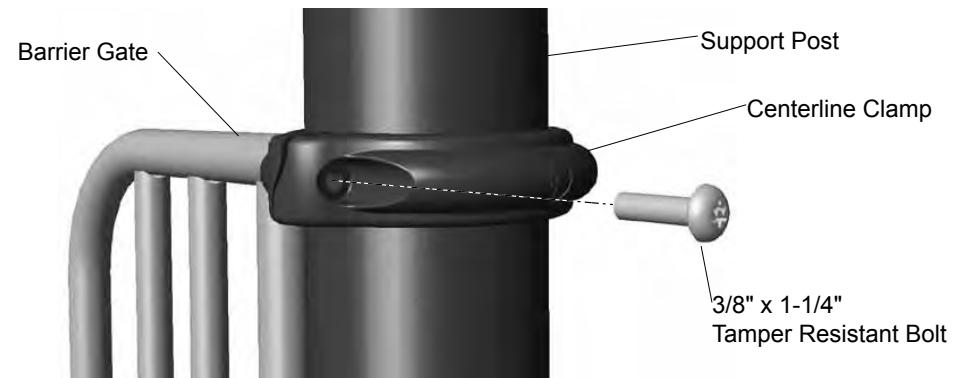
Footing Diagram

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.

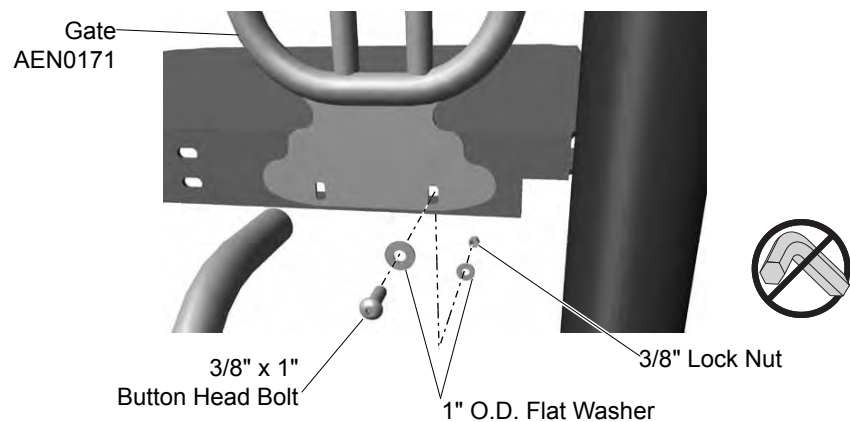


Detail A
Step 5

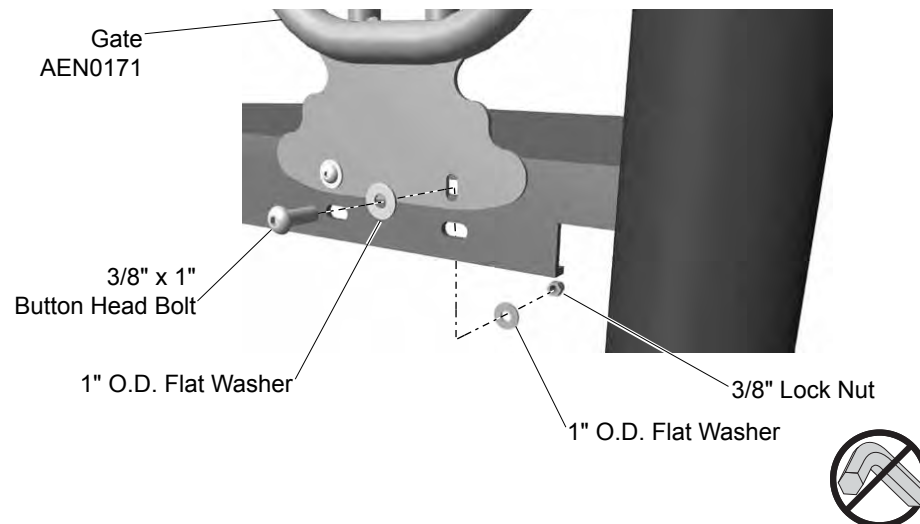


Detail B
Step 6

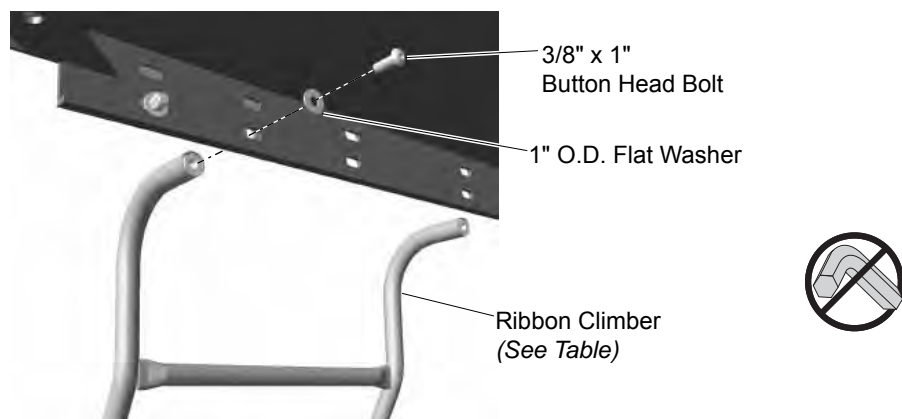
Installation Instructions



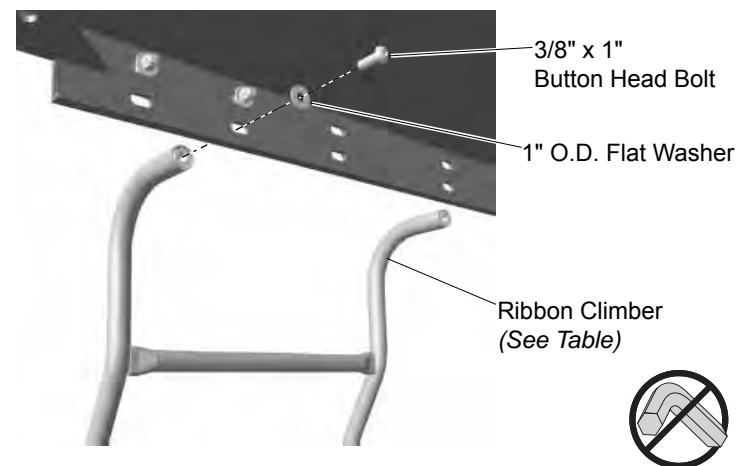
Gates in lower position



Gates in upper position

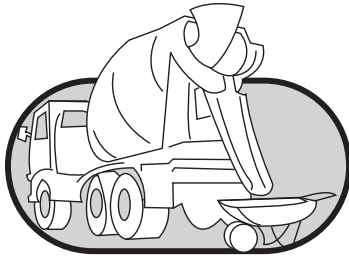


Detail C
Step 7

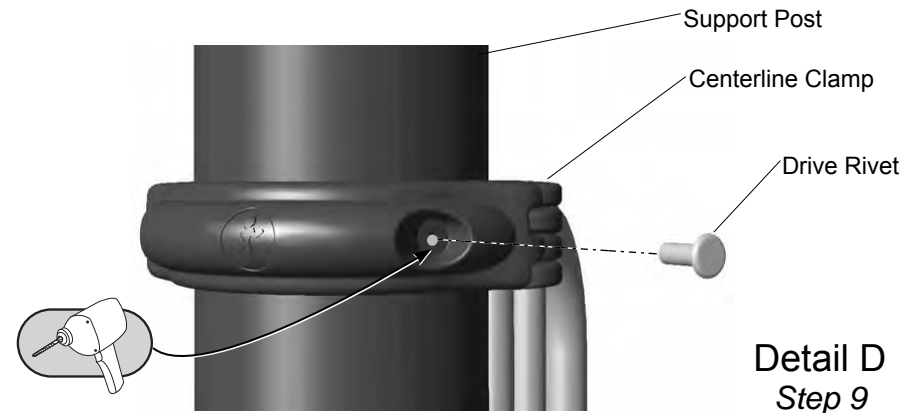


Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188

Installation Instructions



*Step 8
Pour Concrete*



*Detail D
Step 9*

INSTALLATION

A Note Before You Begin:

Do not over tighten bolts during assembly, only snug tighten unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

__Step 3: Determine placement and orientation of the ribbon climber by referring to the composite master footing diagram and associated **Elevation View**.

__Step 4: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet.

Attach the centerline clamps to the gates.

__Step 5: Attach the centerline clamps to the gates. See **Detail A**. Select both gates, and (2) two clamps, and the appropriate hardware. Secure the clamp to the gate as shown. Ensure that the clamps are turned in the same direction and fully tighten the connections.

Attach the clamps to the support posts.

__Step 6: Attach the clamps to the support posts. See **Detail B**. Select the appropriate hardware. Lift each gate into position against the deck and secure the clamp to the post. Snug tighten the connection only.

Attach the gates and the ribbon climber to the deck.

__Step 7: Attach the gates and the ribbon climber to the deck. See **Detail C**. Select the ribbon climber and the appropriate hardware. Determine the connection position of the gates and ribbon climber, and follow the appropriate detail. Both gates should be mounted at the same height. Leave connections loose.

Final Details.

__Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications indicated on **page 1**. Block and brace, and pour concrete. Allow 72 hours for concrete to completely cure.

__Step 9: Install a drive rivet in each clamp. See **Detail D**. Using a 1/4" drill bit, drill through a band and support post. Insert the drive rivet into drilled hole and drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM - 36 in. (914 mm) RIBBON LADDER (ZZPM8289)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0190	CLIMBER - 23.07" x 58.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 72 in. (1829 mm) RIBBON LADDER (ZZPM8310)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0188	CLIMBER - 23.07" x 94.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 48 in. (1219 mm) RIBBON LADDER (ZZPM8290)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0184	CLIMBER - 23.07" x 70.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 60 in. (1524 mm) RIBBON LADDER (ZZPM8300)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0186	CLIMBER - 23.07" x 82.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8





Assembly View (representative model)

Model	Deck Height
ZZPM8100	36" (915 mm)
ZZPM8110	48" (1220 mm)
ZZPM8120	60" (1525 mm)
ZZPM8130	72" (1830 mm)

Installation Instructions

Playmakers® Models PM8100-PM8130




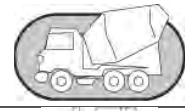


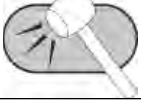
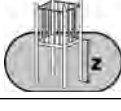
Beanstalk Climber

36 in. (914 mm) to 72 in. (1829 mm) decks

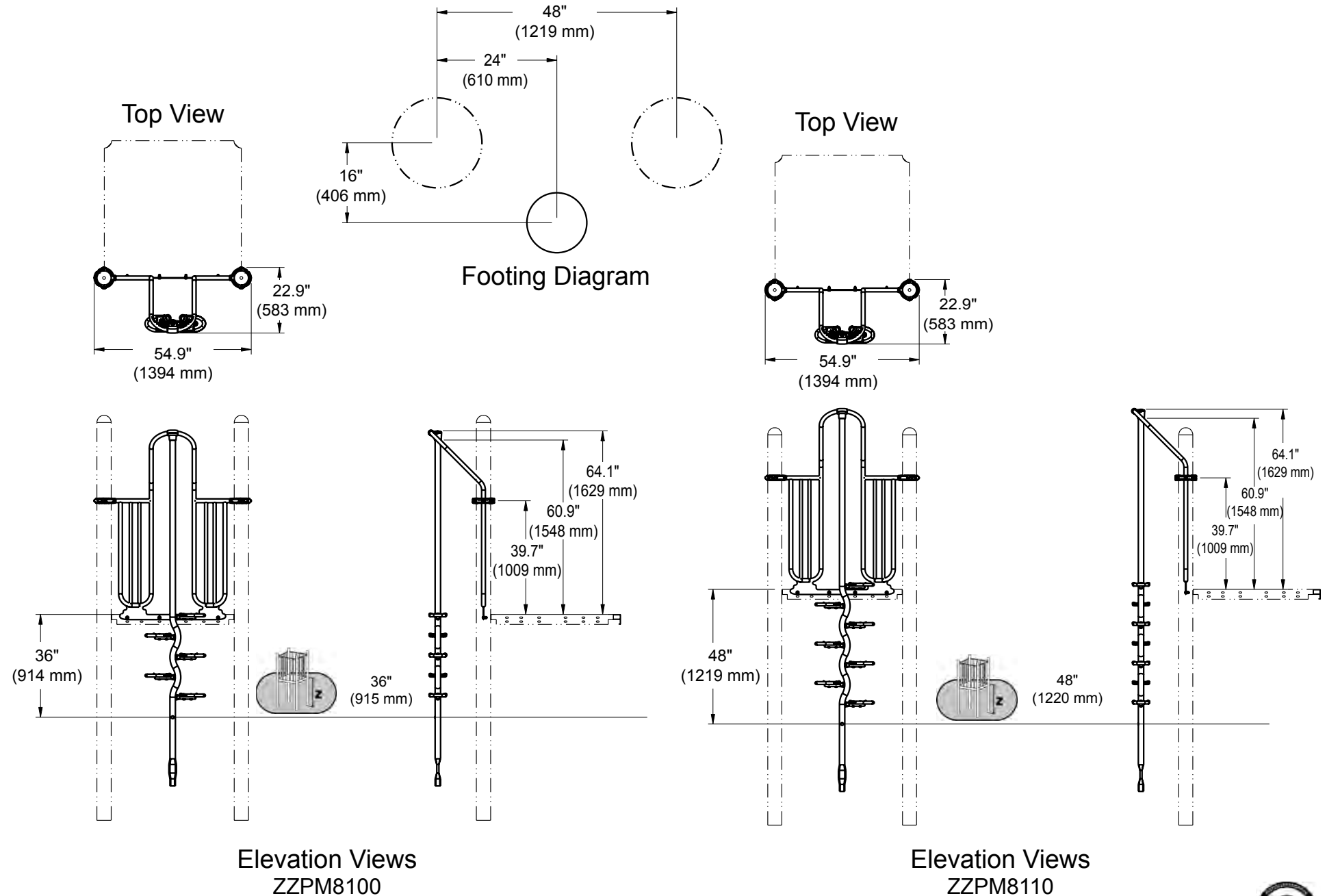
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

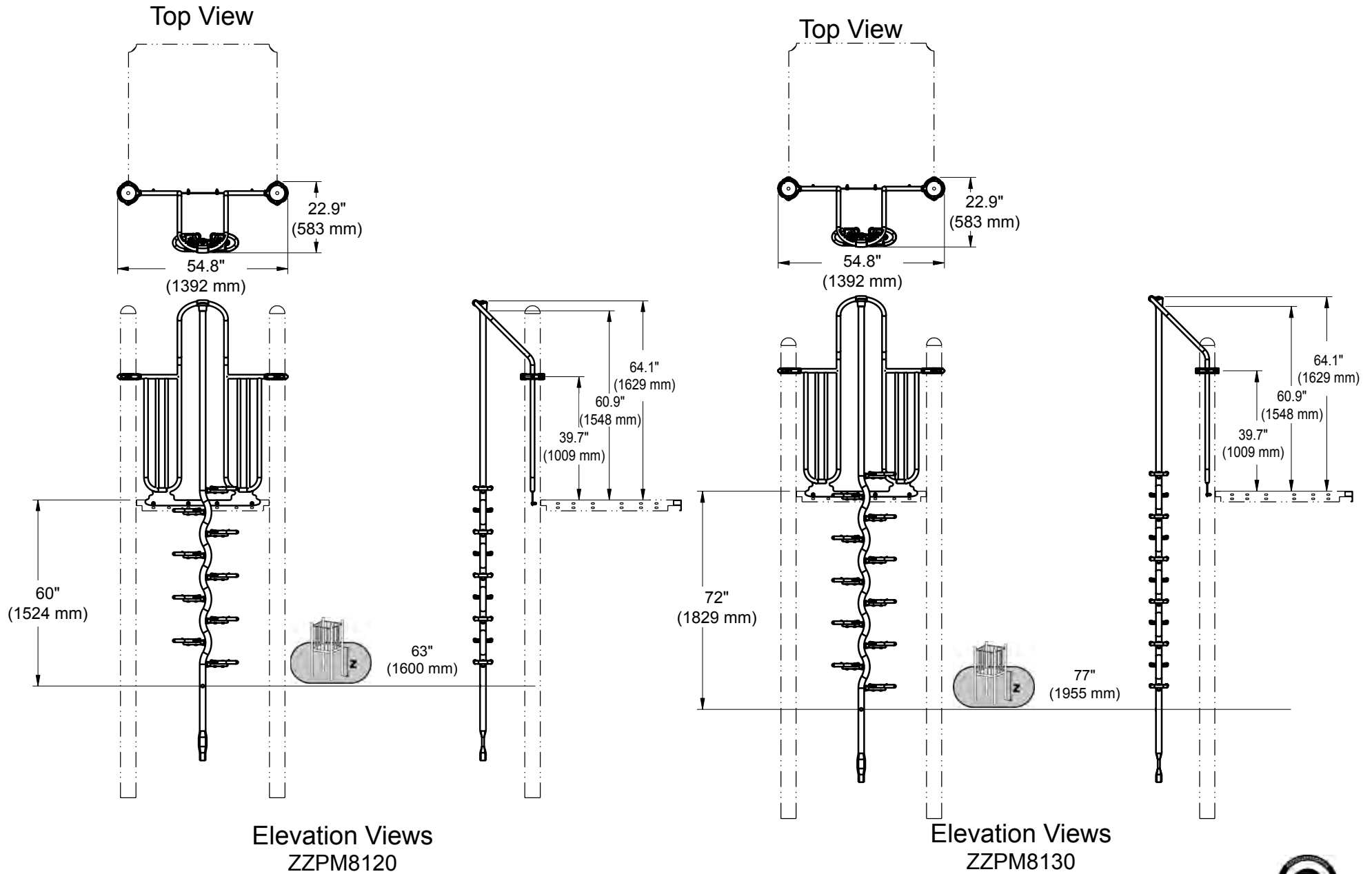
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

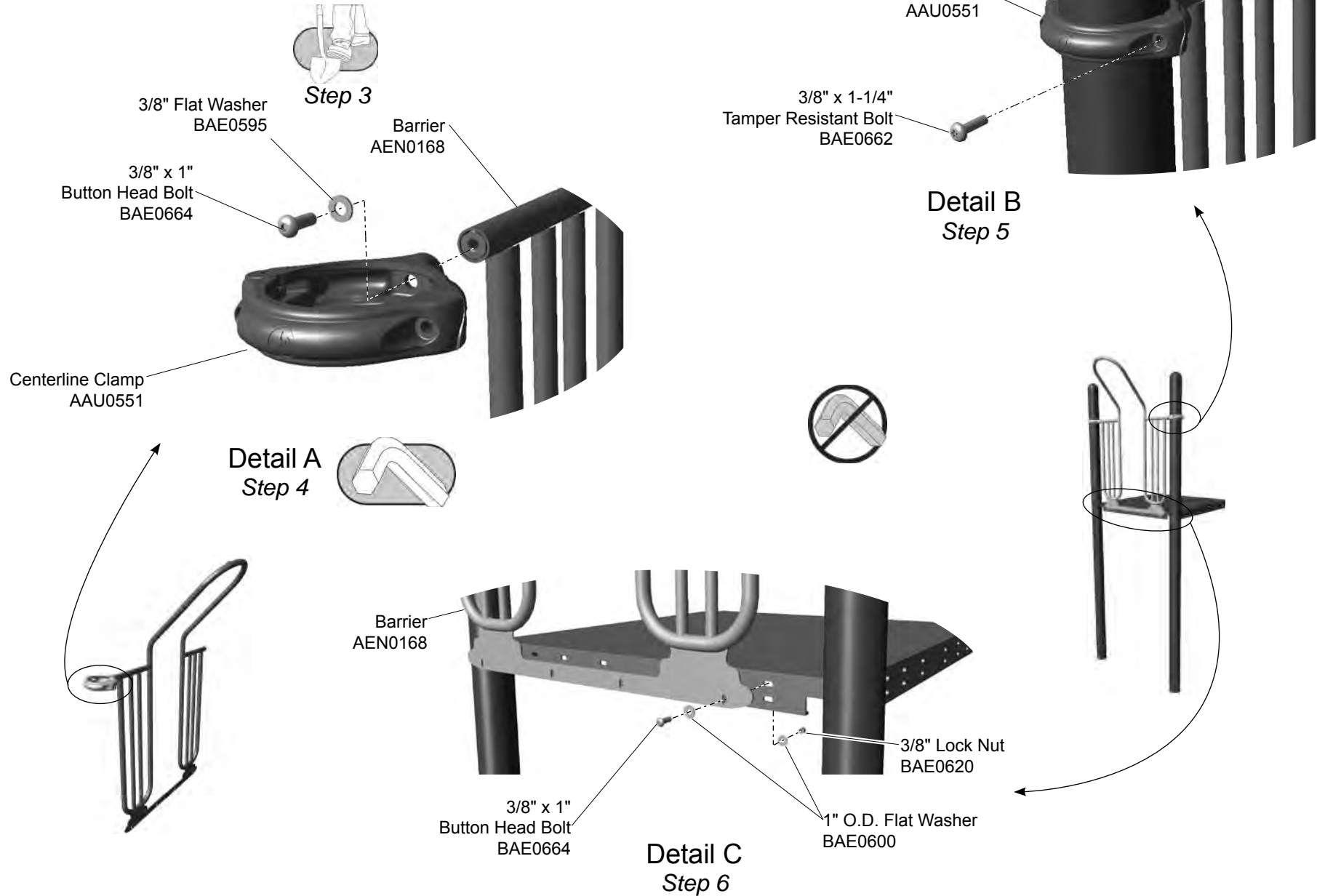


Installation Instructions

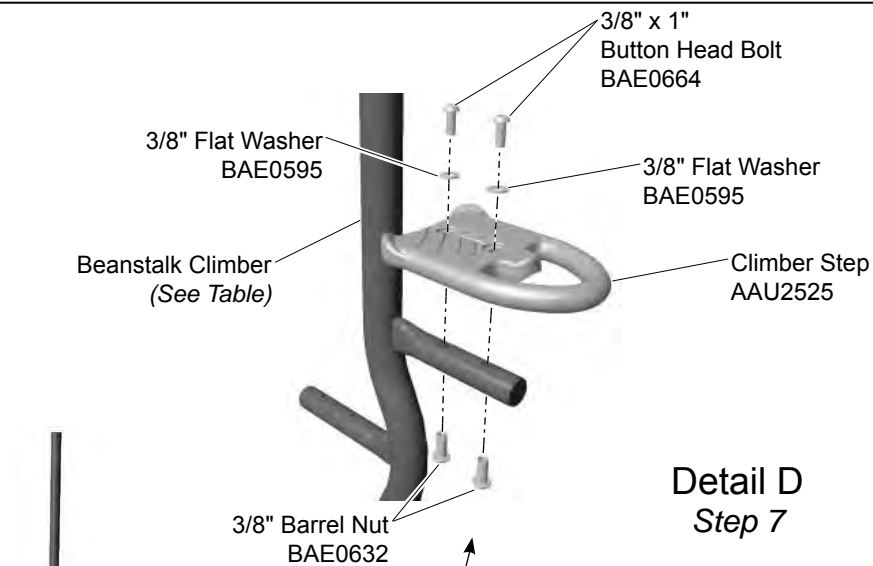


Installation Instructions

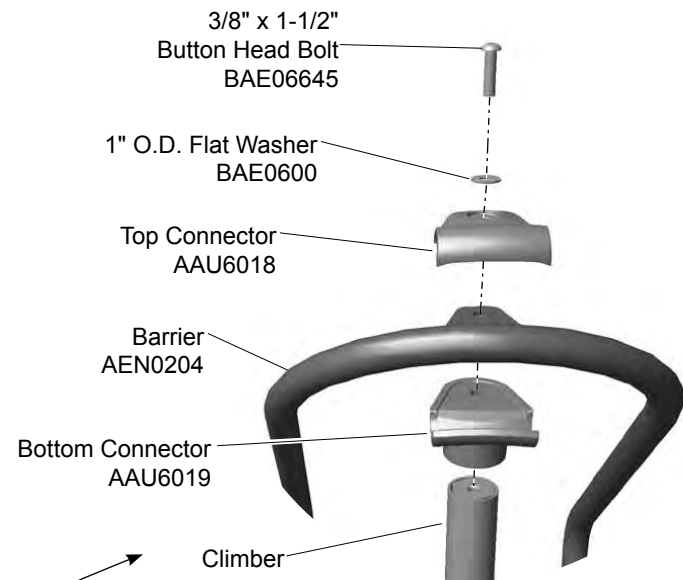
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



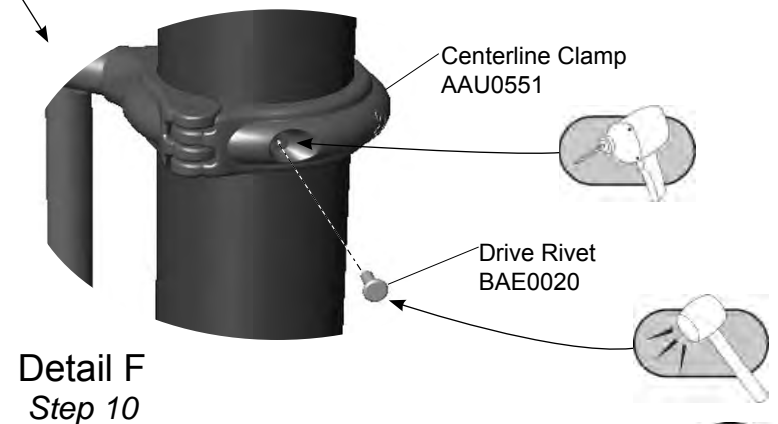
Detail D
Step 7



Detail E
Step 8



Step 9



Detail F
Step 10

Climber Deck Height	Climber Part Number	Number Of Step/Handles
36 in. (914 mm)	ACL0047	5
48 in. (1219 mm)	ACL0048	7
60 in. (1524 mm)	ACL0049	9
72 in. (1829 mm)	ACL0050	11

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet.

Attach the centerline clamps to the arch entry barrier.

Step 4: Attach the centerline clamps to the arch entry barrier. See **Detail A**. Select the arch entry barrier, (2) two clamps, and the appropriate hardware. Position the socket of the clamp over the threaded portion of the barrier top rail, make and fully tighten connections as shown. Ensure the clamps face the same direction.

Attach the centerline clamps to the support posts.

Step 5: Attach the clamps to the support posts. See **Detail B**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Lift the barrier into position against deck, close the clamps around the posts and attach as shown.

Attach the barrier to the deck.

Step 6: Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. The arch entry barrier can be attached to either *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Select the desired set of holes and attach as shown.

Attach the step/handle to the climber.

Step 7: Attach the step/handle to the climber. See **Detail D**. Select the climber weldment, the appropriate *number* of step/handles (*see the table on the detail page*), and the appropriate amount of hardware. There are **(2) two** connections per step. Position each step onto a climber branch and attach as shown.

Attach the climber to the barrier.

Step 8: Attach the climber to the barrier. See **Detail E**. Select the climber assembly, the top and bottom climber connectors, and the appropriate hardware. Slide the climber into the bottom of the lower connector. Place the climber into the excavated footing. Sandwich the barrier tab and rail with the top and bottom climber connectors and attach as shown.

Important Note: When tightening the climber bolt, insure that the climber is parallel to the deck as shown in **Elevation Views**.

Final Details.

Step 9: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Step 10: Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



ZZPM8100 - 36 in. (914 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	5
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0047	CLIMBER - 36" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8110 - 48 in. (1219 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	7
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0048	CLIMBER - 48" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8120 - 60 in. (1524 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	9
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0049	CLIMBER - 60" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	18
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8130 - 72 in. (1829mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	11
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0050	CLIMBER - 72" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	28
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

INSTALLATION INSTRUCTIONS

PLAYMAKERS® MODEL PM5770 LEG LIFT



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
Installation Time: 1/2 hour
Weight: 7.2 Lbs. (3.3 Kilos)
Use Zone: 71 in. (1829 mm) all sides
User Group: Ages 2 - 12 years

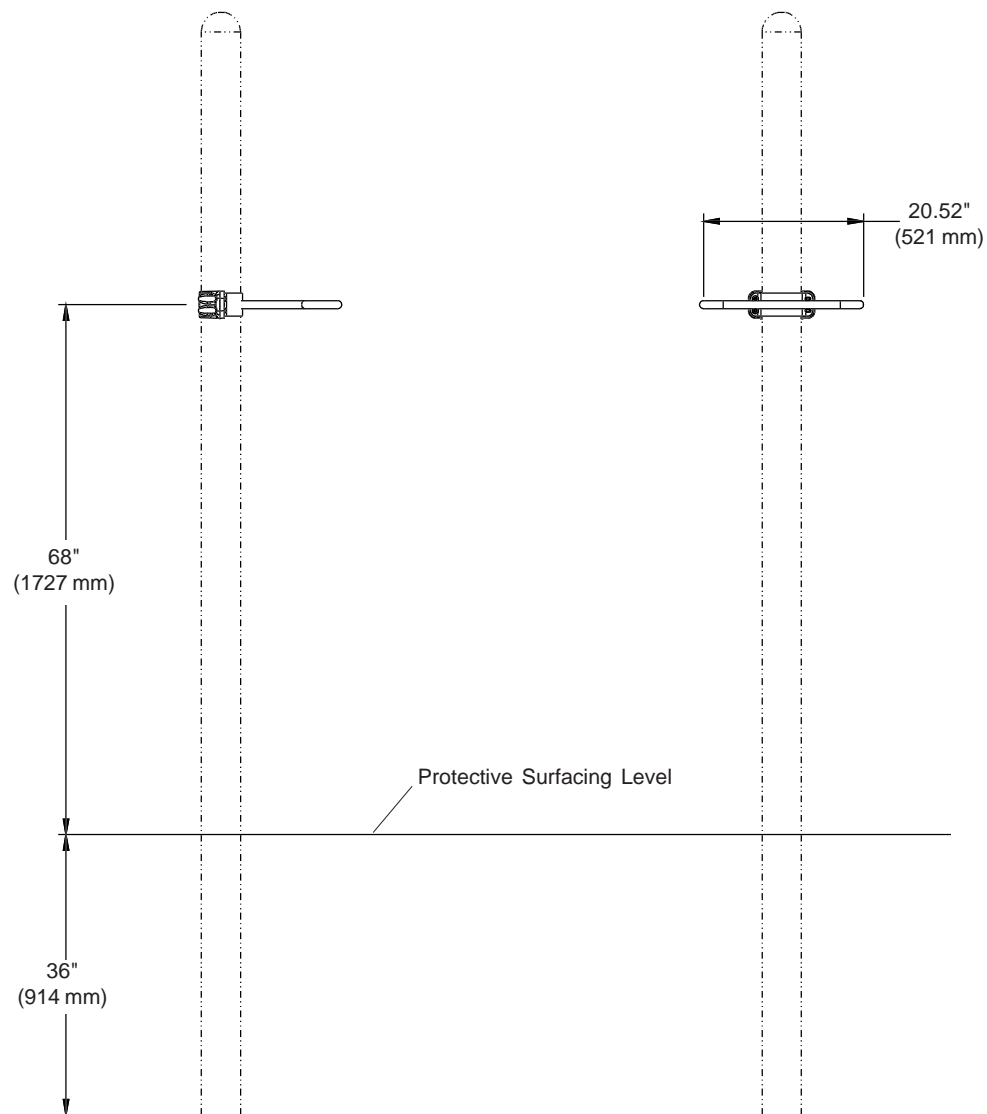
Torque Specification:

Bolts & Nuts: Snug tighten and
tighten an additional one-half turn.
Set Screws: Snug tighten and
tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

INSTALLATION INSTRUCTIONS



Elevation View

INSTALLATION INSTRUCTIONS

INSTALLATION

✓Notes Before You Begin:

- Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.
- If during the installation process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before re-installation.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

__Step 3: Leg Lift will be attached to a support post sold separately.

Attach leg lift to support post.

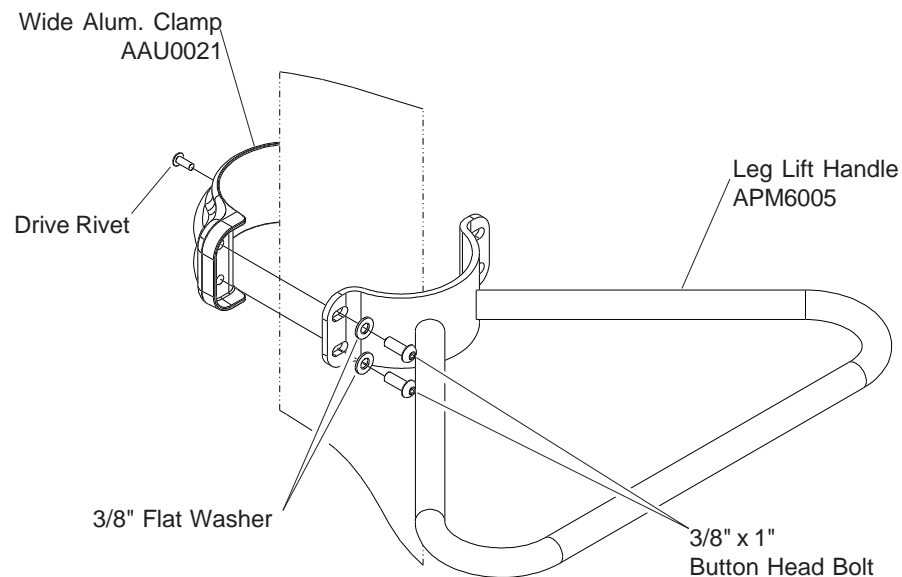
__Step 4: Attach leg lift to support post. See Detail A. Select leg lift handle, wide aluminum clamp, (4) four 3/8" x 1" button head bolts, and (4) four 3/8" flat washers. Sandwich the post between the wide clamp and handle clamp band. Align holes. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, through the handle clamp band, and thread into the wide clamp.

Final Details.

__Step 5: Adjust height to approximately 68" (1727 mm) above the protective surfacing level. See **Elevation View**. Plumb and level entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.

__Step 6: Install drive rivet. After the equipment assembly is complete, install a drive rivet in the aluminum clamp band to permanently secure it to the support post. See **Detail A**. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



Detail A

INSTALLATION INSTRUCTIONS



INSTALLATION INSTRUCTIONS

BILL OF MATERIAL

PM - LEG LIFT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	1
APM6005	HANDLE - LEG LIFT w/5" CLAMP	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4





Attention Owner

The Horizontal Loop Rung Ladder is designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Horizontal Loop Rung Ladder can result in serious accidents. The following rules for the use of the Horizontal Loop Rung Ladder must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Horizontal Loop Rung Ladder is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the horizontal hand rung assembly.
- Users must move in same direction across the length of the Horizontal Loop Rung Ladder assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when

rungs are dry.

- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Horizontal Loop Rung Ladder in accordance with the applicable standard in your area, appropriate for the fall height of the Horizontal Loop Rung Ladder.
- Review and familiarize warning document supplied with each Horizontal Loop Rung Ladder shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



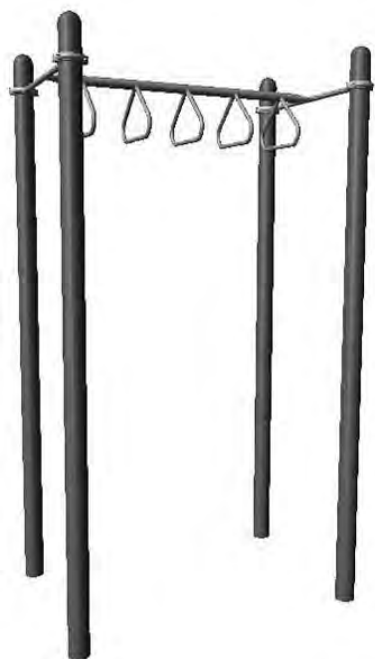
Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet



Assembly View

Installation Instructions







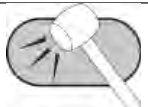
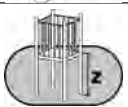
Playmakers® Model PM5780

6 ft. (1829 mm) Horizontal Loop Ladder

Installation Preparation

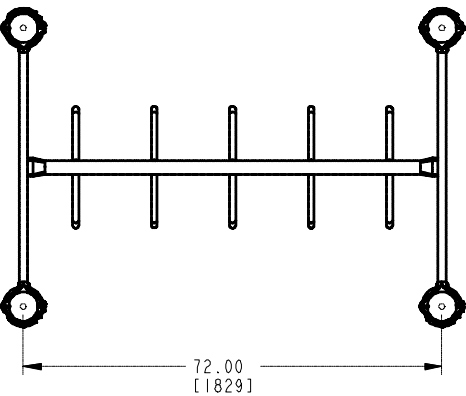
Recommended Crew: Three (3) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

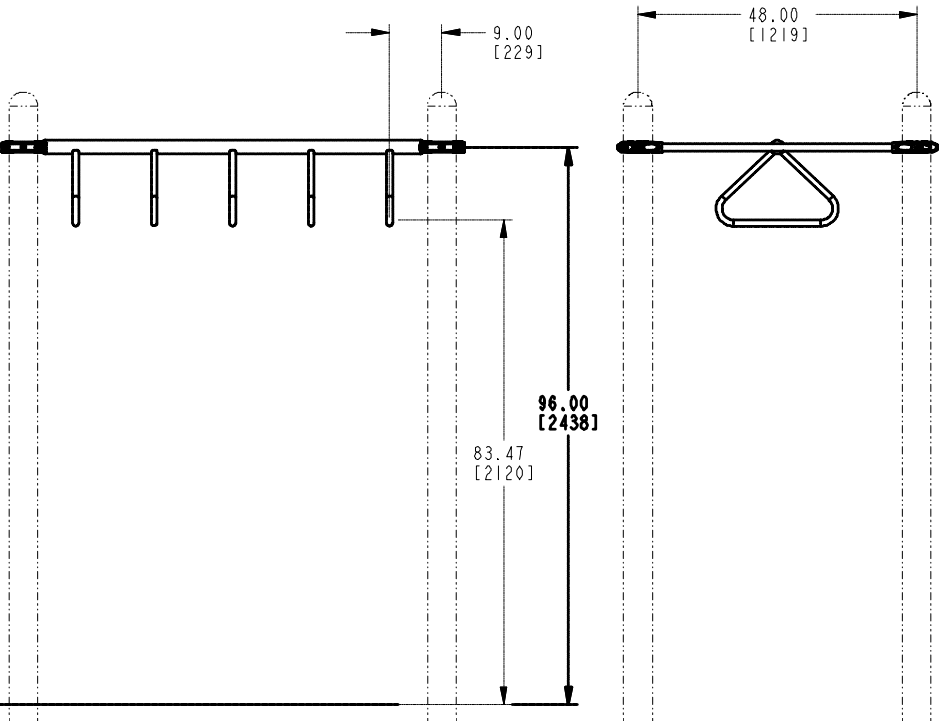
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

Top View

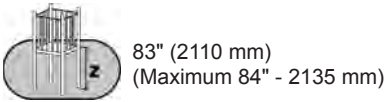


KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



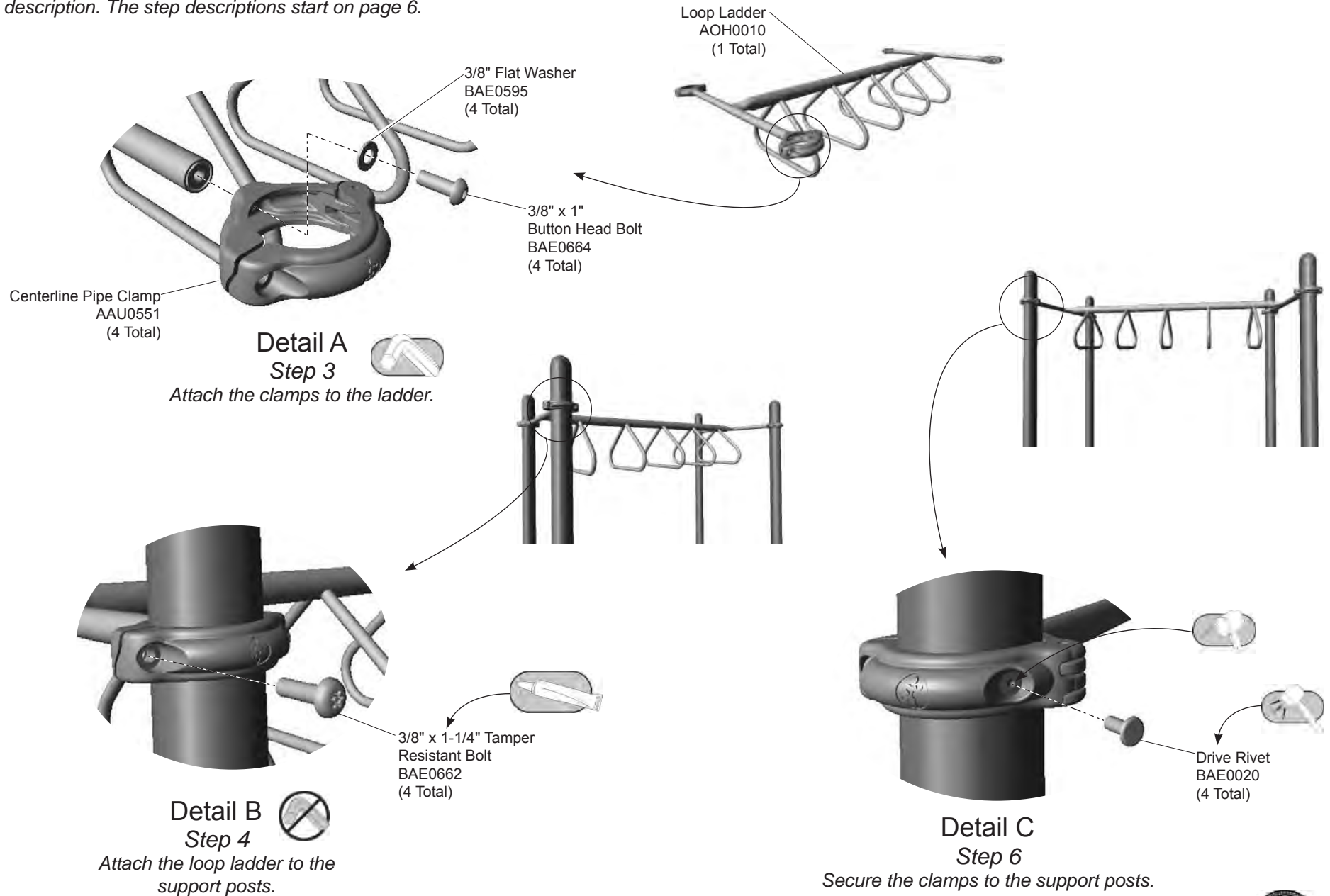
Elevation Views

- Notes:**
- Hand-gripping component bars should be a maximum of 84" (2135 mm) above the protective surfacing.
 - Height of hand-gripping component bars may vary due to platform height.



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the clamps to the ladder. See **Detail A**. Position each clamp against an open end of the ladder rails with the hinges to the inside and attach as shown. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Step 4: Attach the loop ladder to the support posts. See **Detail B**. With adequate manpower, position the ladder between the supports posts, apply a drop of thread locking adhesive to the bolt threads and attach as shown at the height shown in the **Elevation View**.

Note: Make sure to reference the **Notes** on the **Elevation View** page.

Final Details.

Step 5: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 6: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5780 - 6 ft. (1829 mm) HORIZONTAL LOOP LADDER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AOH0010	LADDER - 41" x 72" LOOP	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAD0085	THREAD LOCKING ADHESIVE	1



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Assembly View (representative model)

Model	Deck Height
ZZPM5950	12" (305 mm)
ZZPM5960	24" (610 mm)
ZZPM5970	36" (915 mm)

Installation Instructions




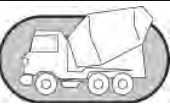
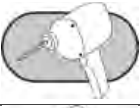

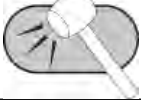
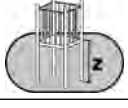
Playmakers® Models PM5950,
PM5960, and PM5970

1, 2, and 3 Rung Overhead Event Access Ladder
12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

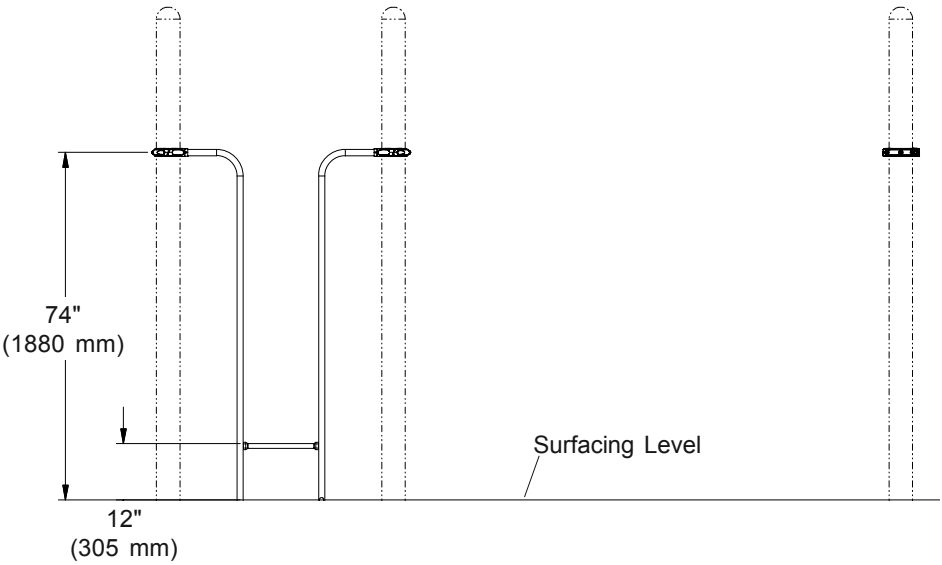
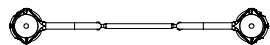
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 1.5 hours
 Concrete Required: 0.06 cubic yard (0.04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY

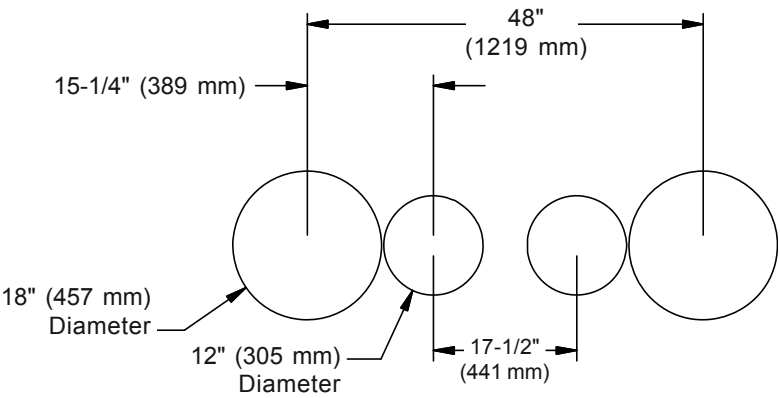
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

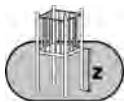


Elevation View

Elevation Views
PM5950



Footing Diagram
All Models



12" (305 mm)

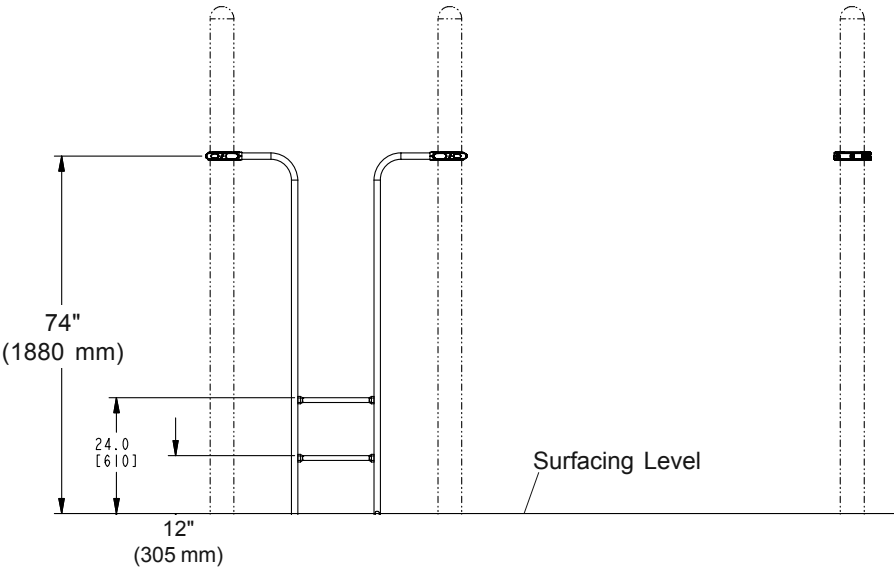
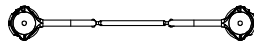


Installation Instructions

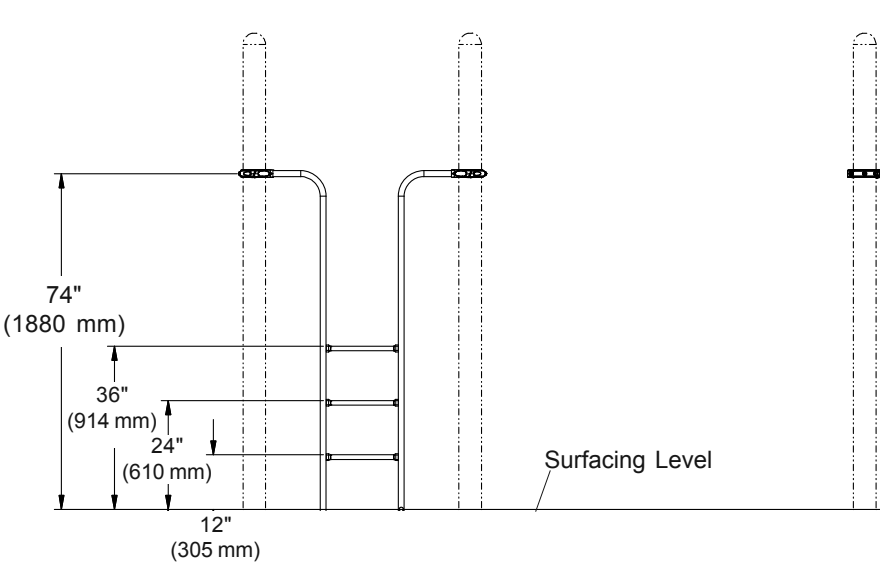
Top View



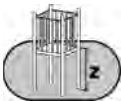
Top View



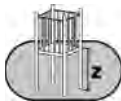
Elevation Views
PM5960



Elevation Views
PM5970



24" (610 mm)

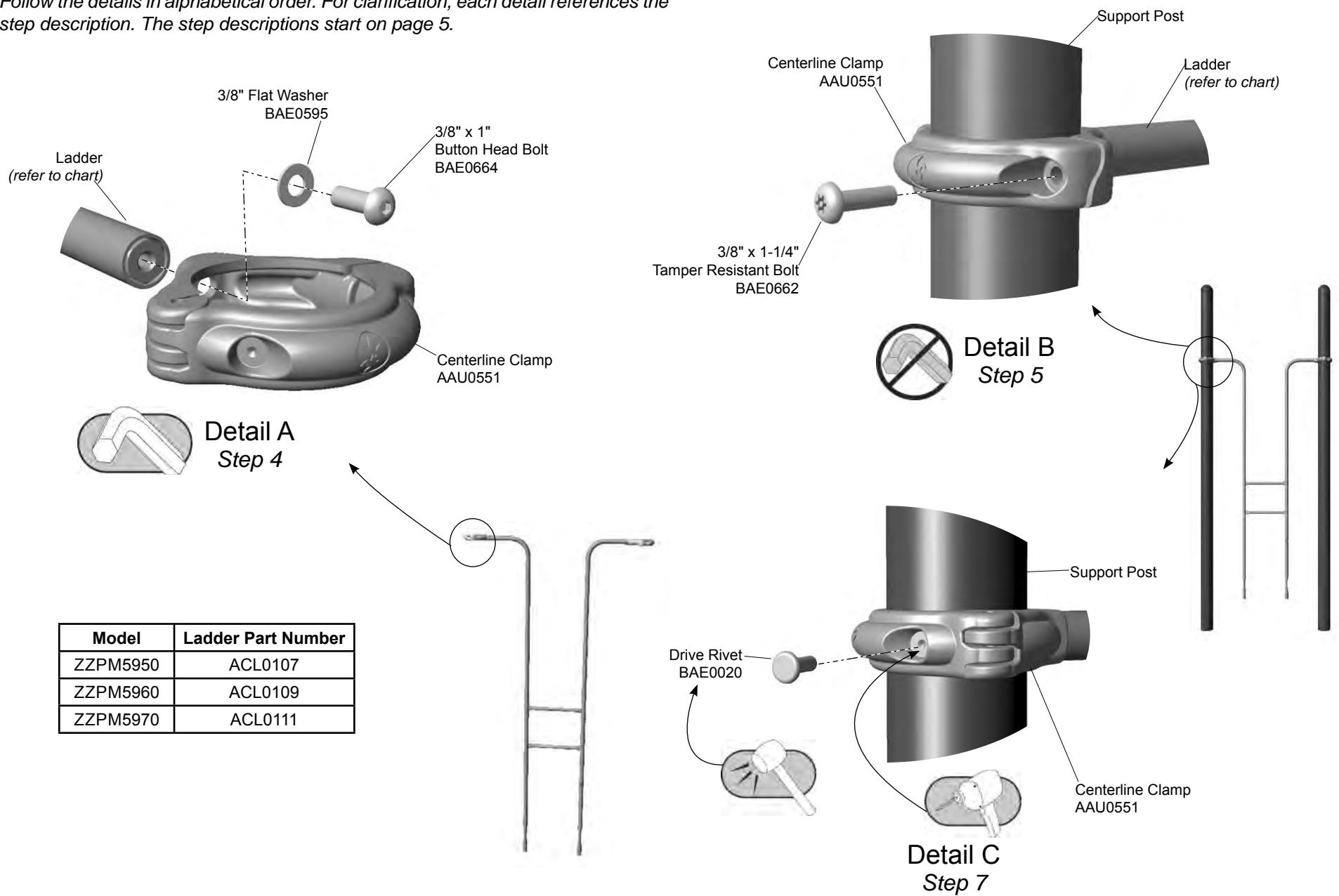


36" (914 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines*.

Attach the clamps to the access ladder.

Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.

Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.

Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2





Assembly View (representative model)

Model	Button Height
ZZUN7140	12" (305 mm)
ZZUN7146	18" (457 mm)
ZZUN7147	24" (610 mm)







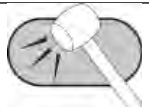
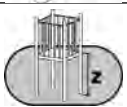
Installation Instructions

Universal Models UN7140, UN7146, and UN7147
12 in (305 mm), 18 in (457 mm), and 24 in (610 mm)
Stationary Button

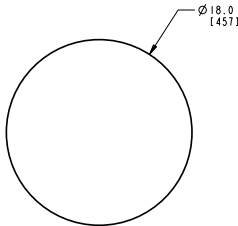
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 0.75 hour
Concrete Required: 0.13 cubic yard (0,10 cubic meters)
Use Zone: Refer to the annex
User Group Age: (12" & 18") ASTM/CSA: 2-12, EN: 2-14
..... (24") ASTM/CSA: 5-12, EN: 6-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

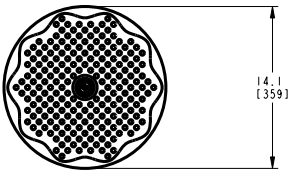
Installation Instructions



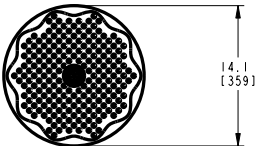
Footing Diagram
(All Models)

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

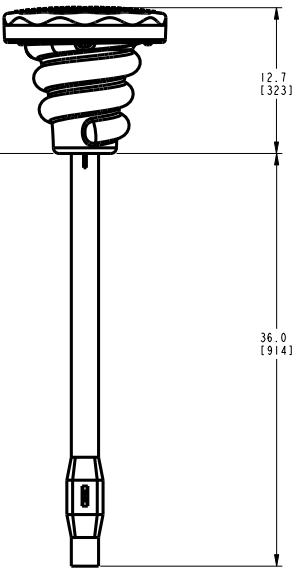
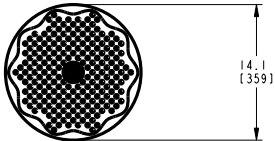
Top View



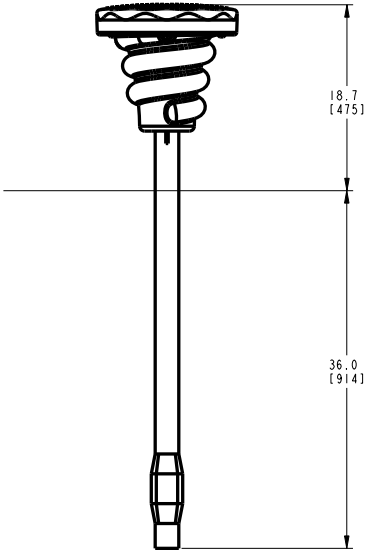
Top View



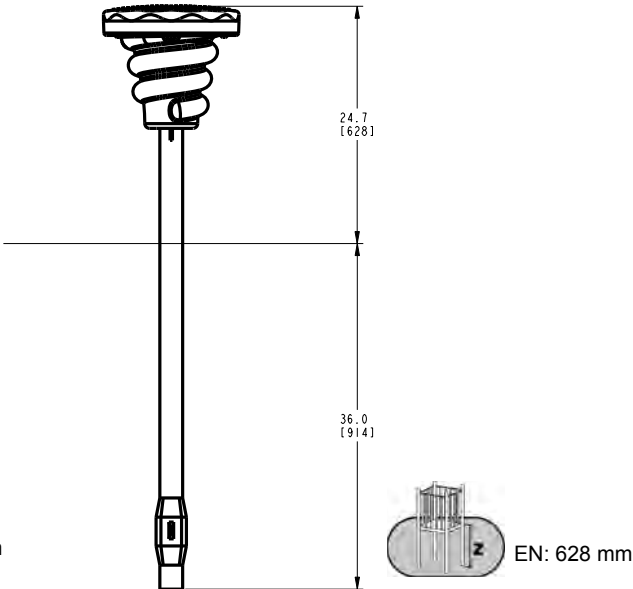
Top View



Elevation View
UN7140



Elevation View
UN7146

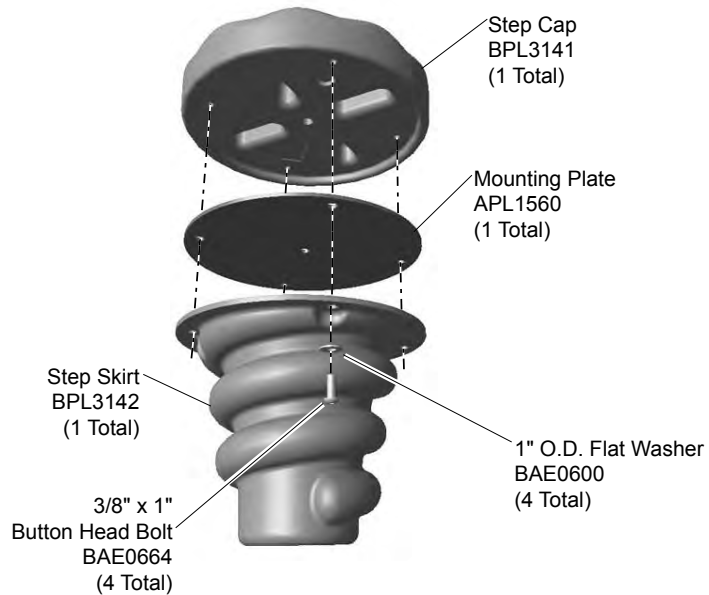


Elevation View
UN7147

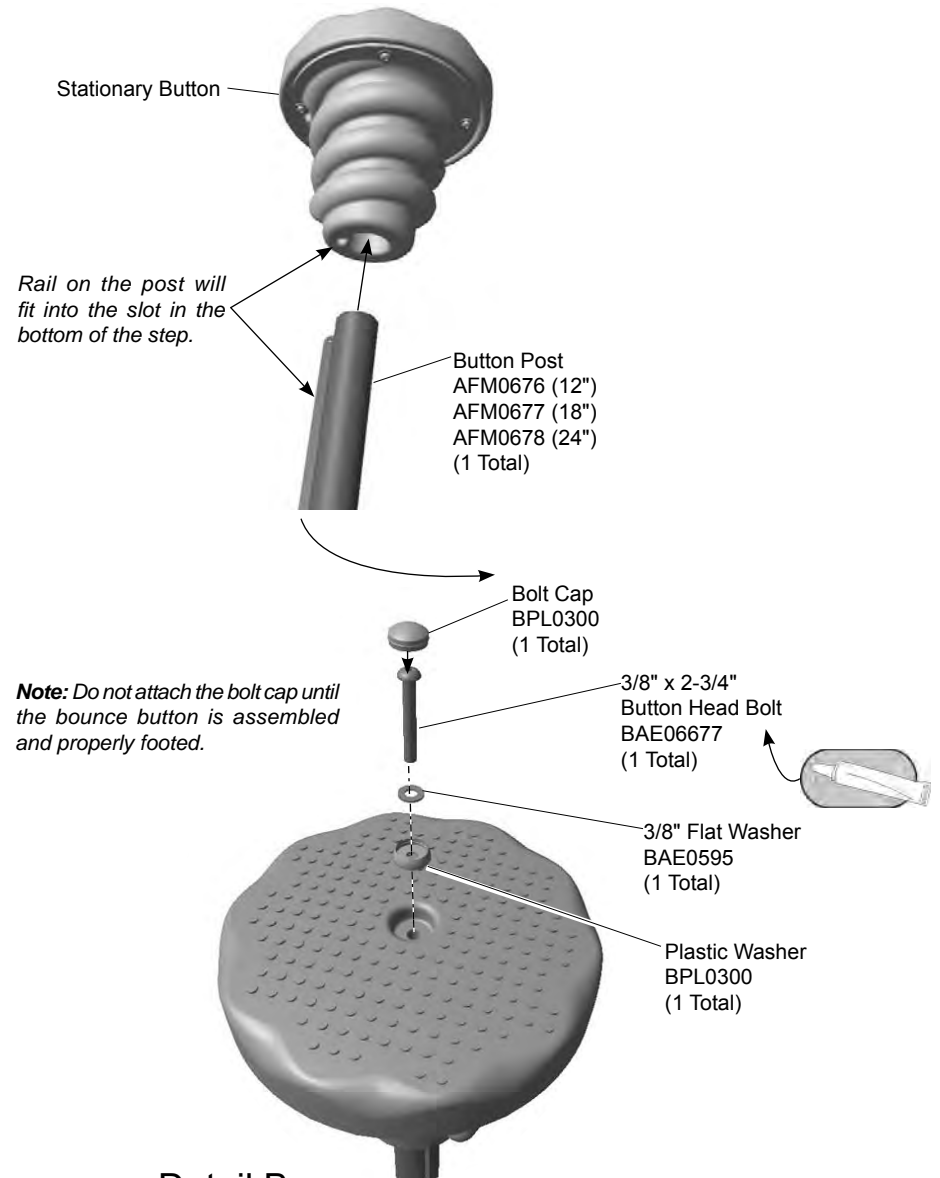


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A
Step 4
Assemble the stationary button.



Note: Do not attach the bolt cap until the bounce button is assembled and properly footed.

Detail B
Step 5
Attach the stationary button to the bounce button post.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt cap until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details** shown in the annex of this document.

Step 4: Assemble the stationary button. See **Details A**. Position the mounting plate between the step cap and step skirt and attach as shown. Fully tighten the connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 5: Attach the stationary button to the bounce button post. See **Detail B**. Slide the stationary button onto the top of the post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to tightening torque specifications.

Note: Do not attach the bolt cap until the bounce button is assembled and properly footed.

Final Details.

Step 6: Plumb and level the component in the footing. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 7: Select plastic bolt cap and press into the plastic washer. See **Detail B**. The bolt caps install more easily when they are warm.



UN7140 - 12 in (305 mm) STATIONARY BUTTON

PART NO.	DESCRIPTION	QTY.
AFM0676	POST - 12" STATIONARY BUTTON	1
APL1560	PLATE - 7 GA x 12.50" DIA	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BPL0300	CAP - 3/8" BOLT	1
BPL3141	STEP - BOUNCE BUTTON CAP	1
BPL3142	STEP - BOUNCE BUTTON SKIRT	1

UN7147 - 24 in (610 mm) STATIONARY BUTTON

PART NO.	DESCRIPTION	QTY.
AFM0678	POST - 24" STATIONARY BUTTON	1
APL1560	PLATE - 7 GA x 12.50" DIA	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BPL0300	CAP - 3/8" BOLT	1
BPL3141	STEP - BOUNCE BUTTON CAP	1
BPL3142	STEP - BOUNCE BUTTON SKIRT	1

UN7146 - 18 in (457 mm) STATIONARY BUTTON

PART NO.	DESCRIPTION	QTY.
AFM0677	POST - 18" STATIONARY BUTTON	1
APL1560	PLATE - 7 GA x 12.50" DIA	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	1
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - SS	1
BPL0300	CAP - 3/8" BOLT	1
BPL3141	STEP - BOUNCE BUTTON CAP	1
BPL3142	STEP - BOUNCE BUTTON SKIRT	1



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Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.
- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

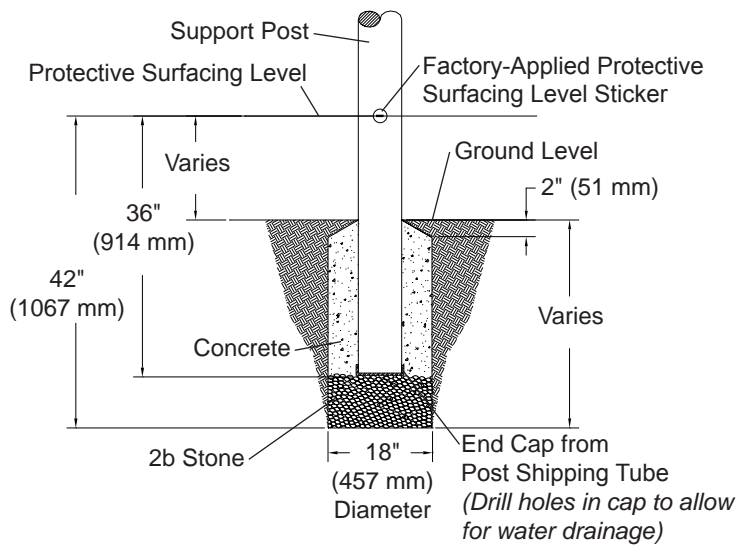
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must to be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

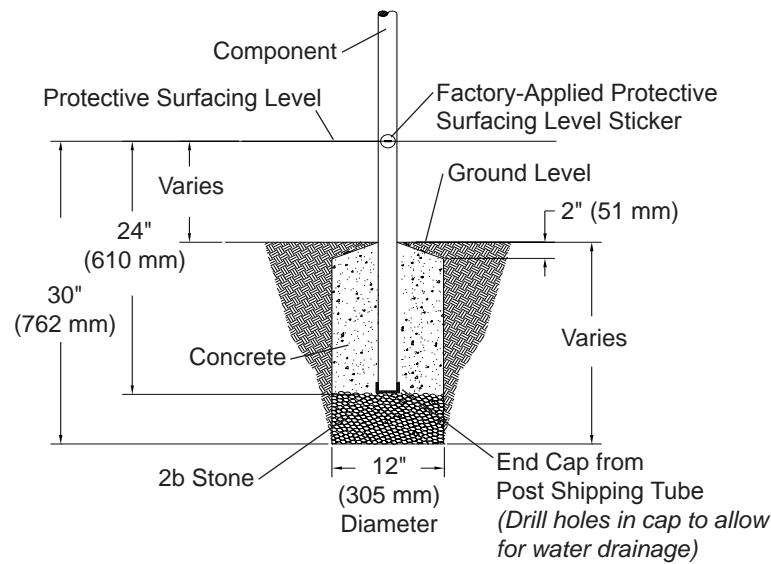
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

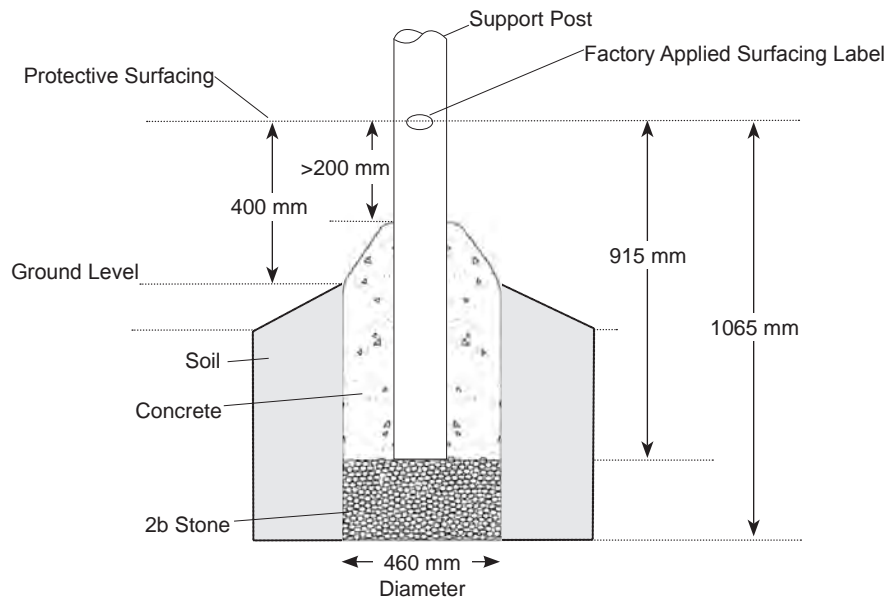
Footings Details (in ground)



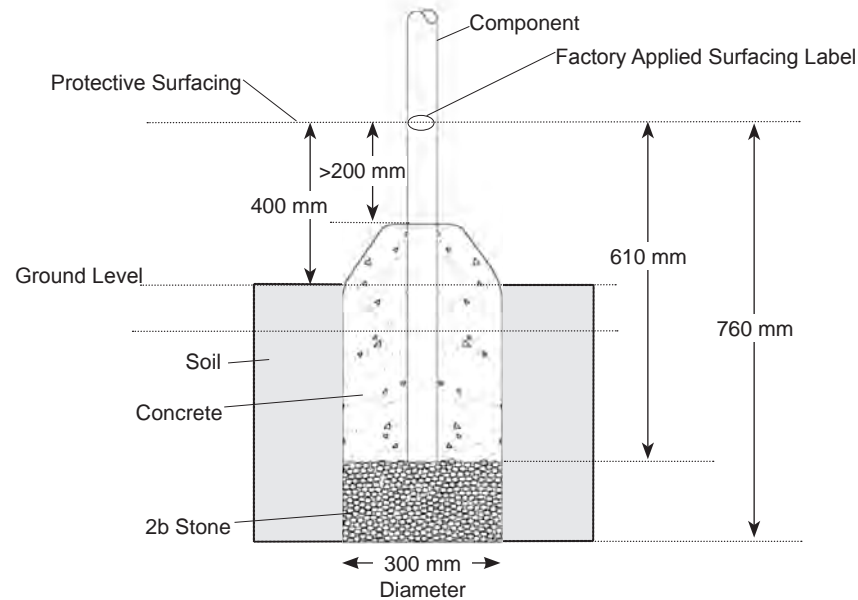
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)



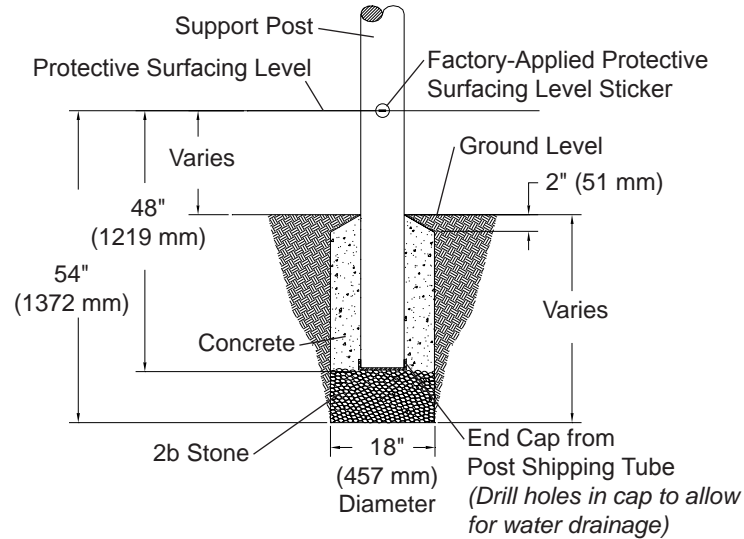
Footing Detail Support Post (EN)



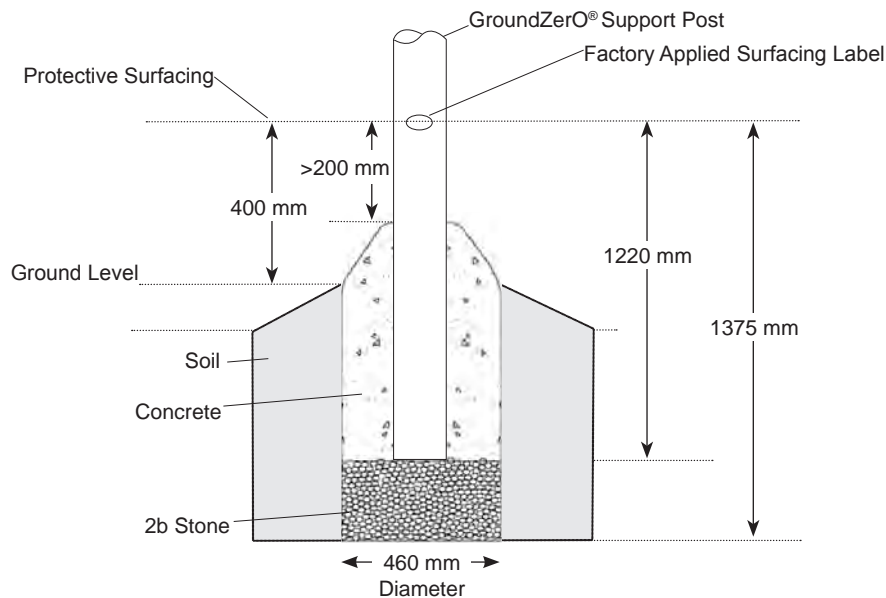
Footing Detail Component Post (EN)



Footings Notes (in ground)

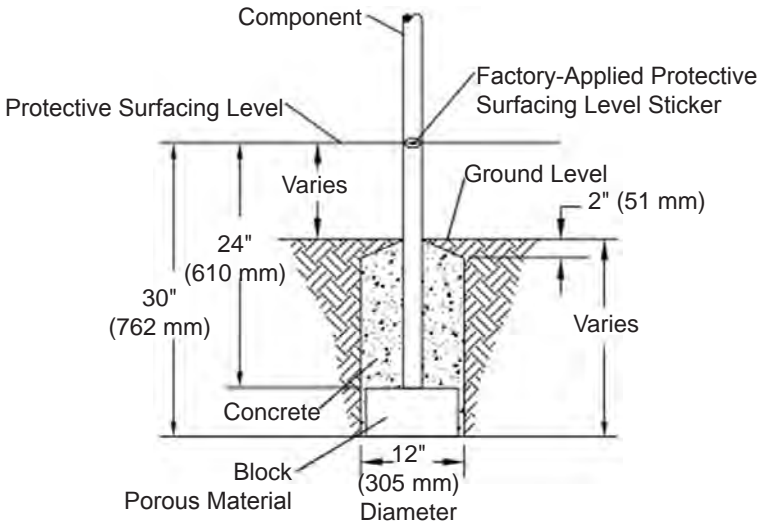


GroundZero® Support Post Footing Detail ASTM/CSA

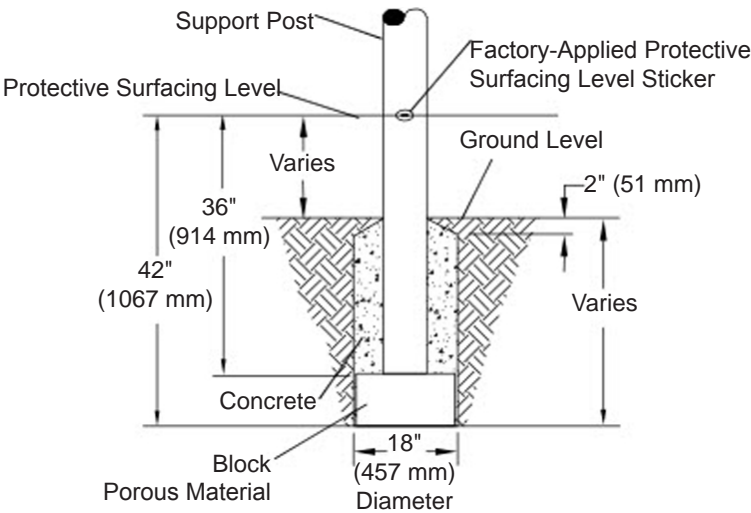


Footing Detail GroundZero® Support Post (EN)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



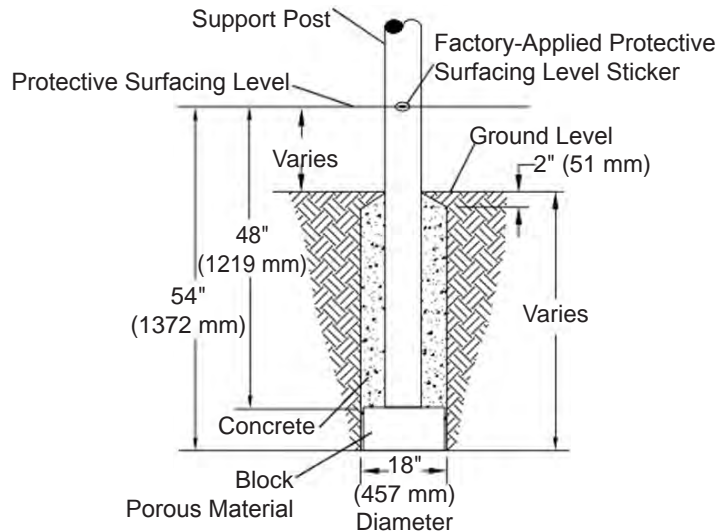
Component Footing Detail (ASTM/CSA) Block Option



Support Post Footing Detail (ASTM/CSA) Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

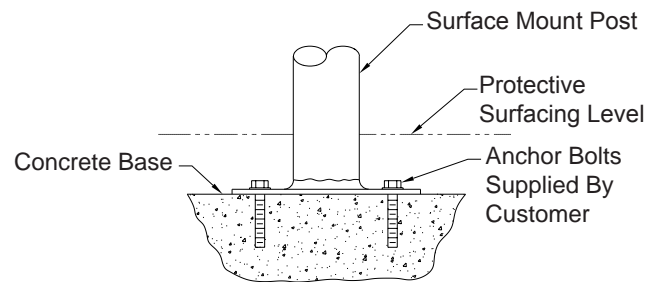


GroundZero® Support Post Footing Detail ASTM/CSA Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label

**PLAYWORLD SYSTEMS®
SKY SWIVELS / WOBBLE WHEELS
& TWIST & TWIRL**



Attention: Owner

The equipment is designed for a user on each wheel to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the equipment can result in serious accidents. The following rules for the use of the equipment must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. The event is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the upper rail assembly.
- Users should grasp each wheel from the adjacent platform or side. Always use fingers and thumbs for "Lock Grip" on hand rungs.
- The wheels are not intended to be used as a means to travel from one platform to another, as is a common use of a horizontal ladder.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.
- Avoid speed contests or trying to twirl too fast.

- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the equipment in accordance with ASTM specification F1292 appropriate for the fall height.
- Review and familiarize yourself with the warning document supplied with each shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

**As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.**

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intentionally left blank.



Assembly View

Installation Instructions

Playmakers® Model PM6798








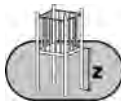
Spin Central

(CSA)

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 0.5 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

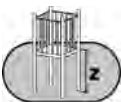
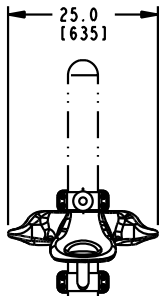
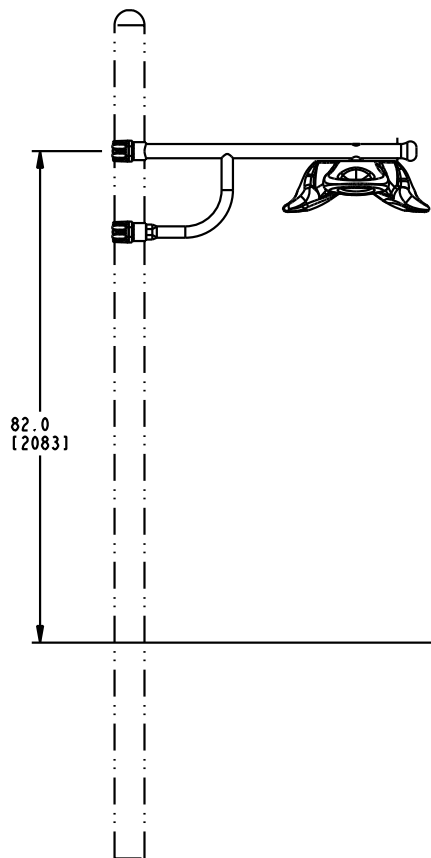
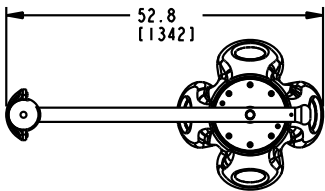
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



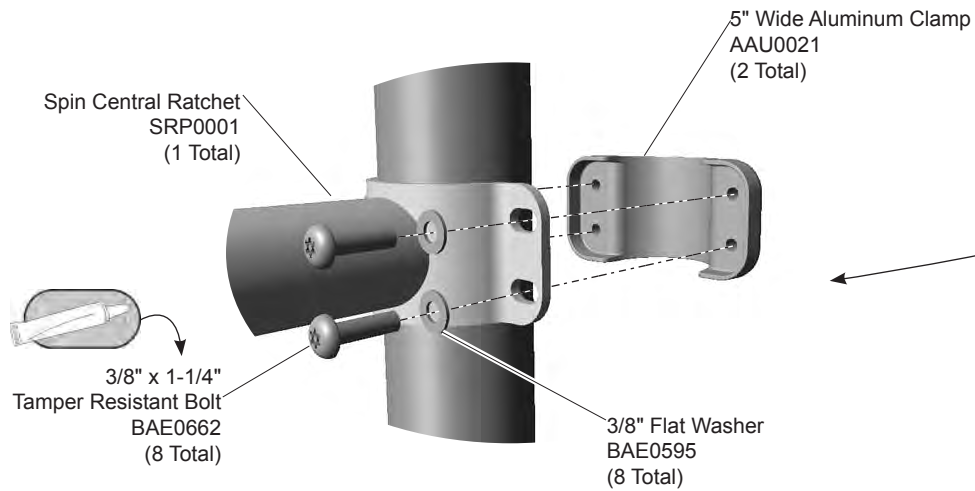
72.2" (1835 mm)

Elevation Views



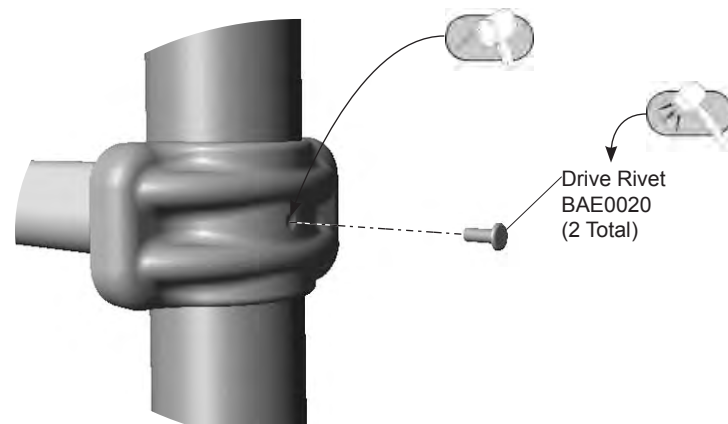
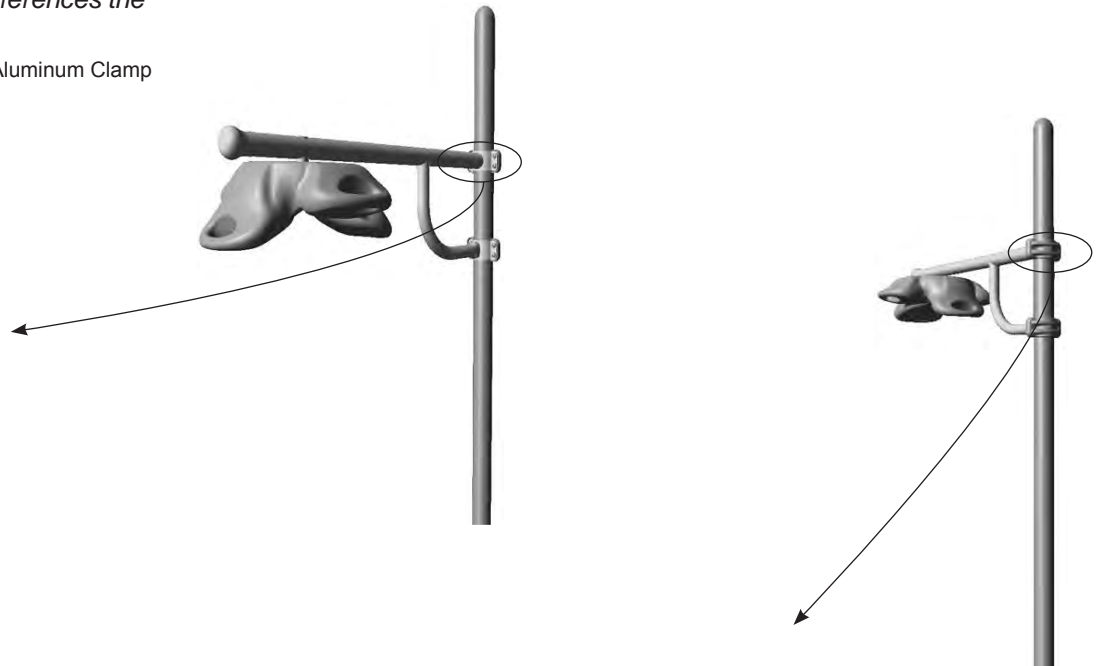
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Detail A Step 3

Attach the Twister ratchet to the support post.



Detail B Step 4

Secure the clamps to the support post.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the Spin Central ratchet assembly to the support post. See **Detail A**. Raise the ratchet assembly to the appropriate height as shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 4: Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



PM6798 - SPIN CENTRAL (CSA)

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESISTANT w/TORX DRV	8
SRP0001	SPIN CENTRAL RATCHET (PM)	1



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Assembly View

Installation Instructions

Playmakers®




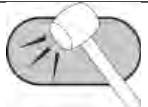



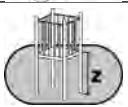
Model PM9846

Cabana Roof

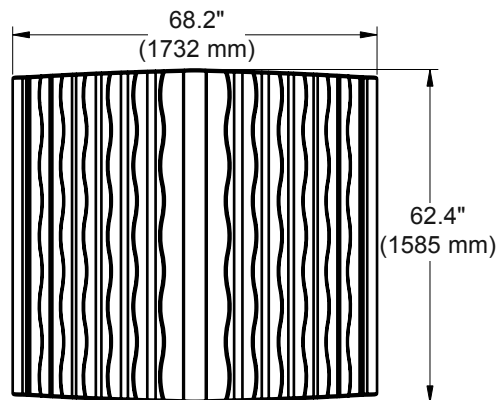
Installation Preparation

Recommended Crew: Two (2) adults

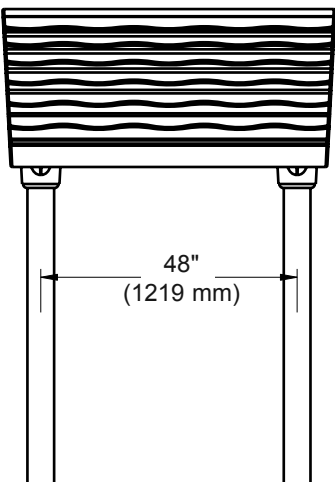
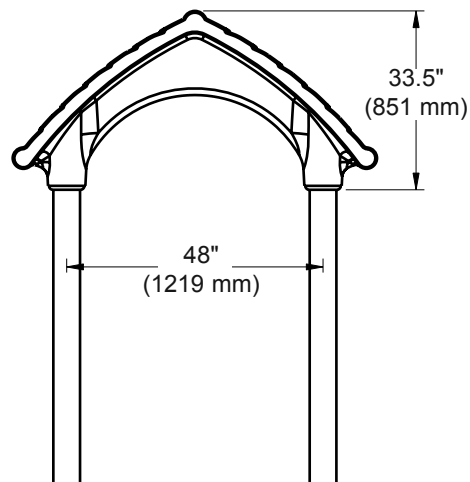
Installation Time: 1 man-hour

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions



Top View



Elevation Views
ZZPM9846

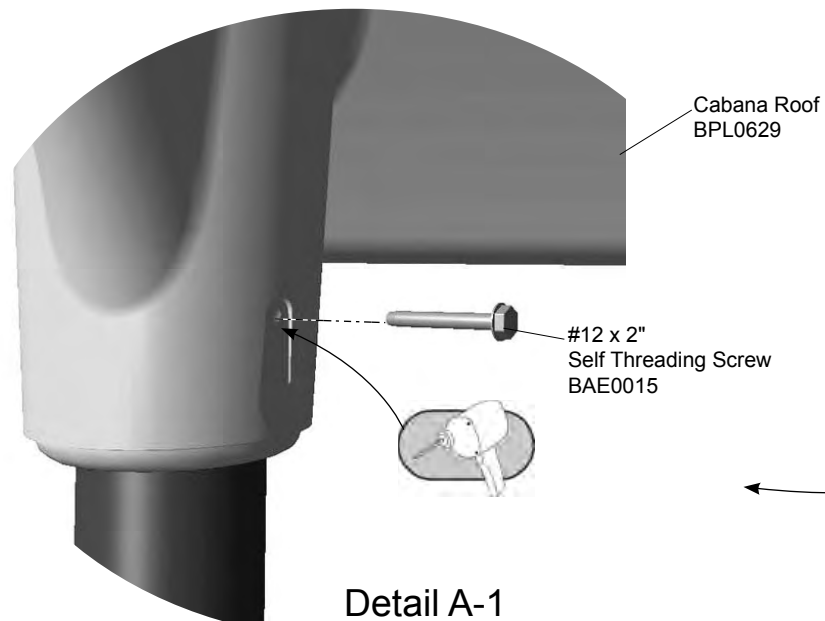


Installation Instructions

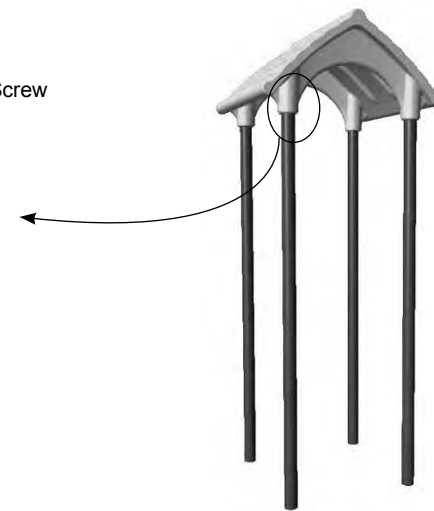
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A-1
Step 3



Detail A-1
Step 3



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

Step 3: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1





Assembly View (representative model)

Installation Instructions








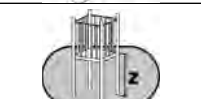
Playmakers®

Models PM9168, PM9170 and PM9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and
36" (914 mm) Rise Height

Installation Preparation

Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

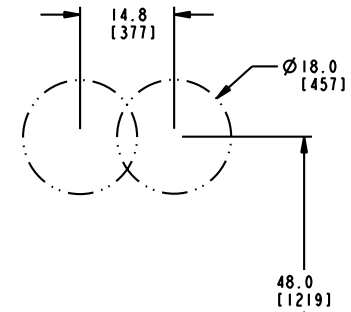
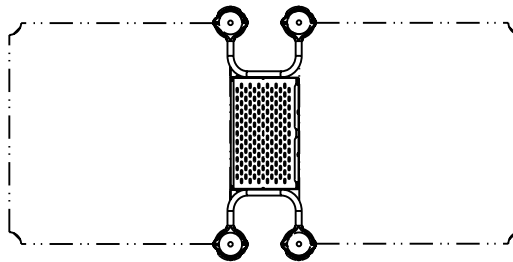
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

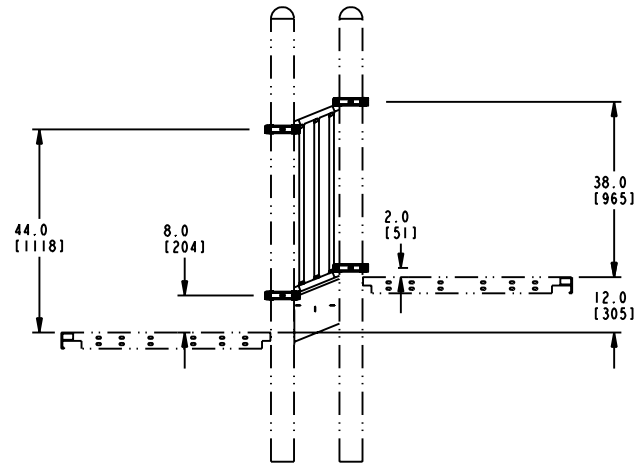
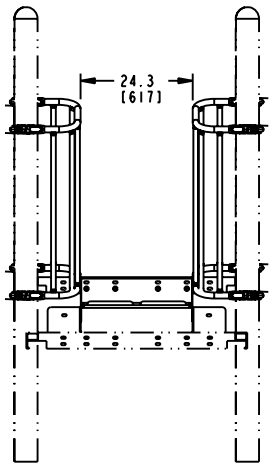
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Bottom #	[Millimeters]

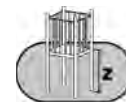
Top View



Footing Diagram



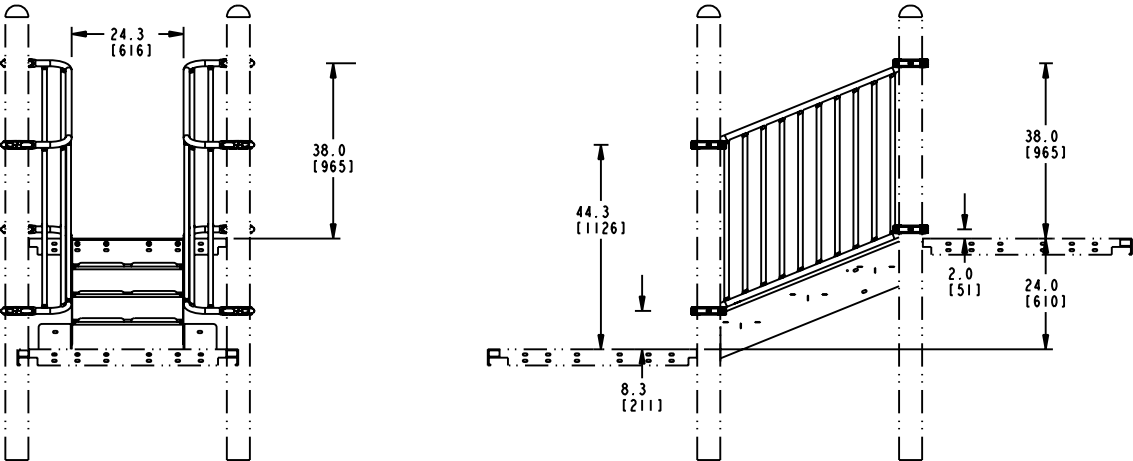
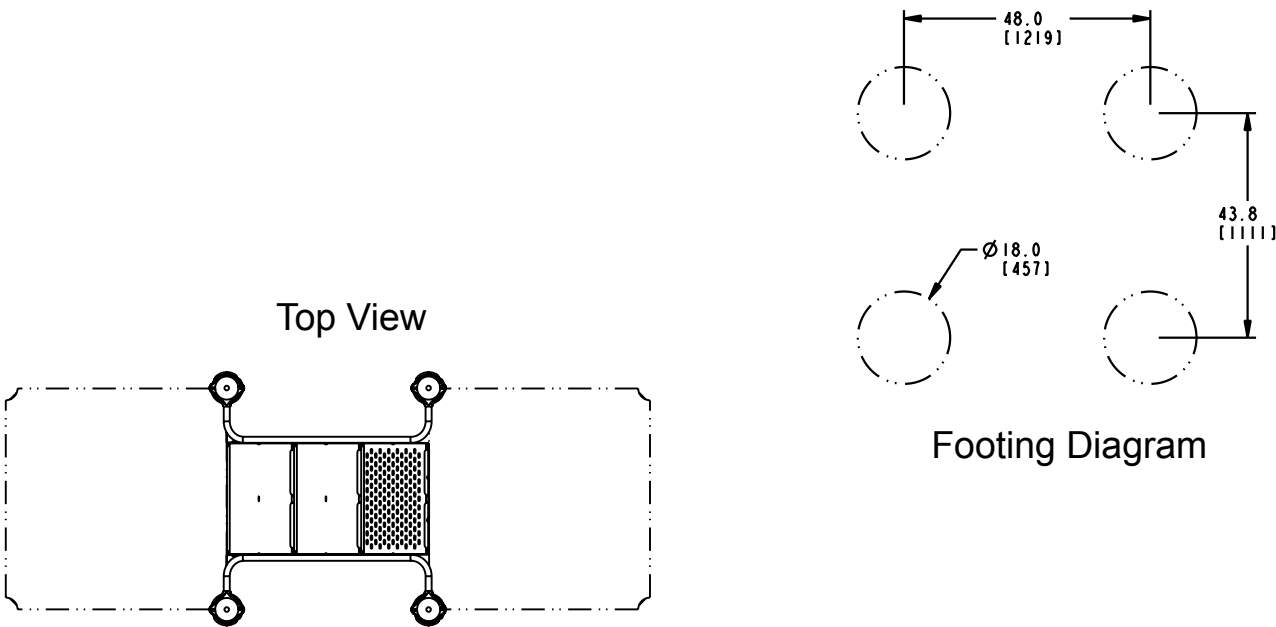
Elevation Views
PM9168



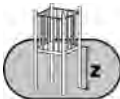
Height of the upper deck
minus 6" (152 mm)

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation Views
PM9170



Height of the upper deck
minus 6" (152 mm)

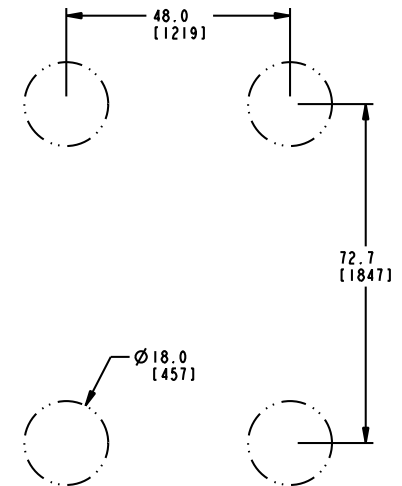
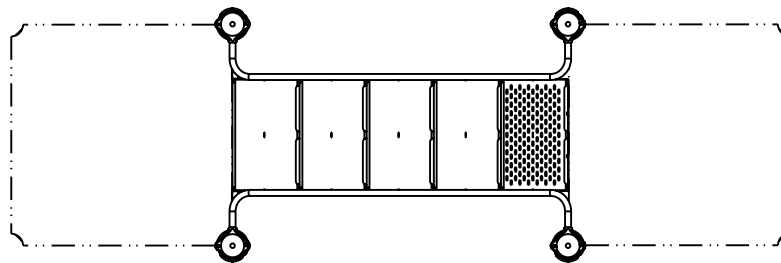


Installation Instructions

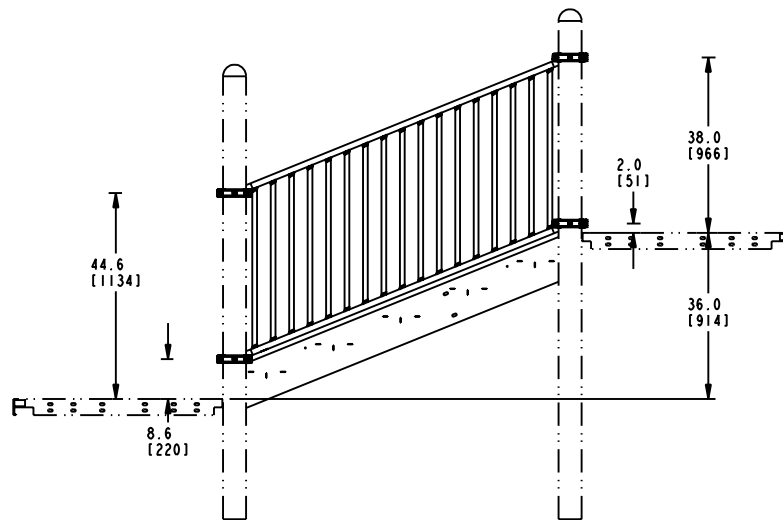
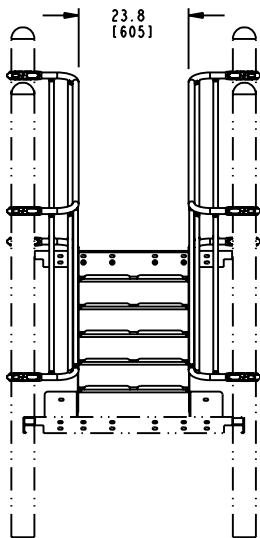
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Top #	Inches
Bottom #	[Millimeters]

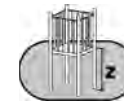
Top View



Footing Diagram



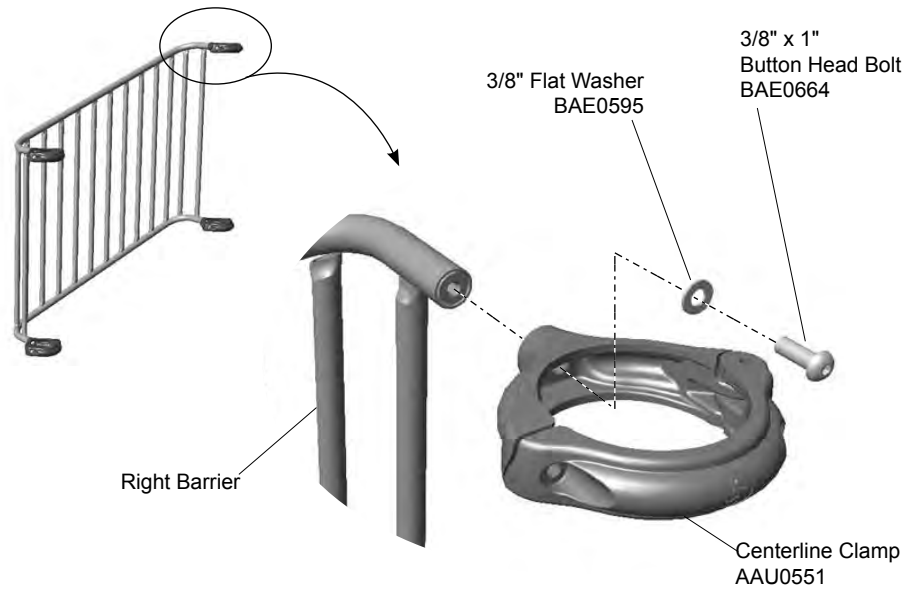
Elevation Views
PM9177



Height of the upper deck
minus 6" (152 mm)

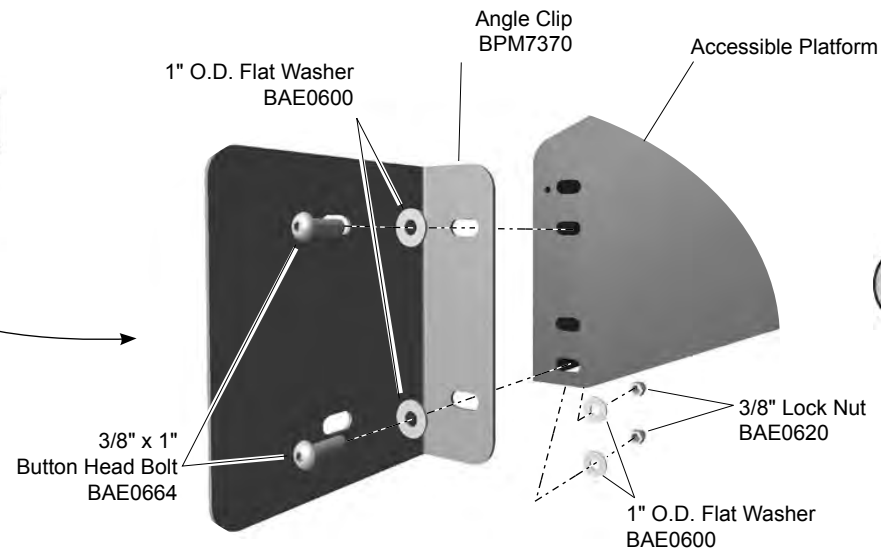
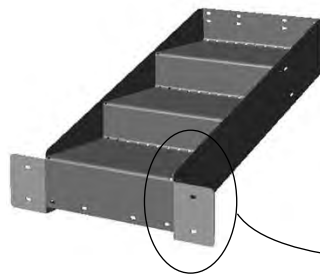
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

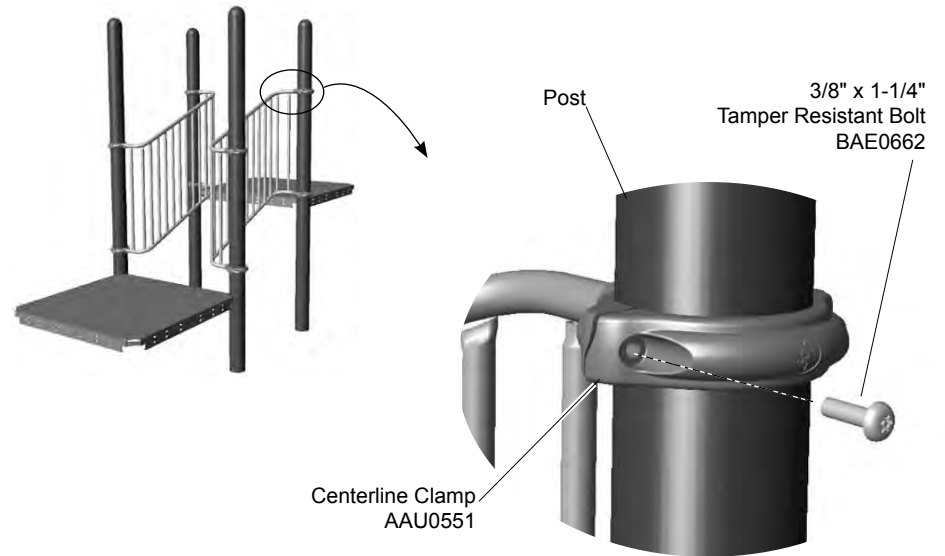


Detail A
Step 4

The front of angle clip should be even with the face of the platform



Detail C
Step 6

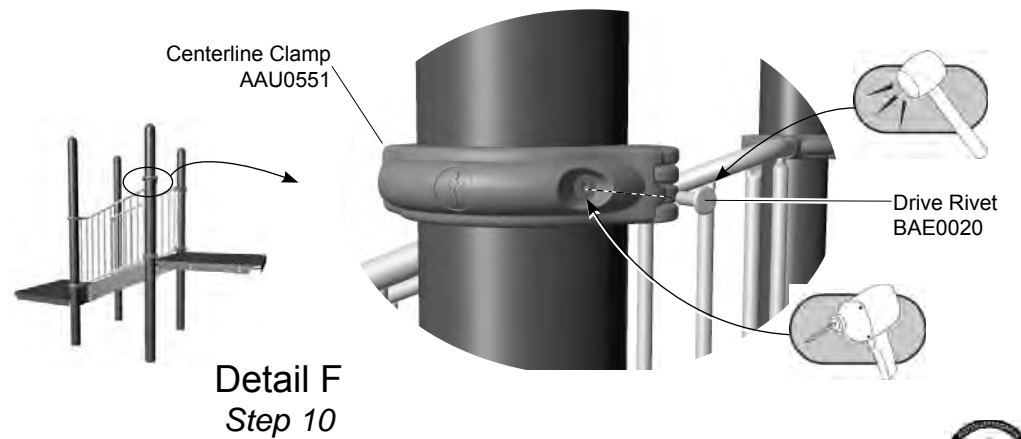
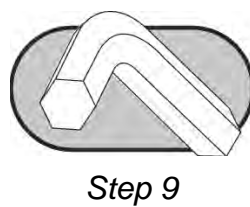
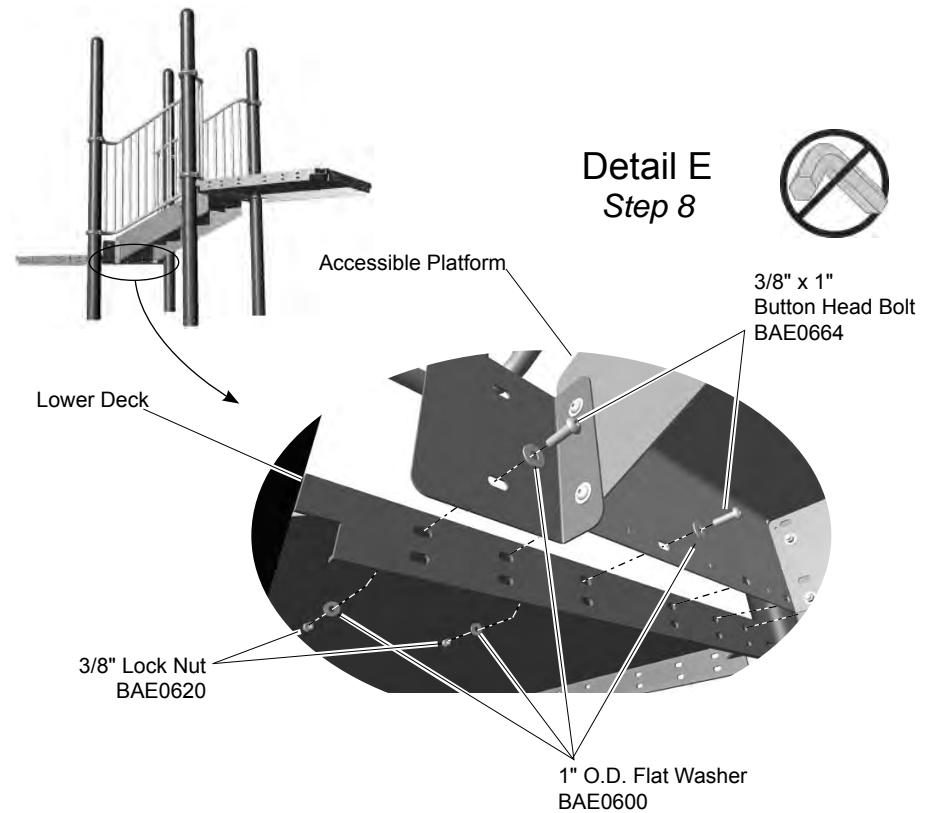
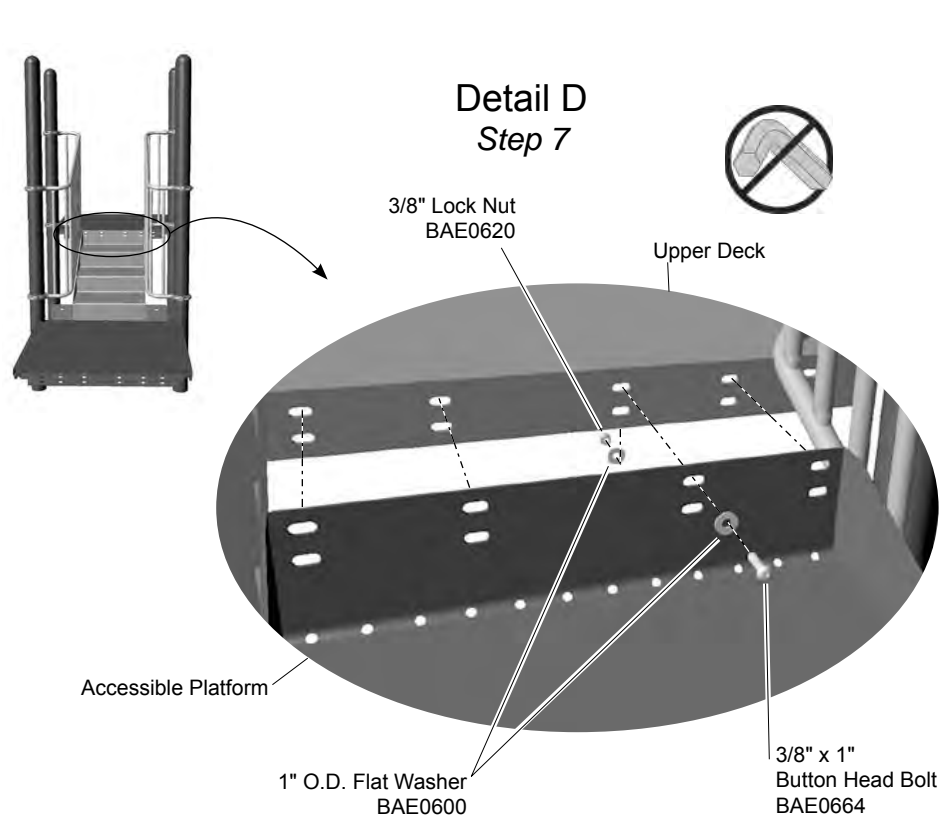


Detail B
Step 5



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

Step 10: Rivet the clamps to the posts. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2





Assembly View (representative model)

Installation Instructions







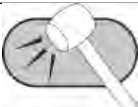
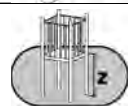
Playmakers®

Models PM9168, PM9170 and PM9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and
36" (914 mm) Rise Height

Installation Preparation

Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

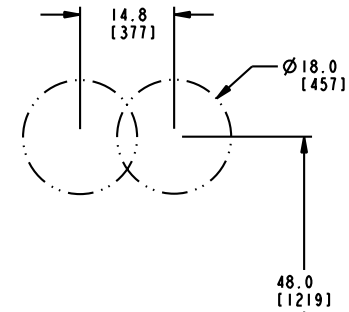
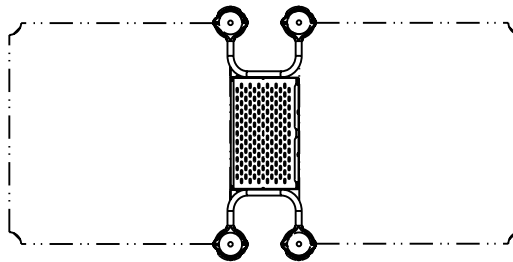
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

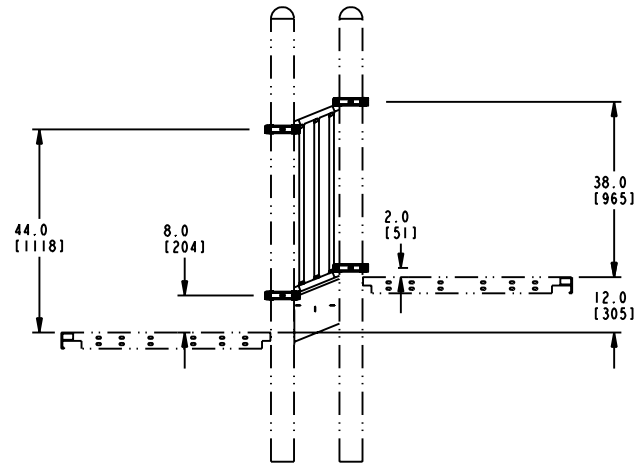
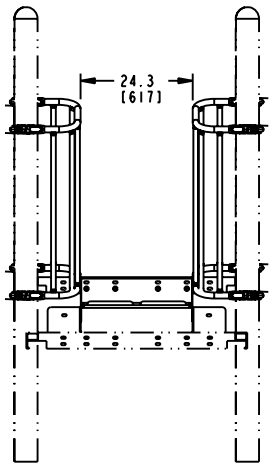
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Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

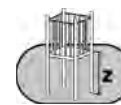
Top View



Footing Diagram



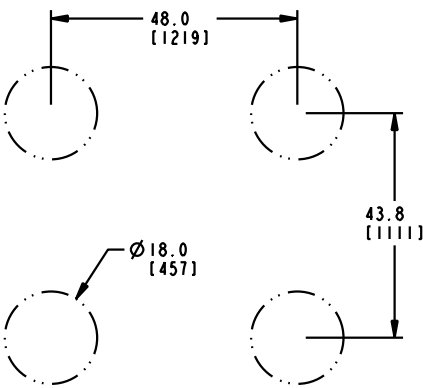
Elevation Views
PM9168



Height of the upper deck
minus 6" (152 mm)

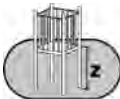
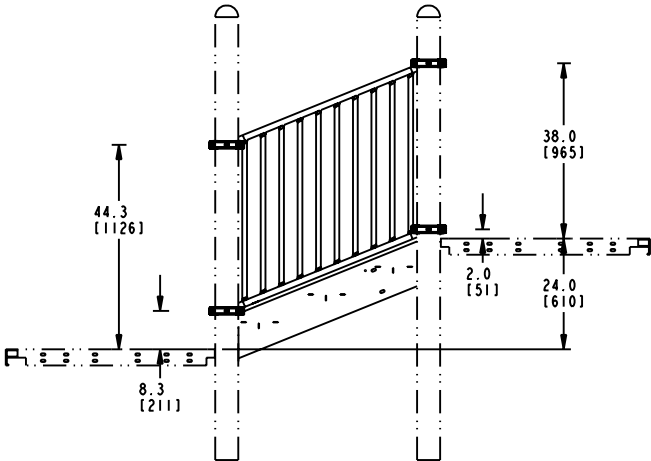
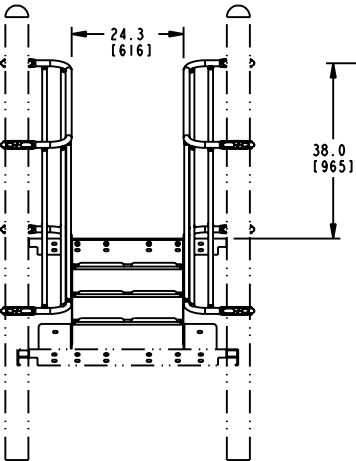
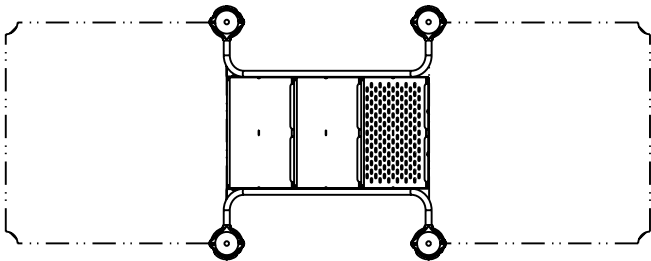
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

Top View



Height of the upper deck
minus 6" (152 mm)

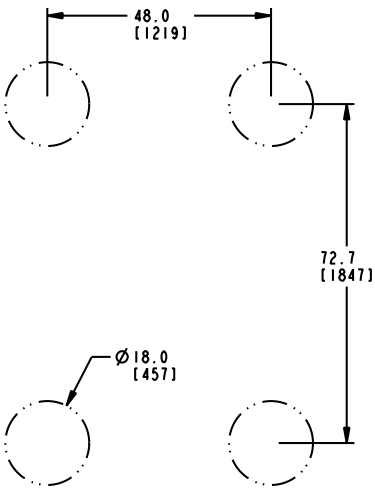
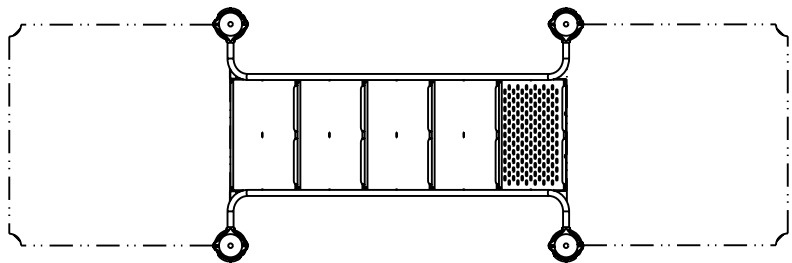
Elevation Views
PM9170



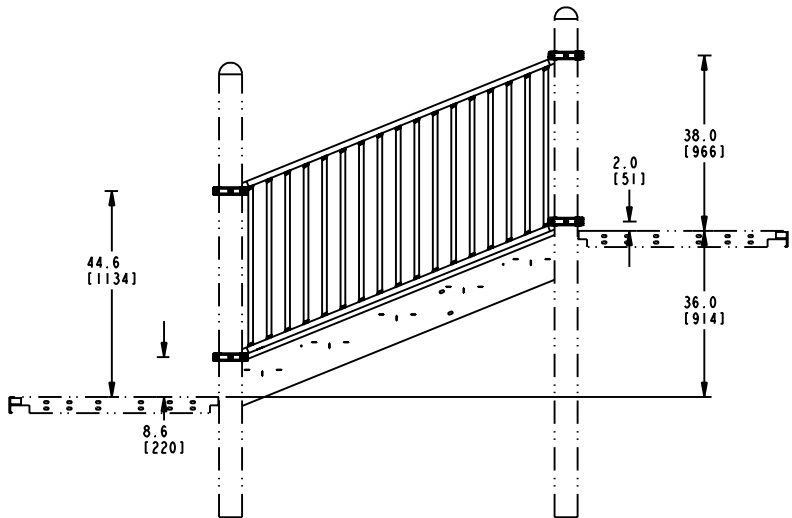
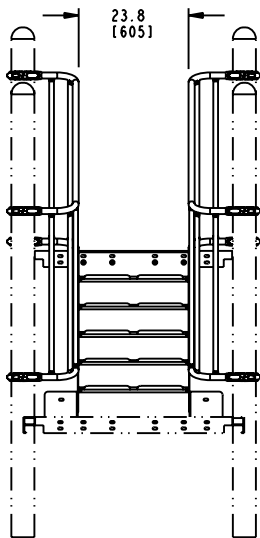
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Footing Diagram



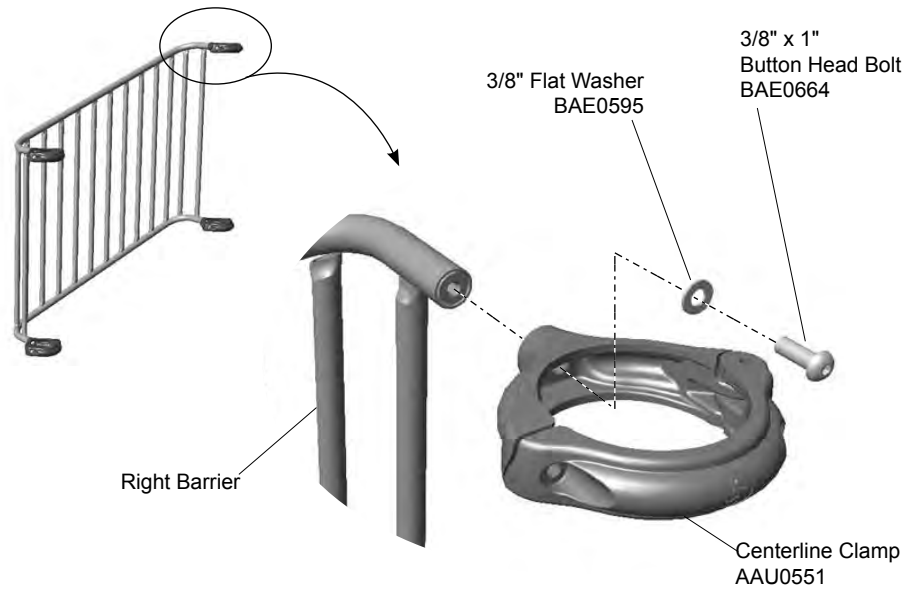
Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177



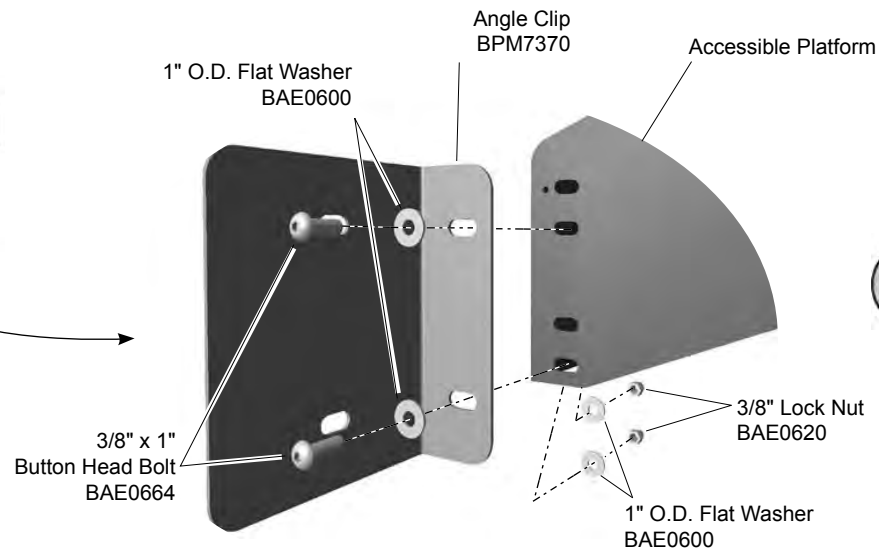
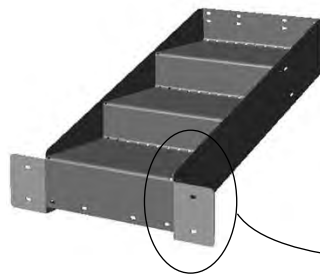
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

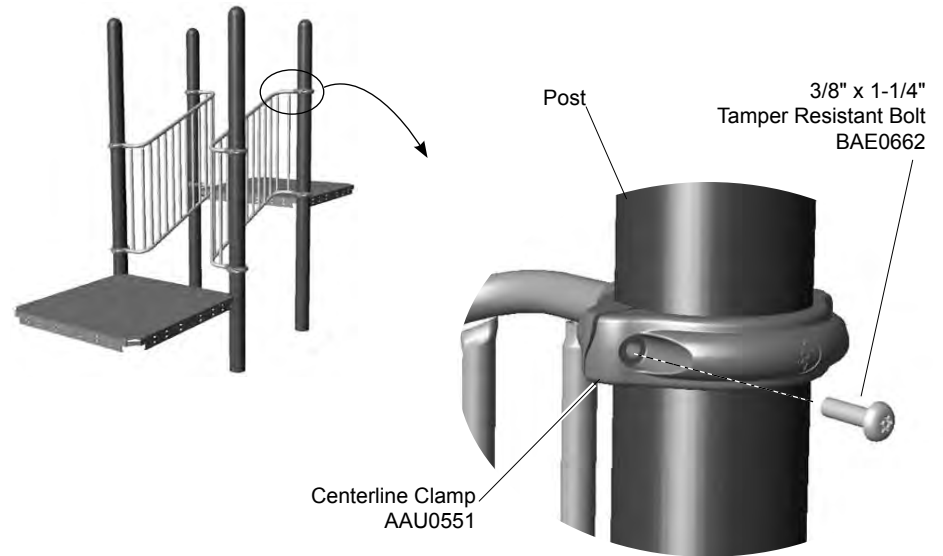


Detail A
Step 4

The front of angle clip should be even with the face of the platform



Detail C
Step 6

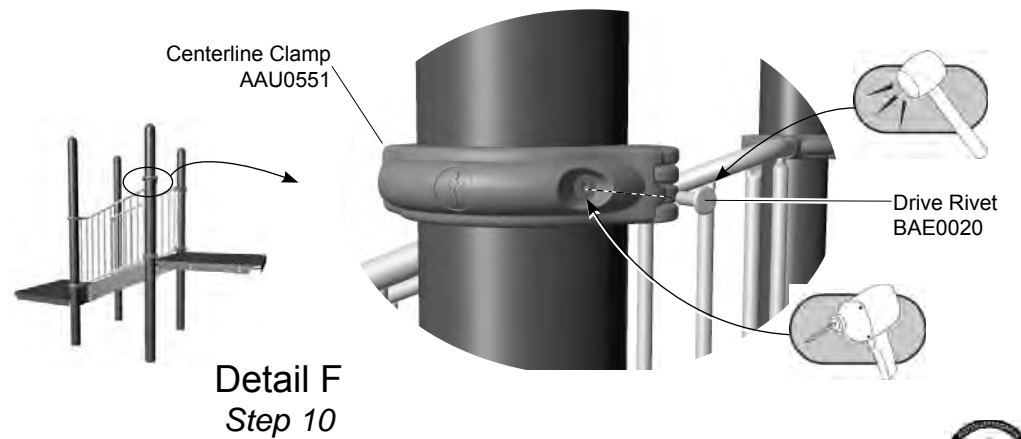
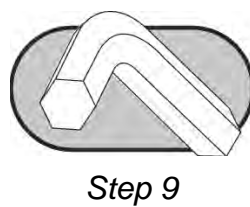
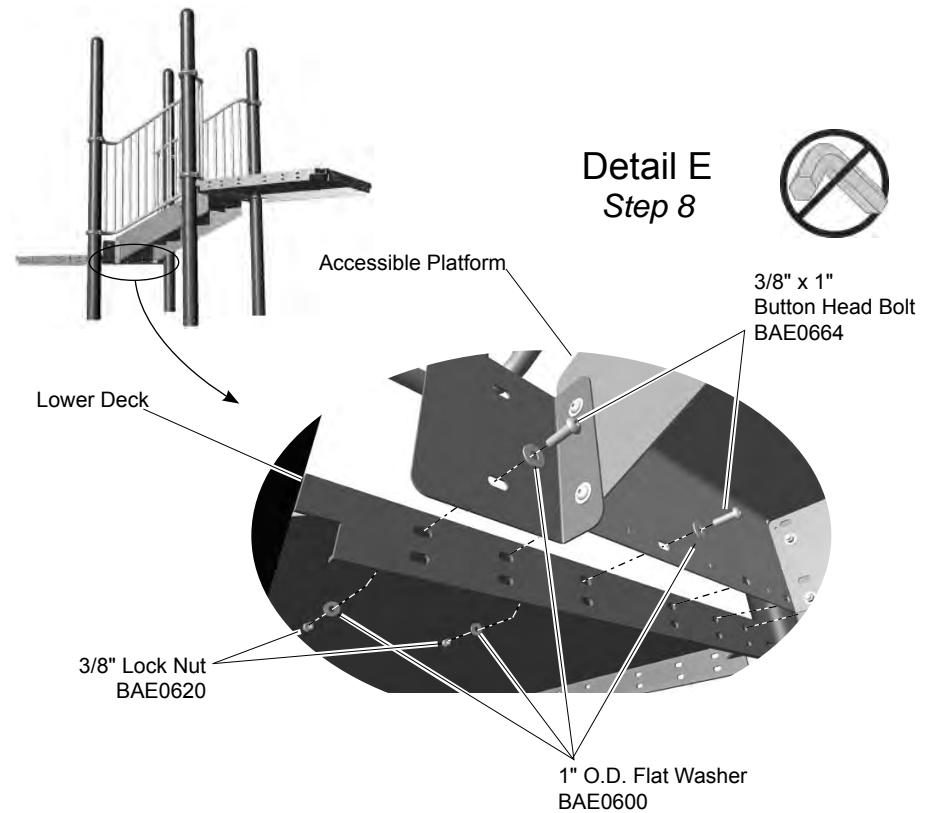
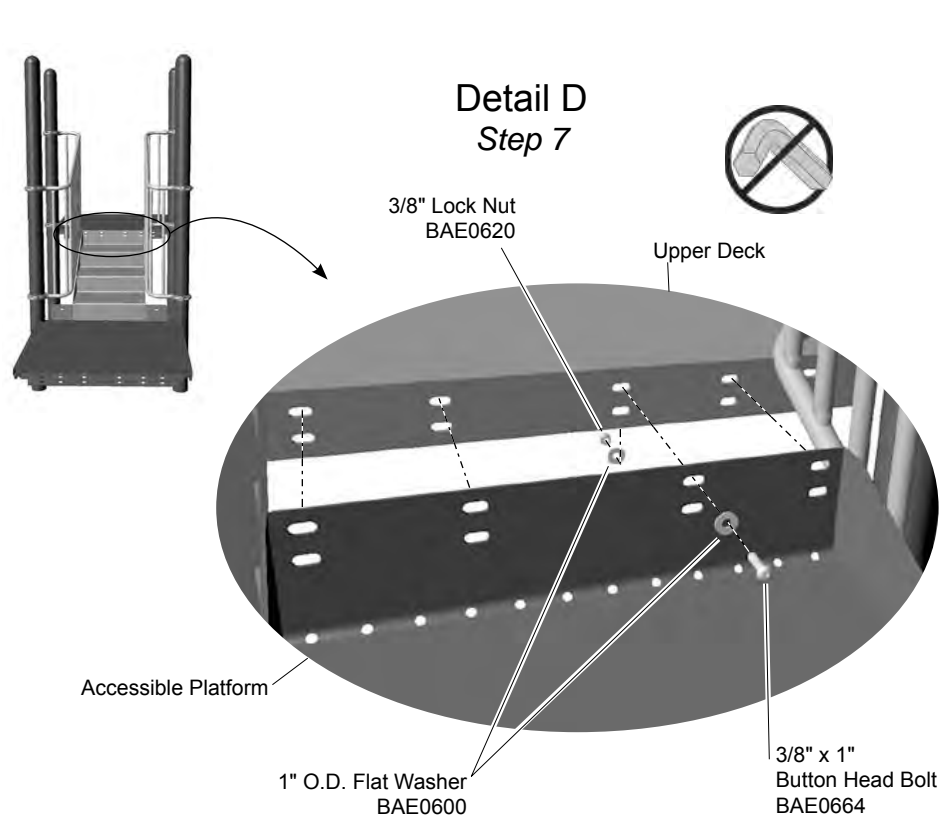


Detail B
Step 5



Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

Step 10: Rivet the clamps to the posts. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®

Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

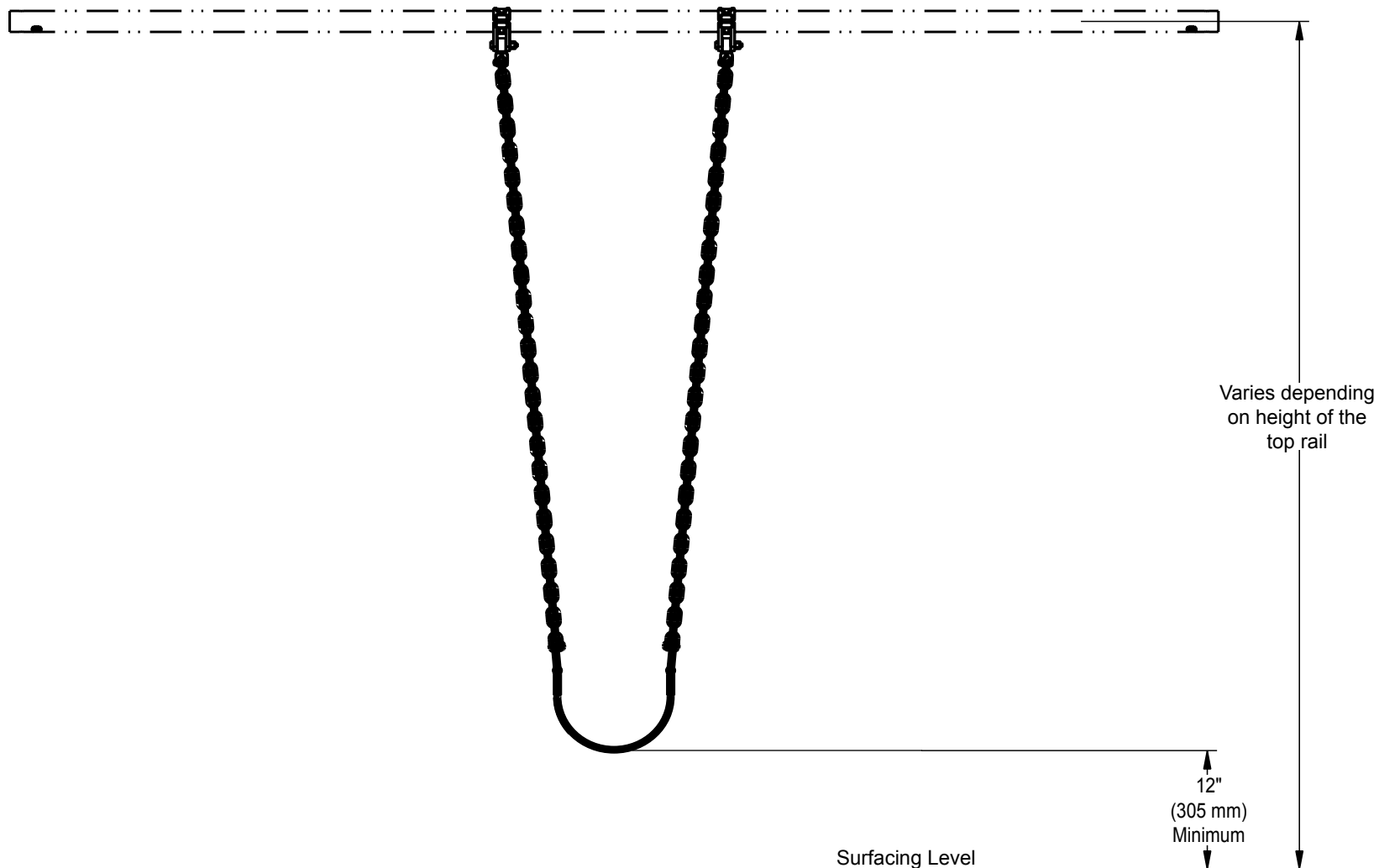
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

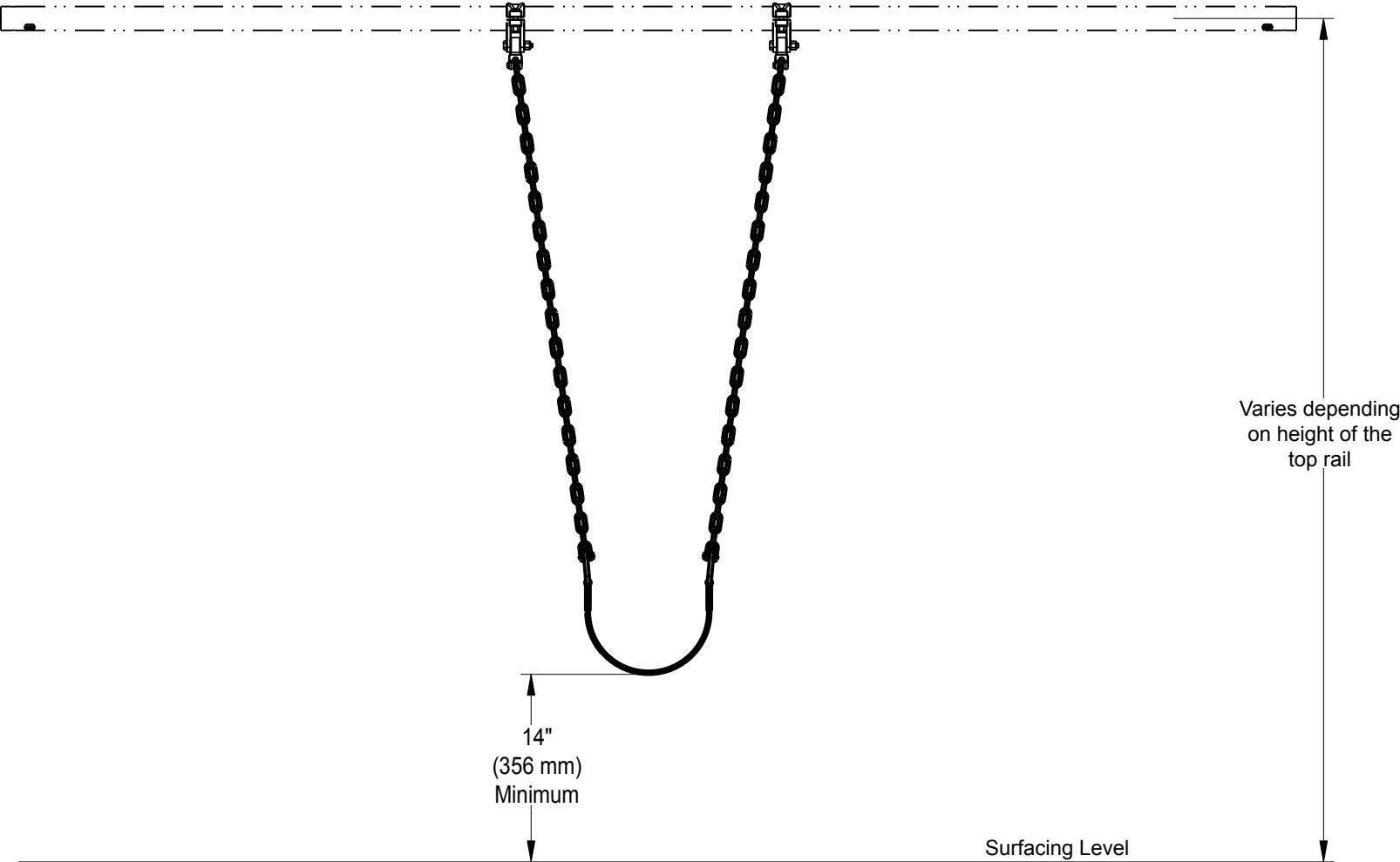
Installation Instructions



Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)

Installation Instructions



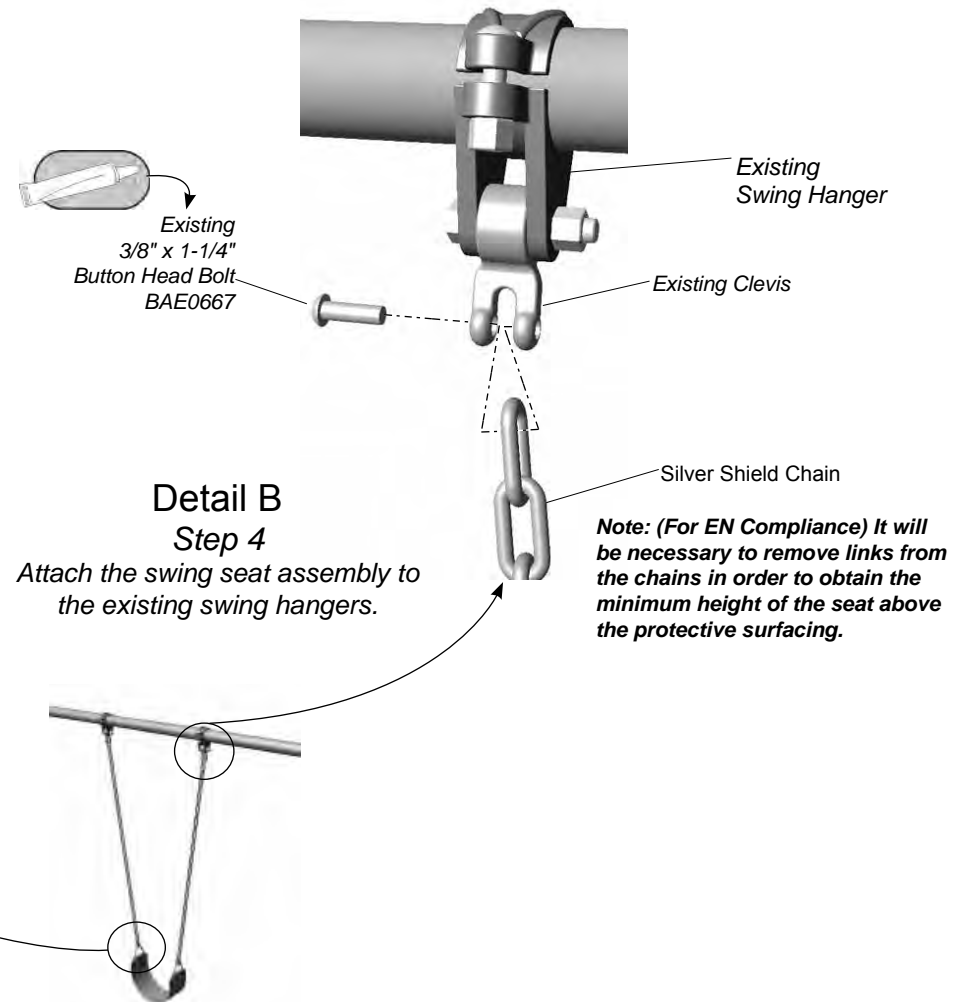
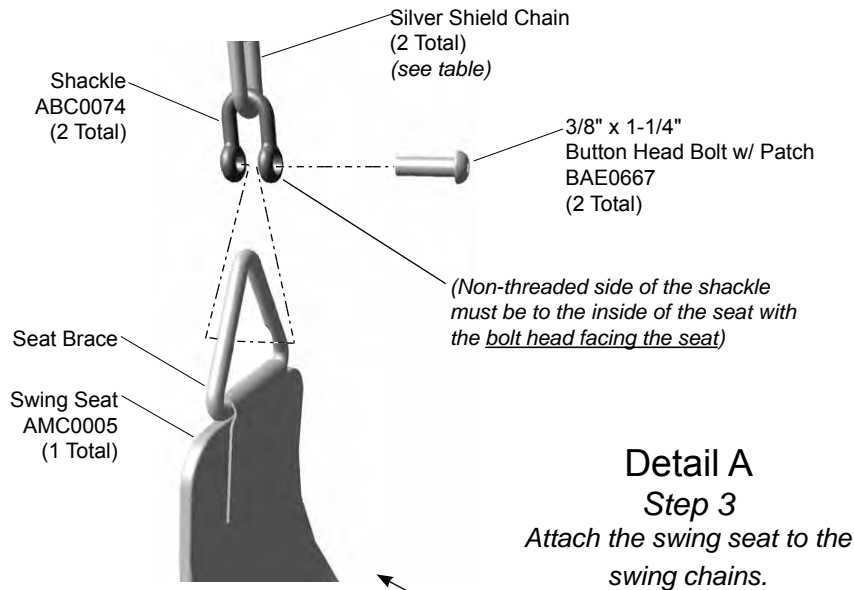
Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain





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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Top Rail Height
ZZXX0325	7 ft. (2134 mm)
ZZXX0265	8 ft. (2440 mm)
ZZXX0266	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

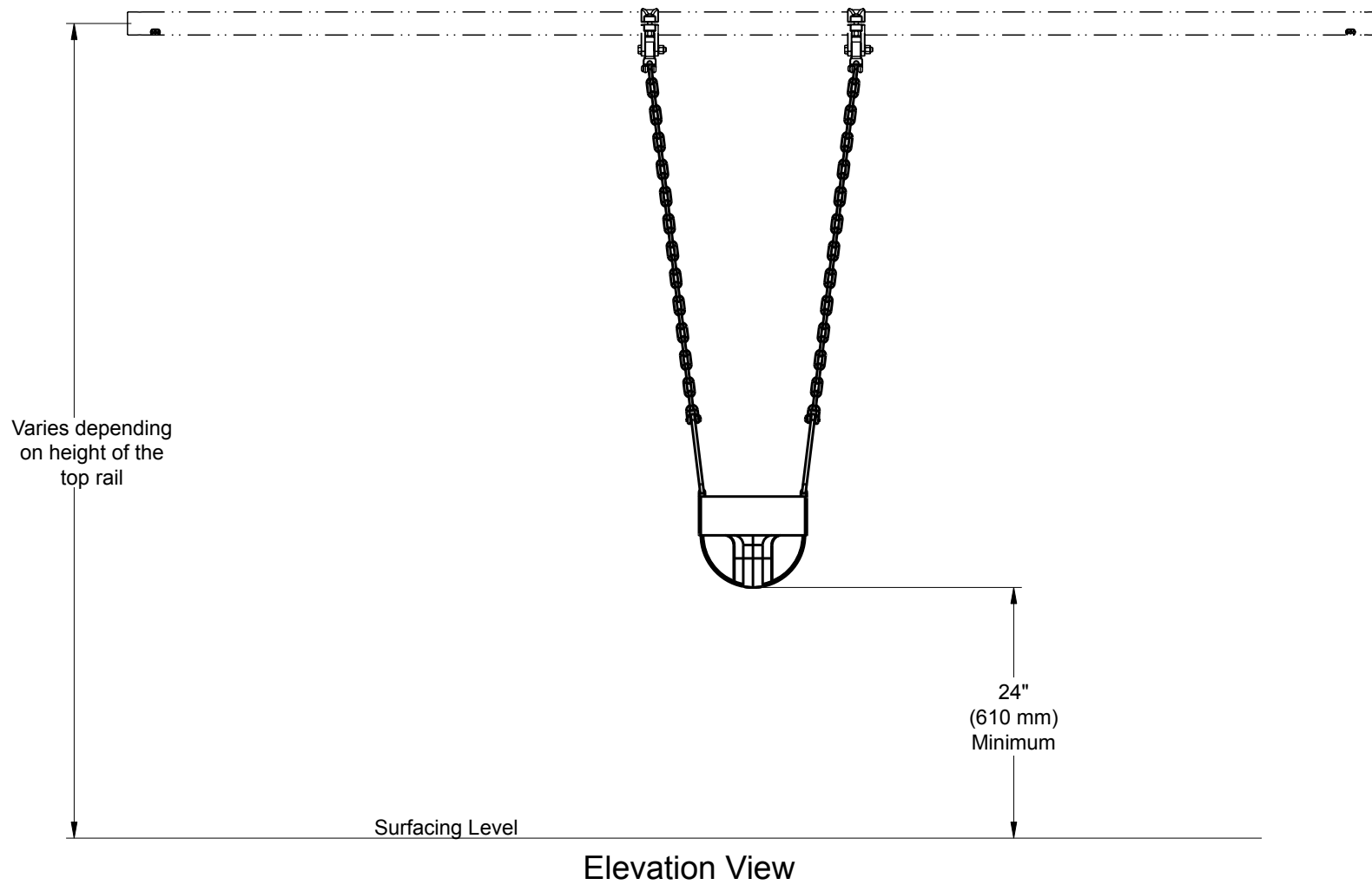
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone:..... Refer to the swing frame instructions
 User Group:..... Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

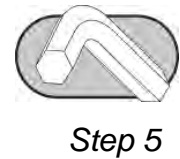
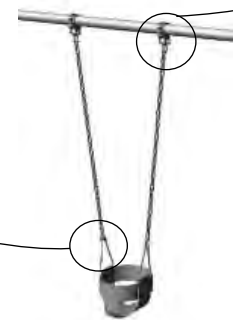
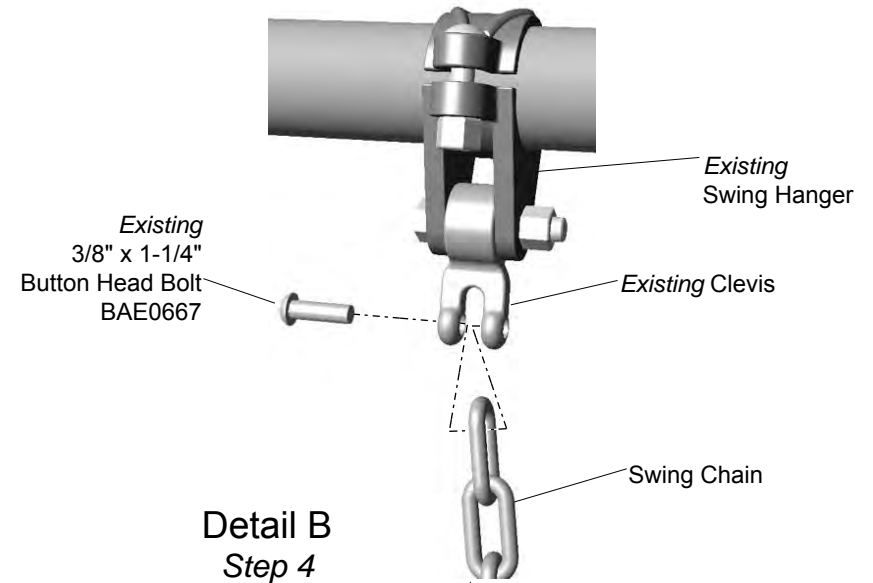
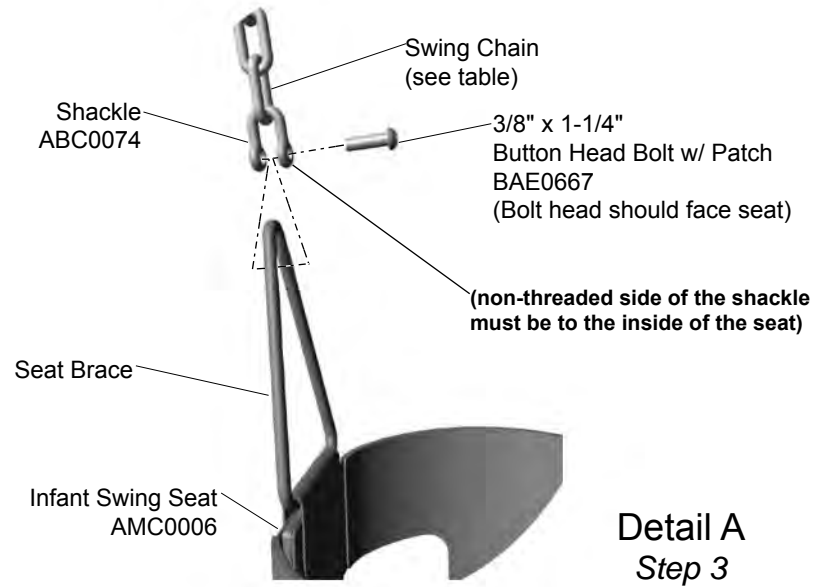
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

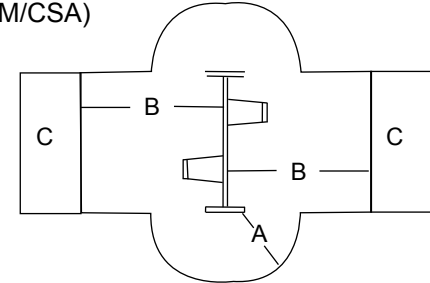
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

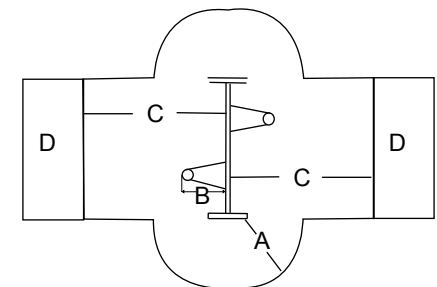
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

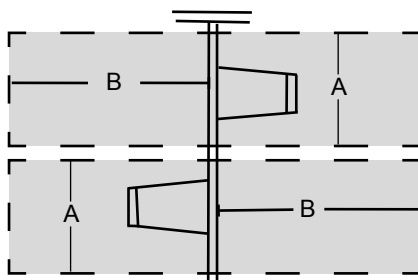
(EN)

For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

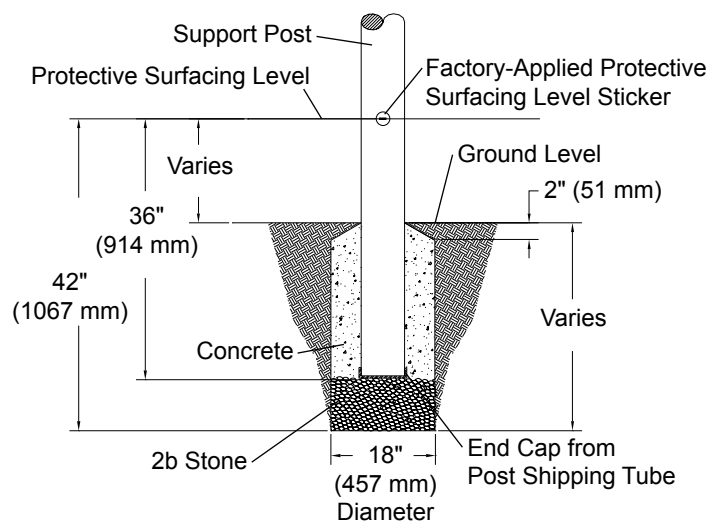
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

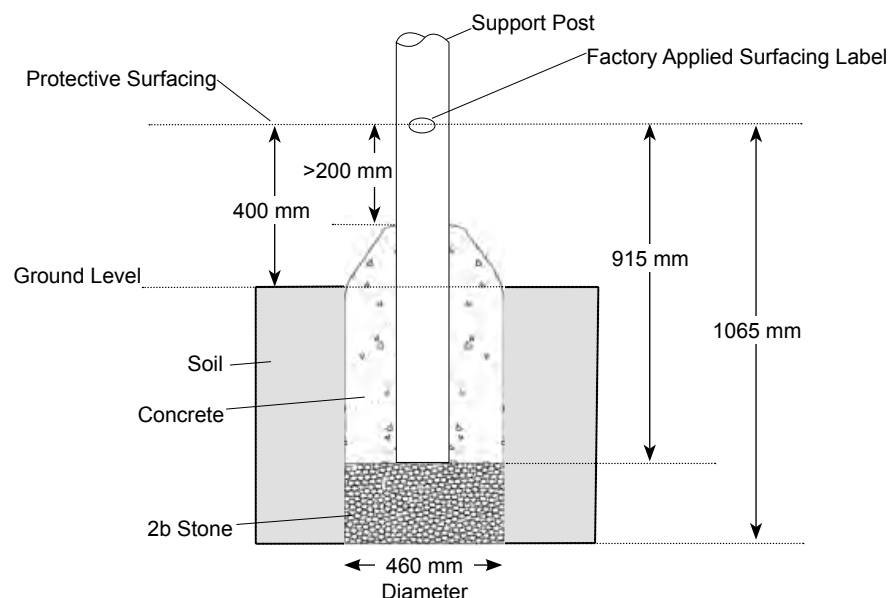
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Assembly View (representative model)

Installation Instructions

Playworld Systems® Model XX0287
 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
 8 ft. (2438 mm) Top Rail

Installation Preparation

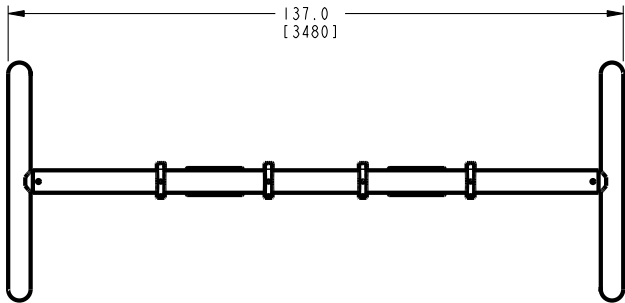
Recommended Crew: Four (4) adults
 Installation Time: 3 man-hours
 Concrete Required: 0.48 cubic yard (0,37 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

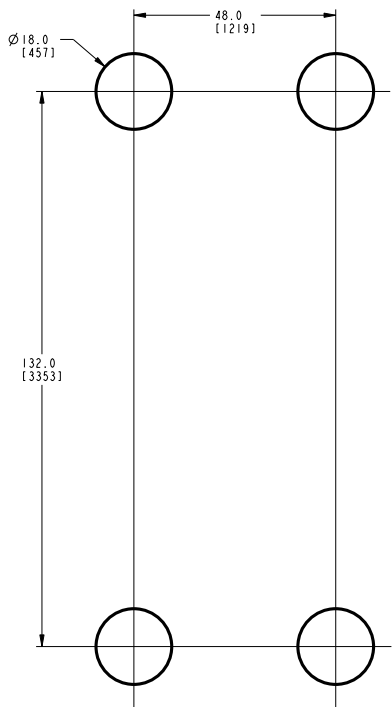
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

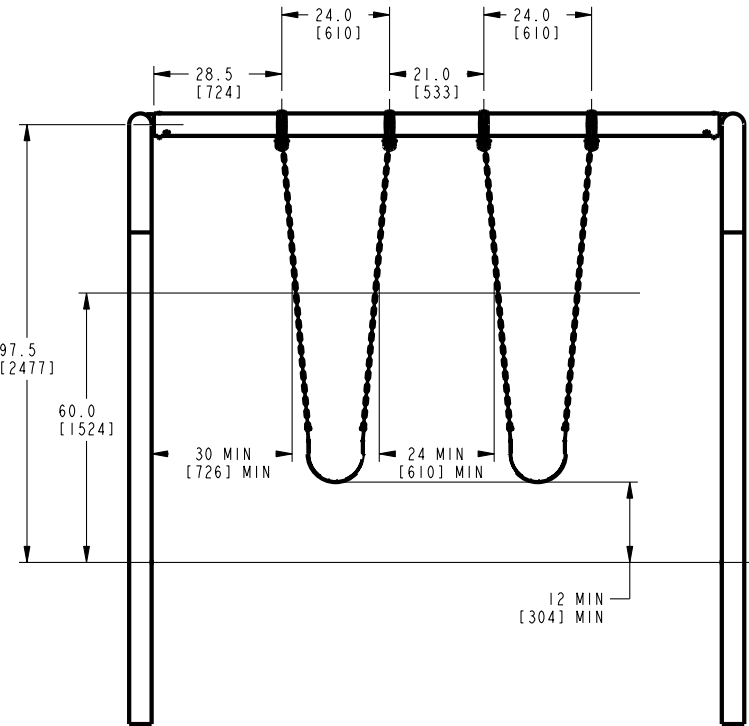
Top View



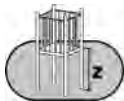
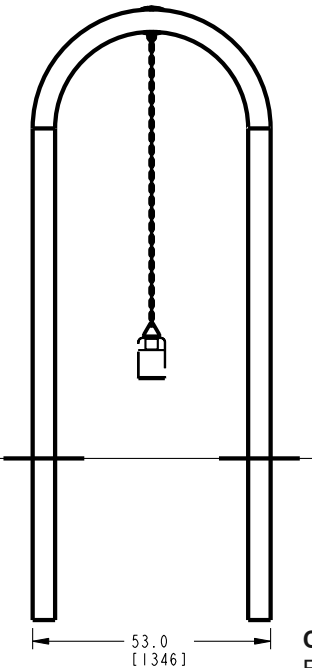
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Footing Diagram



Elevation Views

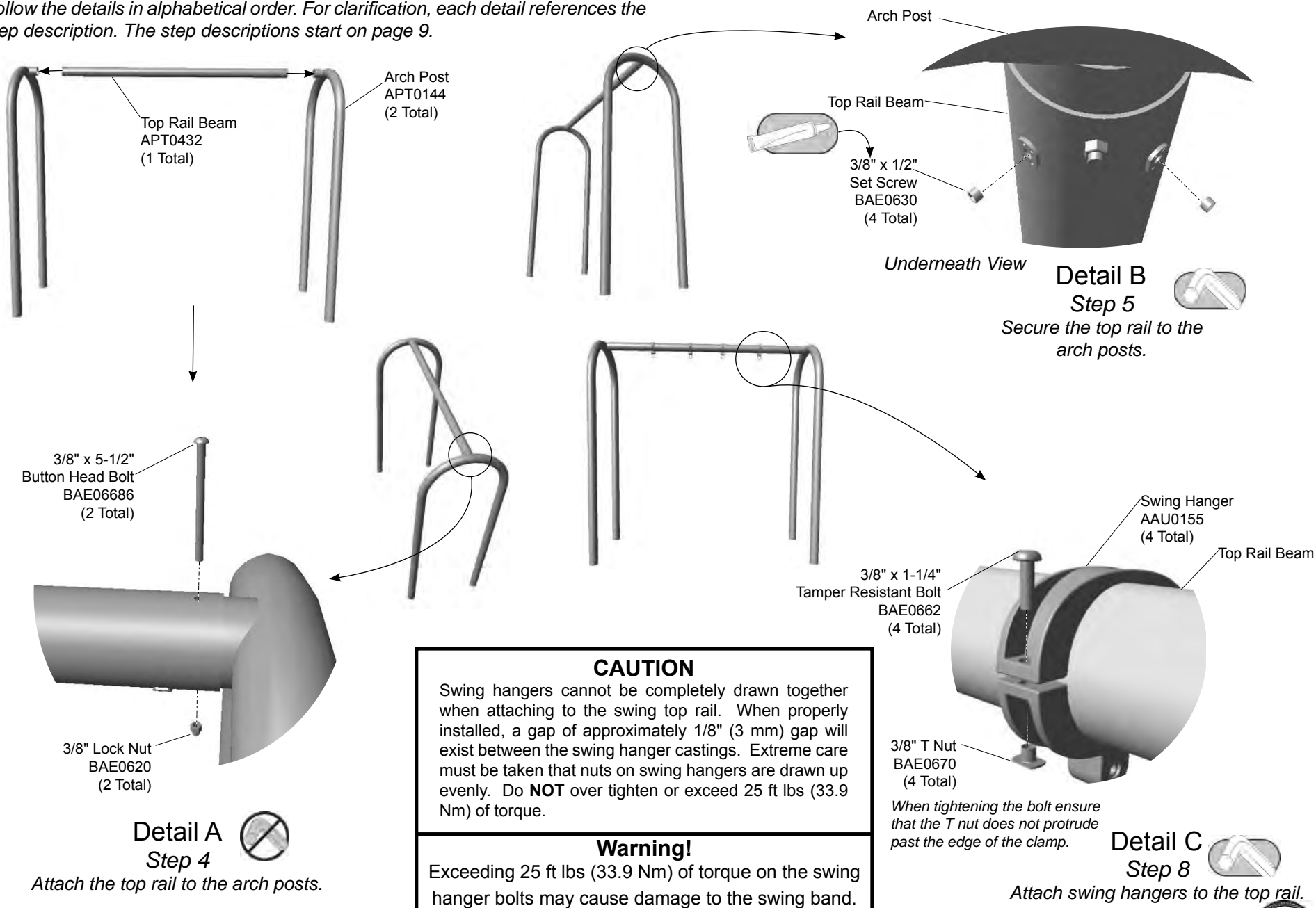


Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

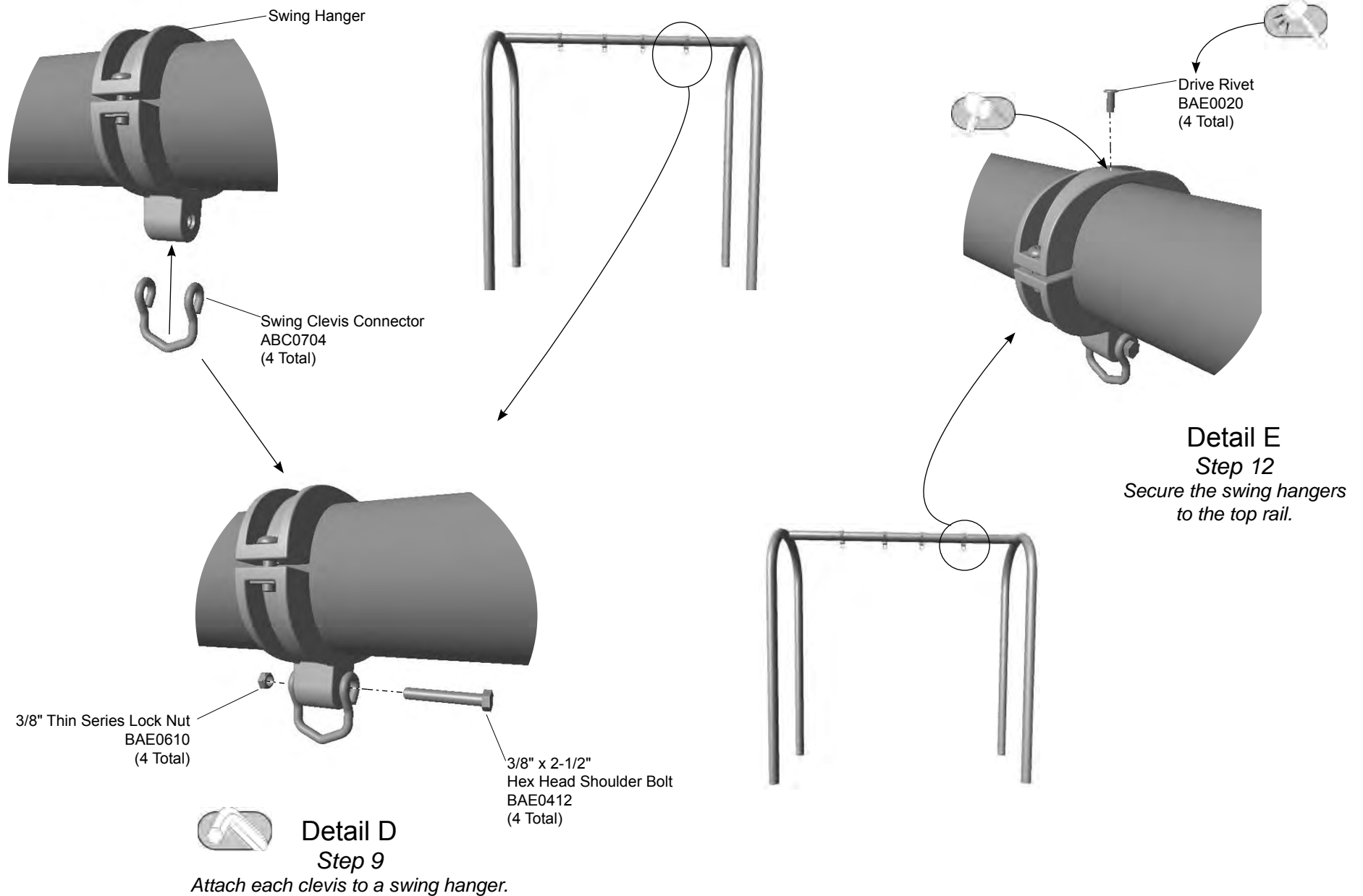


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133-1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1



The world needs play.

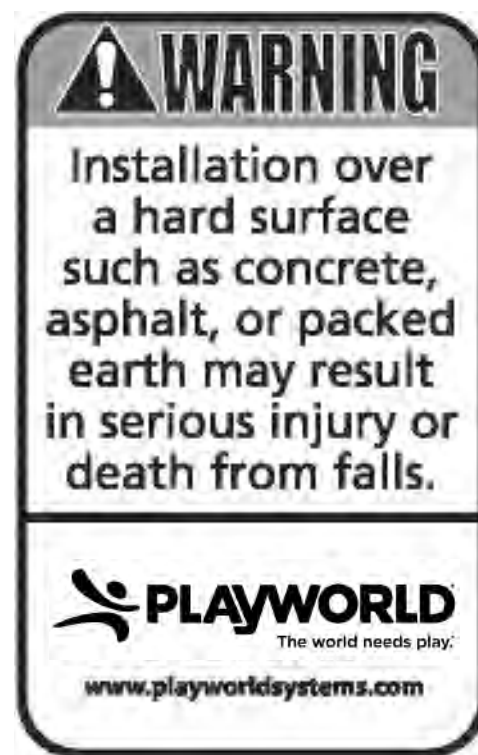
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.



The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **. . . for Safety's Sake!**

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

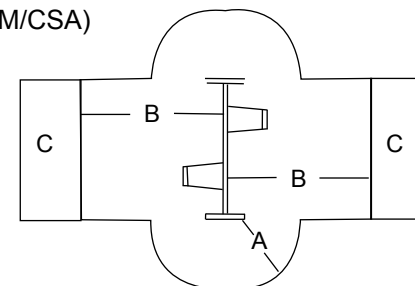
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

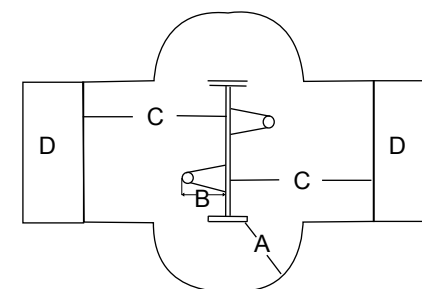
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

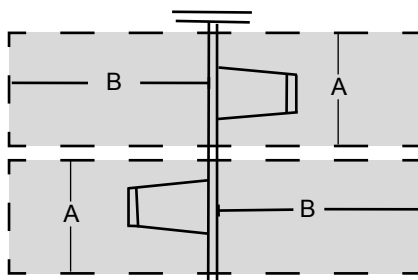
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

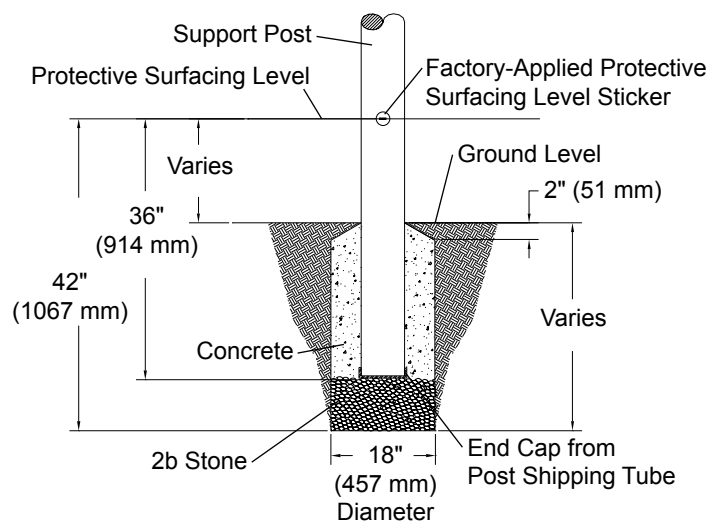
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

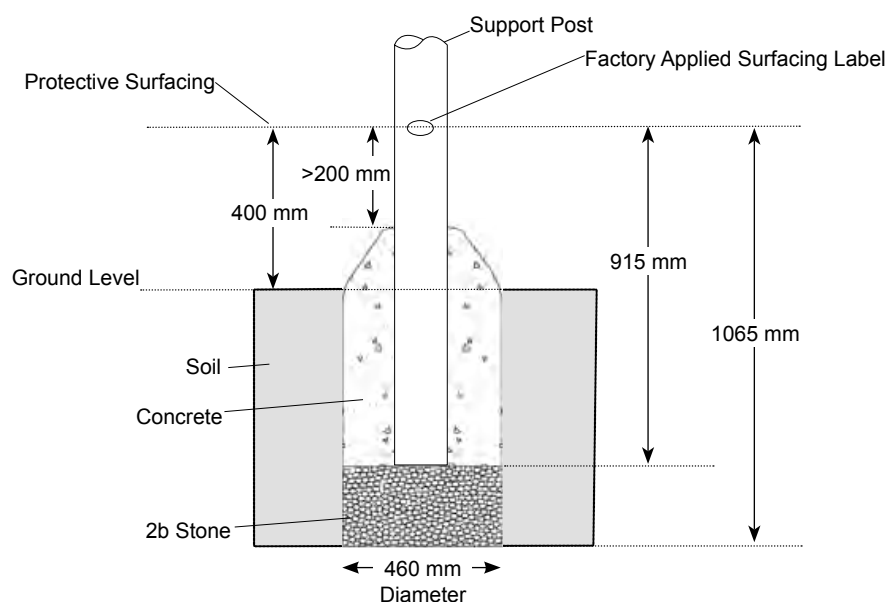
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



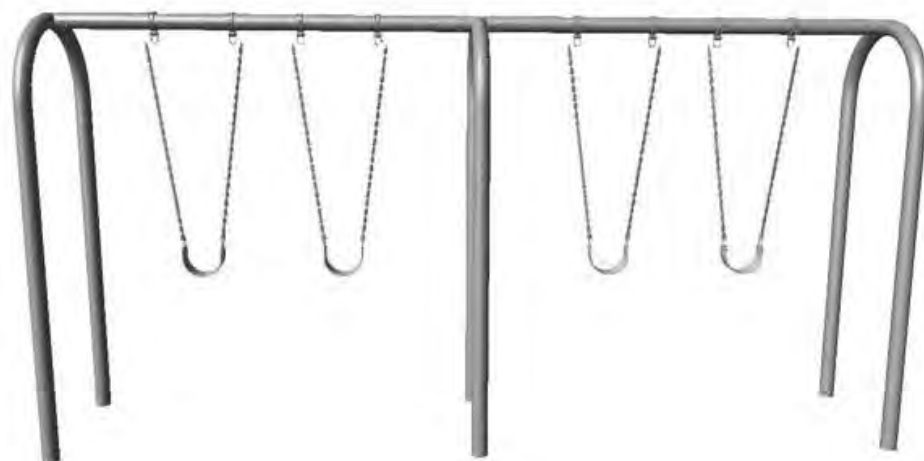
Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Assembly View

Installation Instructions

Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 2 man-hours
Concrete Required: 0.24 cubic yard (0,18 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

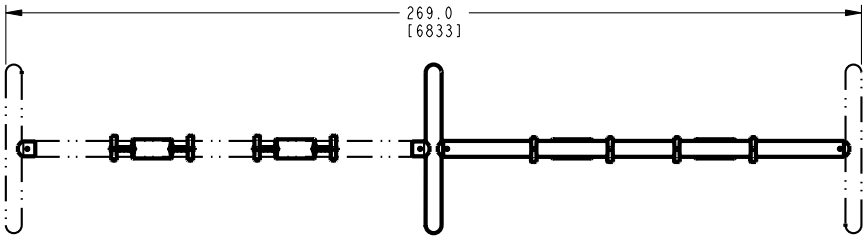
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

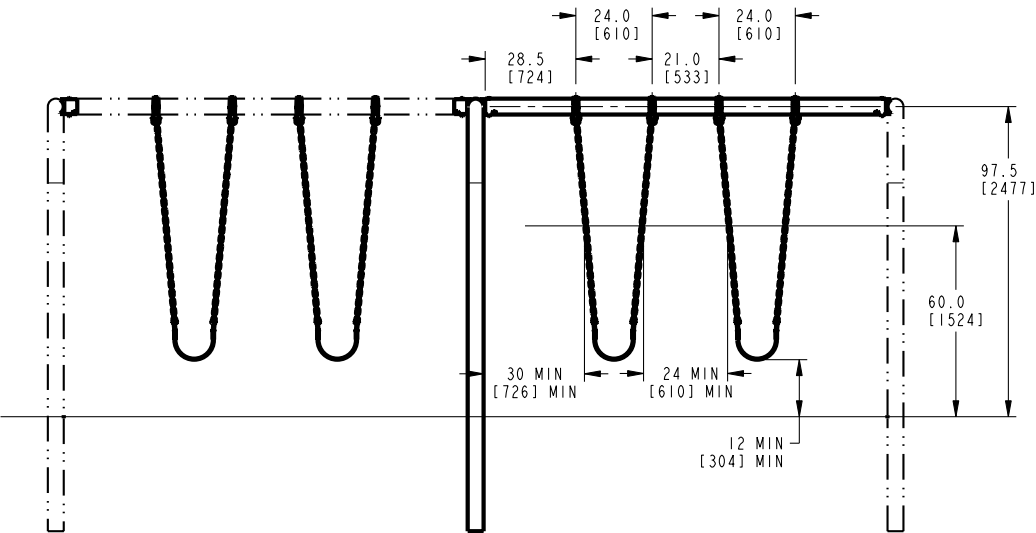
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

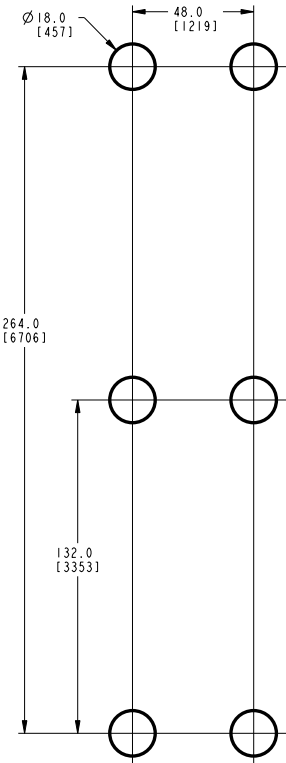
Top View



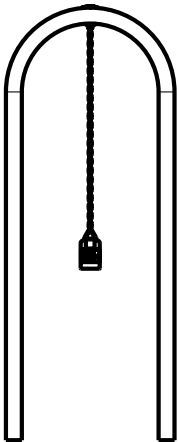
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views

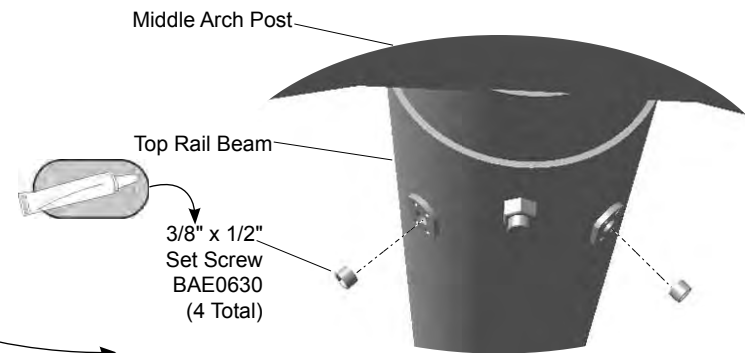
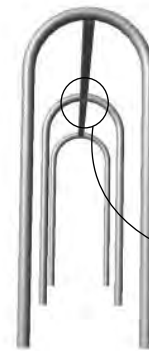
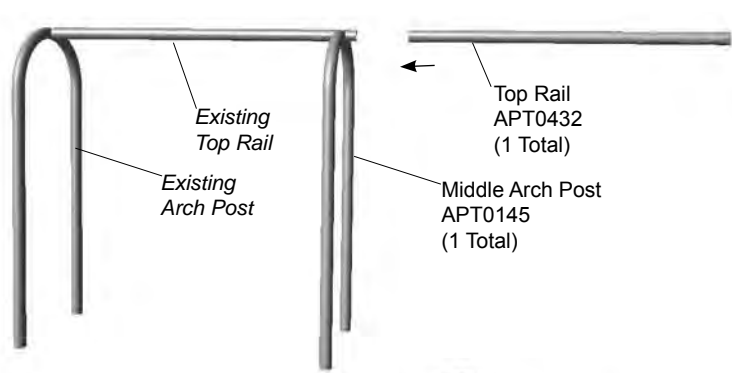


Footing Diagram



Installation Instructions

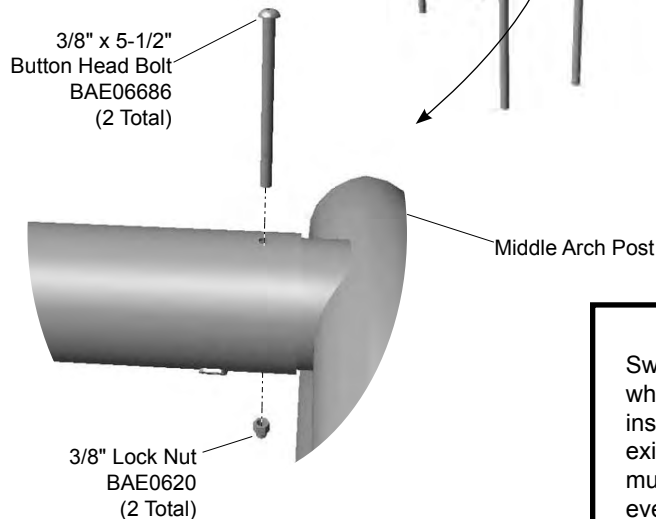
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

Detail B Step 7

Secure the top rails to the middle arch post.



Detail A Step 5

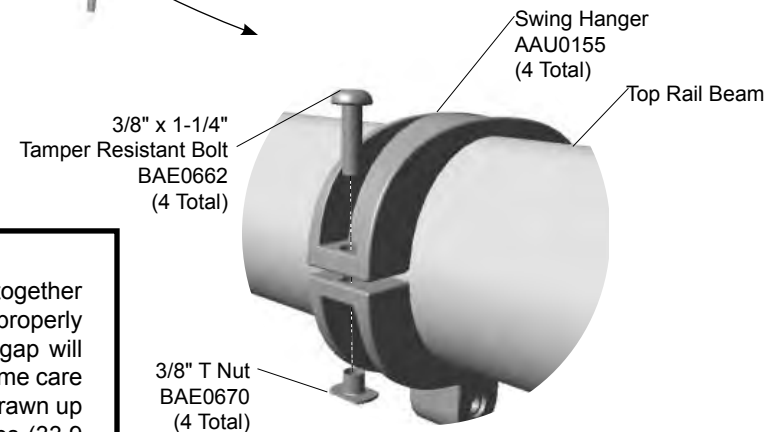
Attach both top rails (new and existing) to the middle arch support.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



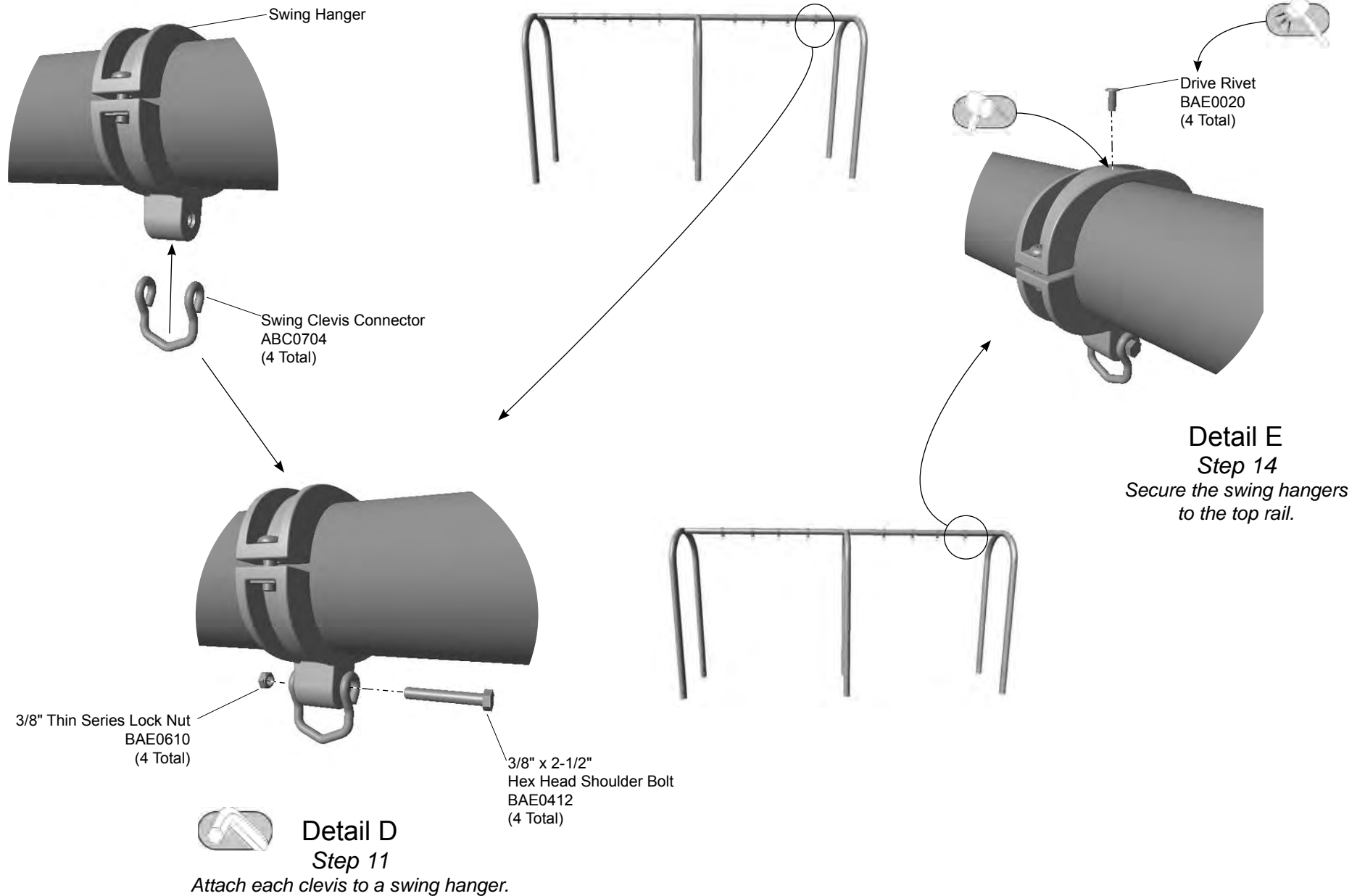
When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C Step 10

Attach swing hangers to the top rail.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - S.S.	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - S.S.	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

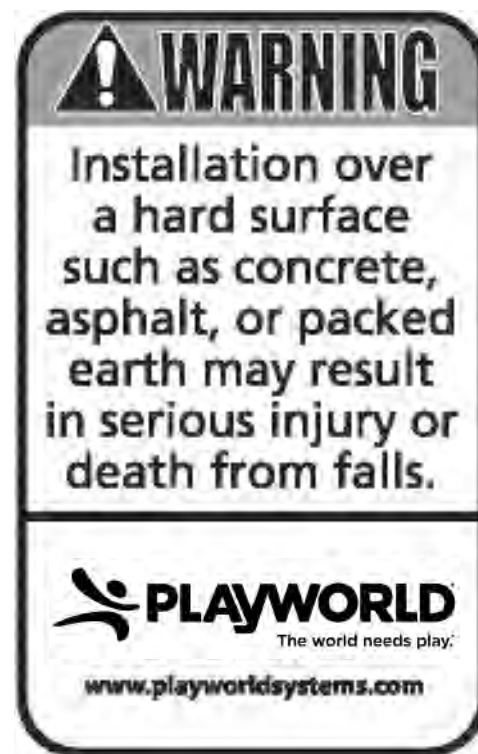


Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

PLAYWORLD
The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **. . . for Safety's Sake!**

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__



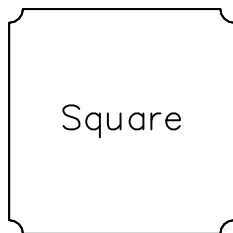
WALDORF PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

DECK IDENTIFICATION

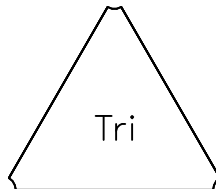
R5-1100

Page 1 of 1



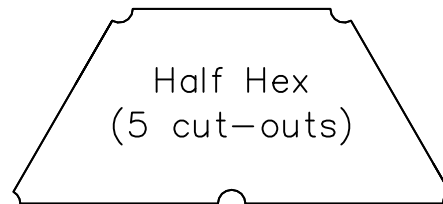
Square

R5 Deck 1



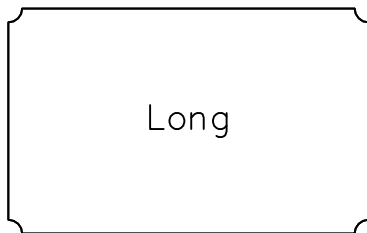
Tri

R5 Deck 2



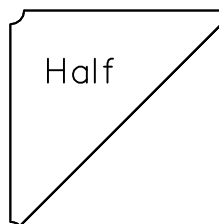
Half Hex
(5 cut-outs)

R5 Deck 4



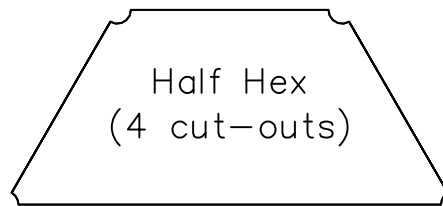
Long

R5 Deck 4



Half

R5 Deck 5

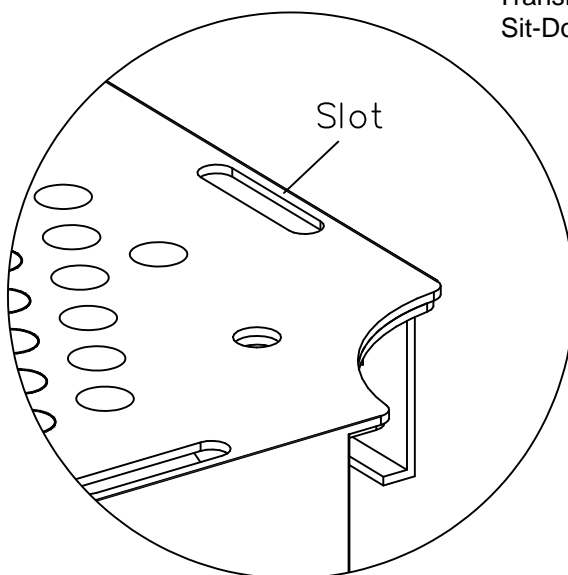


Half Hex
(4 cut-outs)

R5 Deck 6

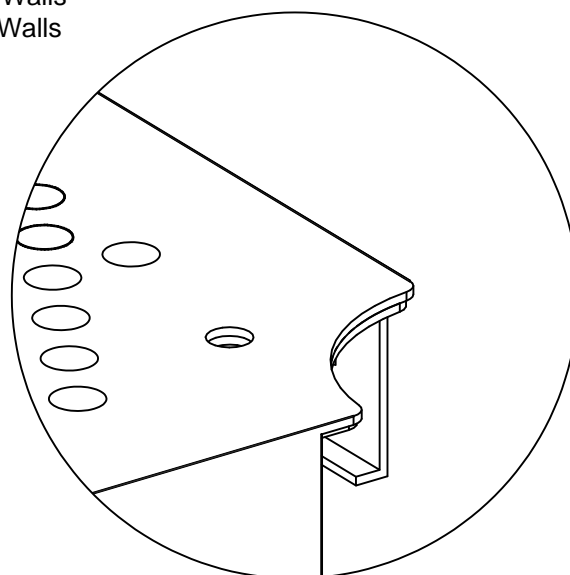
Note: Most walls
require Decks w/ slots.

Deck With Slots

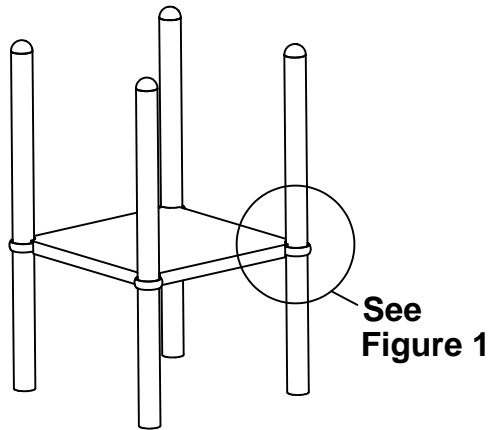


APPLIES TO:
Full Walls
Half Walls
Transition Walls
Sit-Down Walls

Deck Without Slots



Assembly View



R5 DECK 1

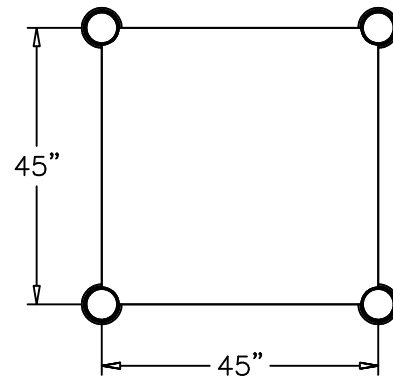
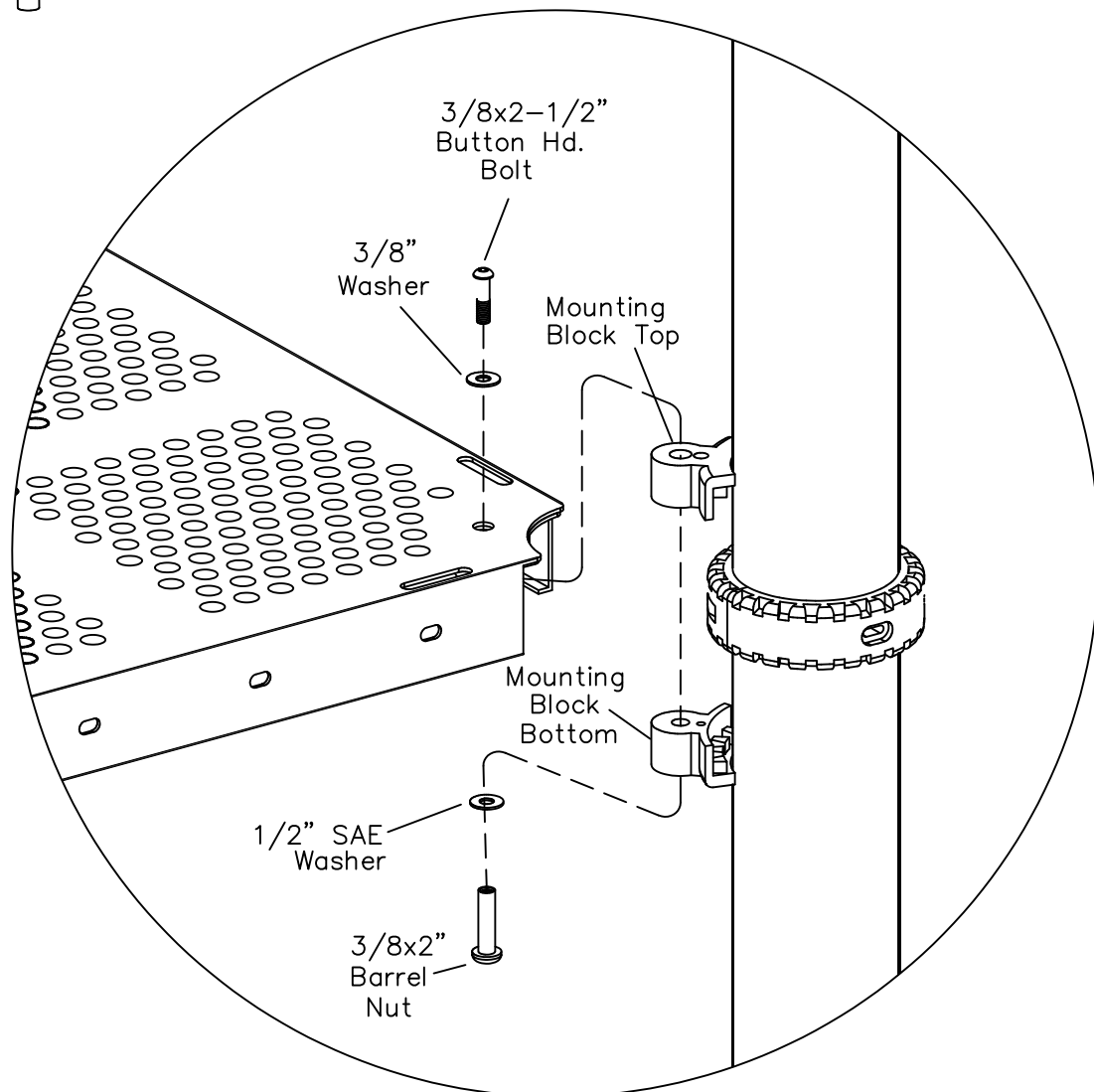


Figure 1



Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	R5 Deck 1	7008
4	Mounting Block Top	7006-T
4	Mounting Block Bottom	7006-B
4	3/8 x 2-1/2" Button Hd. Bolts	9103112-TR
4	3/8 x 2" Barrel Nuts	9443092-TR
4	3/8" Washers	9333002
4	1/2" SAE Washers	9345002

Specifications

R5 DECK 1:

Deck shall be constructed using 12 gauge sheet steel which shall be formed and fabricated into required designs. All steel decks and stepping surface shall be punched with a uniform hole pattern and be finished with slip-resistant PVC (poly-vinyl-chloride) coating.

MOUNTING BLOCKS:

Shall be two part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

Installation

Notes:

(A) All deck heights on your system's top view drawing are measured from the top of ground cover (finished grade). Post location dimensions are on centers.

(B) The collars are to be located 7/8" below the top of the deck (to the top of the collar). Refer to page R5-09 for Collar Assembly instructions.

(C) Never allow the gap between decks to be between 3-1/2" and 9". Deck fillers are provided for gaps between decks with 8" and 12" rise increments.

(D) Use liquid thread lock (such as Loctite) with all threaded hardware that does not include self-locking nuts.

Step 1.

Place Mounting Blocks on the support collars and lower Deck into place, aligning the holes with the Mounting Block holes.

Step 2.

Secure each corner of Deck to the support post's collars using hardware as shown in Figure 1 .

Step 3.

Square and level all support posts and deck assemblies. Check to ensure that all deck assemblies are at the specified heights above the ground cover level.

Step 4.

Fully tighten all fasteners.

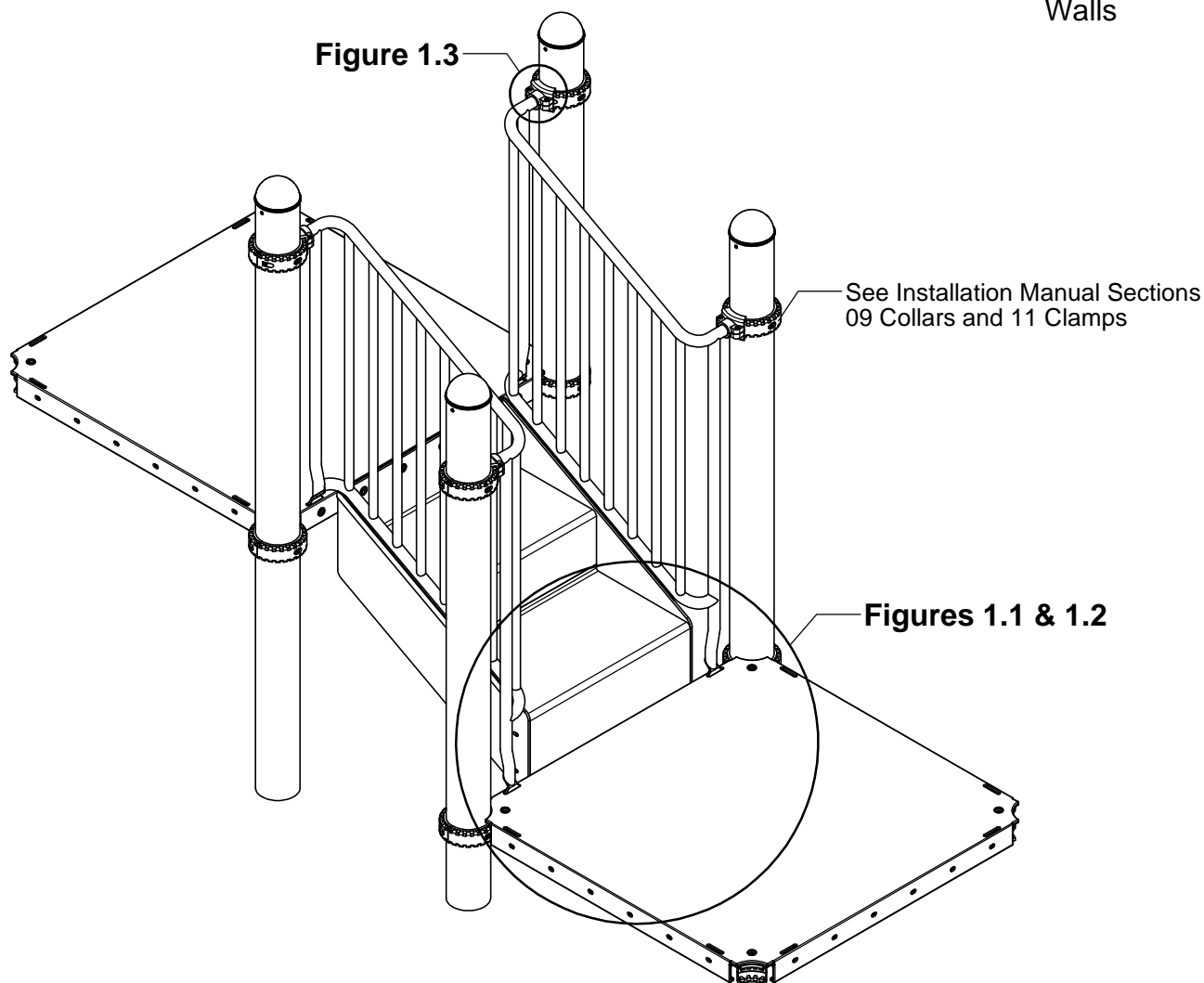
IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps installation instructions.

(C) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
24" ADA Steps w/
Walls



NOTE: R5 24" configuration shown.
Other configurations will vary slightly,
but does not affect the assembly.

Step 1

Attach ADA Steps to lower deck as shown in Figure 1.1.

Repeat for upper deck.
(See Note A)

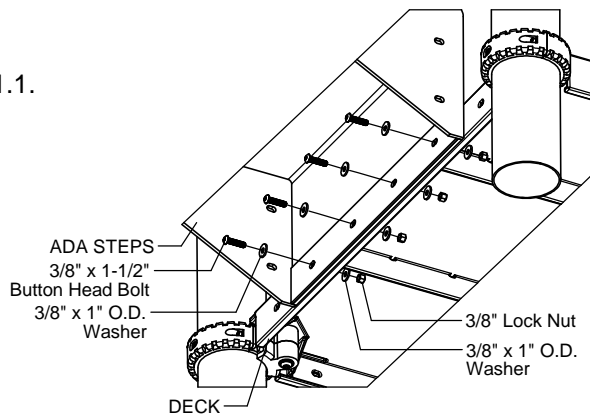


Figure 1.1

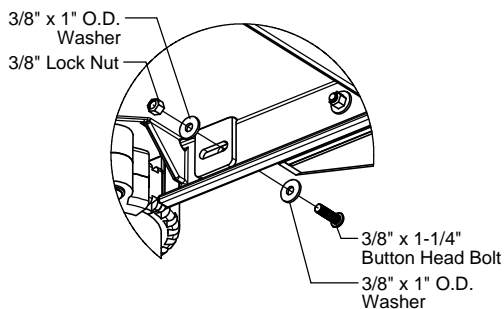


Figure 1.2

Step 3

Attach collars at height shown in Figure 2.
(See Note B)

* Height shown from top of deck to top of collar.

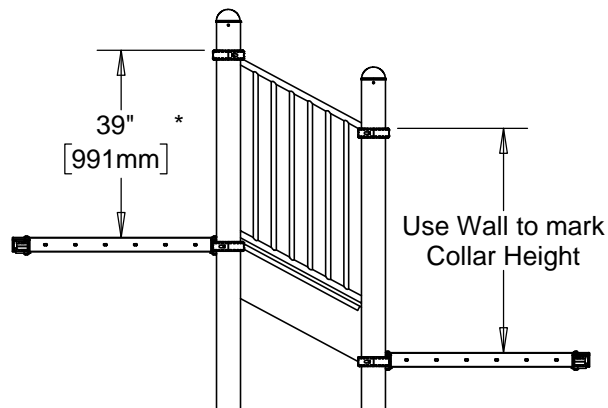


FIGURE 2

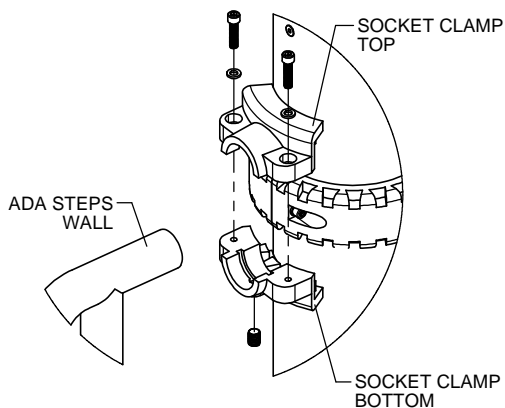


Figure 1.3

Step 4

Attach ADA Step Walls to collars as shown in Figure 1.3. (See Note B)

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Place appropriate compliant protective surfacing under and around ADA Steps.
(See Note C)

ADA STEPS w/ WALLS INSTALLATION INSTRUCTIONS

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Page 3 of 4

R5 Parts List

R5-1206-12 - 12" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4335	ADA Step 12-26	1
FS-1206-12R	ADA Steps 12-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-18 - 18" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4380	ADA Steps 18-26	1
FS-1206-18R	ADA Steps 18-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24 - 24" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4203	ADA Steps 24-26	1
FS-1206-24R	ADA Steps 24-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24R45 - ADA Steps w/ Walls 24"H x 45"L R5

Part #	DESCRIPTION	QTY.
CE-4911	ADA Steps 24-26-45 Run	1
FS-1206-24R45	ADA Steps 24-26-45 Wall Set	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24RCRV - 24" Curved Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CF-0848	Curved Steps 24" Rise R5	1
FS-1206-24CRVI	Curved Steps Inner Wall 24" Rise R5	1
FS-1206-24CRVO	Curved Steps Outer Wall 24" Rise R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-30 - 30" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4194	ADA Steps 30-26	1
FS-1206-30	ADA Steps 30-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-36 - 36" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4294	ADA Steps 36-26	1
FS-1206-36R	ADA Steps 36-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-42 - 42" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-0030	ADA Steps 42-26	1
FS-1206-42R	ADA Steps 42-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-48 - 48" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4486	ADA Steps 48-26	1
FS-1206-48R	ADA Steps 48-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12



Manufactured by Krauss Craft, Inc.
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800.333.8519 (U.S.A.) or
541.955.9199 (International)

Rev K
8/12/2016

ADA STEPS w/ WALLS INSTALLATION INSTRUCTIONS

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Page 4 of 4

R3.5 Parts List

R3.5-1206-12 - 12" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4335	ADA Step 12-26	1
FS-1206-12R35	ADA Steps 12-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-18 - 18" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4380	ADA Steps 18-26	1
FS-1206-18R35	ADA Steps 18-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-24 - 24" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4203	ADA Steps 24-26	1
FS-1206-24R35	ADA Steps 24-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-30 - 30" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4194	ADA Steps 30-26	1
FS-1206-30R35	ADA Steps 30-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-36 - 36" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4294	ADA Steps 36-26	1
FS-1206-36R35	ADA Steps 36-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-42 - 42" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-0030	ADA Steps 42-26	1
FS-1206-42R35	ADA Steps 42-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-48 - 48" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4486	ADA Steps 48-26	1
FS-1206-48R35	ADA Steps 48-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

Specifications

ADA STEPS:

Shall be made using punched, formed, and welded 12 gauge sheet steel with reinforcing cross members and gussets. The ADA Steps shall be Play-Tuff™ coated after fabrication.

ADA STEP WALLS:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.029" O.D. 14 gauge steel rungs and 1/4" thick steel brackets. The ADA Step Walls shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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541.955.9199 (International)

Rev K
8/12/2016

IMPORTANT NOTES: Read First

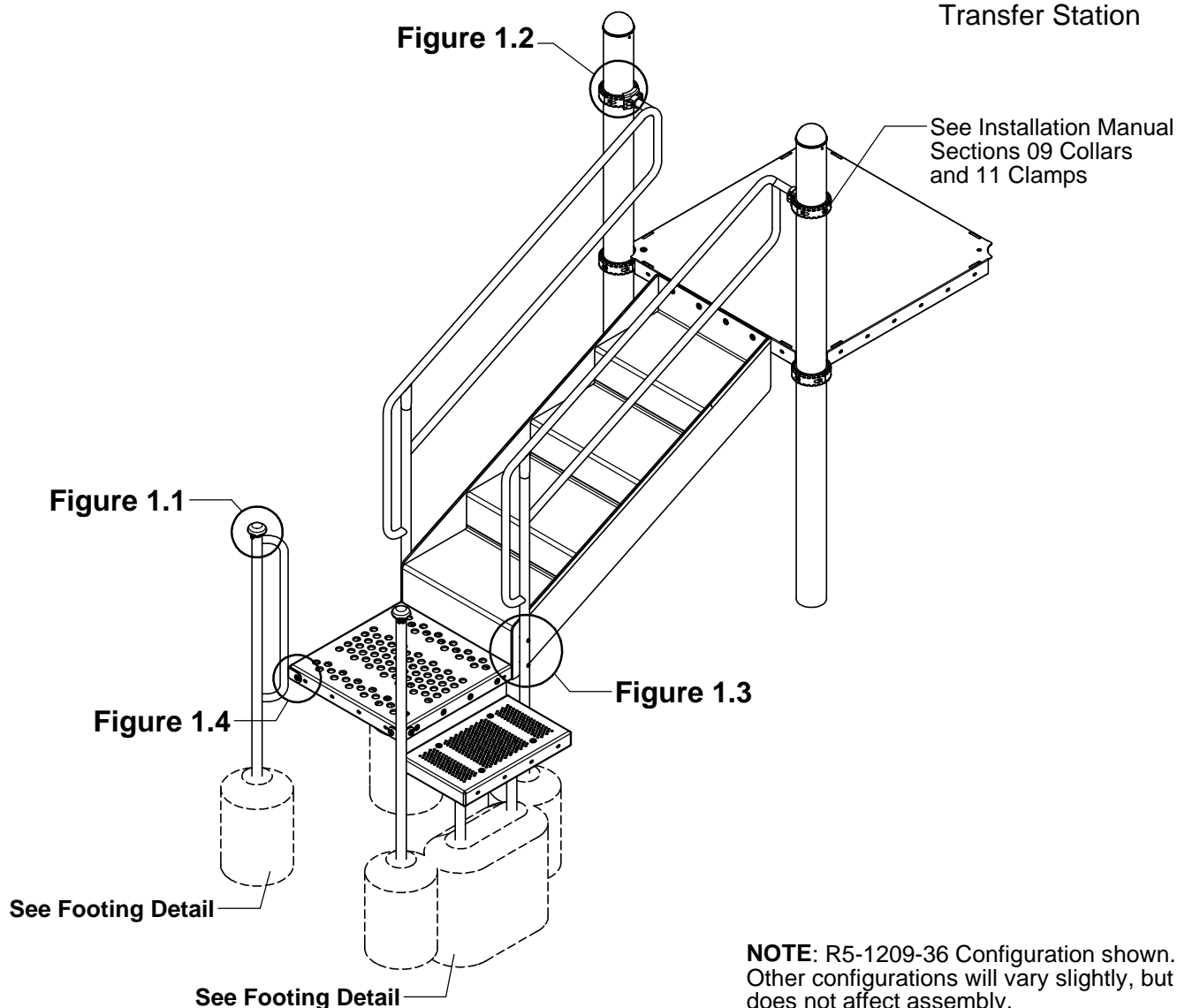
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 09 Collars and 11 Socket Clamps installation instructions.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Transfer Station



NOTE: R5-1209-36 Configuration shown. Other configurations will vary slightly, but does not affect assembly.



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Step 1

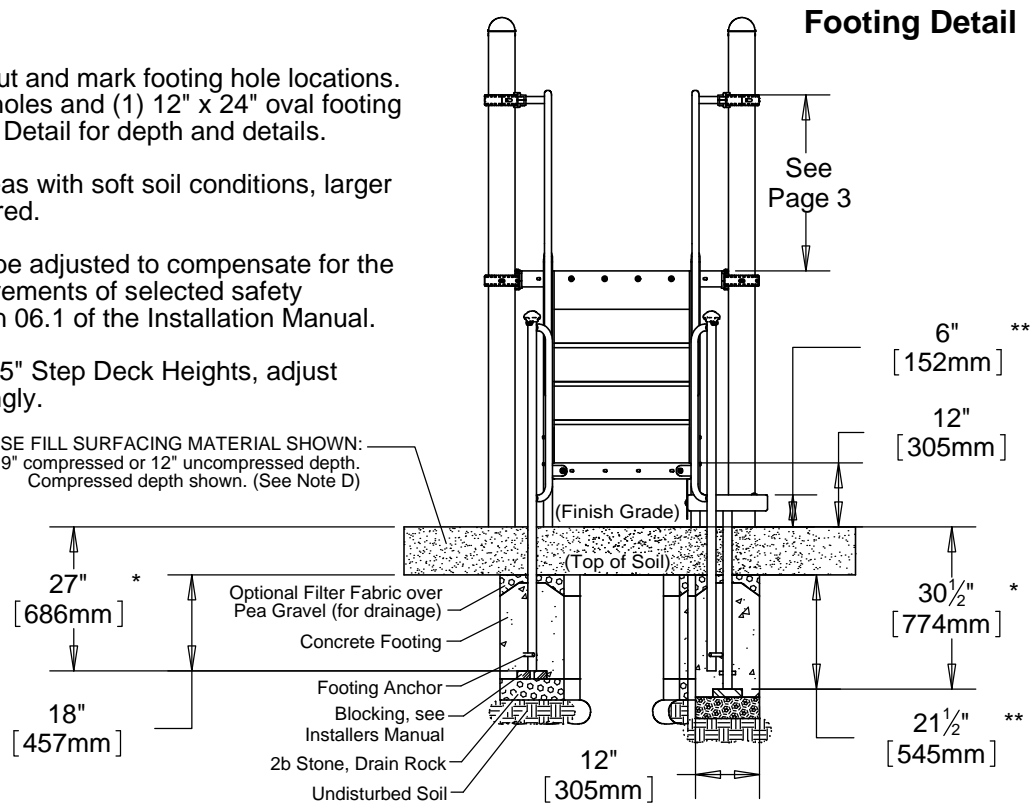
Refer to Footing Layout and mark footing hole locations. Dig (4) Ø 12" footing holes and (1) 12" x 24" oval footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

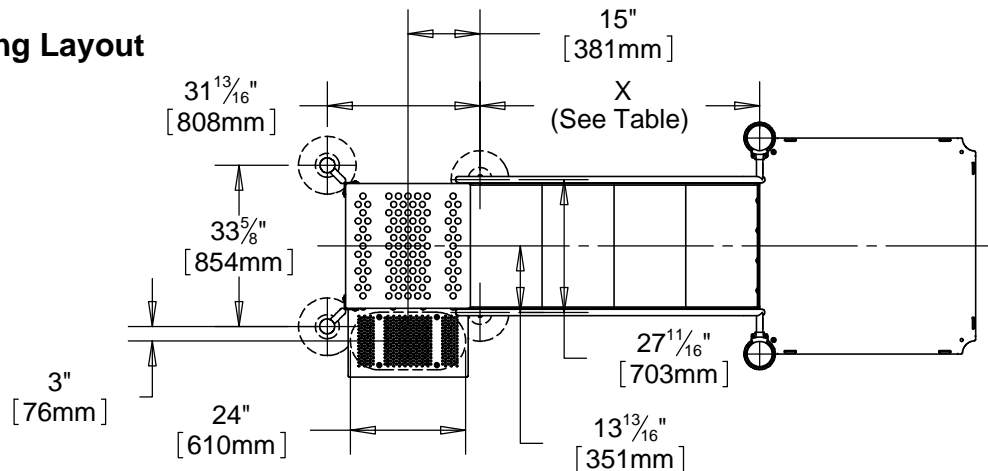
* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** For optional 4" and 5" Step Deck Heights, adjust footing depth accordingly.

LOOSE FILL SURFACING MATERIAL SHOWN:
9" compressed or 12" uncompressed depth.
Compressed depth shown. (See Note D)



Top View - Footing Layout



Footing Distance Table
Center of Post to Center of Footing

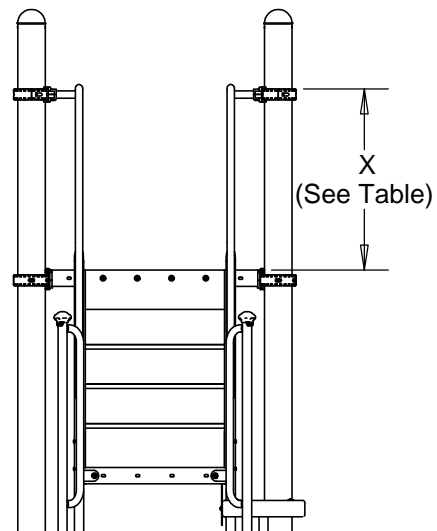
Deck Height	Assembly	X (in.)	X (mm)
24"	Transfer Station 12-24	13-1/4"	337
36"	Transfer Station 12-36	28-1/4"	717
42"	Transfer Station 12-42	43"	1092
48"	Transfer Station 12-48	58-1/4"	1480
60"	Transfer Station 12-60	73-1/4"	1861
72"	Transfer Station 12-72	103-1/4"	2623

Step 2

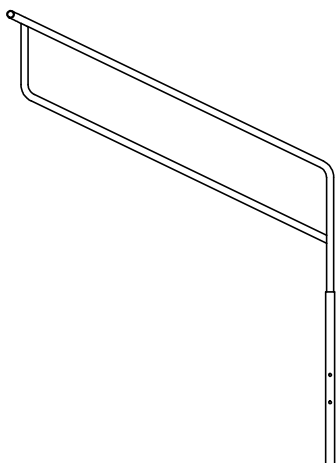
Locate and attach collars to posts at height shown in Figure 2. (See Note C)

NOTE: Collar height varies based on Transfer Station Hand Rail Type.

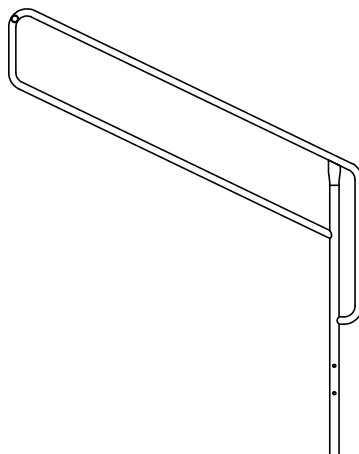
FIGURE 2
Transfer Station Hand Rail Identification
and Collar Height



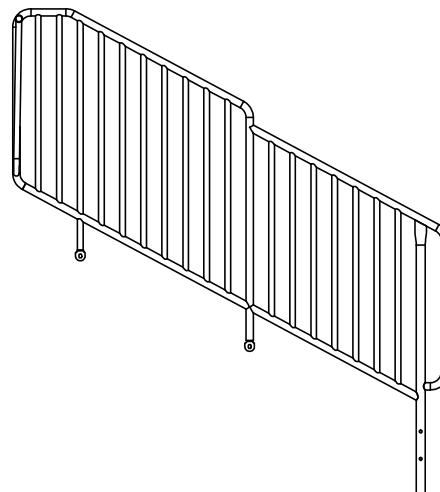
**RAIL
TYPE 1**



**RAIL
TYPE 2**



**RAIL
TYPE 3**



Collar Height Table Top of Deck to Top of Collar		
Hand Rail	X (in.)	X (mm)
TYPE 1	35-1/2"	902
TYPE 2 & 3	33"	838

Step 3 (Factory Assembled)

Attach Transfer Leg Top to Transfer Deck Support as shown in Figure 1.1. (See Note A)

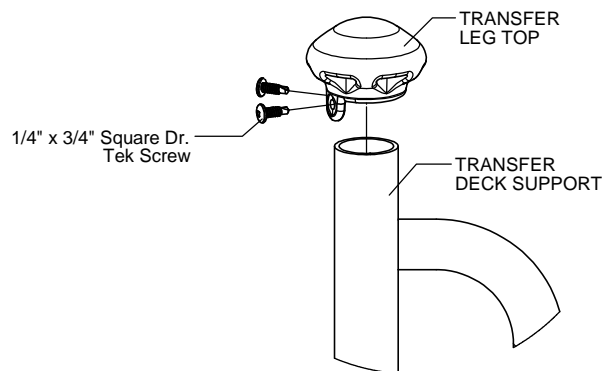


Figure 1.1

Step 4

Place Transfer Rails into footing holes and attach to collars as shown in Figure 1.2. (See Note C)

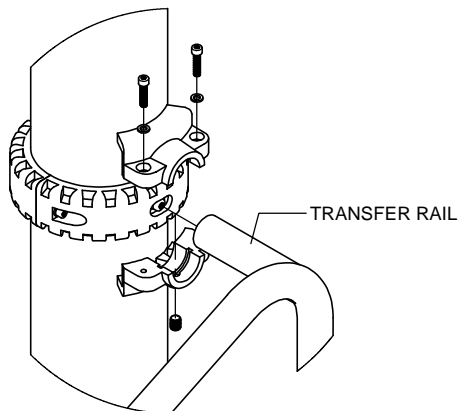


Figure 1.2

Step 5

Attach ADA Steps to Transfer Rails as shown in Figure 1.3. (See Note A)

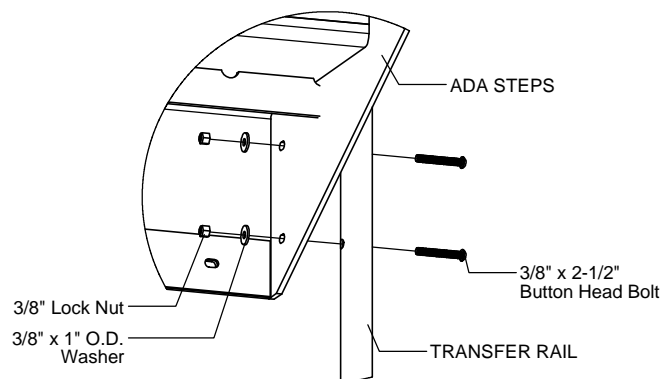


Figure 1.3

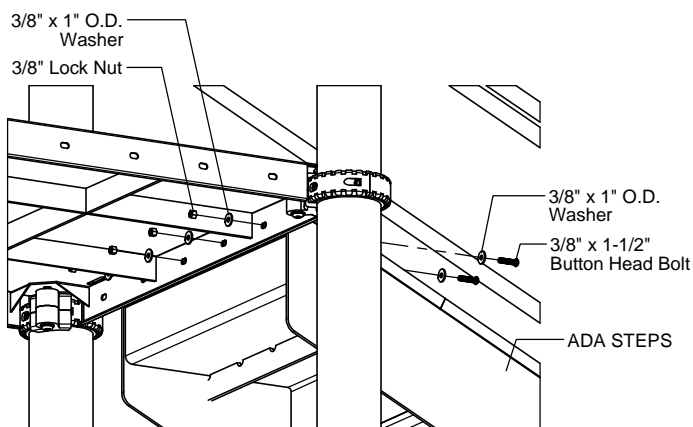


FIGURE 3

Step 6

Attach ADA Steps to deck as shown in Figure 3. (See Note A)

Step 7

For Transfer Station to 60" & 72" Decks Only

Attach Transfer Rail to ADA Steps
as shown in Figure 4. (See Note A)

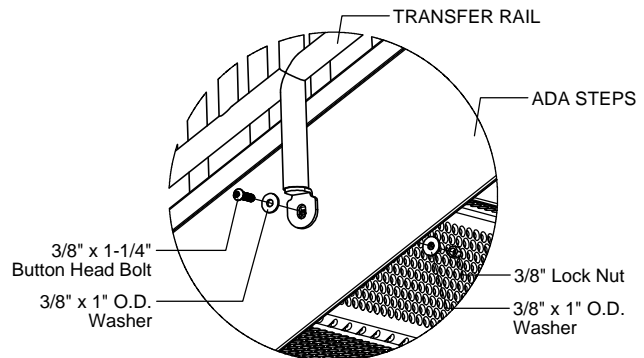


FIGURE 4

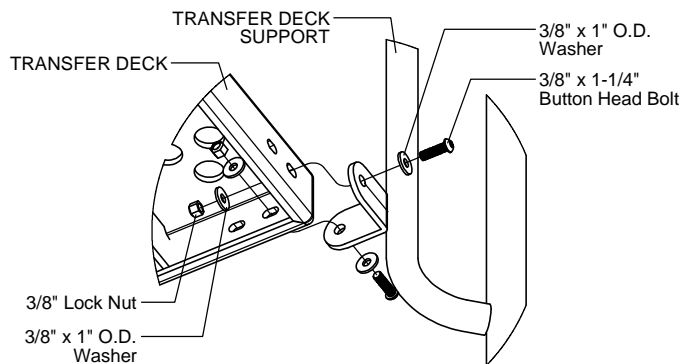


Figure 1.4

Step 9

Place Transfer Deck Supports into footing holes
and attach Transfer Deck to ADA Steps
in Figure 5. (See Note A)

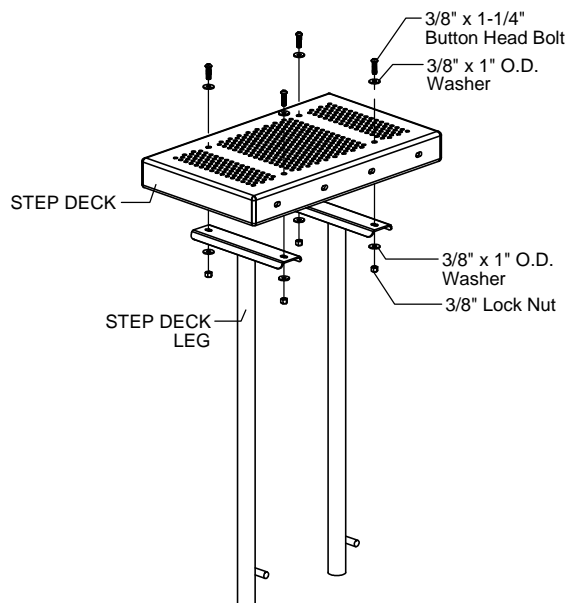


FIGURE 6

Step 8

Attach Transfer Deck Supports to Transfer Deck
as shown in Figure 1.4. (See Note A)

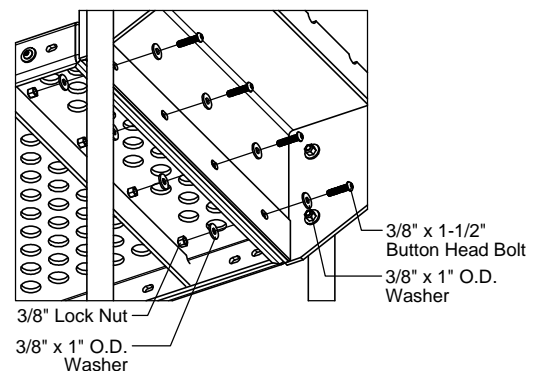


FIGURE 5

Step 10

Attach Step Deck Legs to Step Deck as shown
in Figure 6. (See Note A)

Step 11

Place Step Deck Legs into footing holes and attach Filler to Transfer Deck and Step Deck as shown in Figure 7. (See Note A)

Step 12

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 13

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 14

Place required protective surfacing under and around Transfer Station. (See Note D)

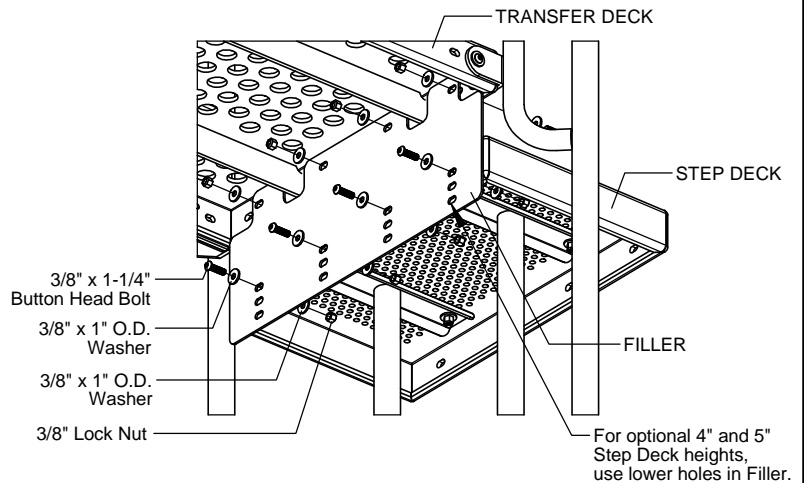


FIGURE 7

Specifications

STEP DECK LEG:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 10 gauge steel mounting bracket. The Step Deck Leg shall have a multi-stage baked-on powder coat finish.

STEP RAILS:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.660" O.D. 11 gauge steel leg. The Step Rails shall have a multi-stage baked-on powder coat finish.

TRANSFER STATION WALL:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.660" O.D. 11 gauge steel leg and 1.029" O.D. 14 gauge steel rungs. The Transfer Station Wall shall have a multi-stage baked-on powder coat finish.

STEPS & DECKS:

Shall be fabricated using punched, formed and welded 14 gauge sheet steel. Steps and Decks shall be Play-Tuff™ coated after fabrication.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

TRANSFER STATION INSTALLATION INSTRUCTIONS

1209
Page 7 of 7

Parts List

S-1209-12 - Transfer Station 12-24		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4335	ADA Step 12-26	1
FS-1202	Step Deck Leg	2
FS-1209-12	Transfer Station H Rail 24	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-36 - Transfer Station 12-48		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4294	ADA Steps 36-26	1
FS-1202	Step Deck Leg	2
FS-1209-36R	Transfer Station H. Rail 48	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-24 - Transfer Station 12-36		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4203	ADA Steps 24-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-24R	Transfer Station H. Rail 36	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-48 - Transfer Station 12-60		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4486	ADA Steps 48-26	1
FS-1202	Step Deck Leg	2
FS-1209-48	Transfer Station Wall 60	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	20
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	60
9413002	Nut Lock 3/8"	32

S-1209-30 - Transfer Station 12-42		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4194	ADA Steps 30-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-30R	Transfer Station H. Rail 42	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-60 - Transfer Station 12-72		
Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-0166	ADA Steps 60-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-60	Transfer Station Wall 72	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	20
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	60
9413002	Nut Lock 3/8"	32

Assembled Parts List

Part #	DESCRIPTION	QTY.
FS-1209A	Transfer Deck Support	2
GE-4636	Transfer Leg Top	2
9271032	Screw Tek 1/4" x 3/4" PH SQDR	4

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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Rev Q
4/12/2012

IMPORTANT NOTES: Read First

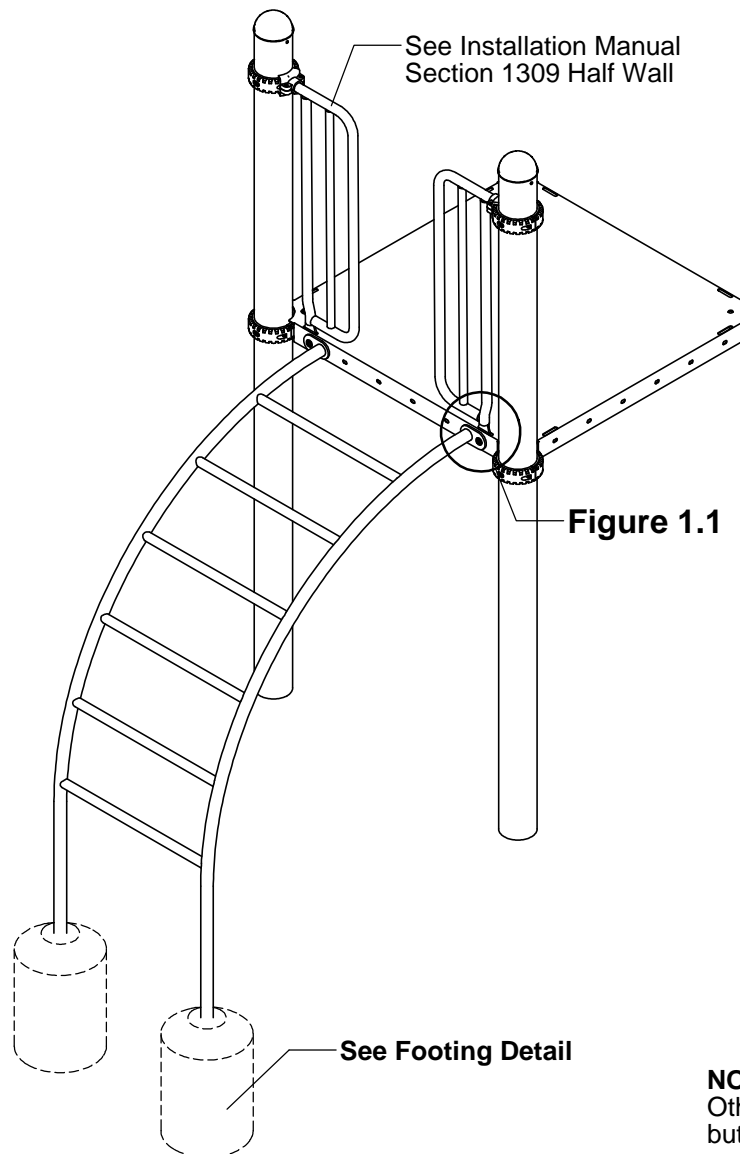
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual 1309 Half Wall assembly instructions.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Arch Climber



NOTE: R5 5' deck height shown.
Other configurations will vary slightly
but does not affect assembly.

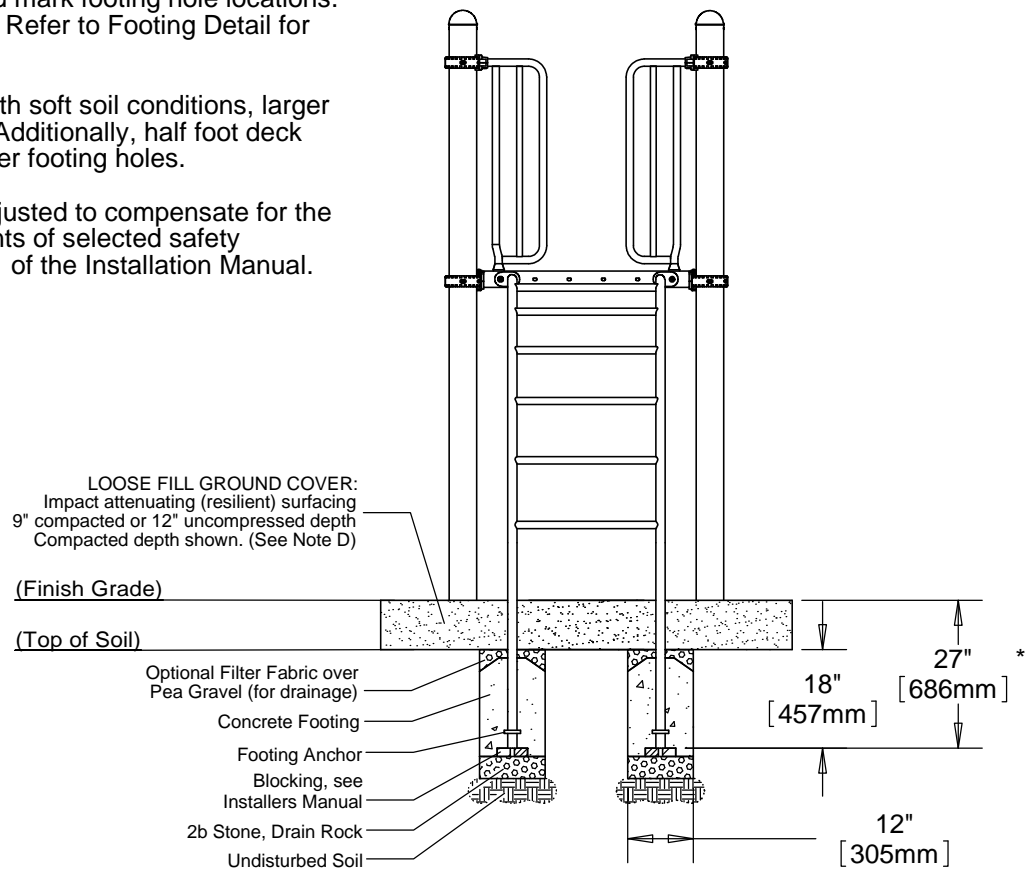
Step 1

Refer to Footing Layout and mark footing hole locations. Dig (2) Ø 12" footing holes. Refer to Footing Detail for depth and details.

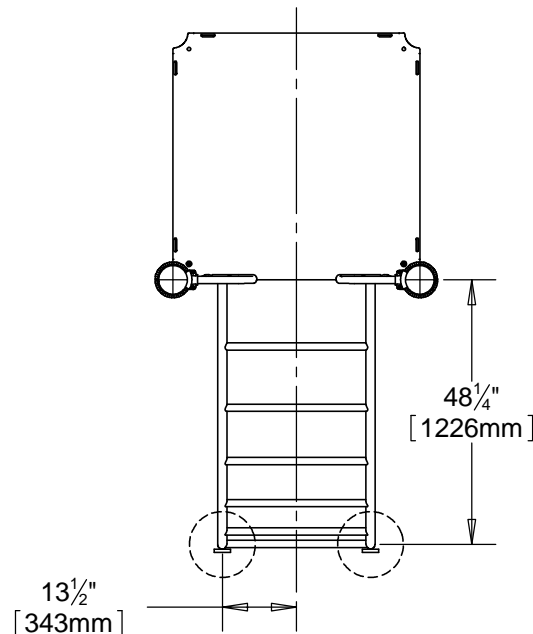
IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, half foot deck heights will require 6" deeper footing holes.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

Footing Detail



Top View - Footing Layout



Step 2

Attach Half Walls to deck. Place Arch Climber into footing holes and attach to deck as shown in Figure 1.1. (See Notes A & C)

NOTE: Use (2) 3/8" x 1-1/2" Button Head Bolts included with Arch Climber assembly.

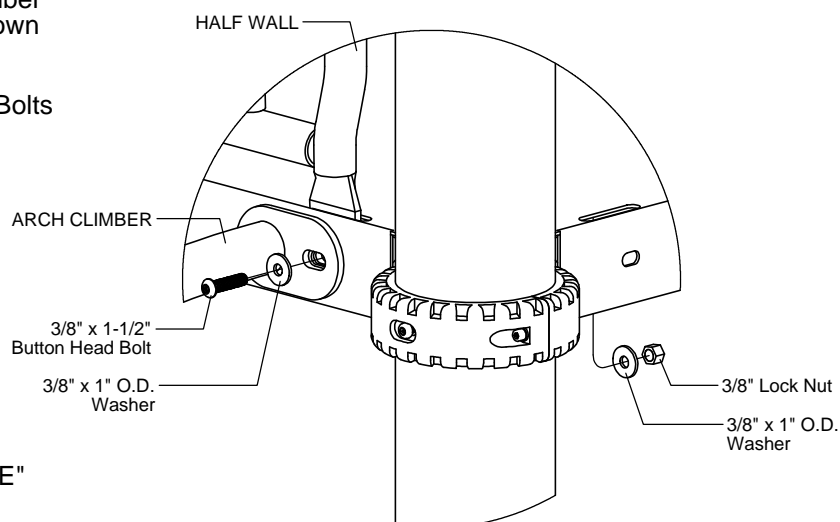


Figure 1.1

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 4

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 5

Place appropriate compliant protective surfacing under and around Arch Climber. (See Note D)

Specifications

ARCH CLIMBER:

Shall be fabricated from 1.660" O.D. 11 gauge steel tubing outer rails welded to 1/4" thick steel plates and 1.315" O.D. 12 gauge steel tubing rungs. The Arch Climber shall have a multi-stage baked on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

Part #	DESCRIPTION	QTY
Varies	Arch Climber	1
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

IMPORTANT NOTES: Read First

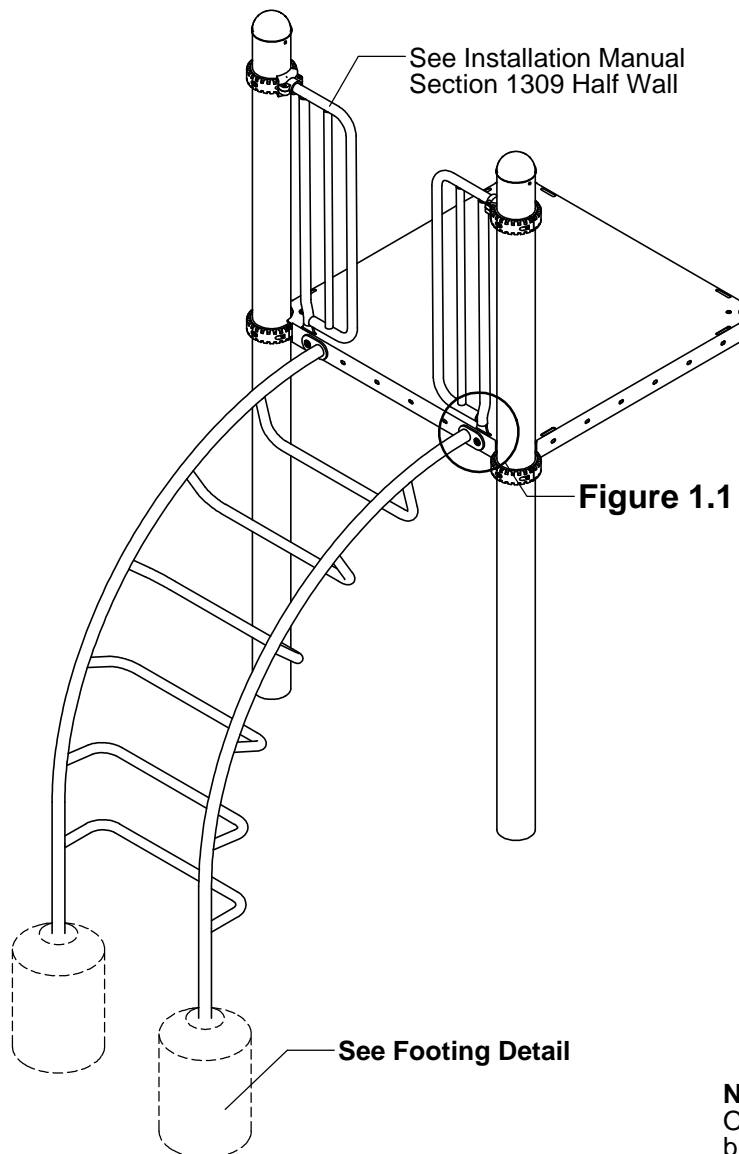
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual 1309 Half Wall assembly instructions.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Deep Rung Arch Climber



NOTE: R5 5' deck height shown.
Other configurations will vary slightly
but does not affect assembly.

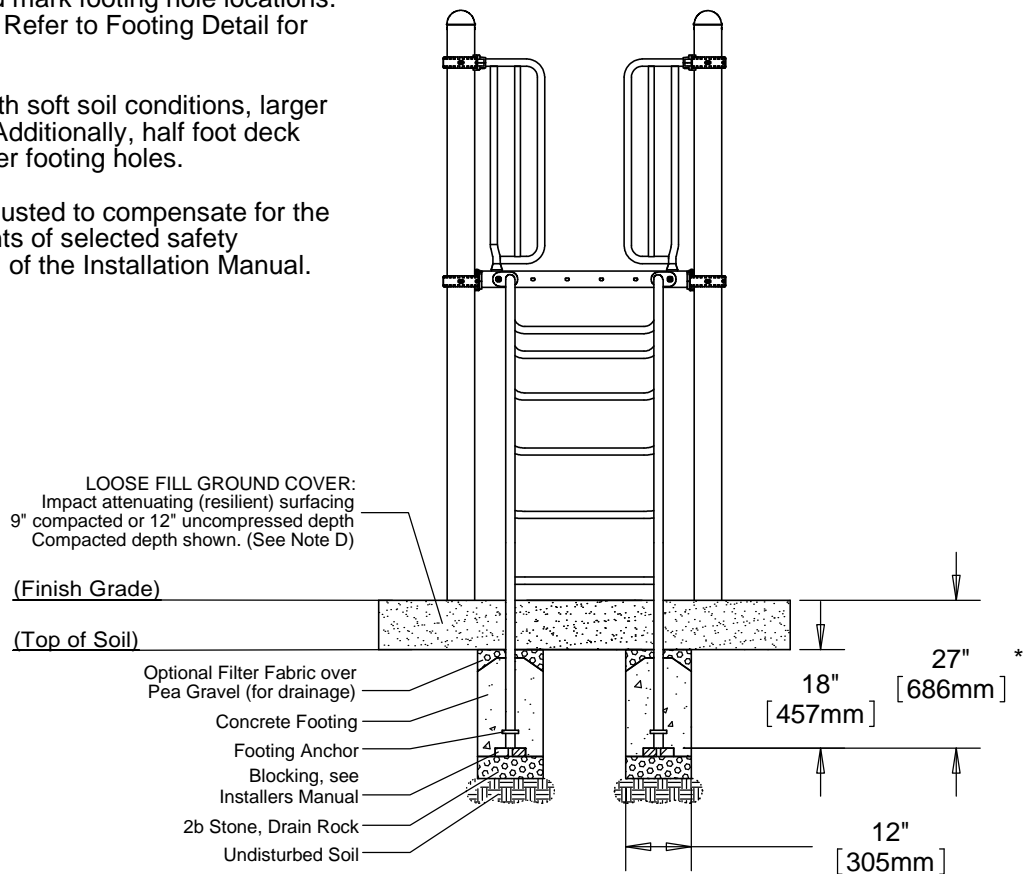
Step 1

Refer to Footing Layout and mark footing hole locations. Dig (2) Ø 12" footing holes. Refer to Footing Detail for depth and details.

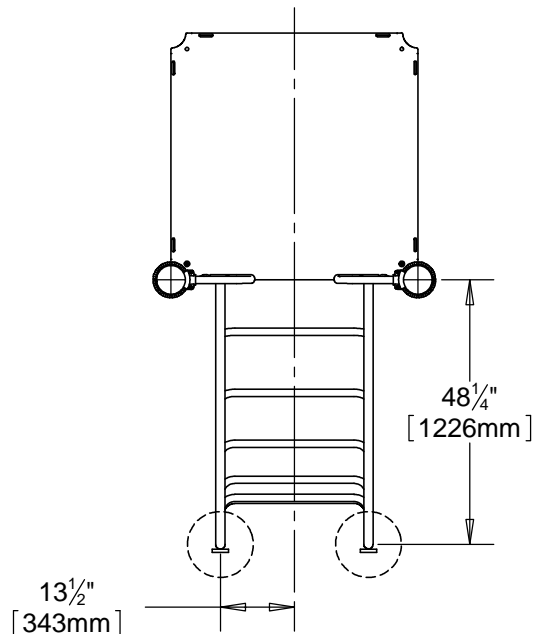
IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, half foot deck heights will require 6" deeper footing holes.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

Footing Detail



Top View - Footing Layout



Step 2

Attach Half Walls to deck. Place Deep Rung Arch Climber into footing holes and attach to deck as shown in Figure 1.1. (See Notes A & C)

NOTE: Use (2) 3/8" x 1-1/2" Button Head Bolts included with Deep Rung Arch Climber assembly.

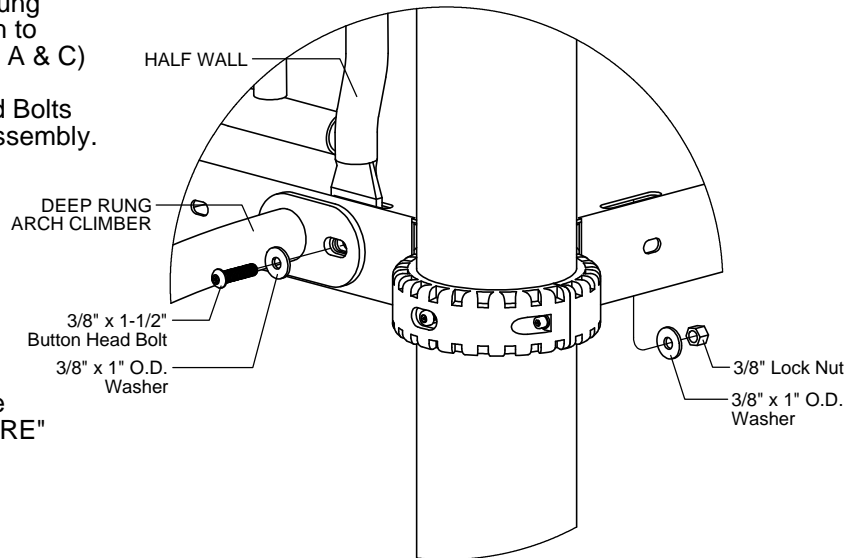


Figure 1.1

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 4

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 5

Place appropriate compliant protective surfacing under and around Deep Rung Arch Climber. (See Note D)

Specifications

DEEP RUNG ARCH CLIMBER:

Shall be fabricated from 1.660" O.D. 11 gauge steel tubing outer rails welded to 1/4" thick steel plates and 1.315" O.D. 12 gauge steel tubing rungs. The Deep Rung Arch Climber shall have a multi-stage baked on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

Part #	DESCRIPTION	QTY
Varies	Deep Rung Arch Climber	1
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

IMPORTANT NOTES: Read First

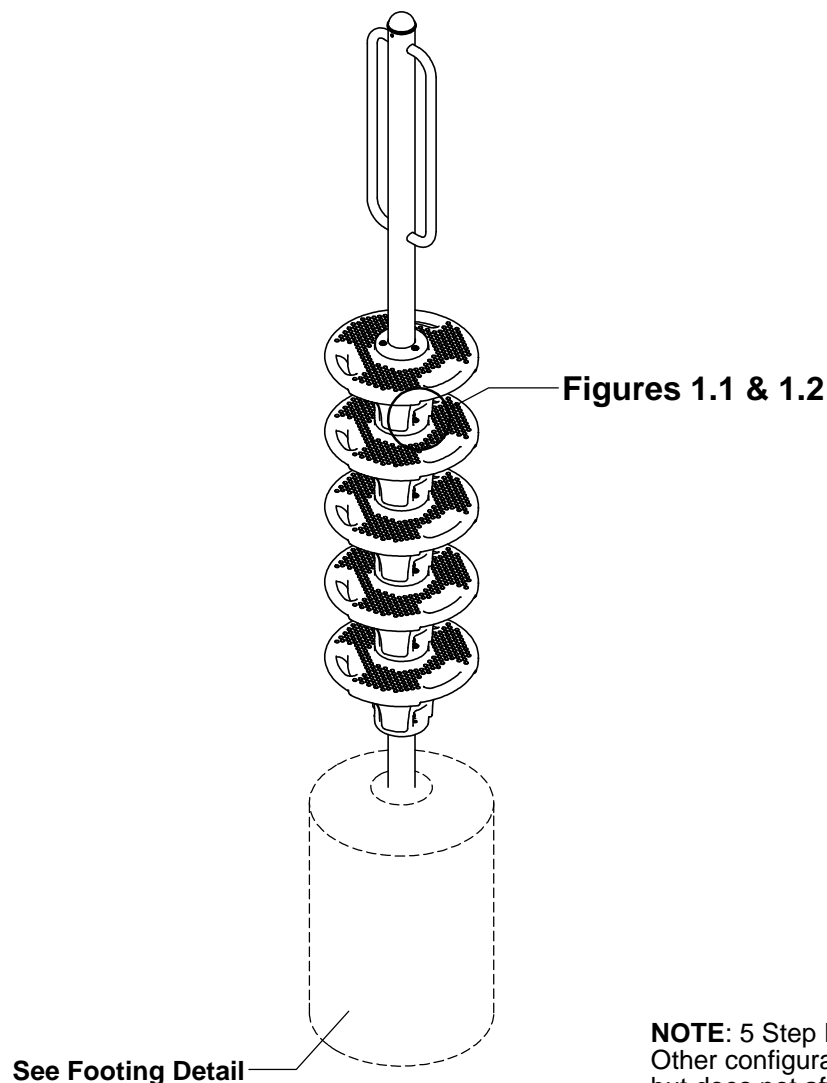
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) The maximum distance from center of post footing to center of deck face is 21" [533 mm] or 34" [864 mm] between center of post footings. Additionally, all handles must point towards each other or towards a conjunctive deck.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Disc Climber



NOTE: 5 Step Disc Climber shown.
Other configurations will vary slightly,
but does not affect assembly.

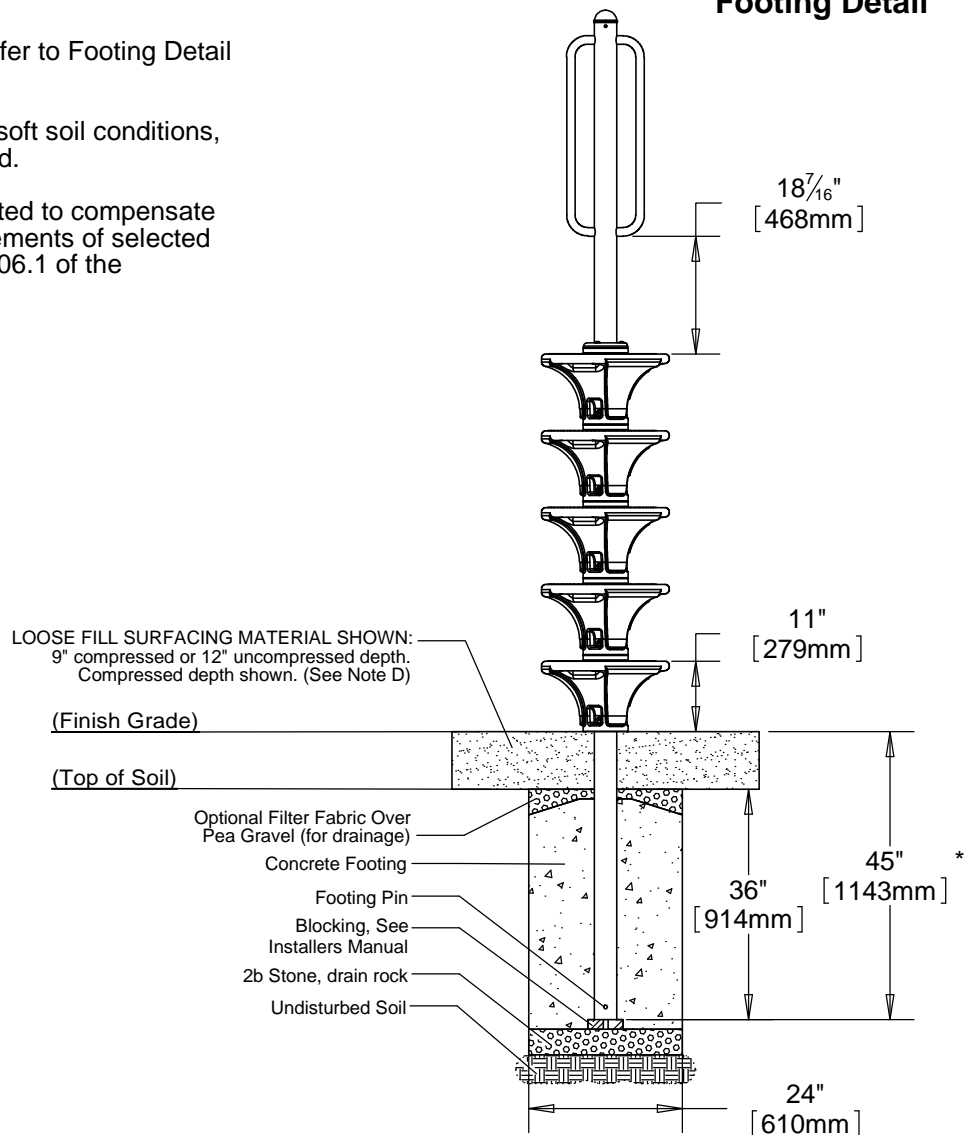
Step 1

Dig (1) Ø 24" footing hole. Refer to Footing Detail for depth and details.

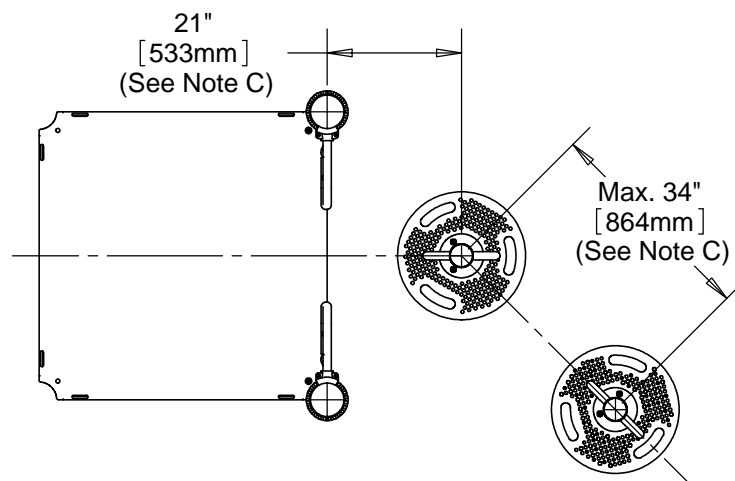
IMPORTANT: For areas with soft soil conditions, larger footings may be required.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

Footing Detail



Top View Footing Layout Requirements



Step 2 (Factory Assembled)

Attach Dome Post Cap to Disc Climber Post as shown in Figure 2.

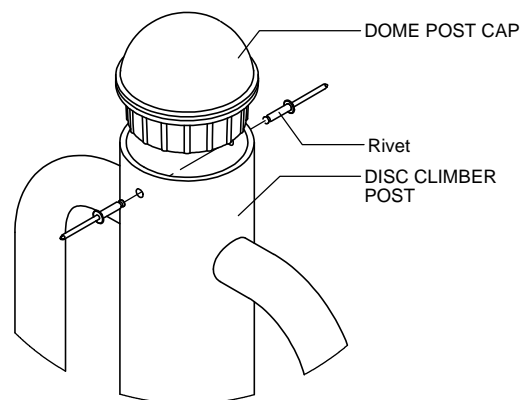


FIGURE 2

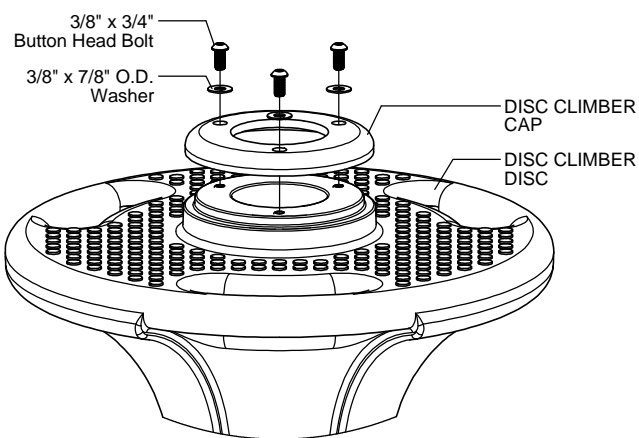


FIGURE 3

Step 3 (Factory Assembled)

Attach Disc Climber Cap to top Disc Climber Disc as shown in Figure 3. (See Note A)

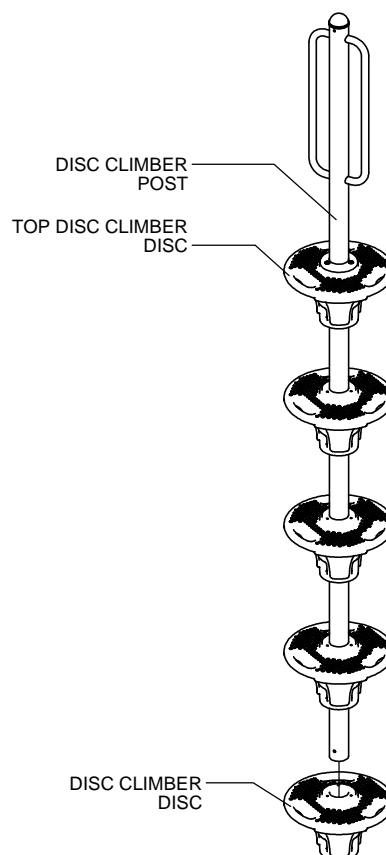


FIGURE 4

Step 4 (Factory Assembled)

Starting with the top Disc Climber, slide Discs onto Disc Climber Post as shown in Figure 4.

Step 5 (Factory Assembled)

FOR EACH ADDITIONAL DISC

Attach Disc Climber Disc to Disc Climber Disc as shown in Figure 1.1. (See Note A)

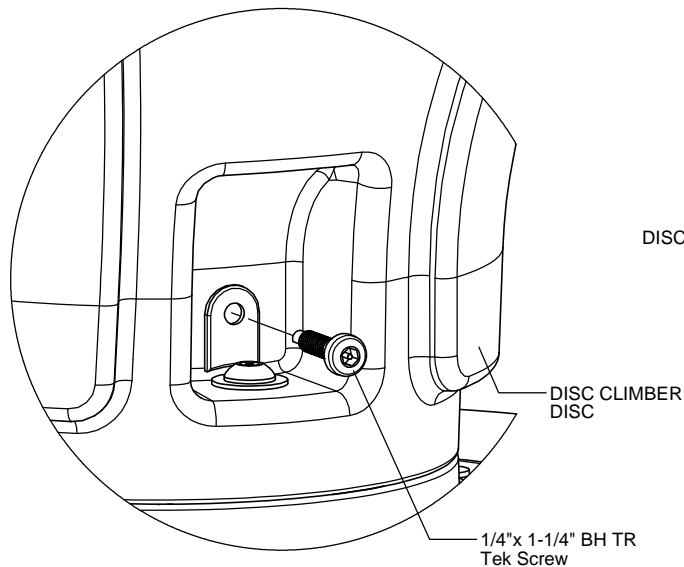


Figure 1.2

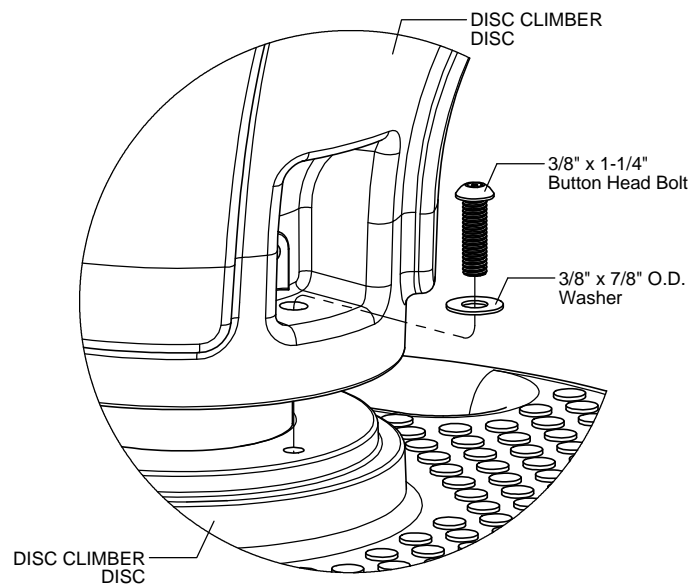


Figure 1.1

Step 6 (Factory Assembled)

Refer to Top View for orientation of handles to top Disc Climber Disc and position as shown in Footing Detail. Secure Disc Climber Disc(s) to Disc Climber Post as shown in Figure 1.2.

Step 7

Install Anchor Pin to Disc Climber Post and place into footing hole as shown in Figure 5. (See Notes A, B, & C)

Step 8

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 9

Plumb and level entire component. Pour concrete into footing hole. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 10

Place required protective surfacing under and around Disc Climber. (See Note D)

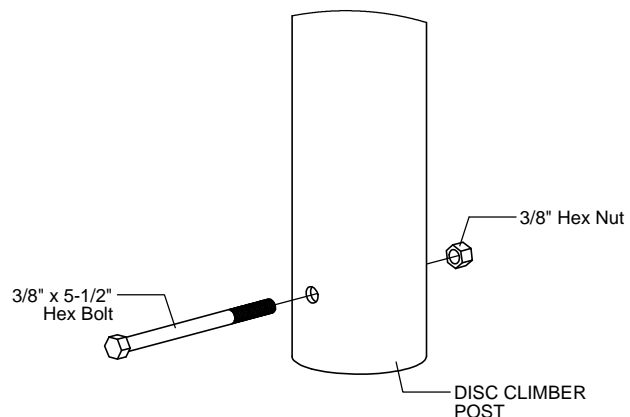


FIGURE 5

DISC CLIMBER INSTALLATION INSTRUCTIONS

1233
Page 5 of 5

Assembled Parts List

1 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	1
EG-4442	Disc Climber Cap	1
FS-1233-1	Disc Climber Post 12"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	3
9333042	Washer Flat 3/8" x 7/8" O.D.	3
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

2 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	2
EG-4442	Disc Climber Cap	1
FS-1233-2	Disc Climber Post 24"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	3
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	6
9333042	Washer Flat 3/8" x 7/8" O.D.	6
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

3 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	3
EG-4442	Disc Climber Cap	1
FS-1233-3	Disc Climber Post 36"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	9
9333042	Washer Flat 3/8" x 7/8" O.D.	9
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

4 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	4
EG-4442	Disc Climber Cap	1
FS-1233-4	Disc Climber Post 48"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	9
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	12
9333042	Washer Flat 3/8" x 7/8" O.D.	12
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

5 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	5
EG-4442	Disc Climber Cap	1
FS-1233-5	Disc Climber Post 60"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	15
9333042	Washer Flat 3/8" x 7/8" O.D.	15
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

6 DISC ASSEMBLY		
Part #	DESCRIPTION	QTY
DE-4373	Disc Climber Disc	6
EG-4442	Disc Climber Cap	1
FS-1233-6	Disc Climber Post 72"	1
GG-8135	Post Cap R3.5 Dome	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	15
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	18
9333042	Washer Flat 3/8" x 7/8" O.D.	18
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2

Parts List

Part #	DESCRIPTION	QTY
9123231	Bolt Hex 3/8" x 5-1/2"	1
9483602	Nut Hex 3/8"	1

Specifications

DISC CLIMBER CAP:

Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV protection and color retention.

DISC CLIMBER DISC:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

DISC CLIMBER POST:

Shall be fabricated using 3.5" O.D. 8 gauge steel tubing with welded 1.315" O.D. 12 gauge steel handles. The Disc Climber Post shall have a multi-stage baked-on powder coat finish.

POST CAP R3.5 DOME:

Shall be precision die cast from a high-strength aluminum alloy. The Post Cap R3.5 Dome shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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Rev B
11/13/2014

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

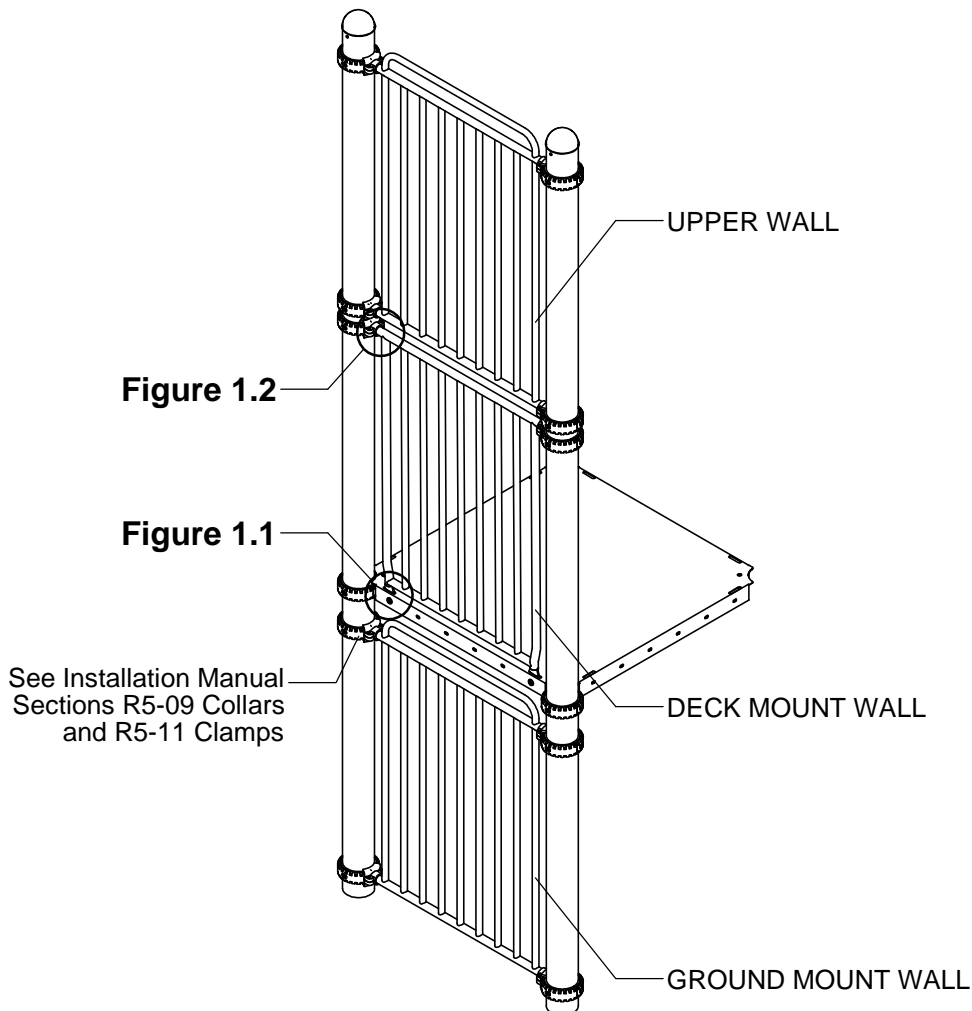
(B) Refer to Installation Manual for R5-09 Collars and R5-11 Socket Clamps assembly instructions.

(C) All gaps created (e.g. between walls, between wall and deck, between wall and roof, etc.) must be less than 3-1/2" [89mm] or greater than 9" [229mm].

(D) Collar heights will vary with different walls. Use wall to locate collar heights.

(E) These instructions apply for all configurations of R5 Walls, Short Walls, and Upper Walls.

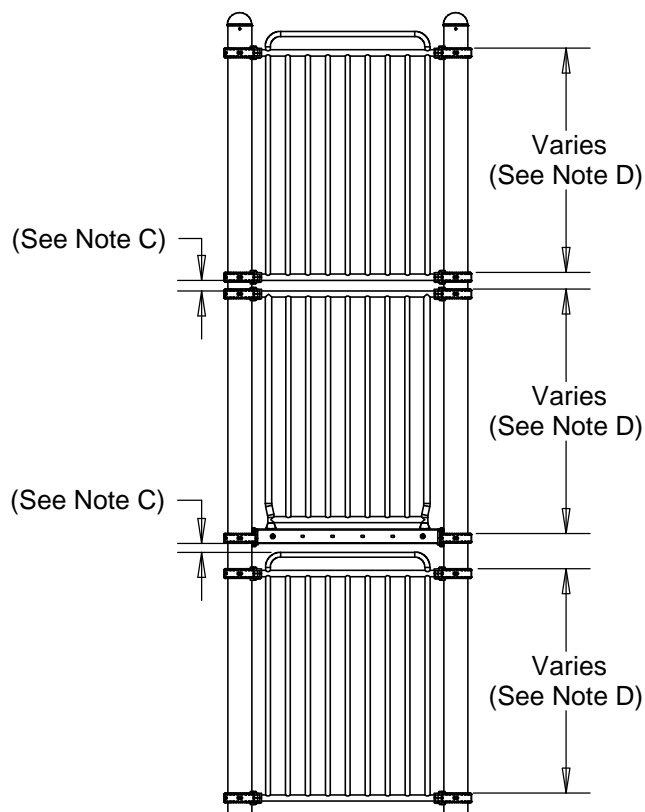
FIGURE 1
Steel Bar Wall Assembly



Step 1

Use the Wall to locate and attach collars.
Refer to Elevation View for notes.

ELEVATION VIEW



Step 2 (For Deck Mount Only)

Attach Wall to Deck as shown in Figure 1.1.
(See Note A)

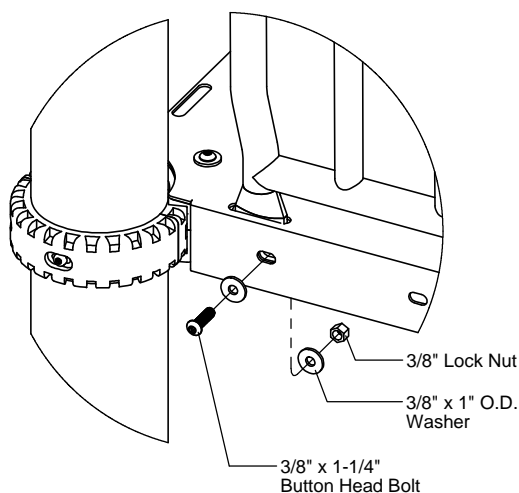


Figure 1.1

Step 3

Attach Wall to collars as shown in Figure 1.2.
(See Note B)

Step 4

Fully tighten all fasteners according to the
"TIGHTENING TORQUE FOR HARDWARE"
section of the Installation Manual.

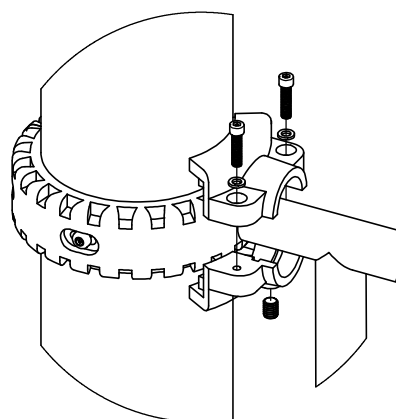


Figure 1.2

Specifications

R5 STEEL BAR WALL:

Shall be fabricated by welding 1.029" O.D. 14 gauge steel vertical rails between 1.315" O.D. 12 gauge steel horizontal rails. Ground and Upper walls will have a 1.029" O.D. 14 gauge top rail. The R5 Steel Bar Wall will have a multi-stage baked-on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

DECK MOUNT		
Part #	DESCRIPTION	QTY
HS-1001-R5	Socket Clamp Set R5	2
Varies	R5 Steel Bar Wall	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

GROUND / UPPER MOUNT		
Part #	DESCRIPTION	QTY
HS-1001-R5	Socket Clamp Set R5	4
Varies	R5 Steel Bar Wall	1

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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Rev K
4/12/2010

IMPORTANT NOTES: Read First

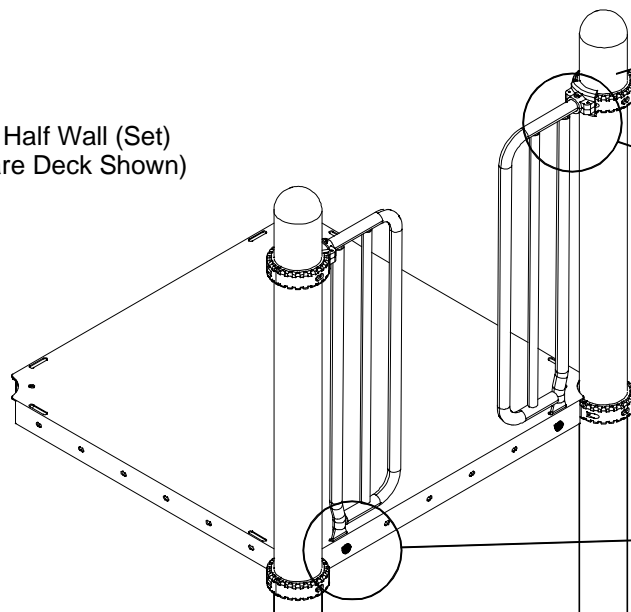
(A) Use liquid thread lock (such as Loctite[®]) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars and R5-11 Socket Clamps.

(C) Collar Locations: The Collar is to be placed 39" from top of the collar to top of the deck.

Assembly Views

Standard Half Wall (Set)
and Square Deck Shown)

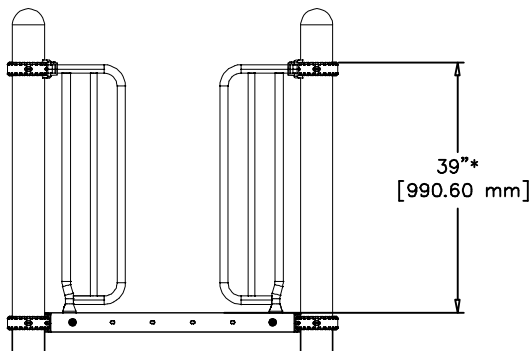


See Assembly Page
R5-09 Collars and
R5-11 Socket Clamps

See Figure 2
Half Wall to Socket
Clamp Connection

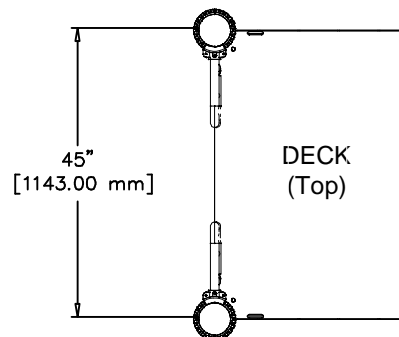
See Figure 1
Half Wall to Deck Connection

*Dimension
given is
from Top of
Deck to Top
of Collar.



Elevation

Front View



Footing Layout

Top View



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Rev G

Figure 1

Half Wall to Deck
Connection

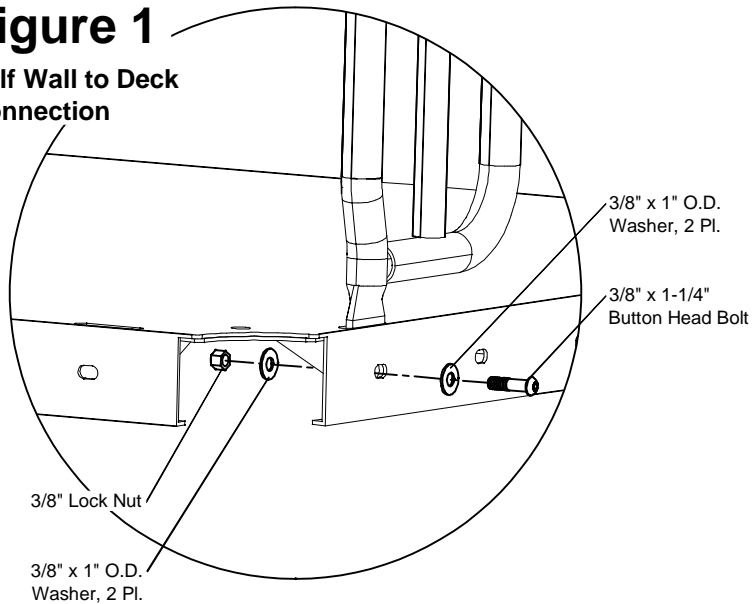
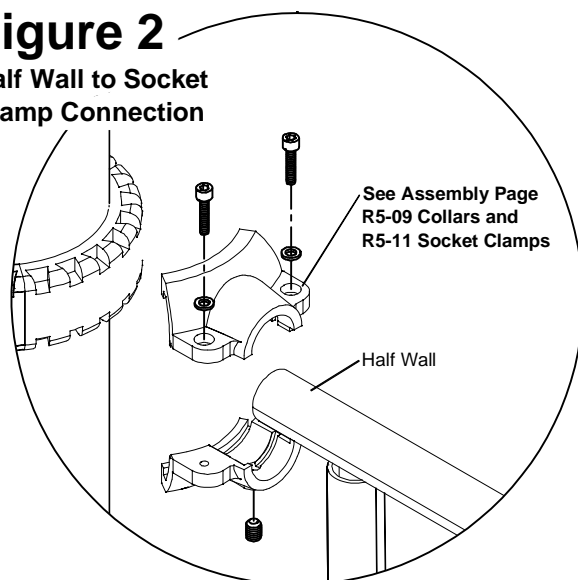


Figure 2

Half Wall to Socket
Clamp Connection



Parts List

(1) Half Wall (Handle)

PART #	DESCRIPTION	QTY.
-VARIES-	Half Wall	1
See Pg. R5-11	Socket Clamp Assembly	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	1
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9413002	Nut Lock 3/8"	1

Half Wall Options

PART #	DESCRIPTION
FS-1309-R	Half Wall R5
FS-1309-R-TRNFR	Half Wall Transfer R5
FS-1309-RADA	Half Wall ADA Steps R5

Specifications

HALF WALL R5:

Shall be constructed of 1.315" O.D., 12 gauge steel tubing outer rails with 1.029" O.D., 14 gauge steel tubing welded vertically. The Half Wall may also have welded mounting tabs and/or plates. The Half Wall R5 has a multi-stage baked on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Installation

Step 1.

Locate and mark the position of the Collars on the Support Posts. Refer to Elevation View for Collar locations. See Note C. See also Assembly Page R5 - 09 Collars for hardware type and orientation.

Step 2.

Loosely attach the Half Wall to the Deck. Verify left or right hand location on Top View of structure prior to installation. Refer to Figure 1 for hardware type and orientation.

Step 3.

Loosely attach the Half Wall to the Post Collars using the Socket Clamps. Refer to Figure 2 for hardware type and orientation. See also Assembly Page R5-11 Socket Clamps for additional hardware details.

Step 4.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



Parts List

QTY.	DESCRIPTION	PART #
1	End Access Ladder	FS-1403-RLA512
2	R5 Socket Clamp Assy.	See Page 11

Specifications

END ACCESS LADDER:

Shall be constructed of 1.315" OD, 12 gage steel tube and finished with a baked on powder coating.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

Instructions

Notes:

(A) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Step 1.

Dig (2) 12" dia. footing holes approx. 18" deep.
See Assembly View for locations.

Step 2.

Locate and mark the locations of the collars and attach to the support posts as shown on Collar Assembly Page 09.

Step 3.

Place the ladder into the footing holes and attach to the support collars as shown in Figure 2. See Socket Clamp Assembly Page 11.

Step 4.

Fully tighten all fasteners.

Step 5.

Pour concrete footings. Allow 72 hours for concrete to cure before continuing.

Assembly View

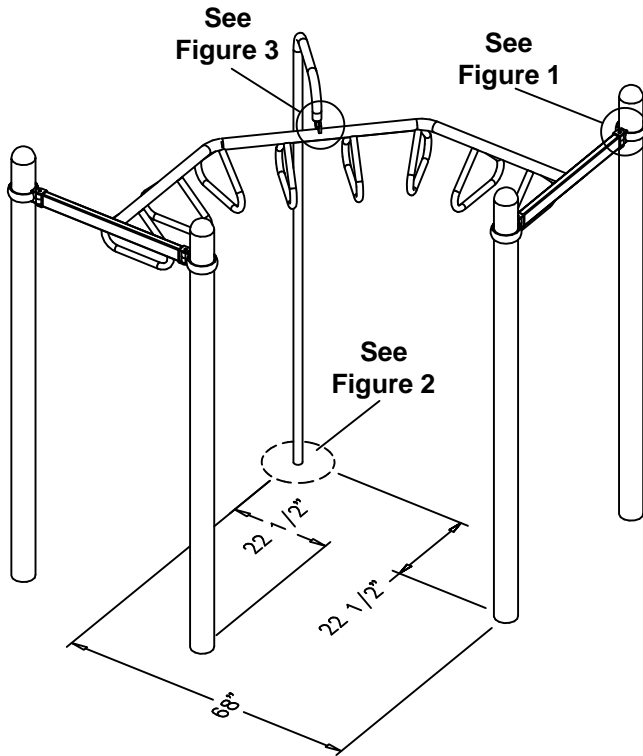


Figure 3

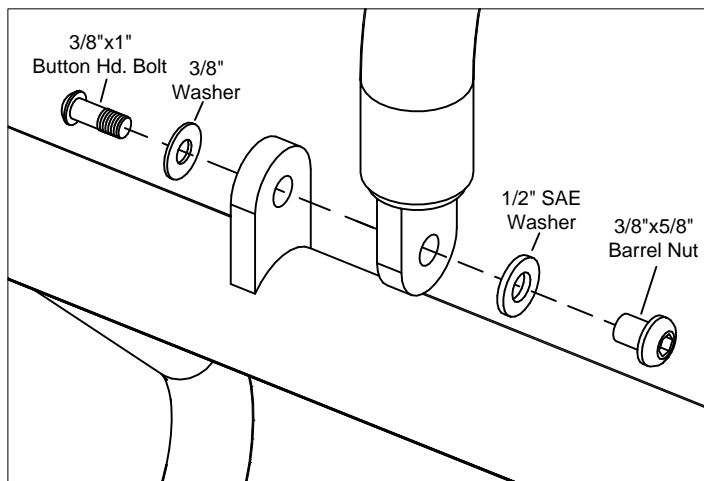


Figure 1

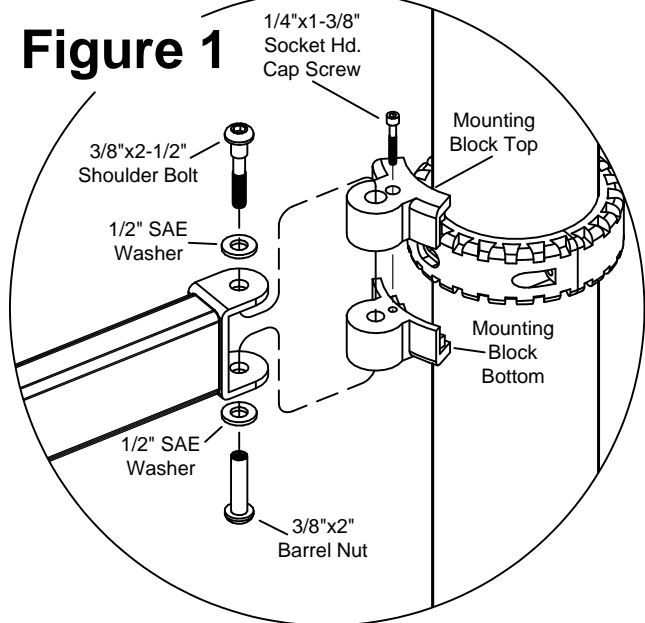
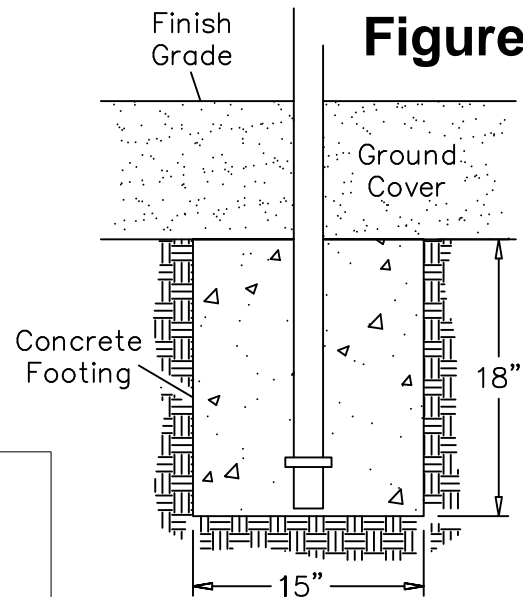


Figure 2



Parts List

QTY.	DESCRIPTION	PART #
1	90° Loop Traverse	FS-1411-R90
1	90° Loop Traverse Support	FS-1411-90A
4	Mounting Block Top	7006-T
4	Mounting Block Bottom	7006-B
1	3/8"x1" Button Hd. Bolt	9103052-TR
4	3/8"x2-1/2" Shoulder Bolts	9143112-TR
4	1/4"x1-3/8" Socket Cap Screws	9281062-5
1	3/8" Washer	9333002
9	1/2" SAE Washers	9345002
1	3/8"x5/8" Barrel Nut	9443022-TR
4	3/8"x2" Barrel Nuts	9443092-TR

Specifications

LOOP TRAVERSE:

Center support beam shall be 2.375" OD, 10 gage steel tube welded to 1.5" x 3" cross members. Rungs shall be made from 1.315" OD, 12 gage steel tubing. Finished with a baked on powder coating.

MOUNTING BLOCKS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately.

Instructions

Notes:

(A) The height of the Loop (at grasping point) from the top of ground cover varies by age group.
Ages 2-5: Max. 60" above ground cover.
Ages 5-12: Max. 84" above ground cover.

(B) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly

Step 1.

Locate and mark collar positions as shown in the Assembly View, and attach as shown on Collar Assembly Page 09.

Step 2.

Place Mounting Blocks in position on the collars and secure with Socket Head Cap Screws. Attach Loop Traverse to Mounting Blocks as shown in Figure 1.

Step 3.

Check to ensure that the Loop Traverse has been installed to the correct height (see Note A).

Step 4.

Dig a 15" dia. footing hole approx. 18" deep. See Assembly View for location and Figure 2 for footing detail.

Step 5.

Place the Traverse Support in the footing hole and attach to the 90° Loop Traverse as shown in Figure 3.

Step 6.

Fully tighten all fasteners.

Step 7.

Pour concrete footing. Allow 72 hours for concrete to cure before continuing.

IMPORTANT NOTES: Read First

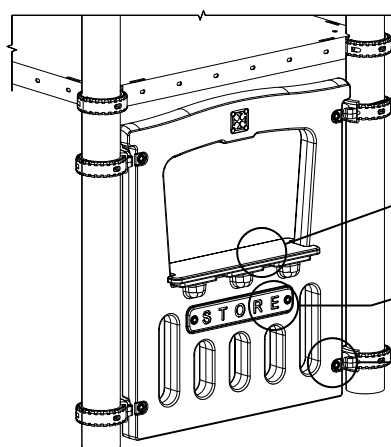
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars and R5-11 Socket Clamps.

(C) Collar Locations : Collars measure 33-5/8" from top of lower collar to top of upper collar.
Under Deck Installation: Make sure distance between the bottom of the deck and the top of the panel(s) is less than 3-1/2" or greater than 9" to avoid head and neck entrapment.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.

Assembly View



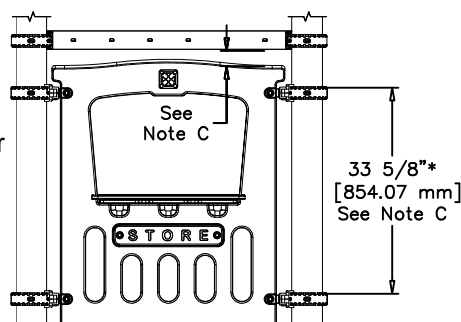
See Assembly Page R5-09 Collars and R5-11 Socket Clamps

See Figure 1
Counter Set to Panel Connection

See Figure 2
"STORE" Plaque to Panel Connection

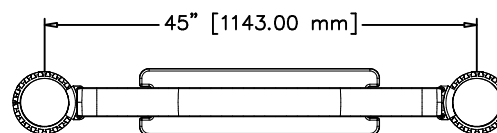
See Figure 3
Mounting Lug Connection

*Dimension given is from Top of Lower Collar to Top of Upper Collar



Elevation

Front View



Post Spacing

Top View



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Rev J

Figure 1

Counter Set to
Panel Connection

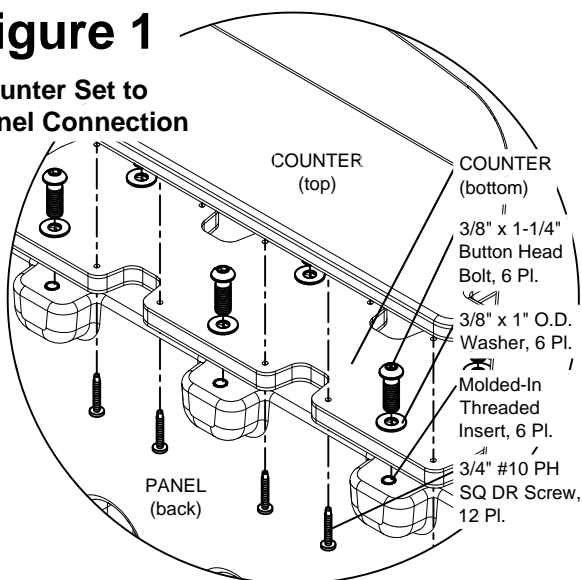


Figure 2

"STORE" Plaque to
Panel Connection

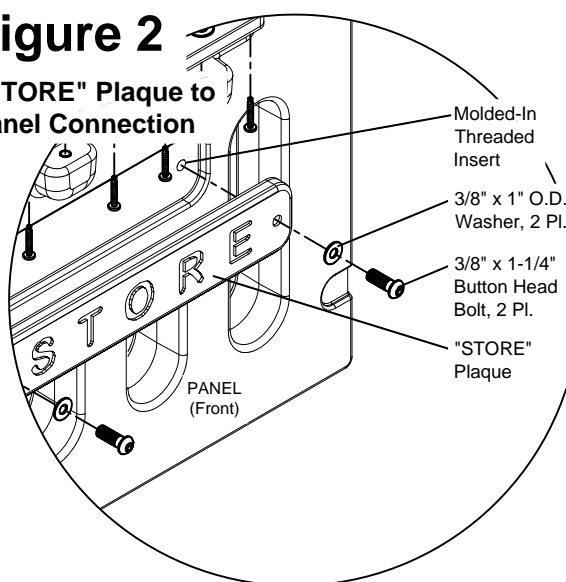
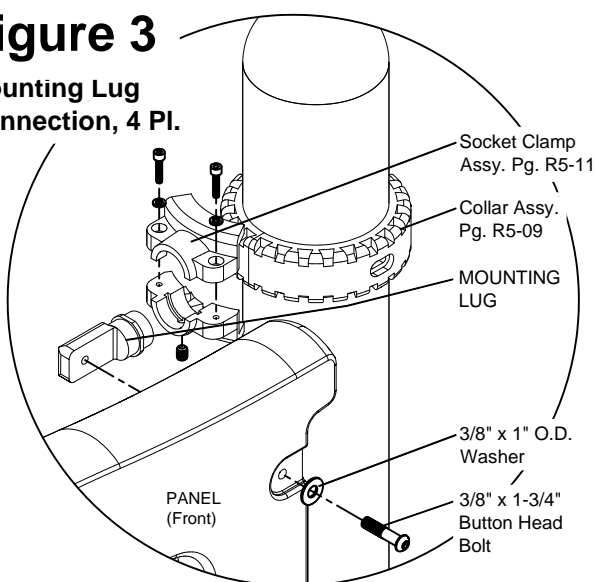


Figure 3

Mounting Lug
Connection, 4 Pl.



Parts List

PART #	DESCRIPTION	QTY.
004785	Panel Store "Roto" Set (incl. Counter and Plaque)	1 Set
007007	Mounting Lug R5	4
123010	Panel Store Roto R5	1
See Pg. R5-11	Socket Clamp Assy.	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	8
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	4
9333002	Washer Flat 3/8" x 1" x .100 thk	12
9251032	Screw SQ #10 x 3/4" DR PH	12

Installation

Step 1.

Locate and mark the position of the Collars on the Support Posts. See Note C. Refer to Assembly Page R5-09 Collars for additional details and hardware.

Step 2.

Attach Counter Set to Panel. Refer to Figure 1 for hardware type and orientation. Attach "STORE" Plaque to front of Panel. Refer to Figure 2 for hardware type and orientation.

Step 3.

Loosely attach the top of the Panel to the Collars using Socket Clamps and Mounting Lugs. Refer to Figure 3 for hardware type and orientation. See also Assembly Page R5-11 Socket Clamps.

Step 4.

Repeat Step 3 to attach bottom of Panel to Collars.

Step 5.

Check distance between top of Panel and bottom of Deck to make sure it doesn't create an Entrapment. See Note C for details.

Step 6.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 7.

Place appropriate compliant protective surfacing under and around Store Panel Roto. See Note D.

Specifications

STORE PANEL ROTO R5:

Shall be constructed of UV-stabilized, rotationally molded, Linear Low Density Polyethylene with an average single wall thickness of 1/4". The Panel (ROTO) shall be 38" x 43-1/2" x 3" deep.

COUNTER SET & "STORE" PLAQUE:

Shall be fabricated using 3/4" High Density Polyethylene hot-extruded plastic.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

MOUNTING LUGS:

Shall be precision die-cast from a high-strength aluminum alloy. The Mounting Lugs have a multi-stage baked-on powder coating.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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Rev J

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

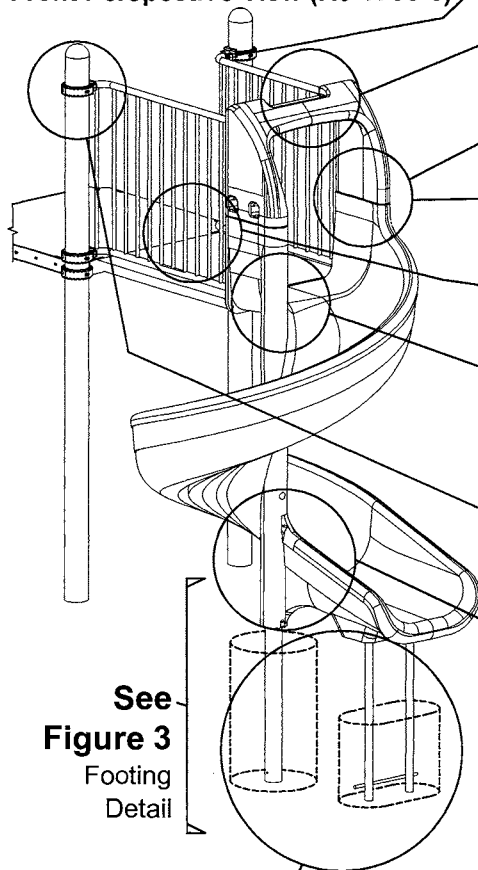
(B) Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars, and R5-11 Socket Clamps.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

Assembly View

Front Perspective View (R5-1706-6)



See
Figure 3
Footing
Detail

See Figure 2
Center Support, Slide
Leg and Footing Pin
Connection

See Assembly Page R5-09 Collars and
R5-11 Socket Clamps

See Figure 1
Sit-Down Bar to Slide Hood Connection

See Figure 6
Spiral Slide Hood to Spiral Slide Connection

See Figure 7
Spiral Slide Wall to Spiral Slide Assembly Connection

See Figure 4
Spiral Slide Deck to Adjoining Deck Connection

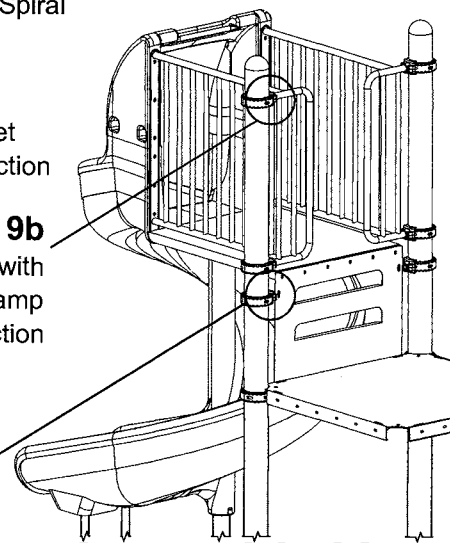
See Figure 8
Spiral Slide Assembly to Spiral
Slide Deck Connection

See Figure 9a
Spiral Slide Wall to Socket
Clamp and Collar Connection

See Figure 9b
Spiral Slide Wall with
Handle to Socket Clamp
and Collar Connection

See Figure 10
Bottom Collar and Tek
Screw Connection

See Figure 5b
8" Filler, Filler Support 12
and 24" Step Filler Options
Mounting Lug Connection



Assembly View

Rear Perspective View (R5-1706-6-HW)



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Rev E

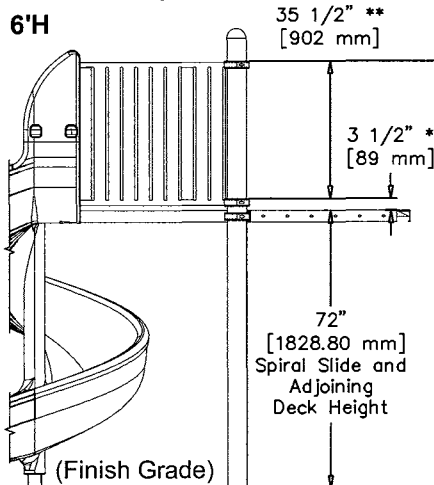
Elevation Views - Side Views

* Dimension given is from Top of Deck to Top of Collar

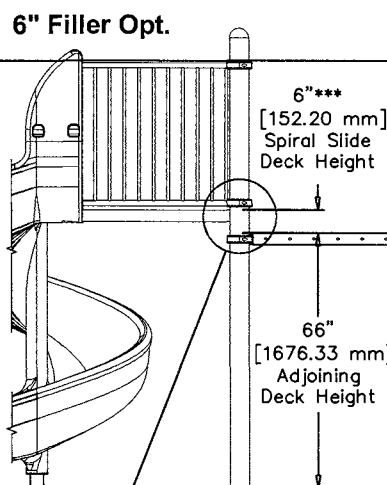
** Dimension given is from Top of Lower Collar to Top of Upper Collar

*** Dimension given is from Top of Deck to Top of Deck

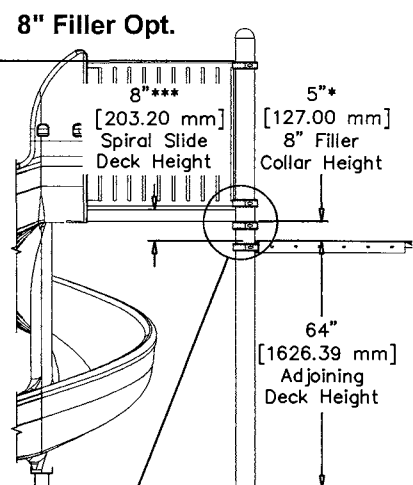
R5-1706-6 Spiral Slide 6'H



Spiral Slide 6'H w/ 6" Filler Opt.



Spiral Slide 6'H w/ 8" Filler Opt.



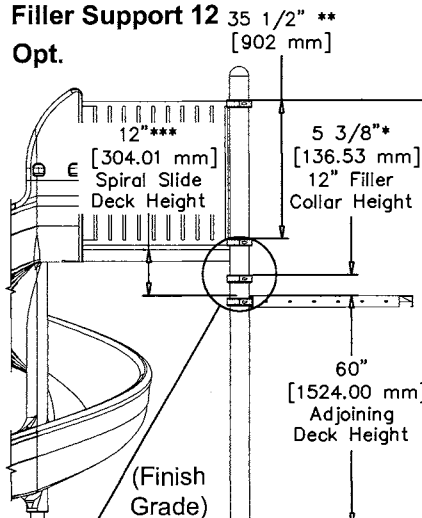
See Figure 5a

Spiral Slide Deck to Adjoining Deck Filler Option Connection

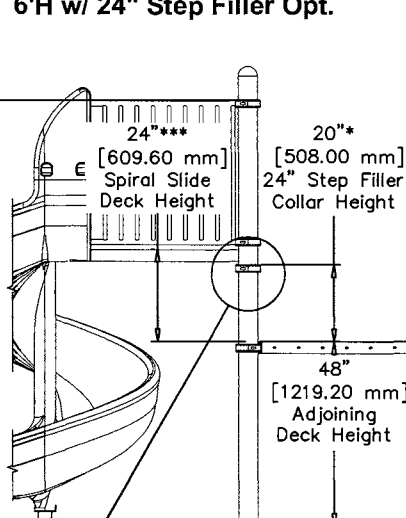
See Figure 5b

8" Filler Option Mounting Lug Connection

Spiral Slide 6'H w/ Filler Support 12" Opt.



R5-1706-6-HW Spiral Slide 6'H w/ 24" Step Filler Opt.

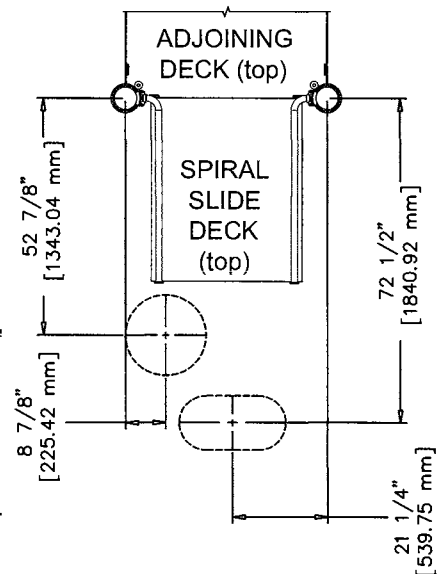


See Figure 5b

12" Filler Option Mounting Lug Connection

See Figure 5b

24" Step Filler Option Mounting Lug Connection



Footings Layout

Top View (Spiral Slide Assembly hidden for clarity)

Figure 1

Sit-Down Bar to Spiral Slide Hood Connection

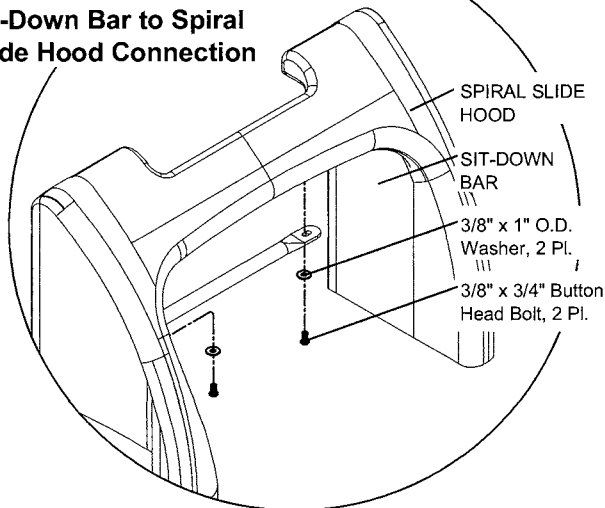


Figure 2

Center Support, Slide Leg and Footing Pin Connection

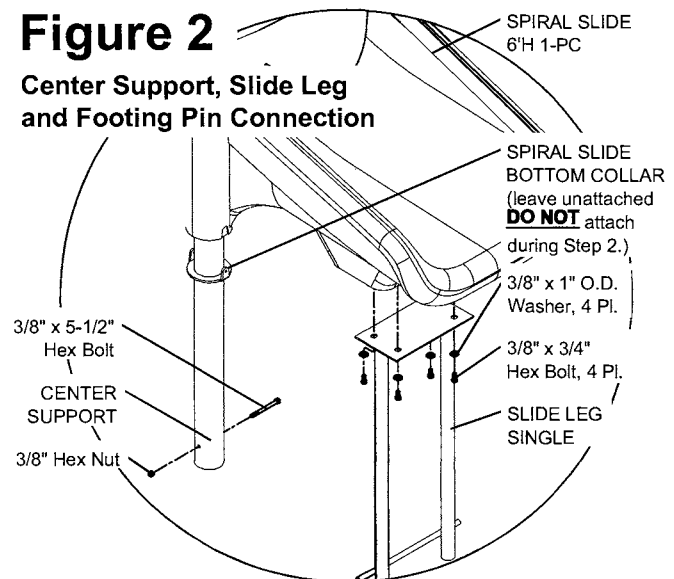
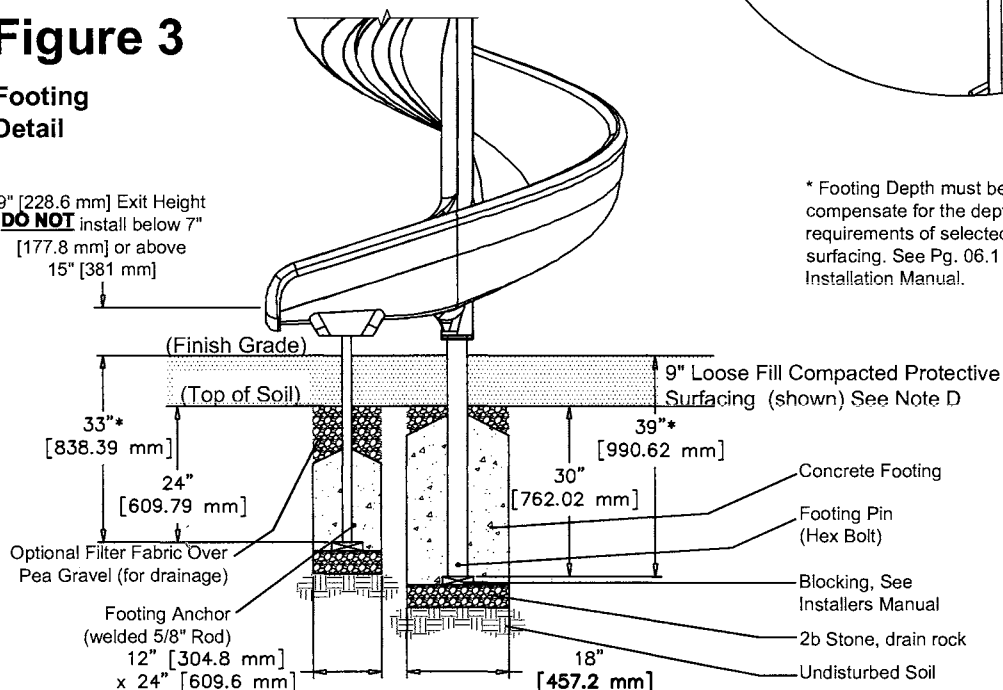


Figure 3

Footing Detail

9" [228.6 mm] Exit Height
DO NOT install below 7"
[177.8 mm] or above
15" [381 mm]



* Footing Depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Pg. 06.1 of the Installation Manual.

Figure 4

Spiral Slide Deck to Adjoining Deck Connection

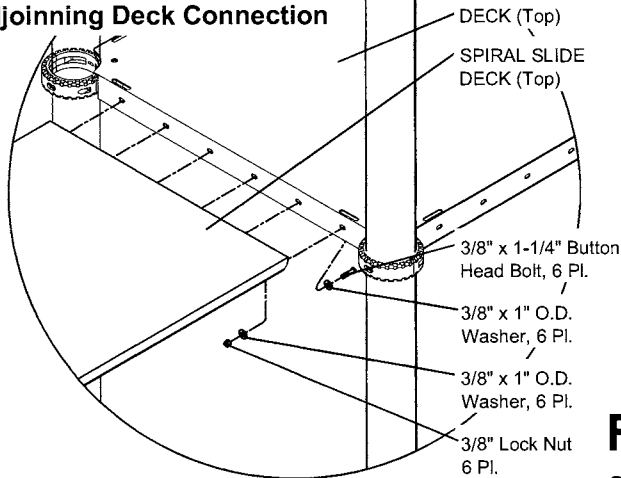


Figure 5a

Spiral Slide Deck to Adjoining Deck Filler Option Connection

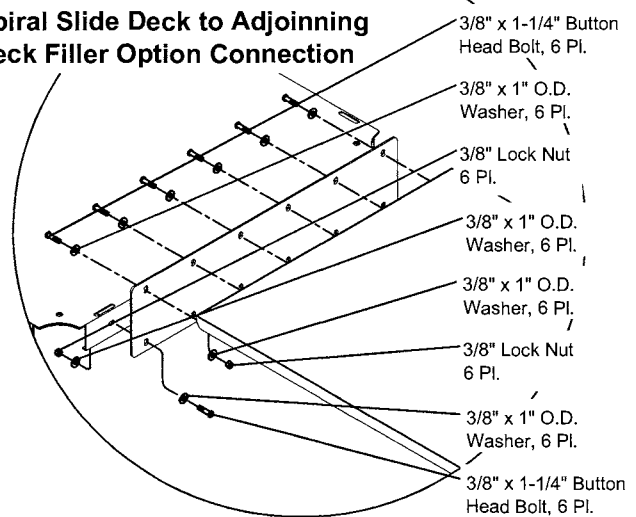
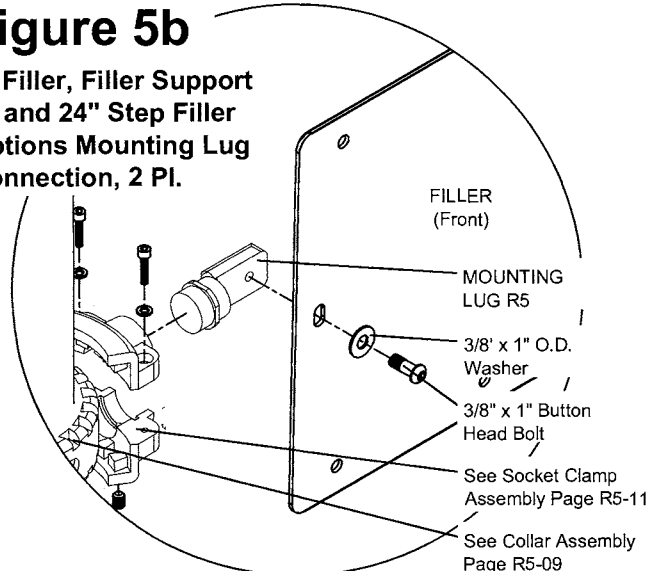


Figure 5b

**8" Filler, Filler Support
12 and 24" Step Filler
Options Mounting Lug
Connection, 2 Pl.**



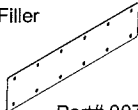
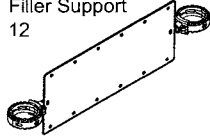
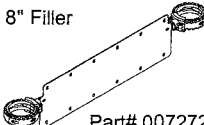
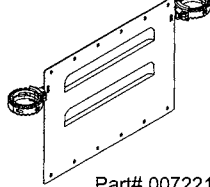
NOTE: For Filler Options Refer to Page 2 for Collar Locations	
6" Filler  Part# 007085	Filler Support 12  Part# 007047
8" Filler  Part# 007272	24" Step Filler (Half Walls Required)  Part# 007221

Figure 6

**Spiral Slide Hood to
Spiral Slide Connection**

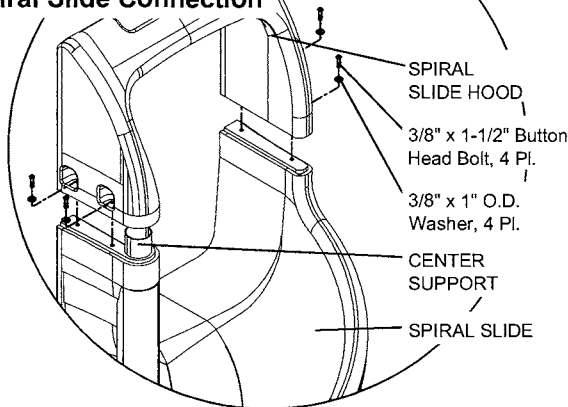


Figure 7

**Spiral Slide Wall to Spiral
Slide Assembly Connection**

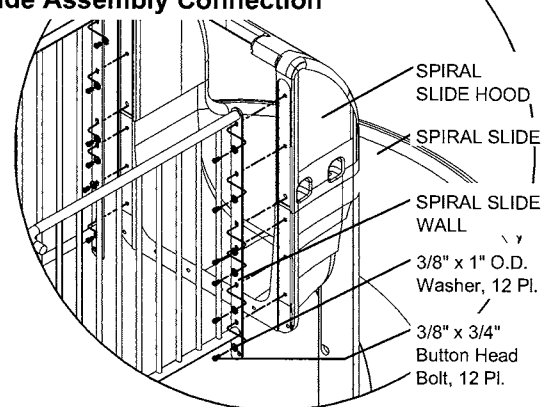


Figure 8

**Spiral Slide Assembly to
Spiral Slide Deck Connection**

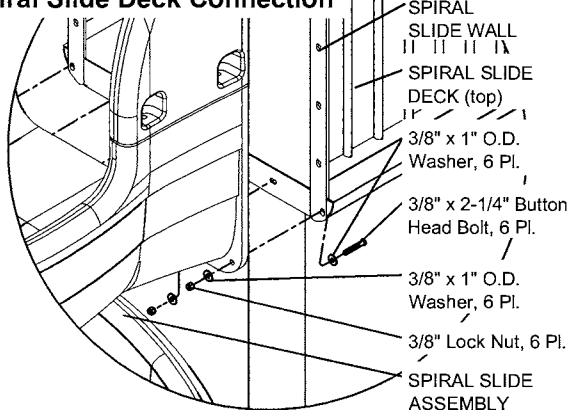


Figure 9a

**Spiral Slide Wall to Socket Clamp
and Collar Connection, 4 Pl.**

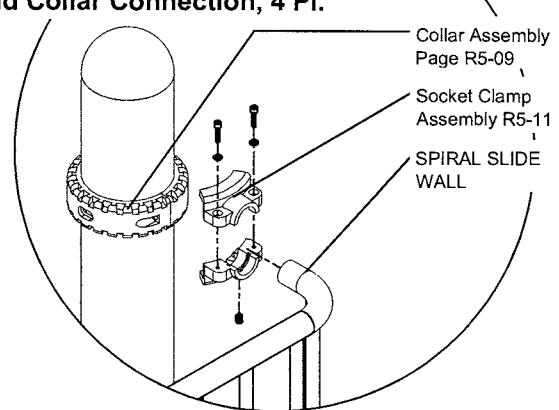


Figure 9b

**Spiral Slide Wall with Handle to Socket
Clamp and Collar Connection, 4 Pl.**

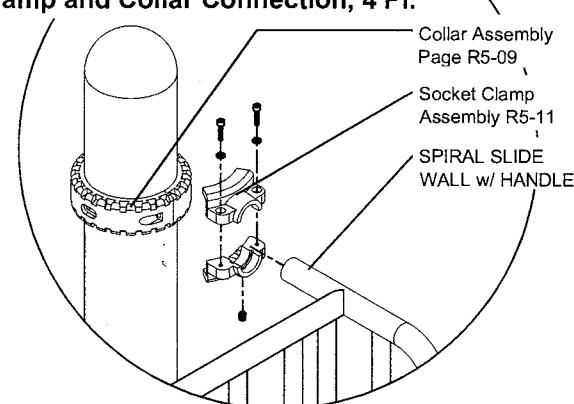
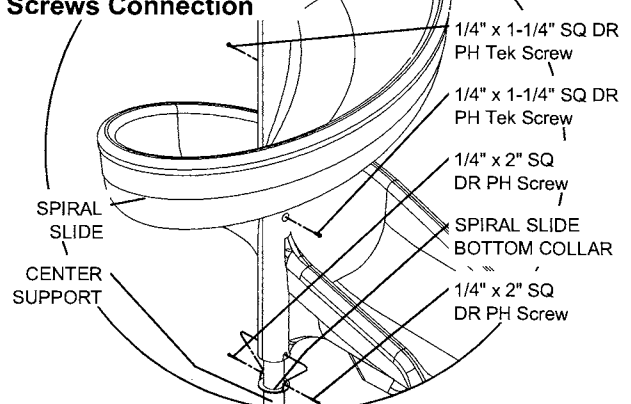


Figure 10

**Bottom Collar and Tek
Screws Connection**



Parts List - R5-1706-6

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
004487	Spiral Slide Deck #3	1
004490	Spiral Slide Bottom Collar	1
116704	Slide Spiral Hood	1
116724	Slide Spiral 6'H 1-PC	1
672611-11	Support Post 3.5" O.D. x 132"	1
See Pg. R5-11	Socket Clamp Assy.	4
FS-1701	Slide Leg Single	1
FS-1706-R	Spiral Slide Wall R5	1 Set
9103032-TR	Bolt Button Head 3/8" x 3/4"	12
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	6
9123032	Bolt Hex 3/8" x 3/4"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9221092	Screw 1/4" x 2" SQ DR PH	2
9271060	Screw Tek 1/4" x 1-1/4" PH SQ DR	2
9333002	Washer Flat 3/8" x 1" x .100 thick	44
9413002	Nut Lock 3/8"	12
9483602	Nut Hex 3/8"	1

Specifications

SLIDE SPIRAL 6'H 1-PC with HOOD:

Shall be constructed of UV-stabilized, rotationally molded, Linear Low Density Polyethylene with an average single wall thickness of 1/4" with a molded-in footing base. The Slide Spiral 6'H 1-PC with Hood shall have a slide way bed average of approximately 23" wide with 13" high side walls. One-Piece Spiral Slides are designed to attach to a 6'H deck or with a filler option to a lower height deck up to 24" below the Slide deck height of 6'H.

SPIRAL SIT-DOWN BAR KC:

Shall be made from Ø 1.029", 14 gauge steel tubing. The Spiral Sit-Down Bar KC has a multi-stage baked-on powder coat finish.

SPIRAL SLIDE BOTTOM COLLAR:

Shall be precision laser-cut from 1/4" thick sheet steel. The Spiral Slide Bottom Collar shall be zinc coated and have a multi-stage baked-on powder coat finish.

SPIRAL SLIDE WALL R5:

Shall be constructed of Ø 1.315", 12 gauge steel tubing top and bottom rails with welded Ø 1.029", 14 gauge steel tubing vertical rungs. A 1/4" steel wall bracket is welded to the outer rails for mounting wall to Spiral Slide. The Spiral Wall has a multi-stage baked on powder coat finish.

SPIRAL SLIDE DECK #3:

Walking surface shall be fabricated using 12 gauge sheet steel punched and formed with reinforcing cross members and gussets. The Spiral Slide Deck #3 shall be Play-Tuff™ coated after fabrication.

POST R35:

Shall be made from Ø 3.5", 11 gauge galvanized steel tubing.

SLIDE LEG SINGLE:

Shall be constructed of a 3/16" flat plate with (2) Ø 1.660", 11 gauge steel tubing (legs) welded vertically onto the base of the plate. There shall also be a 5/8" Round Bar footing anchor welded to the bottom of the legs to increase support in the footing. The Slide Leg Single has a multi-stage baked on powder coat finish.

MOUNTING LUGS:

Shall be precision die-cast from a high-strength aluminum alloy. The Mounting Lugs have a multi-stage baked-on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Assembled Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
FS-1706-SB	Spiral Slide Sit-Down Bar KC	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2



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Additional Parts List - 6"H Filler Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
007085	Slide Spiral R5 Filler 6"H	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	12
9413002	Nut Lock 3/8"	6

Additional Parts List - 8"H Filler Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
See Pg. R5-11	Socket Clamp Assy.	2
007007	Mounting Lug R5	2
007272	Spiral Slide Filler 8"H	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	14
9413002	Nut Lock 3/8"	6

Additional Parts List - Filler Support 12 Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
See Pg. R5-11	Socket Clamp Assy.	2
007007	Mounting Lug R5	2
007047	Filler Support 12 R5	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	14
9413002	Nut Lock 3/8"	6

Parts List - R5-1706-6-HW 24" Step Filler w/ Half Walls

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
004487	Spiral Slide Deck #3	1
004490	Spiral Slide Bottom Collar	1
007007	Mounting Lug R5	2
007221	Vertical Step Slide Spiral	1
116704	Slide Spiral Hood	1
116724	Slide Spiral 6'H 1-PC	1
672611-11	Support Post 3.5" O.D. x 132"	1
See Pg. R5-11	Socket Clamp Assy.	6
FS-1701	Slide Leg Single	1
FS-1706-R2HW	Spiral Slide Wall w/ Handle R5	1 Set
9103032-TR	Bolt Button Head 3/8" x 3/4"	12
9103052-TR	Bolt Button head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	6
9123032	Bolt Hex 3/8" x 3/4"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9221092	Screw 1/4" x 2" SQ DR PH	2
9271060	Screw Tek 1/4" x 1-1/4" PH SQ DR	2
9333002	Washer Flat 3/8" x 1" x .100 thk	58
9413002	Nut Lock 3/8"	18
9483602	Nut Hex 3/8"	1

Assembled Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
FS-1706-SB	Spiral Slide Sit-Down Bar KC	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2

Additional Specifications

SPIRAL SLIDE FILLERS:

Shall be punch from 10 gauge HR Sheet Steel. The Spiral Slide Fillers have a multi-stage baked-on powder coat finish.

VERTICAL STEP SLIDE FILLER:

Shall be punch and formed from 10 gauge HR Sheet Steel. The Vertical Step Slide Filler shall be Play-Tuff™ coated after fabrication.

SPIRAL SLIDE WALL WITH HANDLE R5:

Shall be constructed of Ø 1.315", 12 gauge steel tubing outer rails with welded Ø 1.029" O.D., 14 gauge steel tubing vertical rungs. A 1/4" steel wall bracket is welded to the outer rails for mounting wall to Spiral Slide. The Spiral Wall has a multi-stage baked on powder coat finish.



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Installation

Step 1. - This Step is Pre-Assembled.

Attach Spiral Slide Sit-Down Bar to Spiral Slide Hood. Refer to Figure 1 for hardware type and orientation.

Step 2.

Insert Center Support into Bottom Collar with Tabs/Ears pointed away from Footing Pin hole. Attach Footing Pin to Center Support. Insert Center Support into Spiral Slide. Leave Bottom Collar unattached to Center Support during this step. Attach Slide Leg Single to base of Spiral Slide. Refer to Figure 2 for hardware type and orientation.

Step 3.

Attach Collars to Support Posts. Refer to Elevation Views for Collar Location. See also Assembly Page R5-09 for hardware type and orientation.

Step 4.

Refer to Footing Layout and mark footing hole locations. Dig (1) 12" x 24" and (1) Ø 18" footing holes. Refer to Figure 3 for depth and details. **IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

Step 5a.*** For Spiral Slide 6'H 1-PC attached to 72"H Adjoining Decks Only ***

Attach Spiral Slide Deck #3 to Adjoining 6'H Deck. Refer to Figure 4 for hardware type and orientation. Place temporary support under free end of Spiral Slide Deck #3, to hold it in a level position.

Step 5b.*** For Spiral Slides 6'H 1-PC attached to Adjoining Decks of less than 72"H ***

Attach Filler to Adjoining Deck and to Spiral Slide Deck. Refer to Figure 5a for hardware type and orientation. For Fillers and Vertical Step Fillers additional mounting is required. Refer to Elevation Views for Collar Placement and See also Assembly Page R5-09 Collars and R5-11 Socket Clamps for hardware type and orientation. Refer to Figure 5b for hardware type and orientation for attaching Fillers to Mounting Lugs and Socket Clamps. Place temporary support under free end of Spiral Slide Deck #3, to hold it in a level position.

Step 6.

Attach Spiral Slide Hood to Spiral Slide. Refer to Figure 6 for hardware type and orientation.

Step 7a.*** For Spiral Slide 6'H 1-PC attached to 60" - 72"H Adjoining Decks Only ***

Attach Spiral Slide Wall to Spiral Slide Assembly. Refer to Figure 7 for hardware type and orientation.

Step 7b.*** For Spiral Slide 6'H 1-PC attached with 24" Step Filler to 48"H Adjoining Decks Only ***

Attach Spiral Slide Wall with Handle to Spiral Slide Assembly. Refer to Figure 7 for hardware type and orientation.

Step 8.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 9.

Place Spiral Slide Assembly with Walls attached into place. Attach Spiral Slide to Spiral Slide Deck. Refer to Figure 8 for hardware type and orientation. Remove temporary support.

Step 10a.*** For Spiral Slide 6'H 1-PC attached to 60" - 72"H Adjoining Decks Only ***

Attach Spiral Slide Wall to Collar using Socket Clamp Assembly and orientation. Refer to Figure 9a for wall orientation. See also Assembly Page R5-11 for hardware type and orientation.

Step 10b.*** For Spiral Slide 6'H 1-PC attached with 24" Step Filler to 48"H Adjoining Decks Only ***

Attach Spiral Slide Wall with Handle to Collar using Socket Clamp Assembly and orientation. Refer to Figure 9b for wall orientation. See also Assembly Page R5-11 for hardware type and orientation.

Step 11.

Verify Exit Height. Refer to Figure 3 for details. Plumb and level Spiral Slide and Spiral Slide Deck. Block and Brace. Attach Spiral Slide Assembly to Center Support using Spiral Slide Bottom Collar. Refer to Figure 10 for hardware type and orientation.

Step 12.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 13.

Verify Spiral Slide and Deck are plumb and level. Block and brace prior to pouring concrete into footing holes. Pour concrete into footing holes. Refer to Figure 3 for details. Allow a minimum of 72 hours to cure before using this equipment. See Note B.

Step 14.

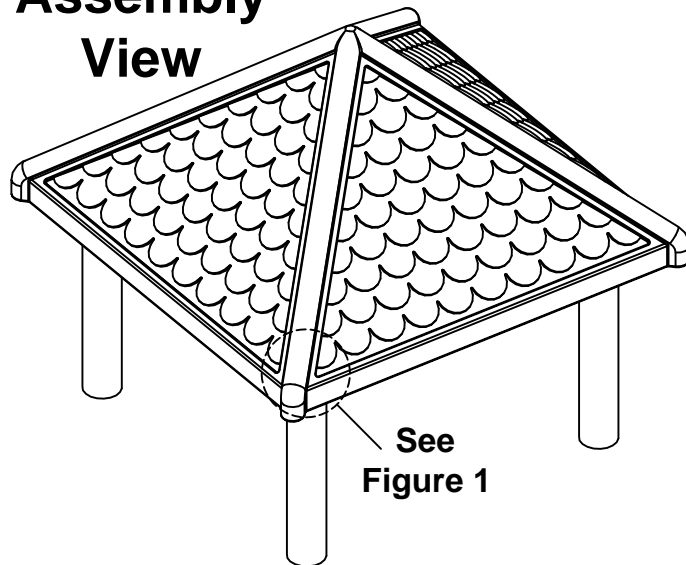
Place compliant protective surfacing under and around Center Support and Slide Leg Single. See Note D.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



Assembly View



Plan View

Roof Support
Casting Layout

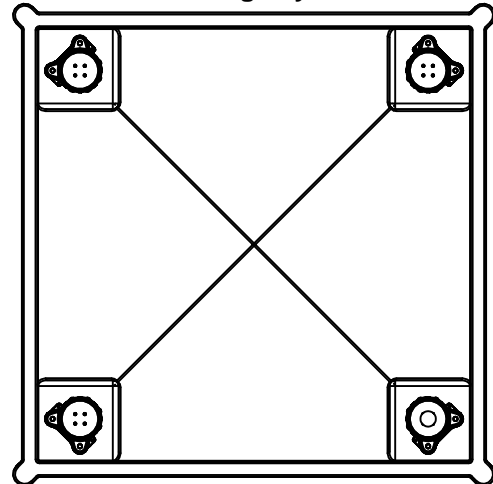
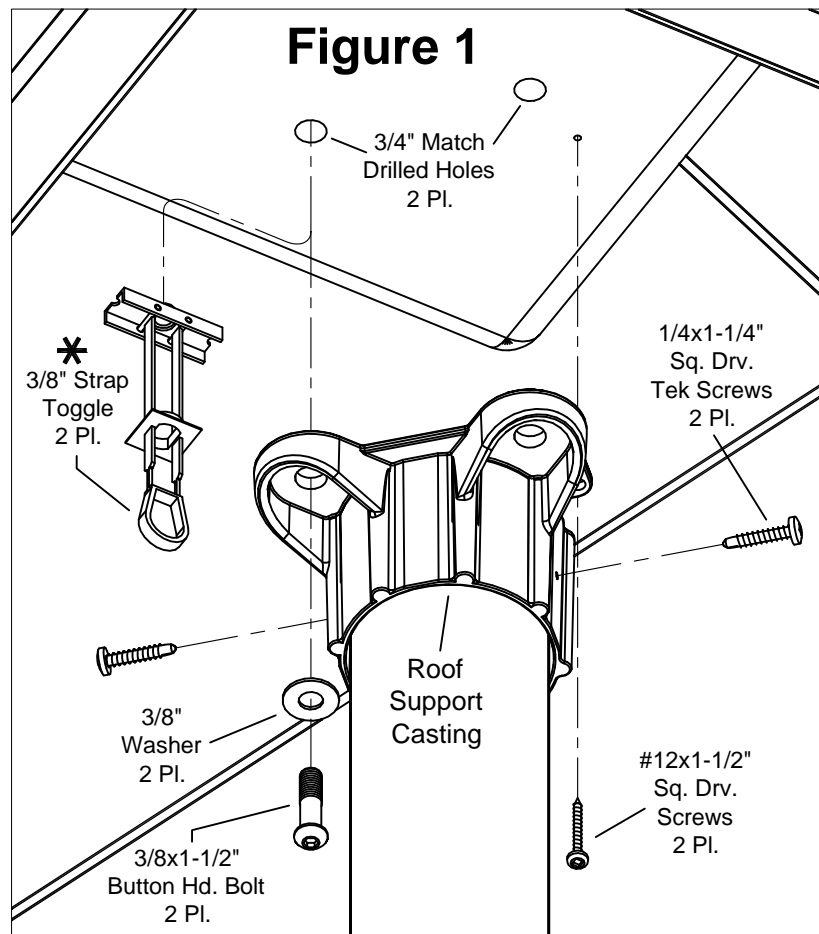


Figure 1



Parts List

QTY.	DESCRIPTION	PART #
1	Poly Shingled Roof	141020
4	Roof Support Castings 2-Ear	7163
8	3/8"x1-1/2" Button Hd. Bolts	9103072-TR
8	#12x1-1/2" Sq. Drv. Screws	9221272
8	1/4"x1-1/4" Sq. Drv. Tek Screws	9271060
8	3/8" Washers	9333002
8	3/8" Strap Toggle Fasteners	9643160

Specifications

ROOF:

Shall be roto-molded of UV-stabilized polyethylene with an average wall thickness of .250".

ROOF SUPPORT CASTING:

Shall be Die-Cast using a High-Strength Aluminum Alloy. To be finished with a baked on Powder Coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

Installation

Notes:

(A) Use Posts without caps.

(B) Snug tighten all fasteners during assembly. After assembly, check position and tighten the fasteners fully.

(C) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

✱ (D) Caution must be given to Toggle Assembly as parts may become fragile during insertion and final securing.

Step 1.

Attach Roof Casting to the top of the Post using 1/4"x1-1/4" Sq. Drv. Tek Screws as shown in Figure 1.

Step 2.

Position & center the Shingled Roof on the Roof Support Castings.

Step 3.

Mark Roof Casting hole positions on Poly Roof.

Step 4.

Move Roof out of position and match drill (2) 3/4" Dia. holes at each Casting location. Cinch the (2) Strap Toggle Fasteners into the roof through the 3/4" holes as shown in Figure 1. Re-position Shingled Roof.

Step 5.

Complete the attachment of the Roof to the Roof Castings using the 3/8"x1-1/2" Button Head Bolts and 3/8" Washers as shown in Figure 1.

Step 6.

Fully tighten all fasteners.

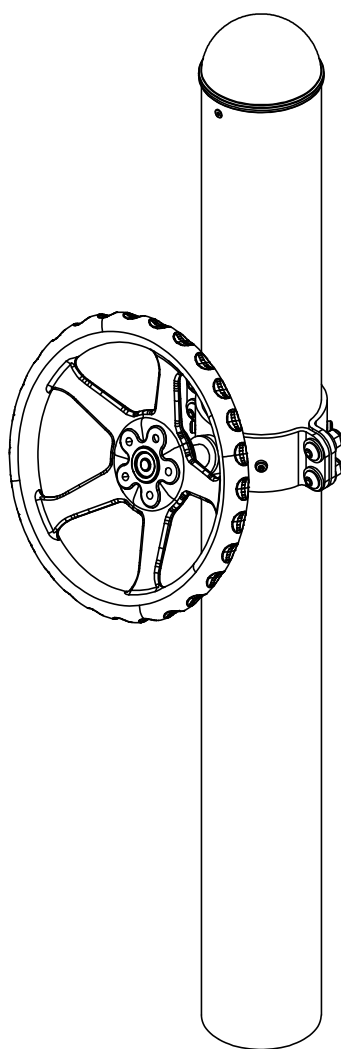


IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Driver Wheel to Post



NOTE: R5 Driver Wheel to Post shown.
Other configurations will vary slightly,
but does not affect assembly.

Step 1 (Factory Assembled)

Press Bearings into Wheel Hub as shown in Figure 2.

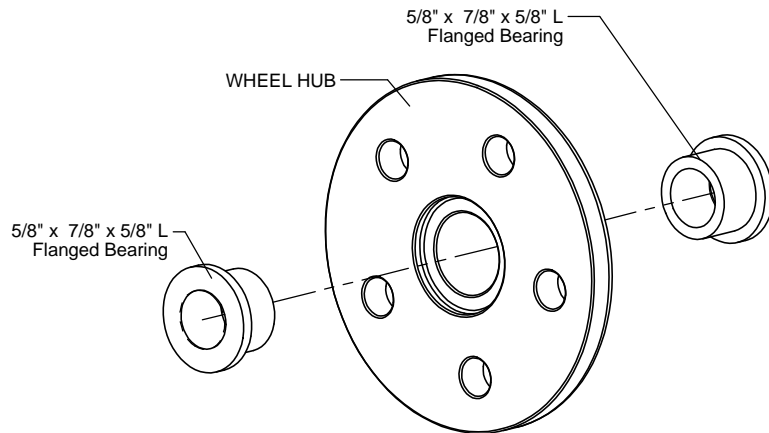


FIGURE 2

Step 2

Locate Driver Wheel height and attach Steering Wheel Bracket as shown in Figure 3. (See Note A)

NOTE: R5 assembly shown. Use 1/2" SAE Washers for R3.5 assembly.

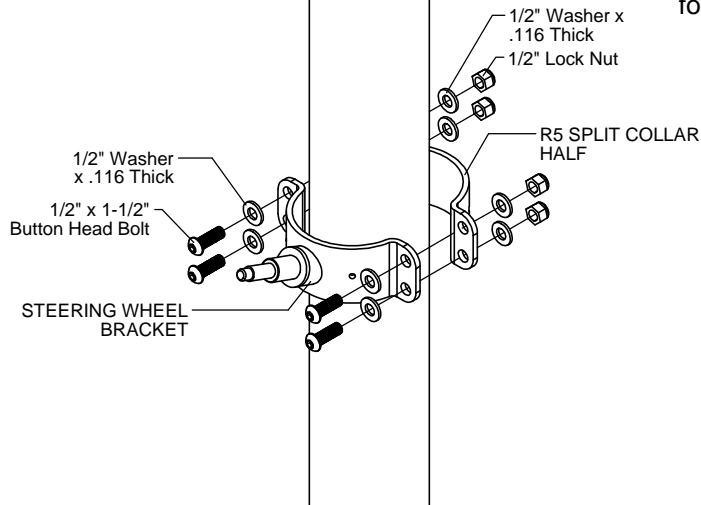


FIGURE 3

Step 3

Secure Steering Wheel Bracket to post as shown in Figure 4. (See Note A)

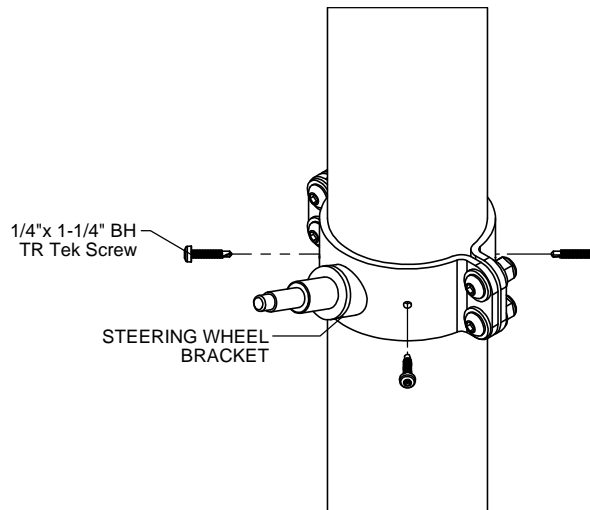


FIGURE 4

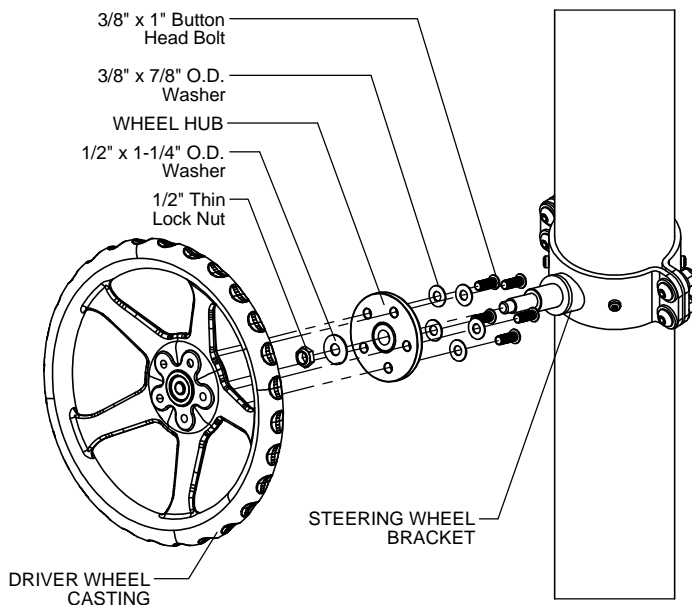


FIGURE 5

Step 4

Attach Driver Wheel Casting to Steering Wheel Bracket as shown in Figure 5. (See Note A)

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Place required protective surfacing under and around Driver Wheel to Post. (See Note B)

DRIVER WHEEL TO POST INSTALLATION INSTRUCTIONS

1812
Page 4 of 4

Parts List

S-1812-R35		
Part #	DESCRIPTION	QTY.
BG-8133	Split Collar Half R35	1
FS-1812-R35	Steering Wheel to Post Bracket R3.5	1
GE-4728	Driver Wheel Casting	1
9103052-TR	Bolt Button Head 3/8" x 1"	5
9105072	Bolt Button Head 1/2" x 1-1/2"	4
9261002	1/4" x 1/4" Socket Set Screw	1
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	4
9333042	Washer Flat 3/8" x 7/8" O.D.	5
9335062	Washer Flat 1/2" x 1-1/4" OD	1
9345002	Washer Flat SAE 1/2"	8
9415132	Nut Lock 1/2"	4
9425002	Nut Lock 1/2" Thin	1

S-1812-R		
Part #	DESCRIPTION	QTY.
BF-7068	Split Collar Half R5	1
FS-1812-R	Steering Wheel to Post Bracket	1
GE-4728	Driver Wheel Casting	1
9103052-TR	Bolt Button Head 3/8" x 1"	5
9105072	Bolt Button Head 1/2" x 1-1/2"	4
9261002	1/4" x 1/4" Socket Set Screw	1
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	4
9333042	Washer Flat 3/8" x 7/8" O.D.	5
9335002	Washer Flat 1/2" (.116" thick)	8
9335062	Washer Flat 1/2" x 1-1/4" OD	1
9415132	Nut Lock 1/2"	4
9425002	Nut Lock 1/2" Thin	1

Assembled Parts List

Part #	DESCRIPTION	QTY.
IE-4662	Wheel Hub	1
481058-58	5/8" x 7/8" x 5/8" L Flanged Bearing	2

Specifications

DRIVER WHEEL CASTING:

Shall be precision die-cast from a high strength aluminum alloy. The Driver Wheel Casting shall have a multi-stage baked-on powder coat finish coat finish.

WHEEL HUB:

Shall be machined from Ø 3-3/4" high strength aluminum alloy. The Wheel Hub shall have a multi-staged baked-on powder coat finish.

STEERING WHEEL TO POST BRACKET:

Shall be precision laser cut from 1/4" thick rolled sheet steel with welded 1.660" 11 gauge steel tubing and Ø 1" machined stainless steel spindle. The Steering Wheel to Post Bracket shall have a multi-stage baked-on powder coat finish.

SPLIT COLLAR HALF:

Shall be precision laser cut from 1/4" thick rolled sheet steel. The Split Collar Half shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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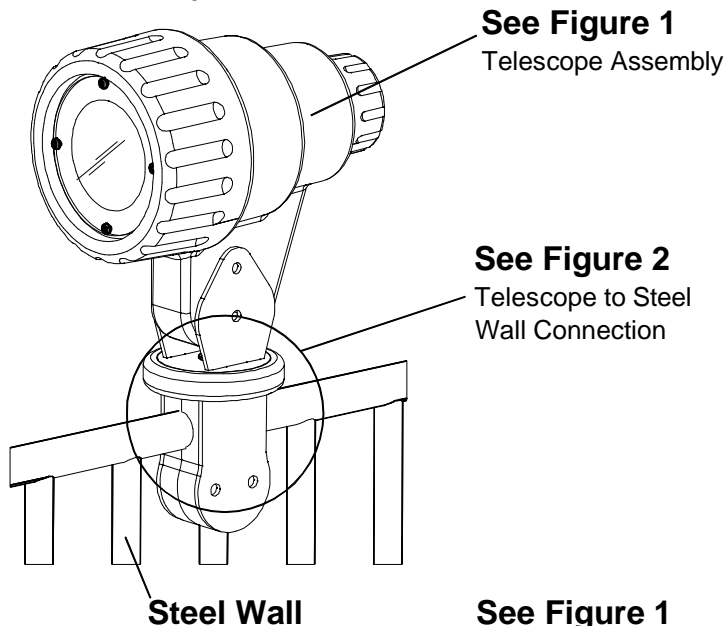
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IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite[®]) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Assembly Views

1830-S Telescope On Wall - Steel



1830-P Telescope On Wall - HDPE

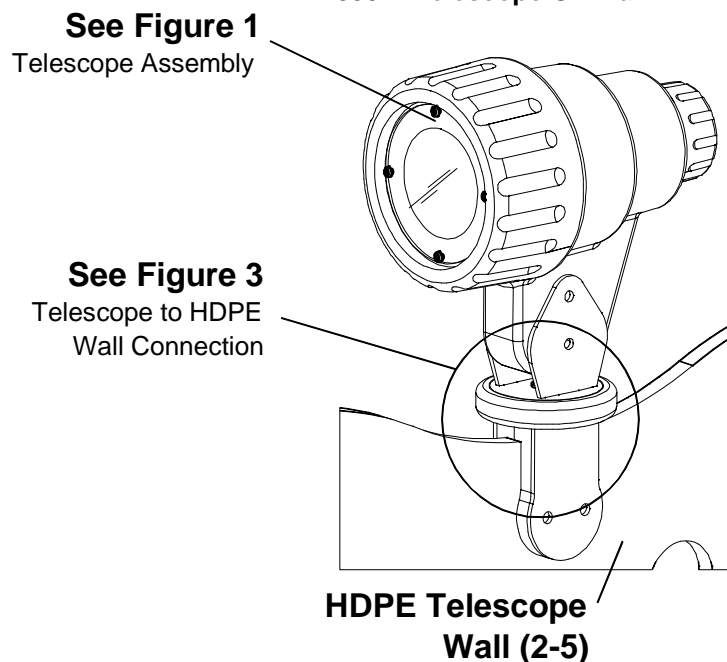


Figure 1

Telescope Assembly

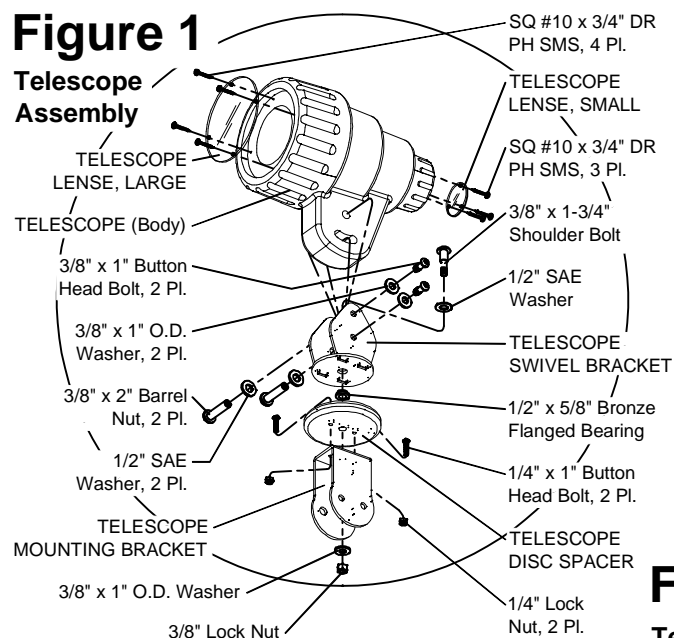


Figure 2

Telescope to Steel Wall Connection

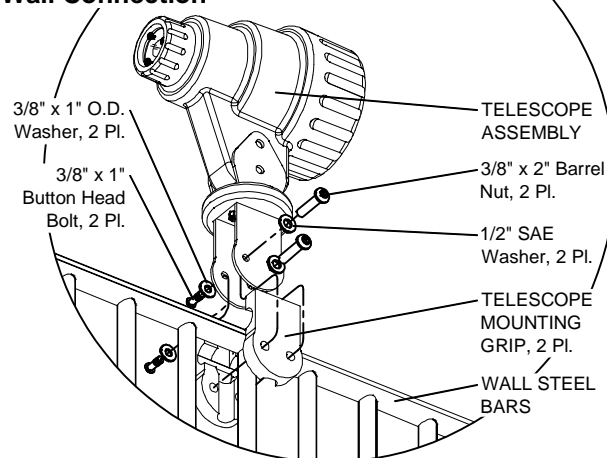
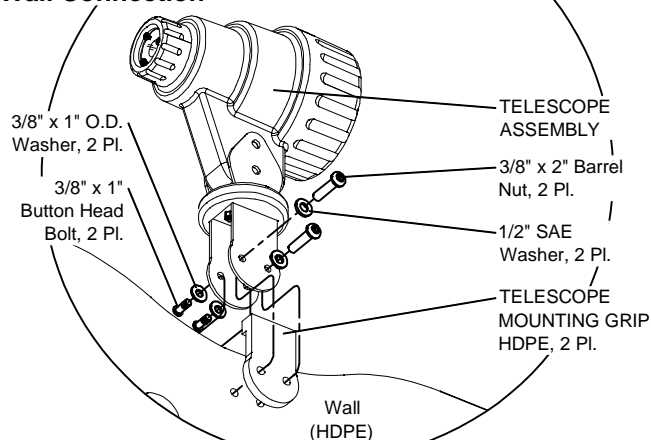


Figure 3

Telescope to HDPE Wall Connection



Parts List

1830-S Telescope on Wall (Steel)

PART #	DESCRIPTION	QTY.
007116	Telescope Mount Grip	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9345002	Washer Flat SAE 1/2"	2
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Parts List

1830-P Telescope on Wall (HDPE)

PART #	DESCRIPTION	QTY.
004624	Telescope Mount Grip HDPE	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9345002	Washer Flat SAE 1/2"	2
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Assembled Parts List

PART #	DESCRIPTION	QTY.
004523	Telescope (Body)	1
004579	Telescope Mounting Bracket	1
004584	Telescope Disc Spacer Wall	1
004585	Telescope Lens Small and Large	1 Set
562005	Bearing Flanged Bronze 1/2" x 5/8"	1
FS-1830	Telescope Swivel Bracket	1
9101052-TR	Bolt Button Head 1/4" x 1"	2
9103052-TR	Bolt Button Head 3/8" x 1"	2
91431-CUT	Bolt Shoulder 3/8" x 1-3/4" BH	1
9251032	Screw SQ #10 x 3/4" DR PH SMS	7
9333002	Washer Flat 3/8" x 1" x .100 thick	3
9345002	Washer Flat SAE 1/2"	3
9411012	Nut Lock 1/4"	2
9413002	Nut Lock 3/8"	1
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

Installation

Step 1. (Factory Assembled)

Assemble Telescope. Refer to Figure 1 for hardware type and orientation. Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installation Manual. See Note A.

Step 2a. *Wall (Steel) ONLY*

Attach Telescope Assembly to Wall. Refer to Figure 2 for hardware type and orientation.

Step 2b. *HDPE (Wall/Panel) ONLY*

Attach Telescope Assembly to Wall. Refer to Figure 3 for hardware type and orientation.

Step 3.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installation Manual. See Note A.

Specifications

TELESCOPE (Body):

Shall be constructed of UV-stabilized rotationally molded Linear Low Density Polyethylene with an average single wall thickness of .250".

TELESCOPE MOUNTING BRACKET:

Shall be precision laser-cut and formed from 3/16" thick H.R. sheet steel. The Telescope Mounting Bracket has a multi-stage baked-on powder coat finish.

TELESCOPE DISC SPACER WALL and MOUNTING GRIP:

Shall be fabricated using 3/4" High Density Polyethylene hot-extruded plastic specially formulated for optimum UV stability and color Retention.

TELESCOPE LENS SMALL and LARGE:

Shall be fabricated using .118" thick Polycarbonate.

TELESCOPE SWIVEL BRACKET:

Shall be 3-pieces precision laser-cut and welded together from 3/16" thick H.R. sheet steel. The Telescope Swivel Bracket has a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.



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Assembly View

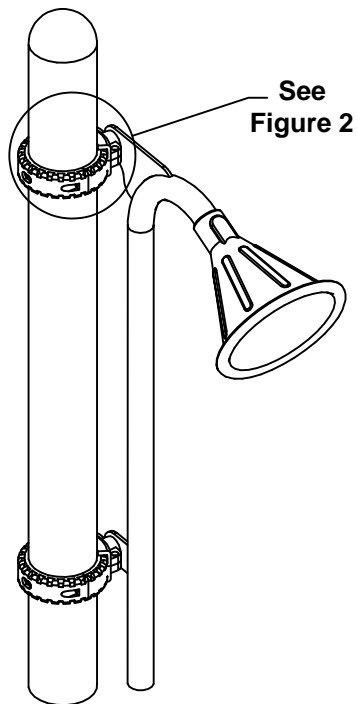


Figure 1

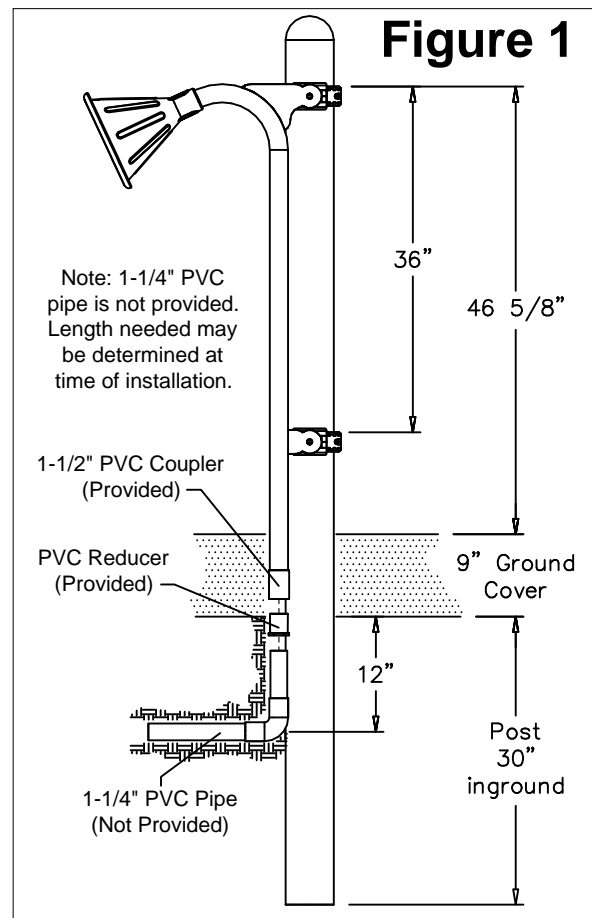
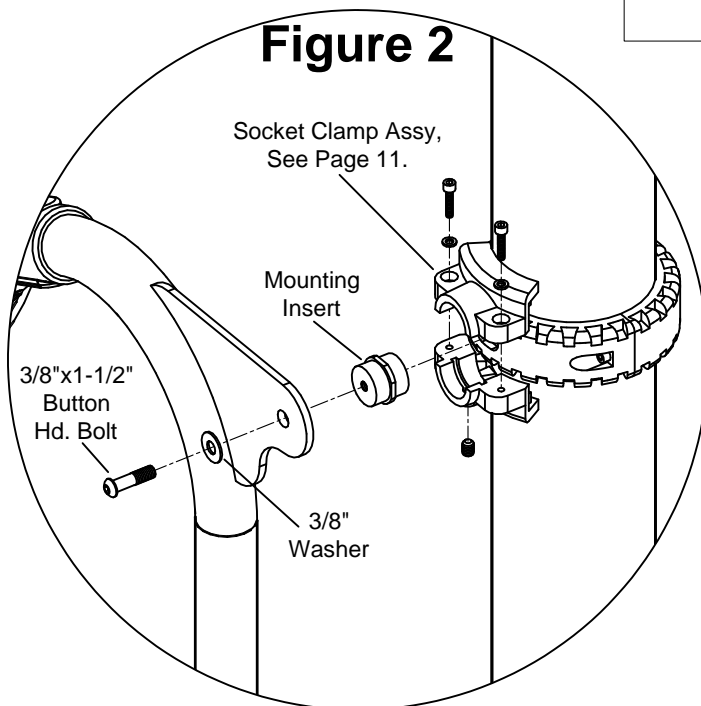


Figure 2



Parts List

QTY.	DESCRIPTION	PART #
2	Talk Tube w/ Cone	1910
4	R5 Socket Clamp Assy.	See Pg. 11
4	R5 Mounting Inserts	7015
2	PVC Coupler 1-1/2"	303200
2	PVC Reducer (1-1/2"-1-1/4")	303214
4	3/8 x 1-1/2" Button Hd. Bolts	9103072-TR
4	3/8" Washers	9333002

Specifications

TALK TUBES:

Shall be made of formed 1½" heavy-gauge pipe attached to polyethylene funnel section. The funnel section shall contain a perforated steel mouth piece within. Each complete Talk Tube support shall be powdercoated as specified after fabrication. Talk Tubes come in sets and are designed to be post mounted. PVC pipe is required for installation of Talk Tubes and must be supplied by the customer or installer.

SOCKET CLAMPS & MOUNTING INSERTS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately.

Instructions

Notes:

(A) Plan ahead to avoid problems with interference between Talk Tube, pipe, and post footings. Do not pour posts' concrete footings until Talk Tubes are installed. Talk Tubes that are apart from structure should be located at least 6' away from decks, climbing activities, and slides.

(B) You must supply all underground pipe, glue, and fittings. We recommend using 1¼" PVC pipe.

(C) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Step 1.

Excavate a trench between Talk Tube positions. Trench should allow underground pipe to be at least 12" below ground cover.

Step 2.

Extend pipe between each Talk Tube and attach as shown in Figure 1.

Step 3.

Locate and mark collar positions as shown in the Assembly View, and attach as shown on Collar Assembly Page 09.

Step 4.

Attach Talk Tubes to support collars as shown in Figure 2. See Socket Clamp Assembly Page 11.

Step 5.

Fully tighten all fasteners.

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) **Important:** prior to pouring concrete, verify that the Spin Max Pod spins freely.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

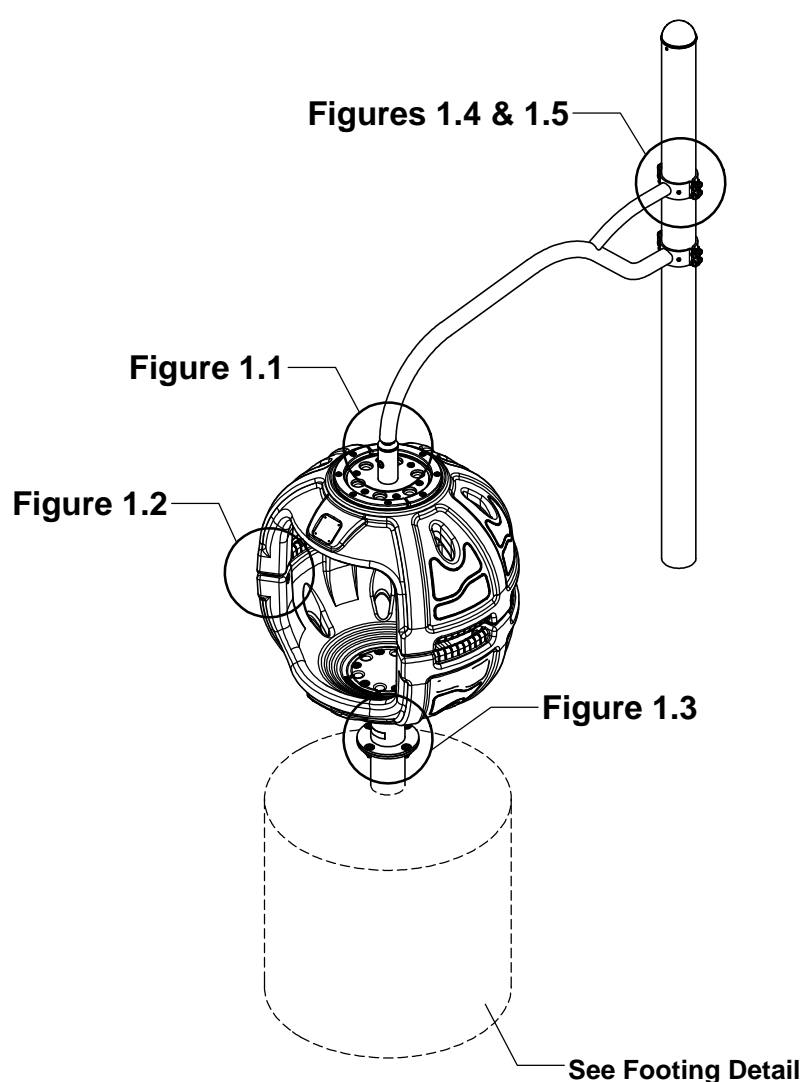


FIGURE 1
Spin Max Pod

Step 1

Footing Detail

Refer to Footing Layout and mark footing hole location. Dig (1) Ø 36" footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** Height shown from finish grade to top of collar.

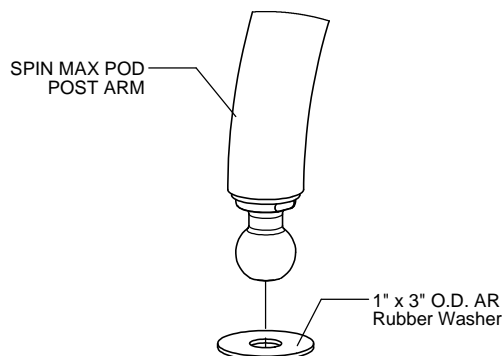
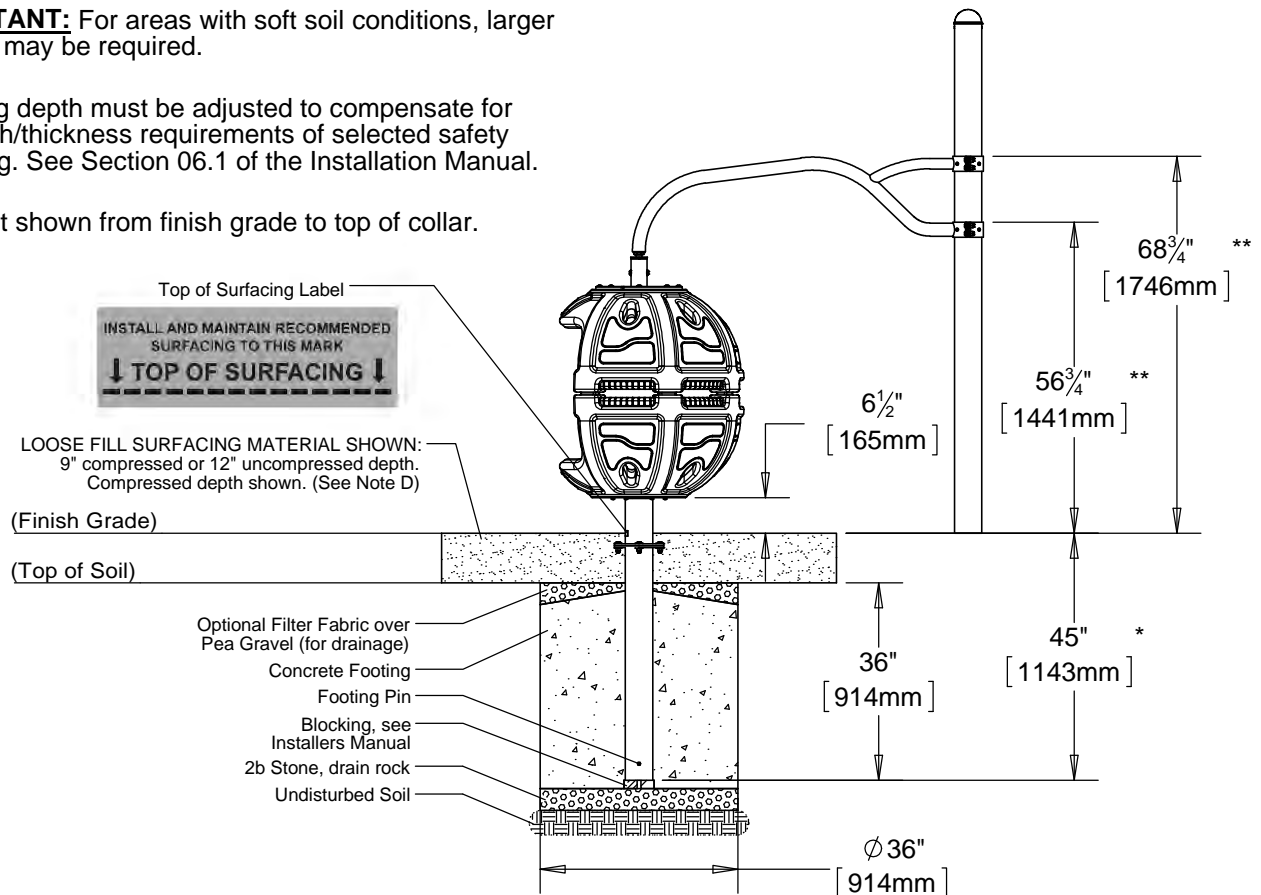


Figure 1.1

Step 2 (Factory Assembled)

Secure Rubber Washer over Ball Joint as shown in Figure 1.1

Step 3 (Factory Assembled)

Insert Double Seal Ball Bearings into Spin Max Bearing House as shown in Figure 2.

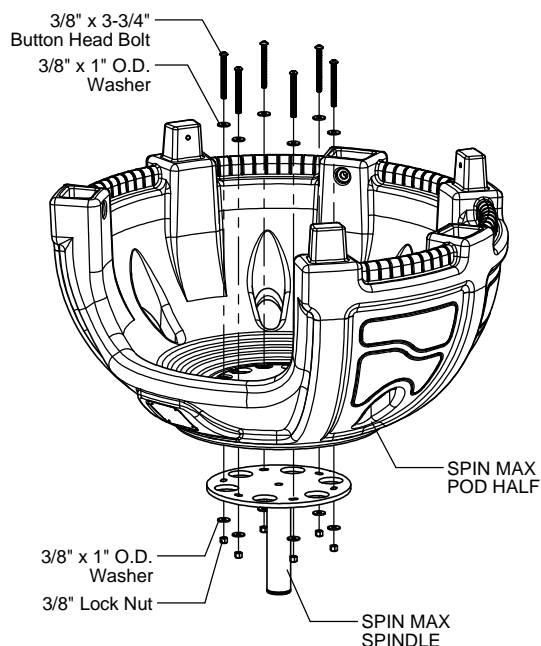


FIGURE 3

Step 5 (Factory Assembled)

Attach Spin Max Pod Half to Spin Max Bearing House as shown in Figure 4.

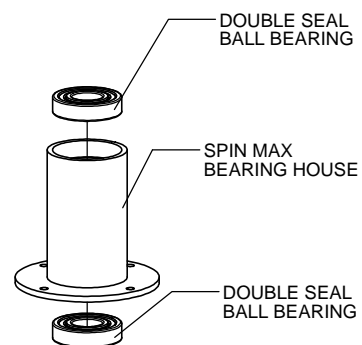


FIGURE 2

Step 4 (Factory Assembled)

Attach Spin Max Spindle to the bottom Spin Max Pod Half as shown in Figure 3. (See Note A)

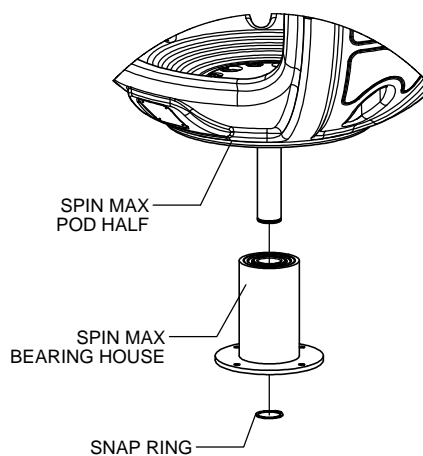


FIGURE 4

Step 6 (Factory Assembled)

Attach Spin Max Pod Hub to top Spin Max Pod Half as shown in Figure 5. (See Note A)

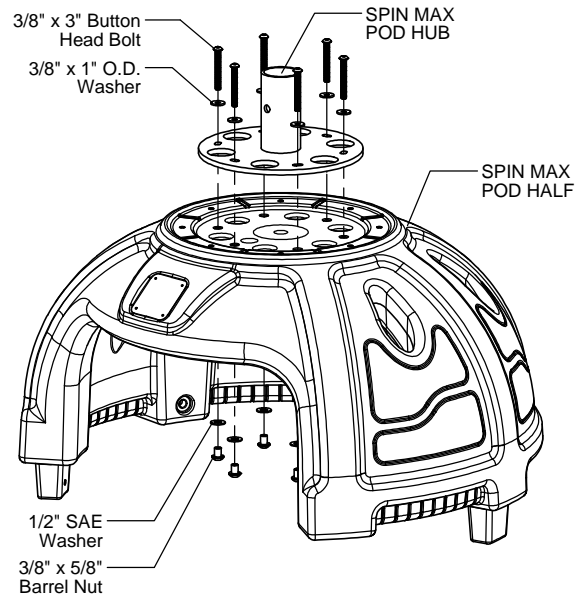


FIGURE 5

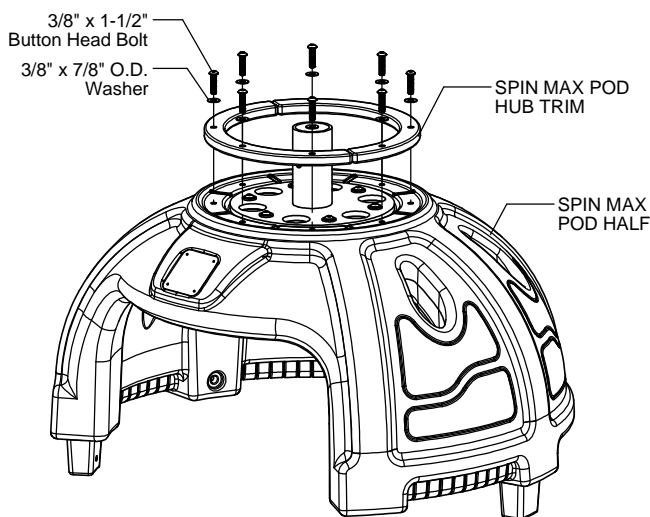


FIGURE 6

Step 8

Attach Spin Max Pod Halves together as shown in Figure 1.2. (See Note A)

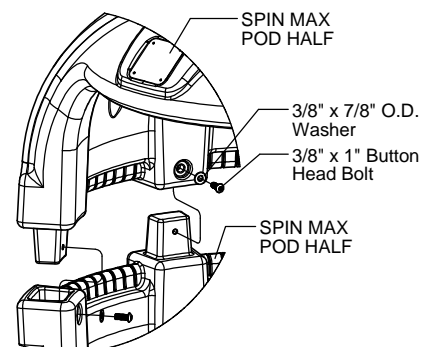


Figure 1.2

Step 9

Install footing pin into Leg as shown in Figure 7.
 (See Note A)

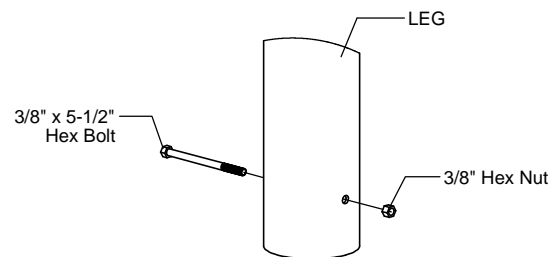


FIGURE 7

Step 10

Attach Spin Max Bearing House to Leg as shown in Figure 1.3 and place Spin Max Pod into footing hole.
 (See Notes A & B)

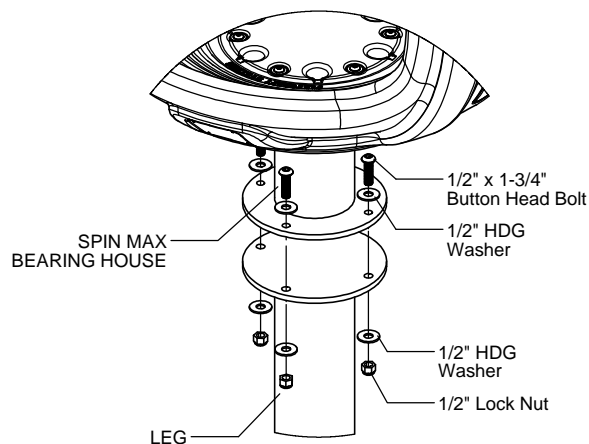


Figure 1.3

Step 11

Refer to Footing Detail for collar heights and attach Spin Max Pod Post Arm to post as shown in Figure 1.4. (See Note A)

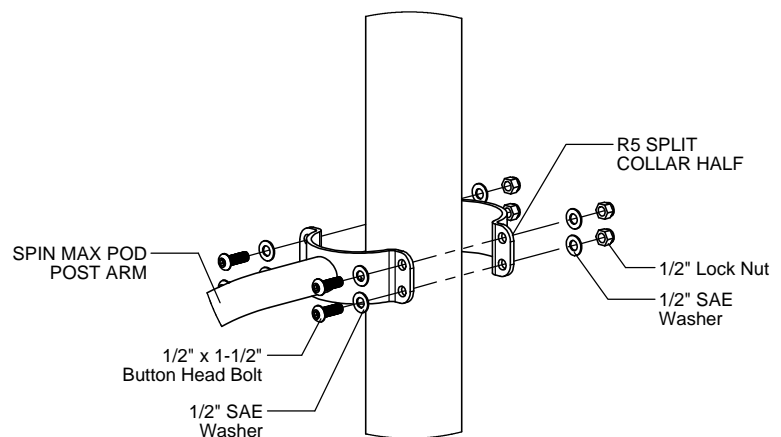


Figure 1.4

Step 12

Attach Spin Max Pod Post Arm to Spin Max Pod Hub as shown in Figure 8. (See Notes A & C)

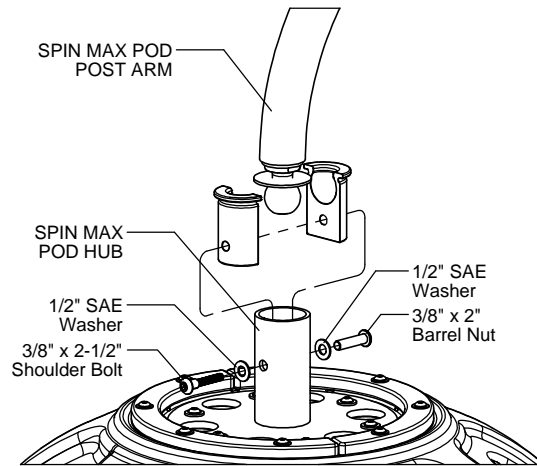


FIGURE 8

Step 13

Secure Split Collar Halves to post as shown in Figure 1.5. (See Note C)

Step 14

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 15

Plumb and level entire component. Pour concrete into footing hole. Allow at least 72 hours to cure before using this equipment. (See Note B & C)

Step 16

Affix "Top of Surfacing" label to base of Spin Max Pod indicating the top of minimum required surfacing depth as shown in Footing detail. (See Note D)

Step 17

Place required protective surfacing under and around Spin Max Pod. (See Note D)

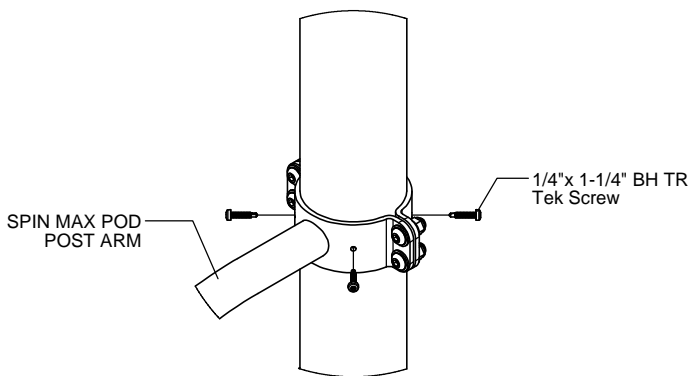


Figure 1.5

SPIN MAX POD R5 INSTALLATION INSTRUCTIONS

R5-1972
Page 7 of 7

Specifications

SPIN MAX BEARING HOUSE:

Shall be fabricated from a machined 5" O.D. steel tubing with a 1/2" wall welded to a 3/8" thick steel mounting plate. The Spin Max Bearing House shall have a multi-stage baked-on powder coat finish.

SPIN MAX POD HALF:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

SPIN MAX POD HUB:

Shall be fabricated using 2-1/4" O.D. machined steel hub with welded 3/8" thick steel plate. The Spin Max Pod Hub shall have a multi-stage baked-on powder coat finish.

SPIN MAX POD HUB TRIM:

Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV stability and color retention.

SPIN MAX POD LEG:

Shall be fabricated using 5" O.D. 7 gauge steel post with welded 3/8" thick steel mounting plate. The Spin Max Pod Leg shall have a multi-stage baked-on powder coat finish.

SPIN MAX POD POST ARM R5:

Shall be fabricated using 2.375" O.D. 11 gauge steel tubing with welded 1.900" O.D 11 gauge support, 3/16" thick steel pipe plug, 1/4" thick steel mounting brackets and stainless steel ball bearing. The Spin Max Pod Post Arm R5 shall have a multi-stage baked-on powder coat finish.

SPIN MAX POD SPINDLE:

Shall be fabricated from precision cut 3/8" thick steel plate with a welded machined steel spindle. The Spin Max Pod Spindle shall have a multi-stage baked-on powder coat finish.

BALL JOINT HALF:

Shall be made from Ultra High Molecular Weight Polyethylene for lasting durability and minimal rotational resistance.

SPLIT COLLAR HALF R5:

Shall be formed from 1/4" thick steel with a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

Part #	DESCRIPTION	QTY.
BF-7068	Split Collar Half R5	2
FS-PC2478-LEG	Spin Max Pod Leg	1
IH-0001	Ball Joint Socket Half	2
372017	Top of Surfacing Label	1
9103052-TR	Bolt Button Head 3/8" x 1"	6
9105072	Bolt Button Head 1/2" x 1-1/2"	8
9105082	Bolt Button Head 1/2" x 1-3/4"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	1
9271062-TR	Screw Tek 1/4" x 1-1/4" BH TR	8
9315003	Washer Cut 1/2" HDG	8
9333042	Washer Flat 3/8" x 7/8" O.D.	6
9345002	Washer Flat SAE 1/2"	18
9415132	Nut Lock 1/2"	12
9443092-TR	Nut Barrel 3/8" x 2" BH	1
9483602	Nut Hex 3/8"	1

Assembled Parts List

Part #	DESCRIPTION	QTY.
DE-0068	Spin Max Pod Half	2
EE-0460	Spin Max Pod Hub Trim	2
FS-1972	Spin Max Pod Hub	1
FS-1972-R5	Spin Max Pod Post Arm R5	1
FS-PC2476-BHS	Spin Max Bearing House	1
FS-PC2478	Spin Max Pod Spindle	1
480320	External Snap Ring	1
481631	Double Seal Ball Bearing	2
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103132-TR	Bolt Button Head 3/8" x 3"	6
9103162-TR	Bolt Button Head 3/8" x 3-3/4"	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	18
9333042	Washer Flat 3/8" x 7/8" O.D.	8
9345002	Washer Flat SAE 1/2"	6
9380130	Washer Rubber AR 1" x 3" O.D.	1
9413002	Nut Lock 3/8"	6
9443022-TR	Nut Barrel 3/8" x 5/8" BH	6

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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WEXFORD PARK

MANUFACTURER'S PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

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PROVIDING FUN ACROSS WISCONSIN SINCE 1995



VIEW A

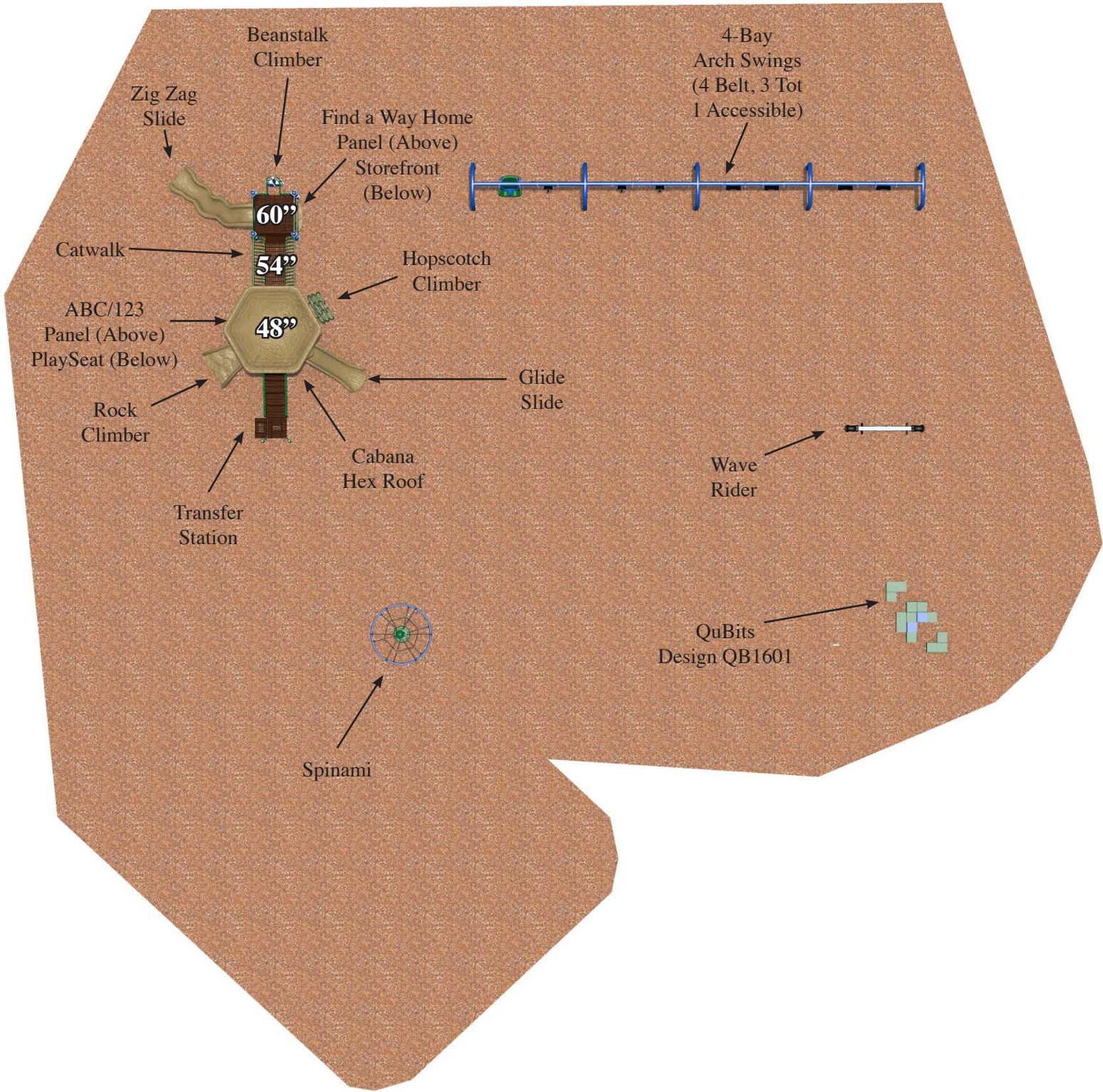


VIEW B

WEXFORD PARK

MADISON, WI

OPTION #1



(800) 775-8937 Main
(608) 423-7655 Fax
260 W. Main St.
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

Design Number: PW012017

Use Zone:

of Users: 66

of Active Play Events: 25

Age: 2 to 5 & 5 to 12

Colors Shown:



Blue



Brownstone



Green





Assembly View *(representative model)*

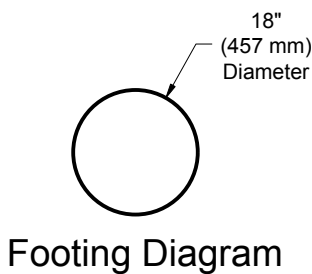
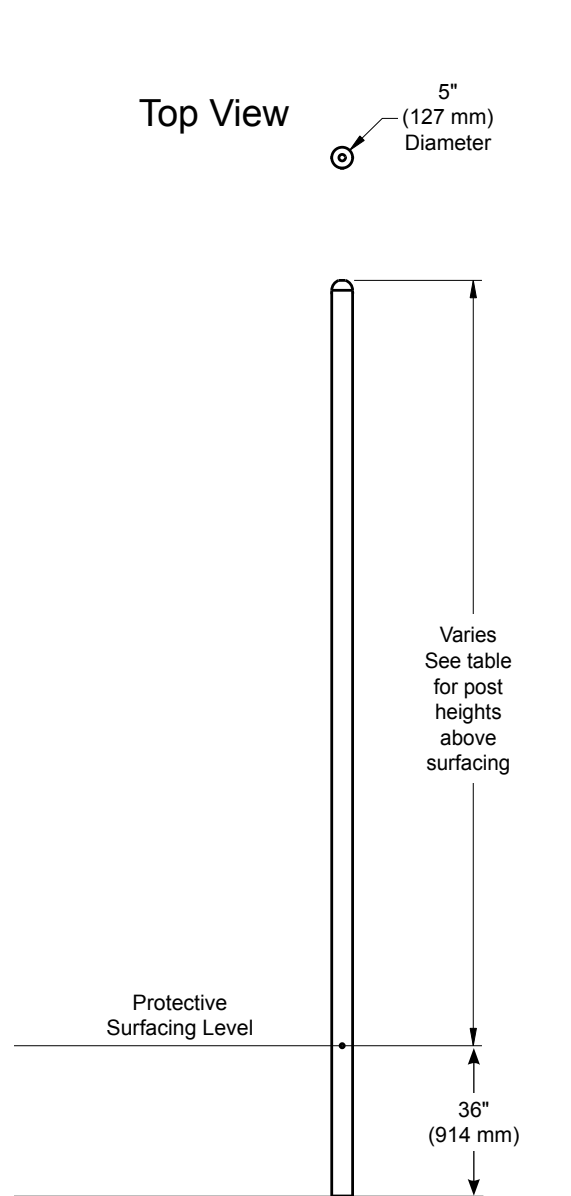
Installation Instructions

Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions



Model	Post Height	Height Above Surfacing
ZZPM0006A	96" (2438 mm)	60" (1524 mm)
ZZPM0008A	108" (2743 mm)	72" (1829 mm)
ZZPM0016A	120" (3048 mm)	84" (2134 mm)
ZZPM0026A	132" (3353 mm)	96" (2438 mm)
ZZPM0036A	144" (3658 mm)	108" (2743 mm)
ZZPM0046A	156" (3962 mm)	120" (3048 mm)
ZZPM0056A	168" (4267 mm)	132" (3353 mm)
ZZPM0066A	180" (4623 mm)	144" (3658 mm)
ZZPM0078A	205" (5207 mm)	169" (4293 mm)
ZZPM0128A	192" (4877 mm)	156" (3962 mm)
ZZPM0266A	217" (5512 mm)	181" (4597 mm)
ZZPM0268A	229" (5817 mm)	193" (4902 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1





Assembly View *(representative model)*

Installation Instructions

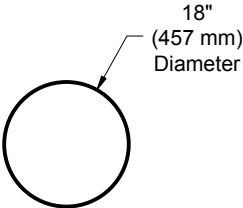
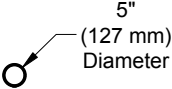
Playmakers® Models PM0017A, PM0027A, PM0037A,
PM0047A, PM0057A, PM0067A, PM0079A, PM0129A,
PM0136A, PM0138A, PM0267A, PM0269A
Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

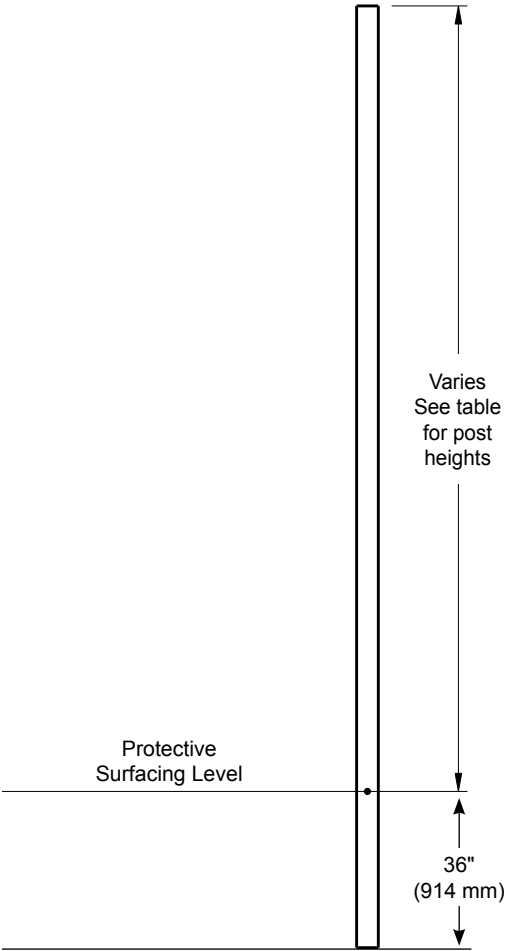
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0017A	120" (3048 mm)	84" (2134 mm)
ZZPM0027A	132" (3353 mm)	96" (2438 mm)
ZZPM0037A	144" (3658 mm)	108" (2743 mm)
ZZPM0047A	156" (3962 mm)	120" (3048 mm)
ZZPM0057A	168" (4267 mm)	132" (3353 mm)
ZZPM0067A	180" (4572 mm)	144" (3658 mm)
ZZPM0079A	205" (5207 mm)	169" (4293 mm)
ZZPM0129A	192" (4877 mm)	156" (3962 mm)
ZZPM0136A	96" (2438 mm)	60" (1524 mm)
ZZPM0138A	108" (2743 mm)	72" (1829 mm)
ZZPM0267A	217" (5512 mm)	181" (4597 mm)
ZZPM0269A	229" (5817 mm)	193" (4902 mm)



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details** in the *Playmakers Guidelines*.

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.

Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

Step 5: Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1



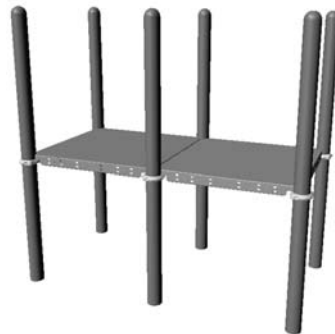
Installation Instructions

Playmakers® PM0616 and PM0629

Square and Long Coated Perforated Decks



ZZPM0616
Square Deck



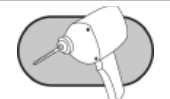
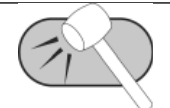

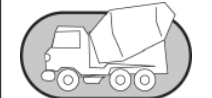

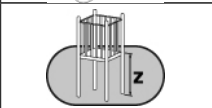


ZZPM0629
Long Deck

Assembly View

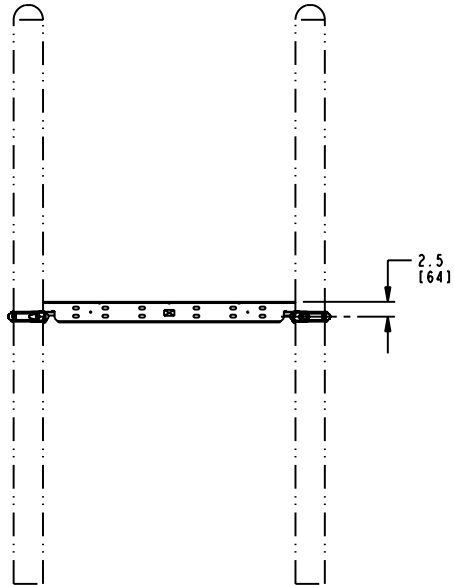
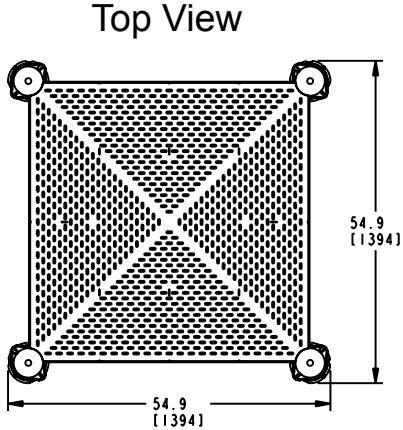
Installation Preparation

Recommended Crew (PM0616):..... Two (2) adults
 Recommended Crew (PM0629):..... Four (4) adults
 Installation Time (PM0616): 1 man-hour
 Installation Time (PM0629): 2 man-hours
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

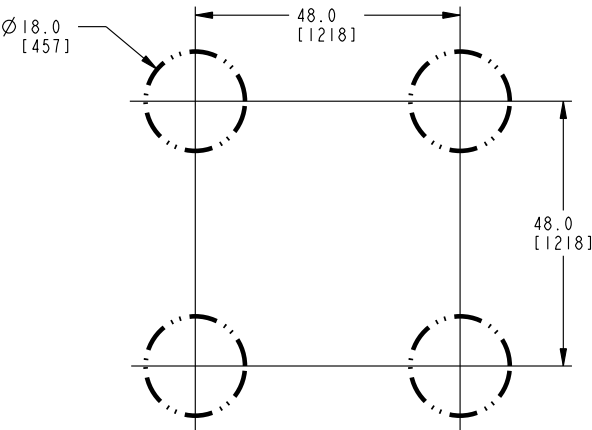
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

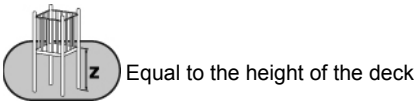
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Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

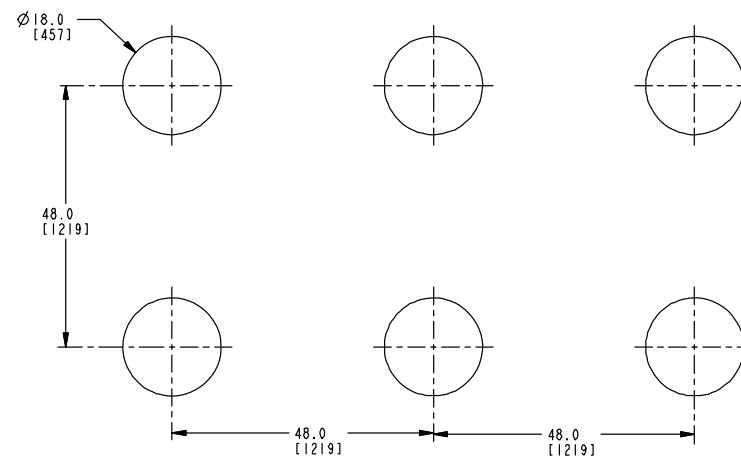
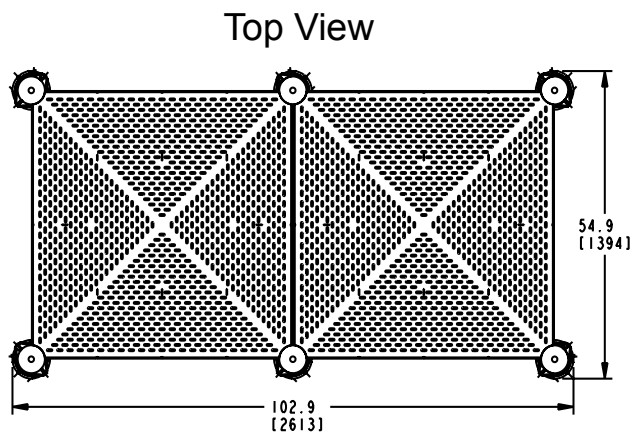


Footing Diagram

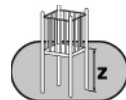
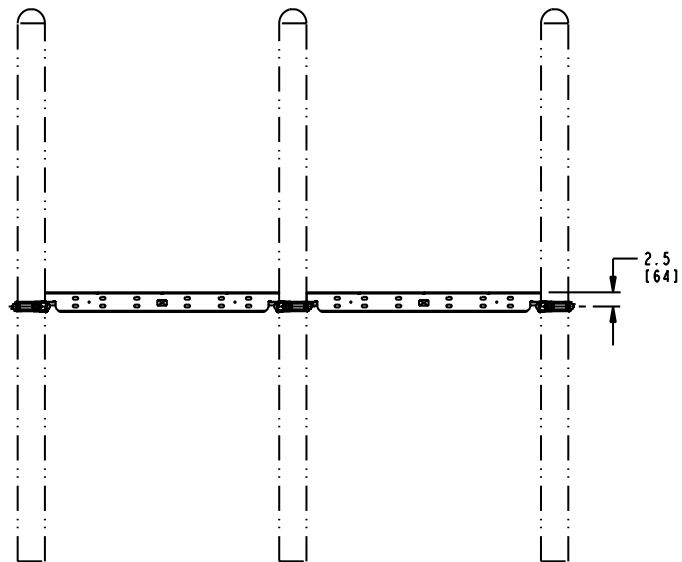


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



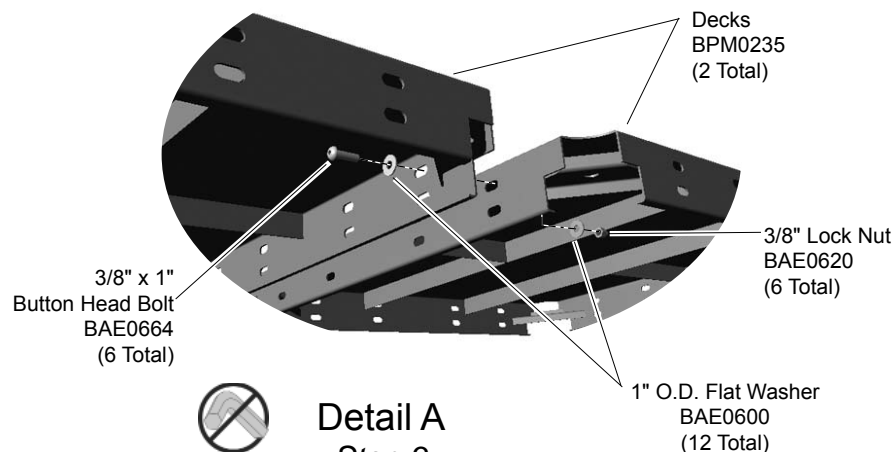
Equal to the height of the deck

Elevation View
Model PM0629



Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

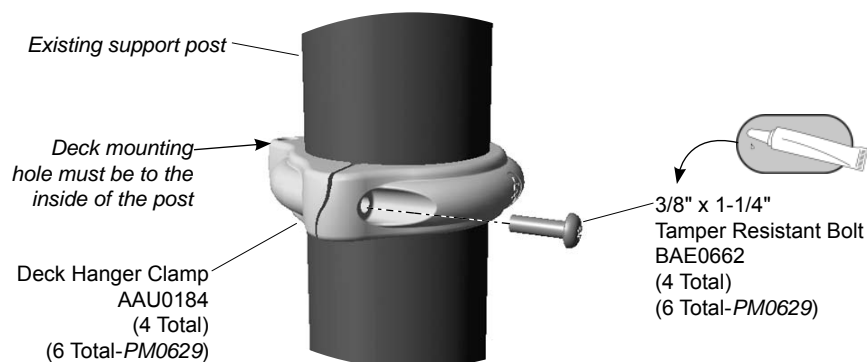


Detail A

Step 3

(Model PM0629 Only)

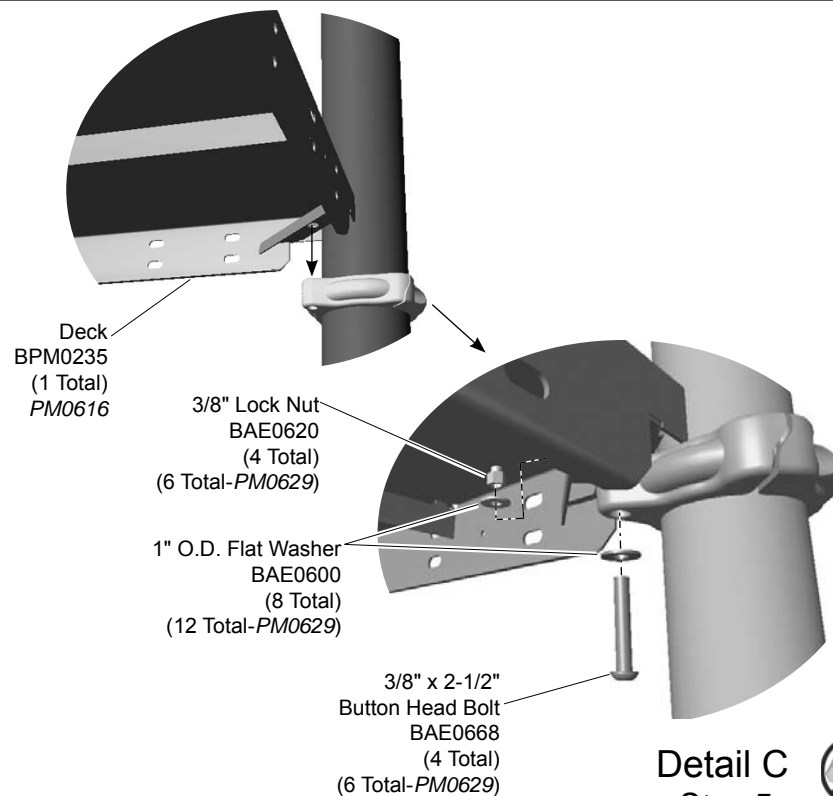
Attach the two decks together.



Detail B

Step 4

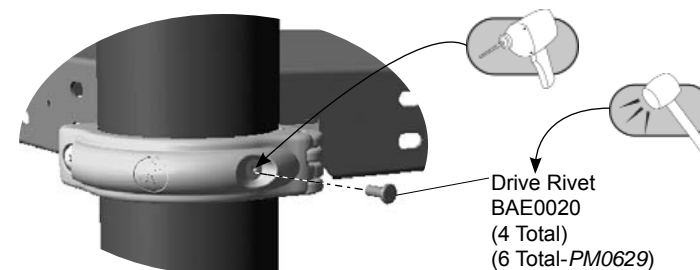
Attach the deck clamps to the support posts.



Detail C

Step 5

Attach the decks to the clamps.



Detail D

Step 7

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks.*

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A.** Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B.** Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. **See Detail C.** Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. **See Detail D.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0235	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2



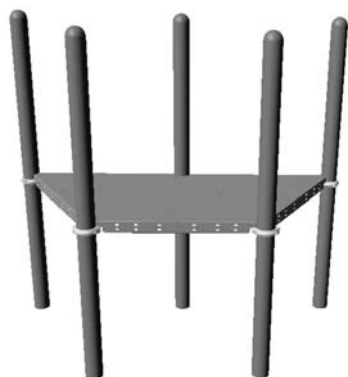
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www.playworldsystems.com

Installation Instructions

Playmakers® PM0618 and PM0619

Half Hex and Hex Coated, Perforated Deck



ZZPM0618
Half Hex Deck






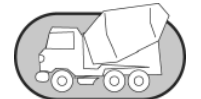
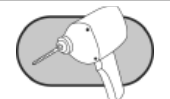

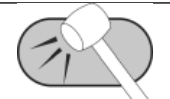
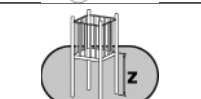
ZZPM0619
Hex Deck

Assembly View

Installation Preparation

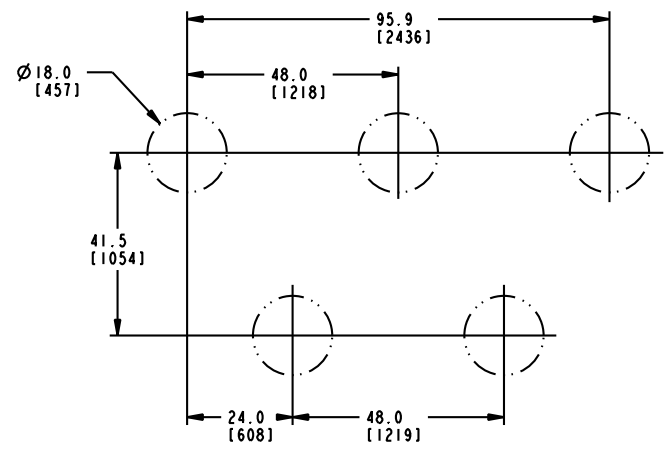
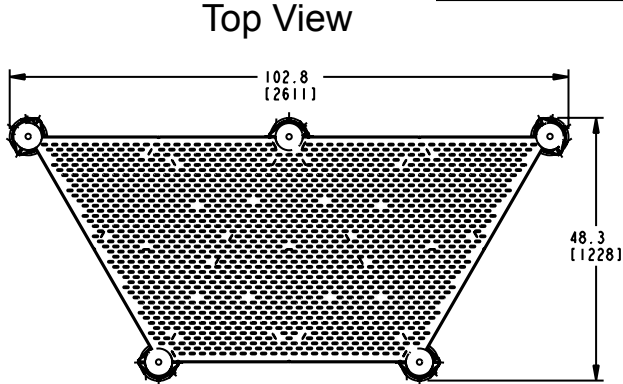
Recommended Crew: Four (4) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

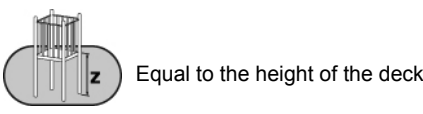
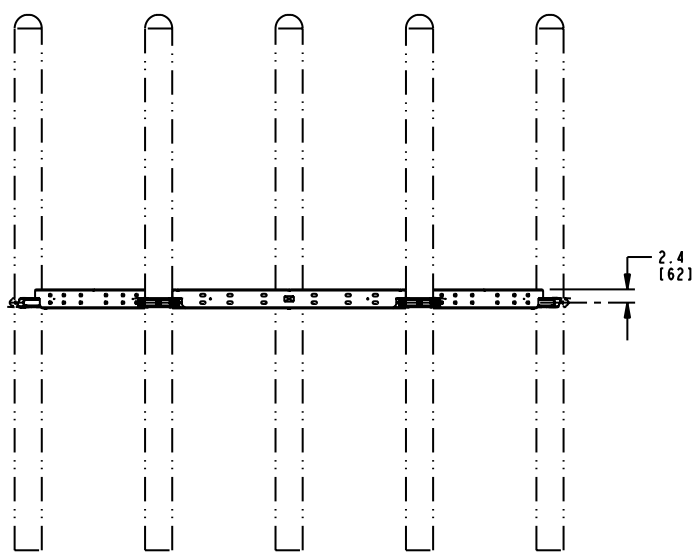
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

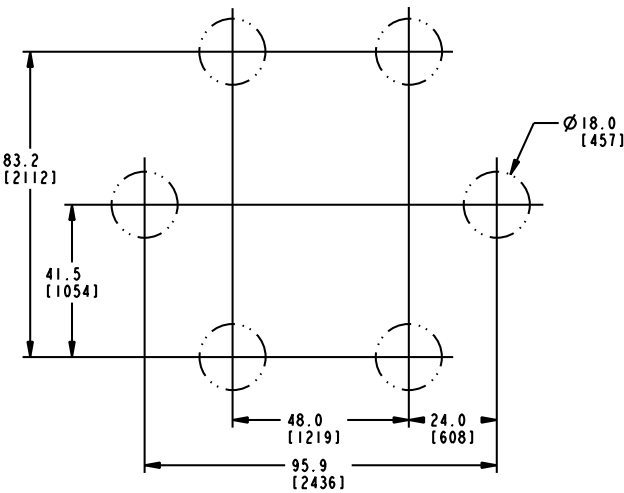
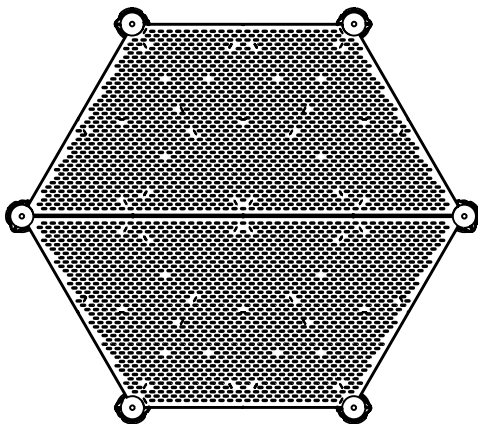


Elevation View
PM0618

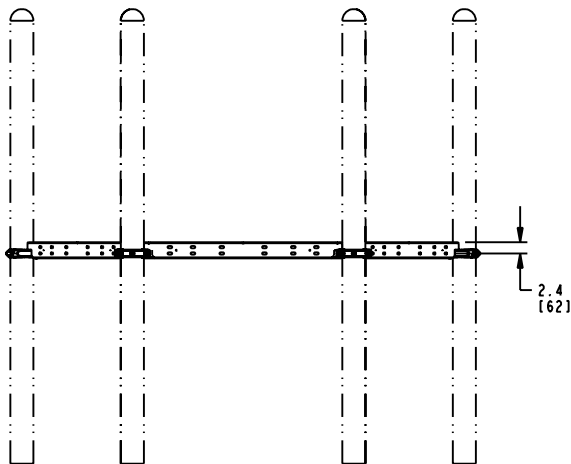
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

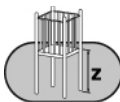
Top View



Footing Diagram



Elevation View
PM0619

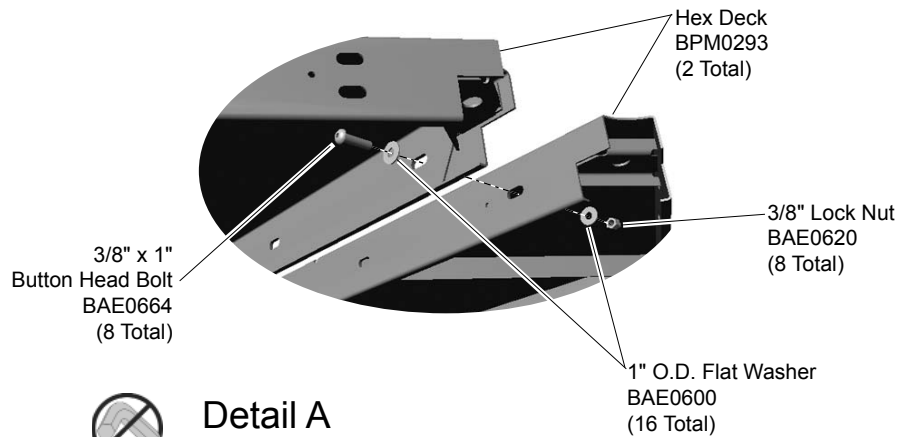


Equal to the height of the deck



Installation Instructions

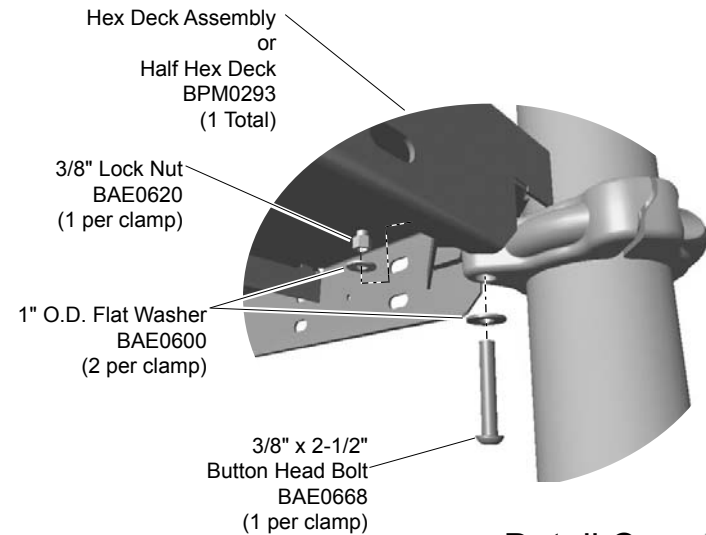
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 3

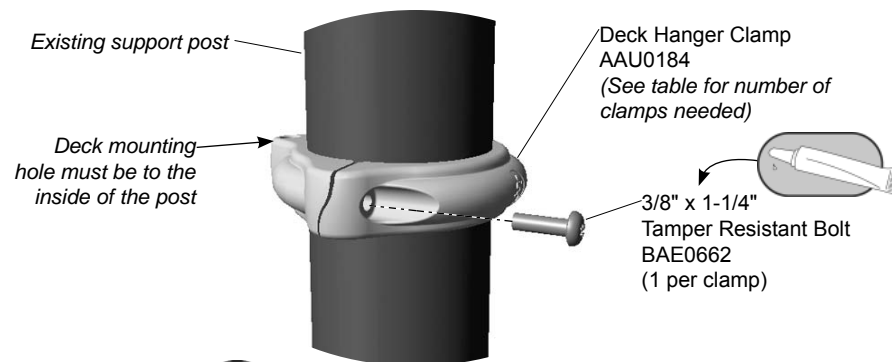
(Model PM0619 Only)

Attach the hex decks together.



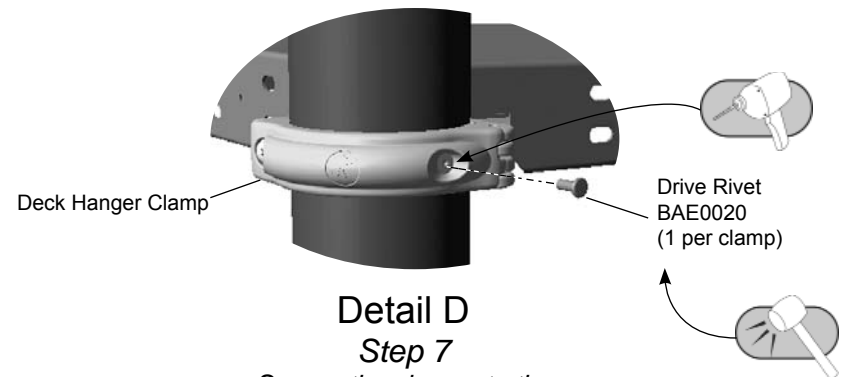
Detail C Step 5

Attach the deck to the deck hanger clamps.



Detail B Step 4

Attach the deck hanger clamps to the support posts.



Detail D Step 7

Secure the clamps to the support posts.

Model	Deck Shape	Deck Part Number	Number of Clamps
ZZPM0618	Half Hex Deck	BPM0292	5
ZZPM0619	Hex Deck	BPM0293	6

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Note: It is recommended that (4-5) four to five adults lift the assembled deck into place.

Attach the decks together.

Step 3: Attach the decks together (*Model PM6019 only*). See **Detail A**. Orient the long side of the decks flush together and attach as shown.

Step 4: Attach the clamps to the support posts. See **Detail B**. Position the deck clamps on the support posts so that the top of the clamp is 1-3/4 in. (43 mm) below the suggested deck height. Ensure deck mount portion of the clamp points inward from the post. Apply a drop of loctite to the bolt threads and attach as shown.

Step 5: Attach the hex deck assembly or the half hex deck to the clamps. See **Detail C**. With adequate manpower, lift the deck onto the clamps, align the holes in the deck with those in the clamps and attach as shown.

Note: For the hex deck assembly each deck must be attached to (3) three clamps.

Final Details.

Step 6: Square and level the support posts and deck assembly. Check to ensure deck assembly is at the specified height above the surfacing material level. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0618 - HALF HEX COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	5
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	5
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	5
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	5
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	5
BPM0292	PLATFORM - PM HALF HEX PERF	1

PM0619 - HEX COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0293	PLATFORM - PM HEX PERF	2



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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM2027 and PM2027S

48 in. (1219 mm) Transfer Station

In-Ground and Surface Mount

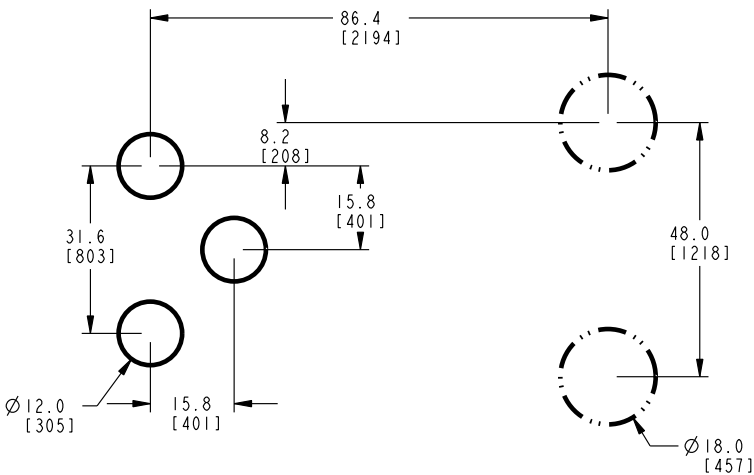
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (In-Ground): 3 man-hours
 Installation Time (Surface Mount): 1.5 man-hours
 Concrete Required: 0.09 cubic yard (0,07 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

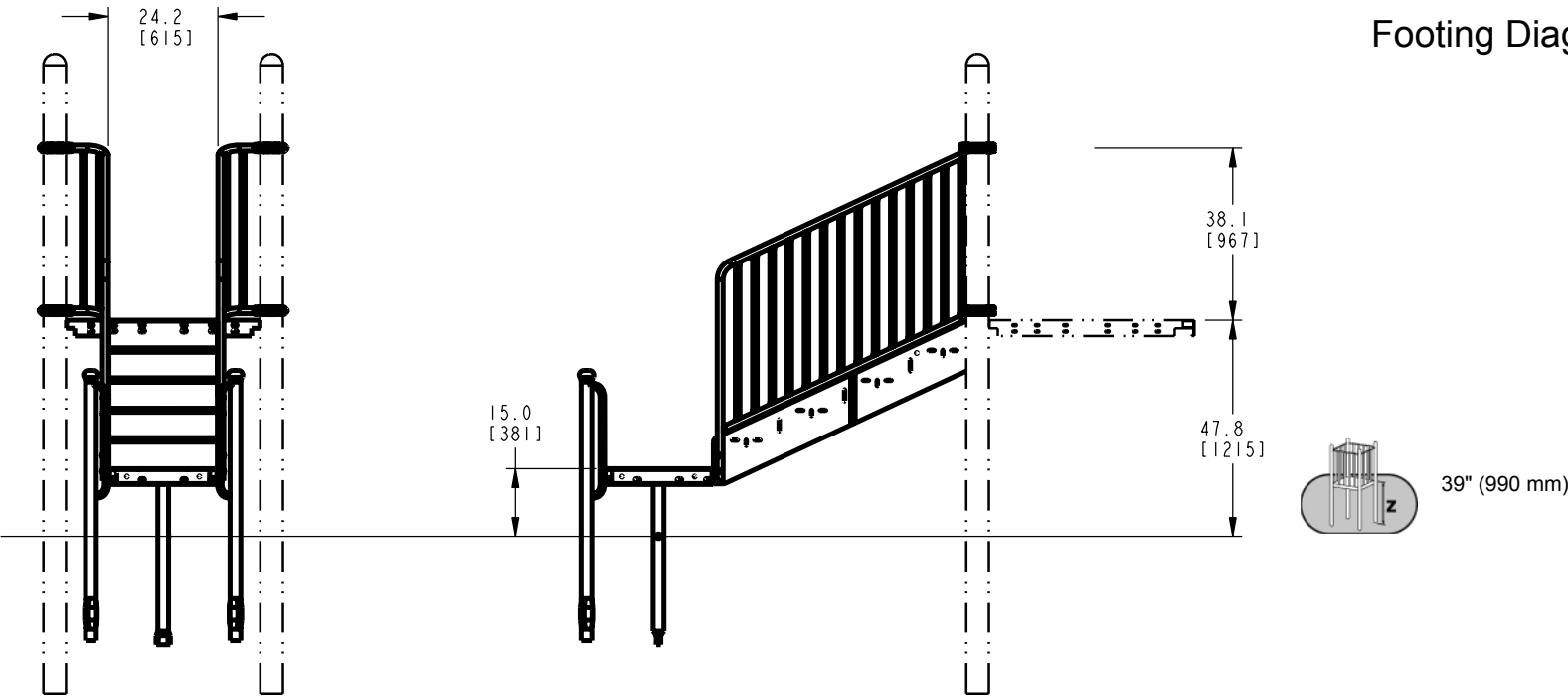
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



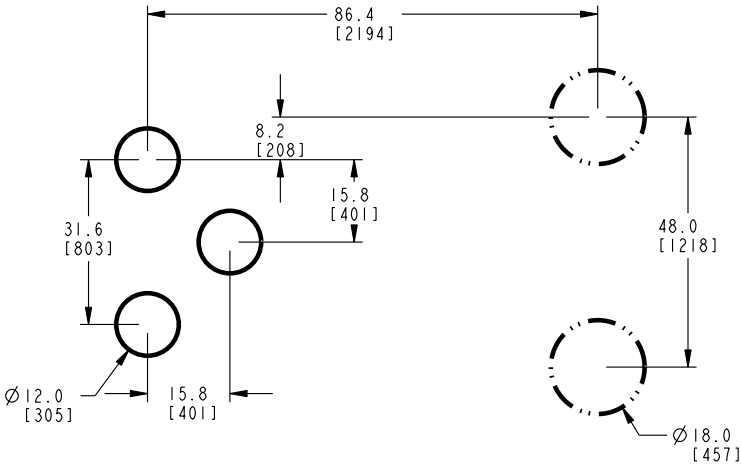
Footing Diagram



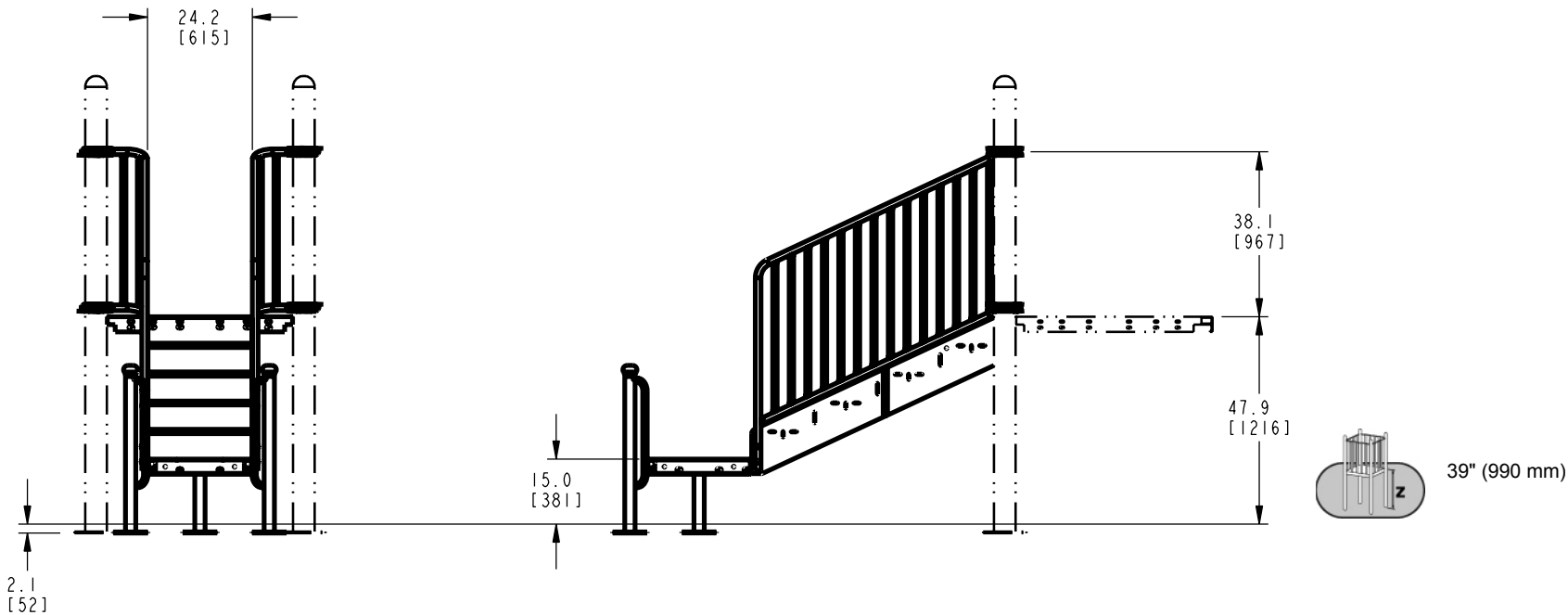
Elevation Views
PM2027

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

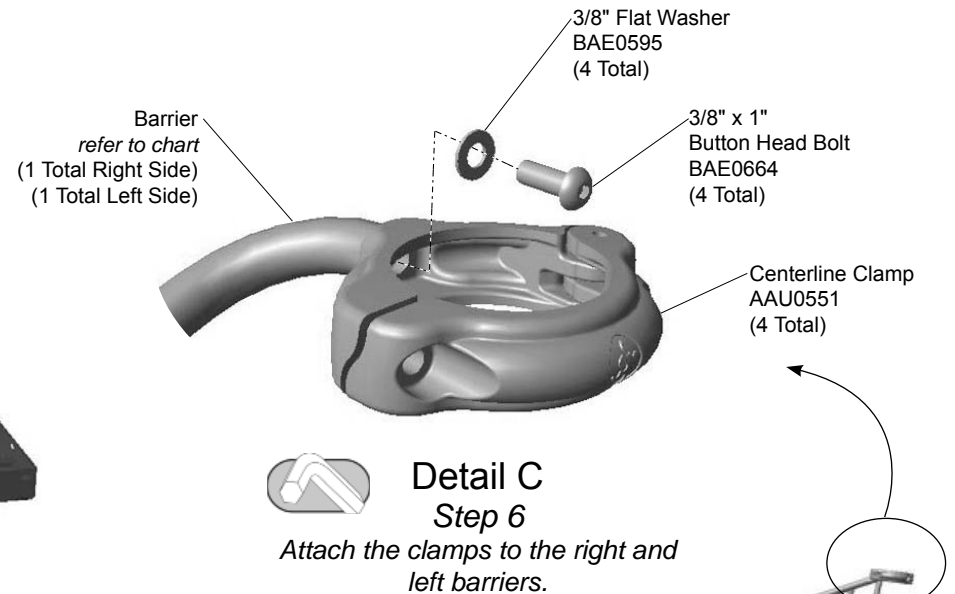
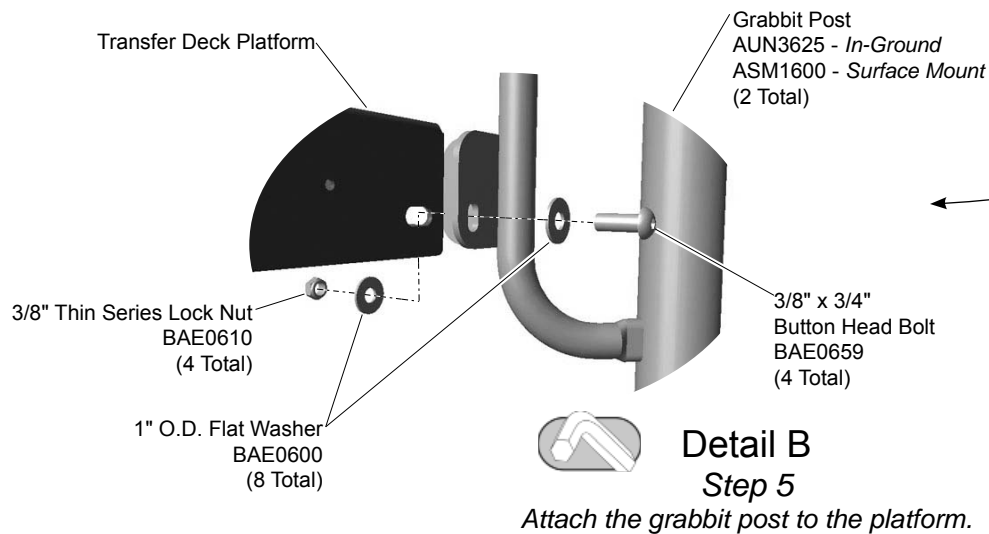
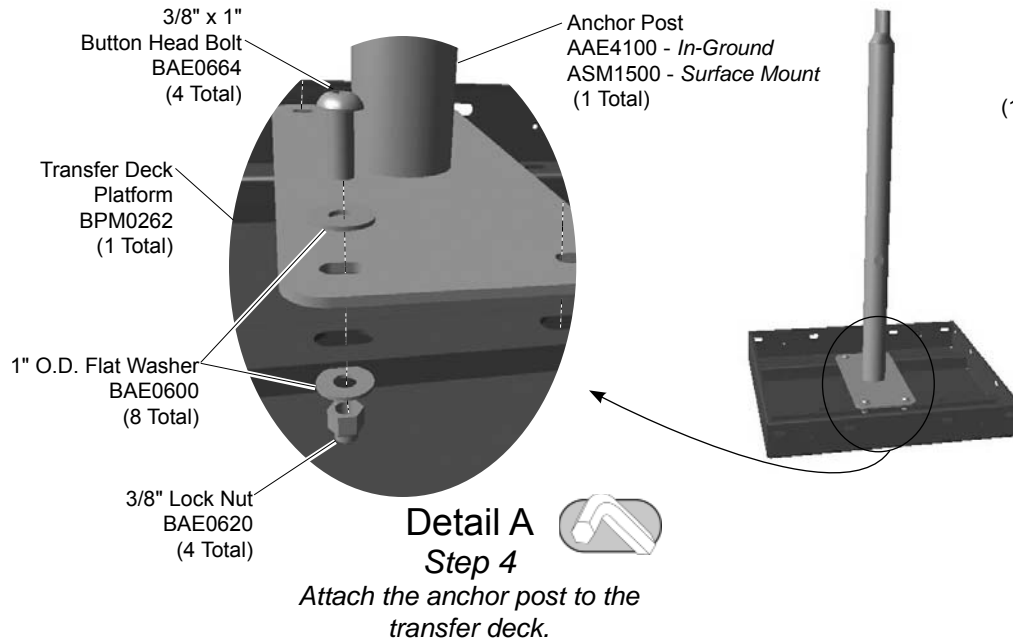


Elevation Views
PM2027S



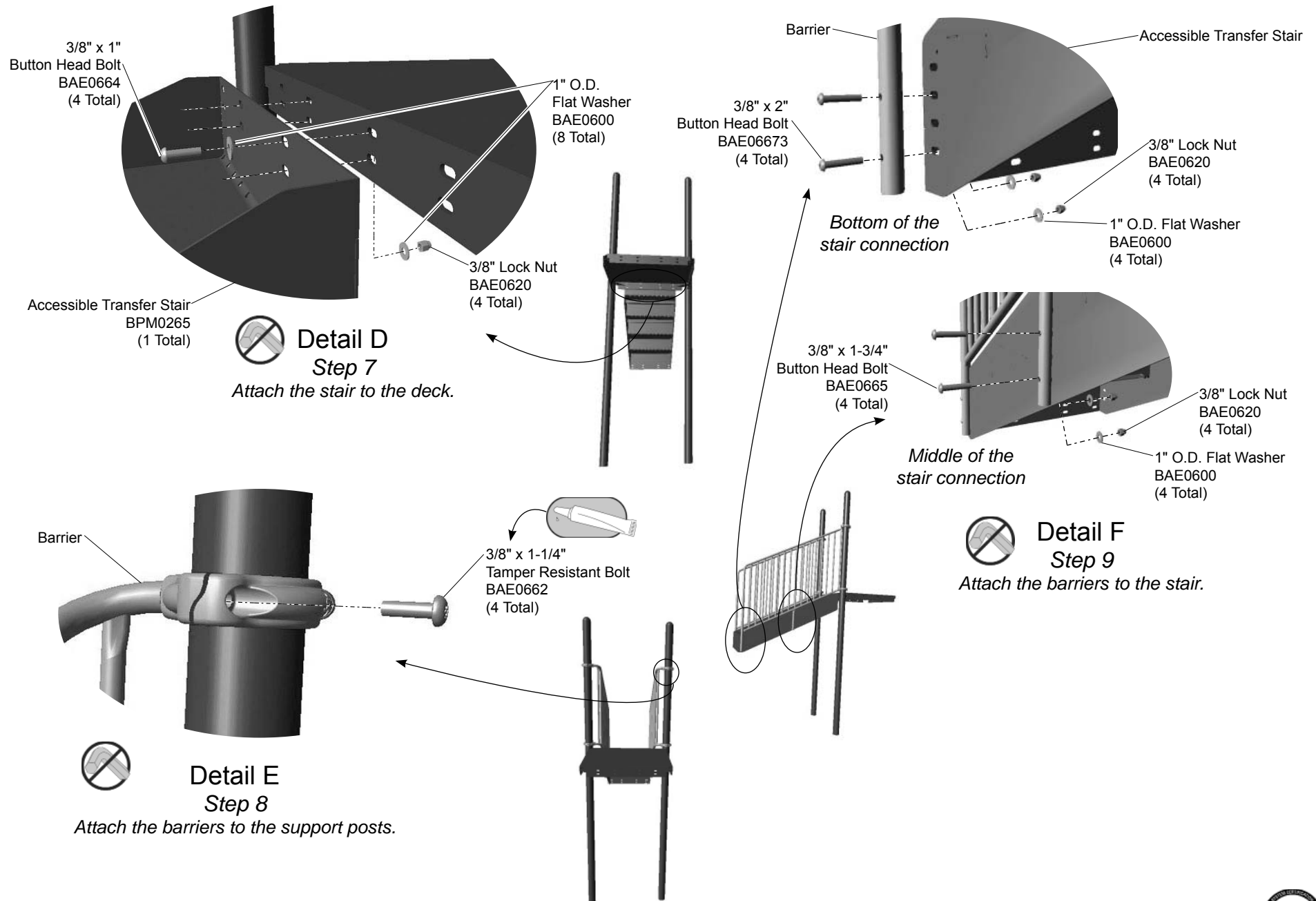
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

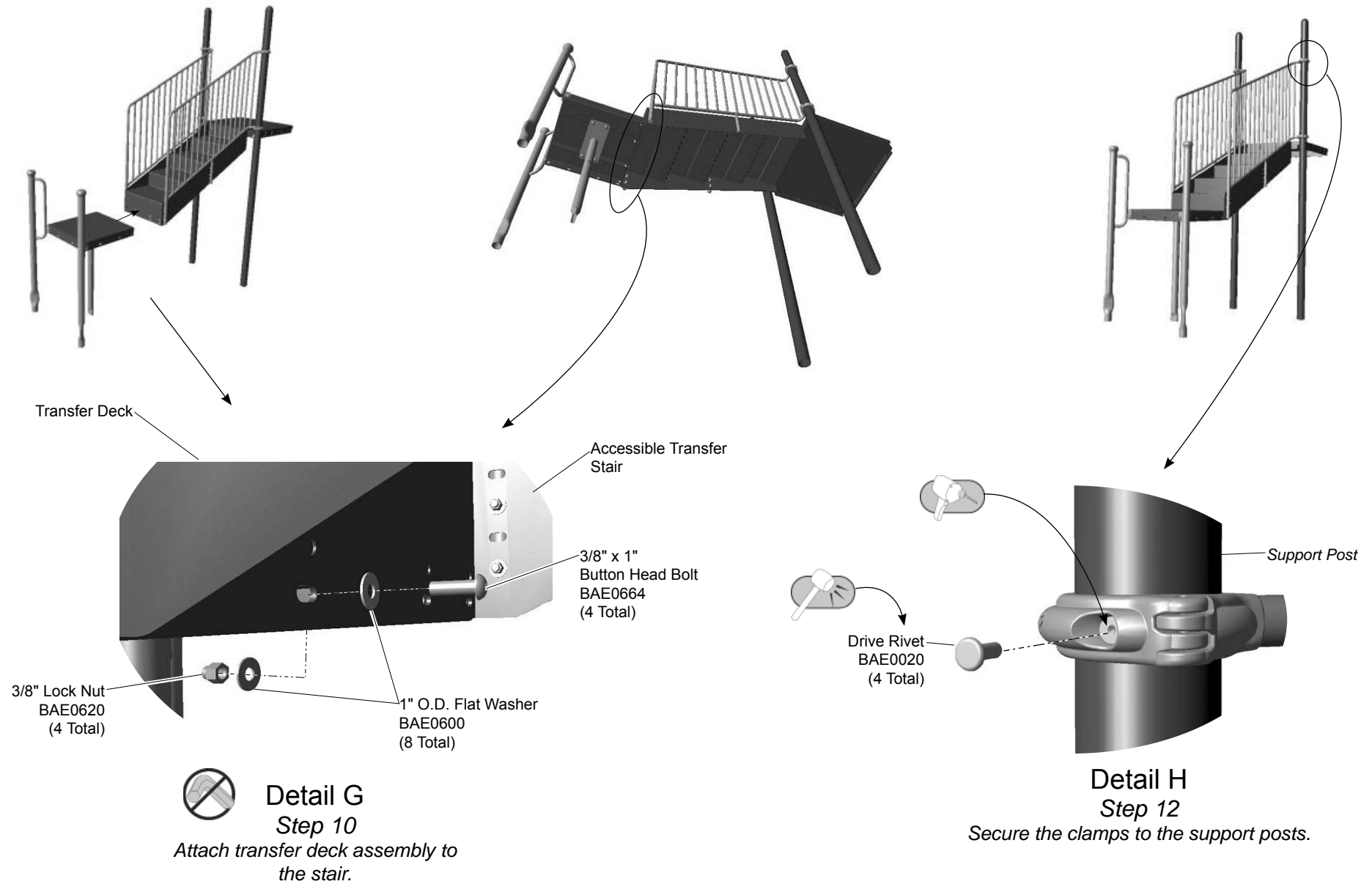


Part Number	Side	Barrier Part Number
ZZPM2027	Left	AEN0165
ZZPM2027	Right	AEN0164
ZZPM2027S	Left	AEN0165
ZZPM2027S	Right	AEN0164

Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

Attach the anchor post to the transfer deck.

Step 4: Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbites to transfer deck.

Step 5: Attach grabbites to transfer deck. See **Detail B**. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the barriers.

Step 6: Attach the clamps to barriers. See **Detail C**. Position the end of each barrier top and bottom rail against the neck of a clamp and attach as shown.

Attach the stairs to existing support deck.

Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.

Step 7: Attach the stairs to existing support deck. See **Detail D**. Center stair on the side of the deck and align the upper holes. Attach as shown.

Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.

Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach barriers to the support posts.

Step 8: Attach barriers to the support posts. See **Detail E** and Elevation View. Lift each barrier into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach barriers to the stair.

The barriers can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both barriers should be mounted at the same height.

Step 9: Attach the barriers to the bottom and middle of the stair. See **Detail F**. Align the barrier holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.

Step 10: Attach transfer deck assembly to the stair. See **Detail G**. Place the transfer deck assembly into, or onto, the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Installation Instructions

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM2027 - 48 in. (1219 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
AUN3625	POST - 59.81" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16 X 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACSBLE COATED TRANSFER	1

ZZPM2027S - 48 in. (1219 mm) TRANSFER STATION SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AEN0164	BARRIER - 48" TRANSFER STATION (RIGHT)	1
AEN0165	BARRIER - 48" TRANSFER STATION (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38.69" GRABBIT SURFACE MOUNT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK	1
BPM0265	STAIR - 33" ACCESSIBLE COATED TRANSFER	1



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Assembly View




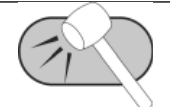

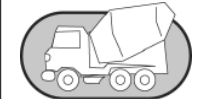

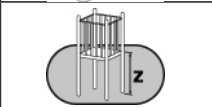
Installation Instructions

Universal Model UN2019

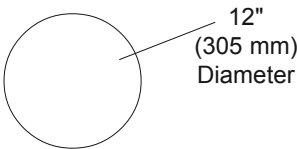
Platform Approach Step

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

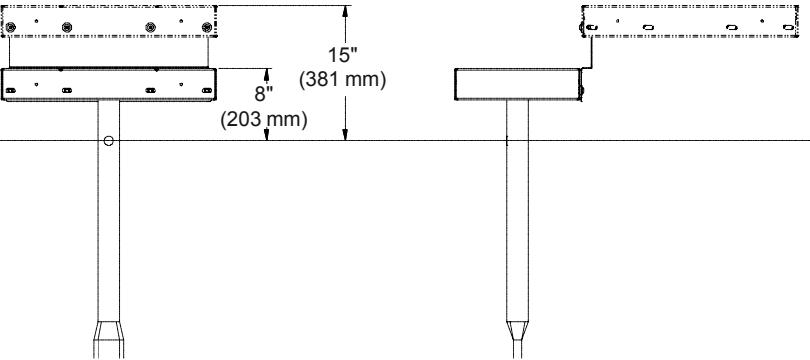
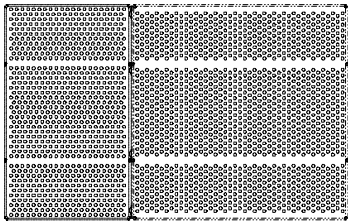
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

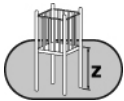


Footing Diagram

Top View



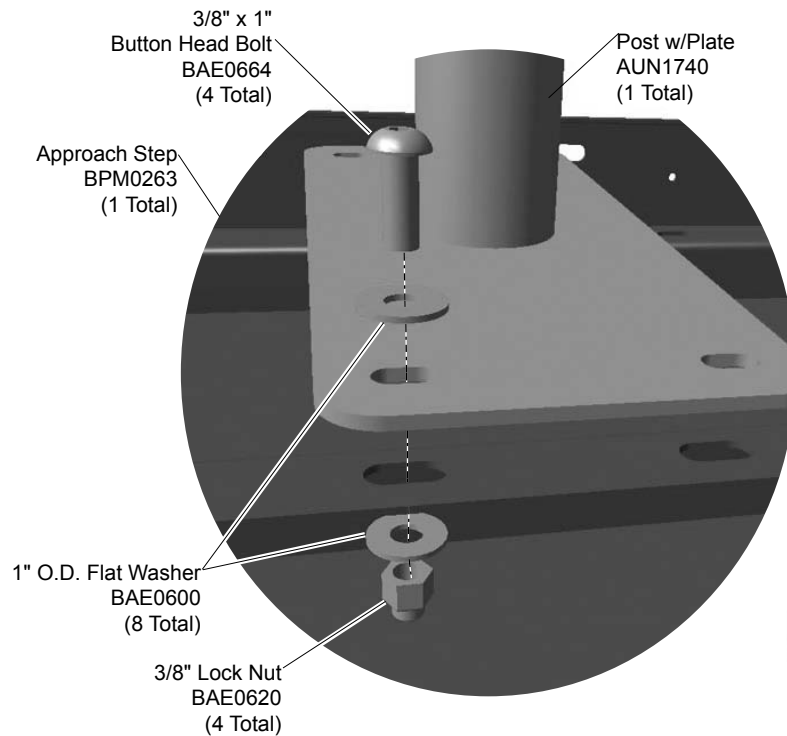
Elevation Views



15" (381 mm)

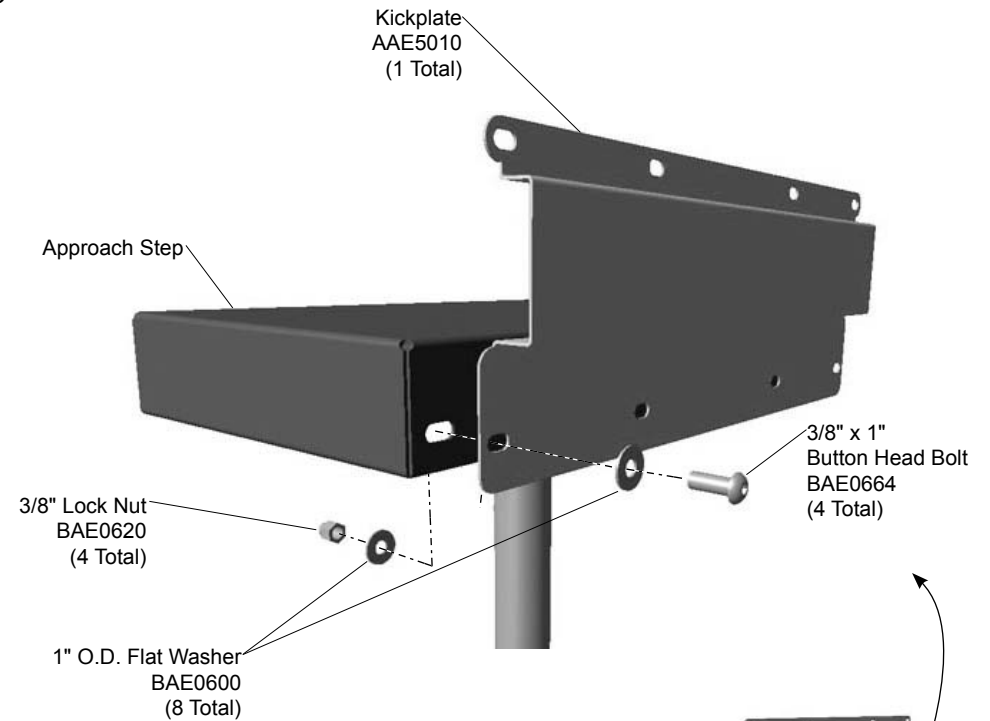
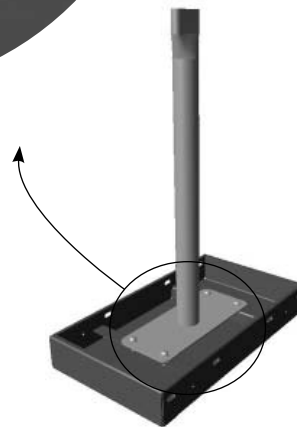
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A Step 4

Attach the anchor post to the approach step.

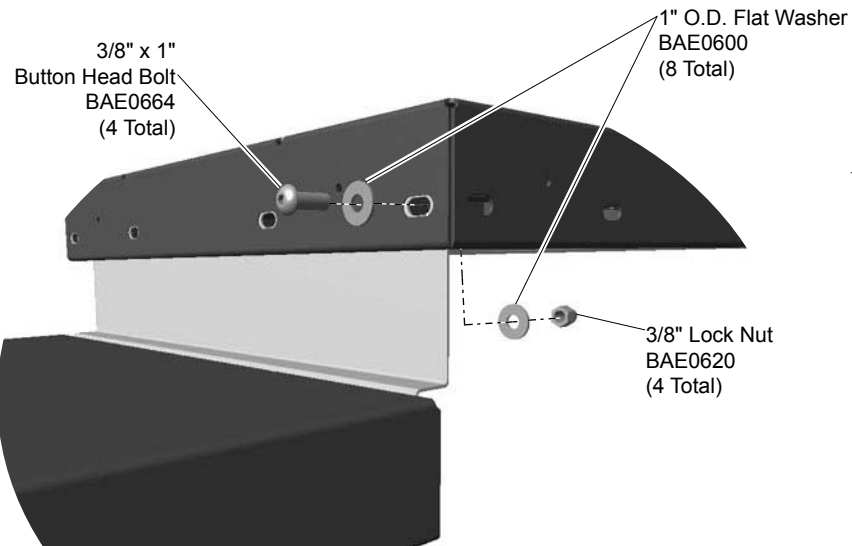
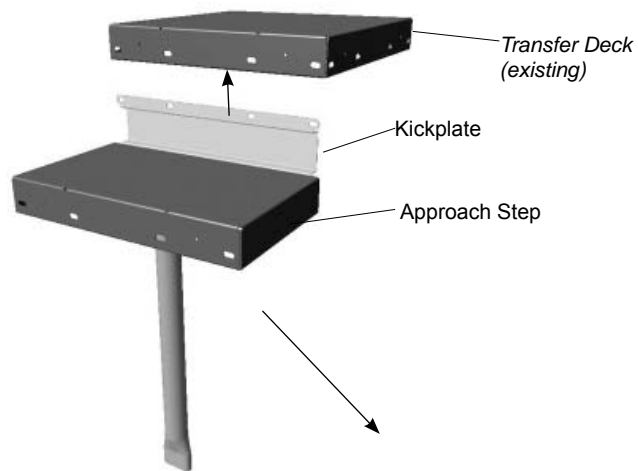


Detail B Step 5

Attach the kickplate to the approach step.

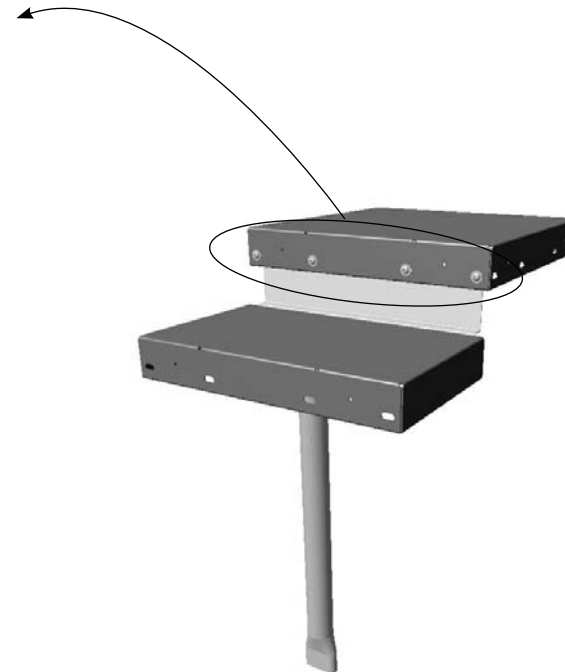


Installation Instructions



Step 6

Attach the kickplate to the transfer deck.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

Step 4: Attach the support leg to the approach step. See **Detail A**. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

Step 5: Attach the kickplate to the approach step. See **Detail B**. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1


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Assembly View




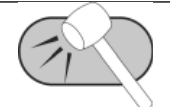

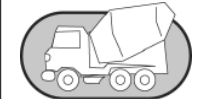

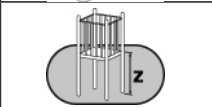
Installation Instructions

Playmakers[®] Model PM2805

Entry Support Bracket

Installation Preparation

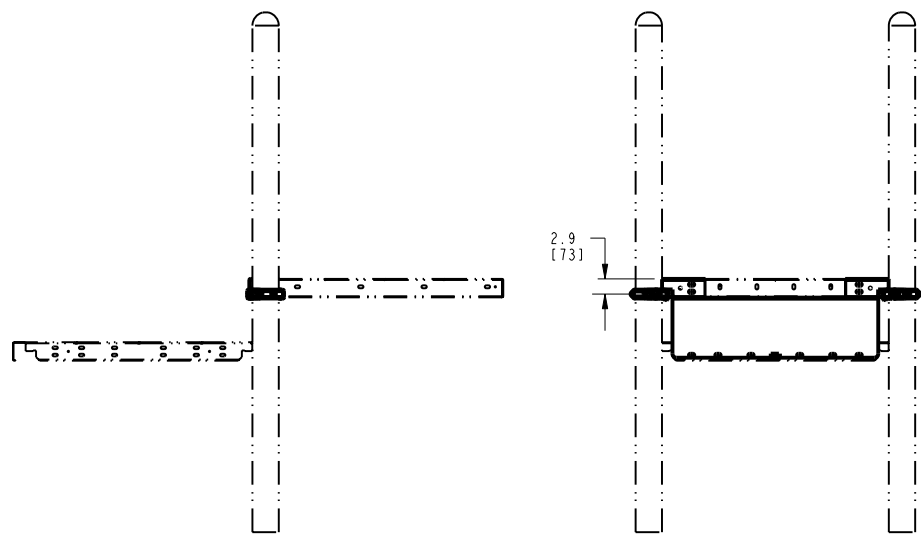
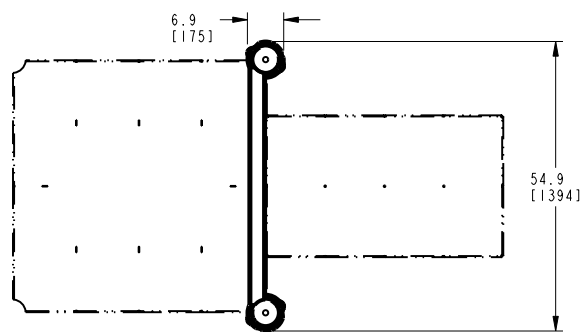
Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

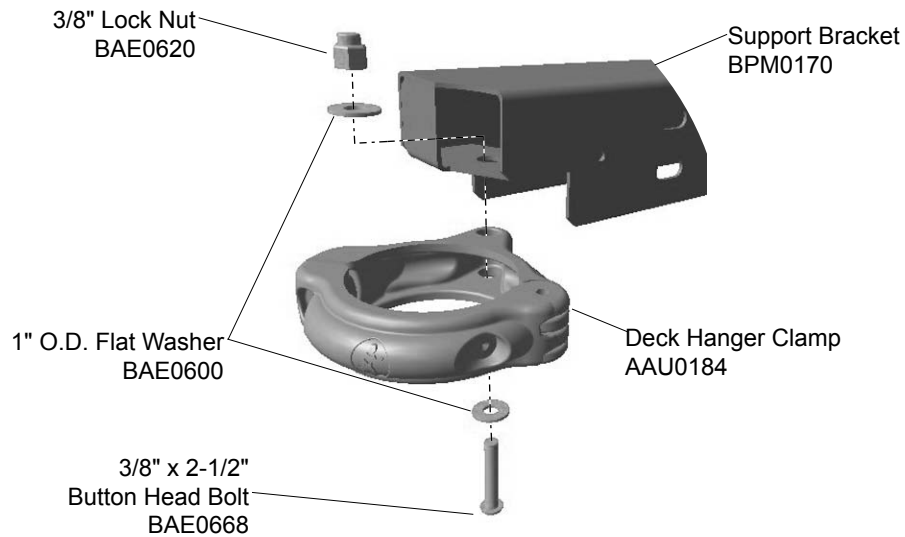
Top View



Elevation Views

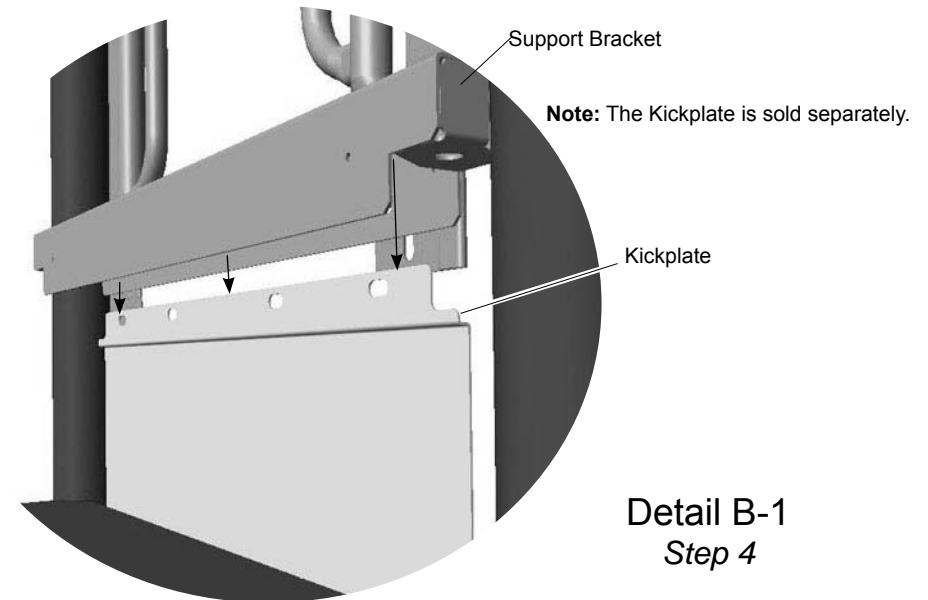
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

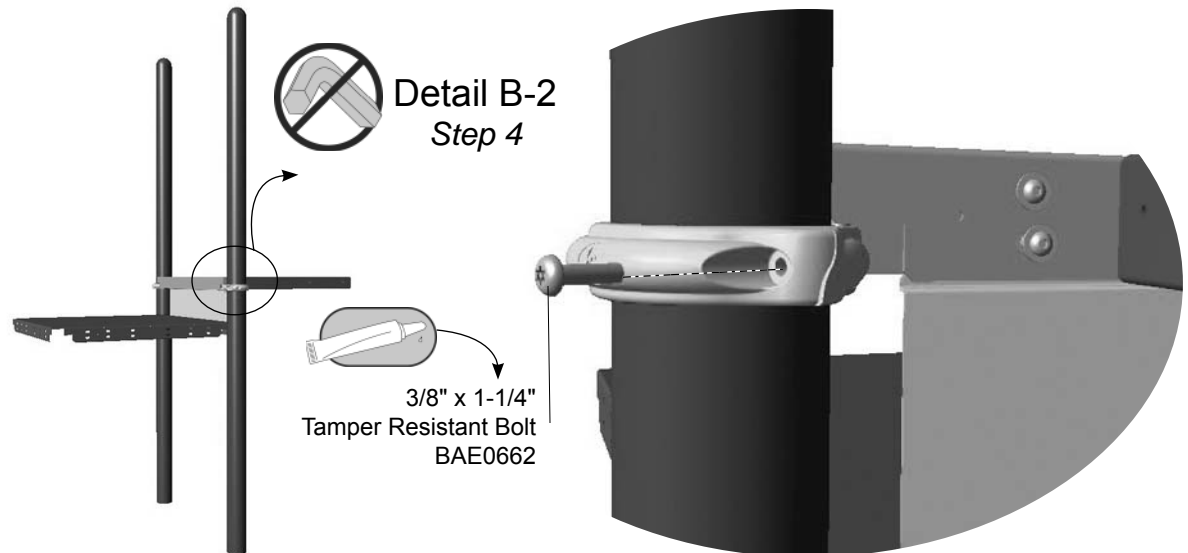


Detail A
Step 3

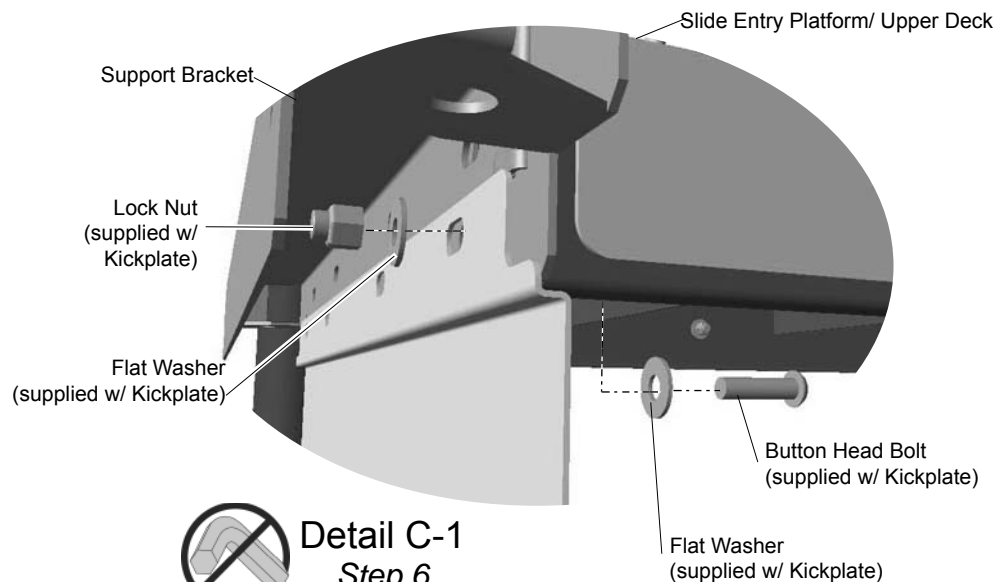
Detail A
Step 3



Important Note: The Kickplate fits inside of the support bracket with the bracket resting on the lip of the kickplate.

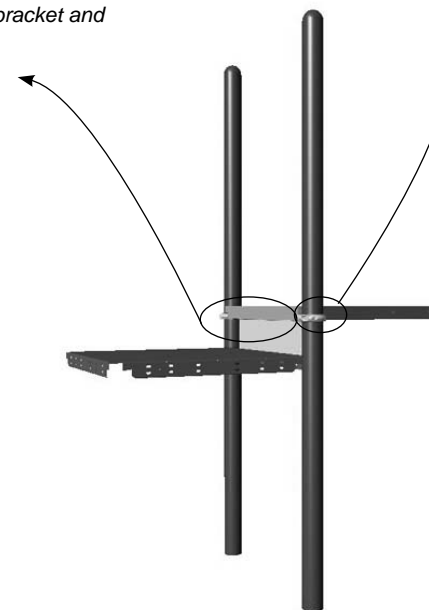
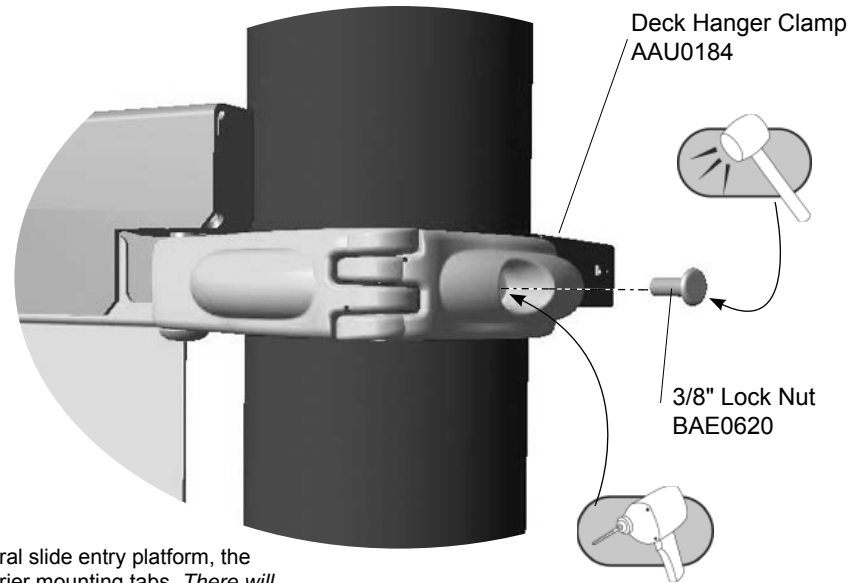
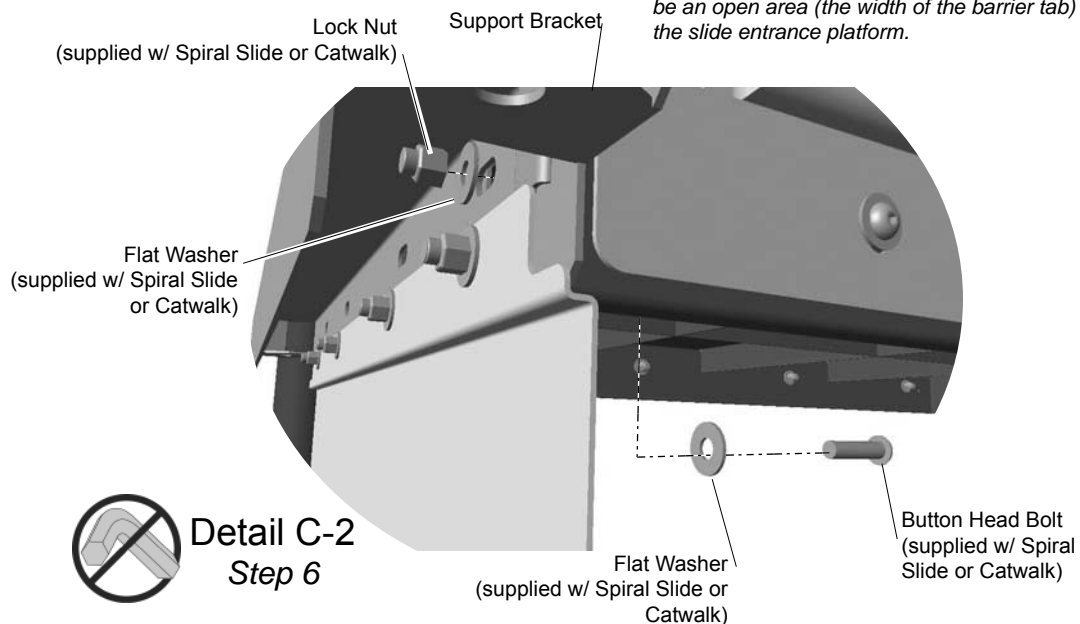


Installation Instructions



Note: The Kickplate is sold separately.

Important Note: If attaching the kickplate to a spiral slide entry platform, the support bracket will rest against the slide entry barrier mounting tabs. *There will be an open area (the width of the barrier tab) between the support bracket and the slide entrance platform.*



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the deck clamps to the Entry Support Bracket.

Step 3: Attach the deck clamps to the entry support bracket. See **Detail A**. Select the entry support bracket, the deck clamps, and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Orient the bracket as shown in **Detail A**. Attach the deck clamps as shown.

Attach the bracket assembly to the posts.

Step 4: Attach the bracket to the posts. See **Detail B-2** and **Side View**. Select the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Position the bracket between the support posts. Close the clamps around the posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Adjust the bracket so the surface is level. If applicable, the bracket should be aligned with the adjoining kickplate and/or the spiral slide/catwalk platform (refer to **Detail B-1**).

Note: The Kickplate is sold separately.

Spiral Slide/Catwalk Attachment:

Step 5: Assemble the spiral slide or catwalk selected for attachment to the entry support bracket in accordance with the specific installation instructions.

Step 6: Connect the spiral slide platform or catwalk to the entry support bracket, using the appropriate hardware and instructions. See **Details C-1 and C-2** and **Side Views**. The upper edge of the kickplate will fit inside, and against, the narrower side of the support bracket (with the post cutouts).

Important Note: If attaching the kickplate to a spiral slide entry platform, the support bracket will rest against the slide entry barrier mounting tabs. *There will be an open area (the width of the barrier tab) between the support bracket and the slide entrance platform.*

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM2805 - ENTRY SUPPORT BRACKET

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BPM0170	BRACKET - 45.00" x 3.00" x 3.44" STEP UP	1



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Assembly View (representative model)

Model	Deck Height
PM3128	24-30" (610-762 mm)
PM3127	36" (915 mm)
PM3126	48" (1220 mm)
PM2658	60" (1525 mm)
PM2696	72" (1830 mm)

Installation Instructions




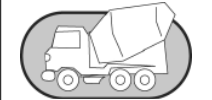
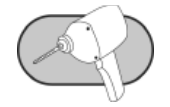


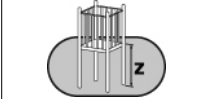
Playmakers®

Models PM2658, PM2696, PM3126-PM3128
24"-72" (610-1829 mm) Glide Slides

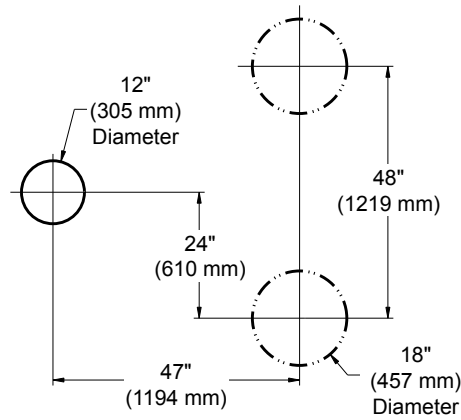
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
Concrete Required: 0.03 cubic yard (0,02 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

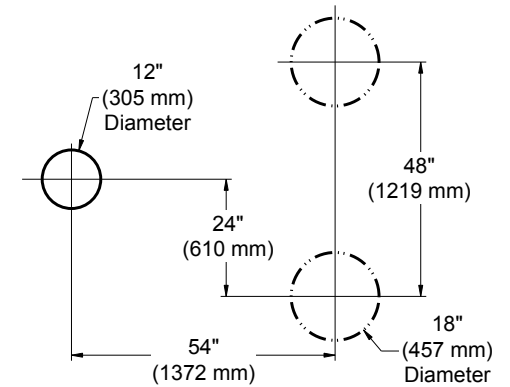
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

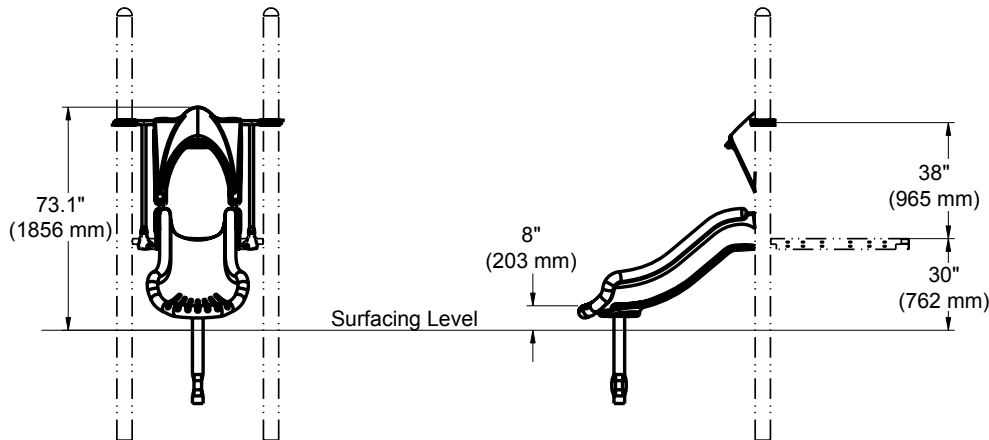
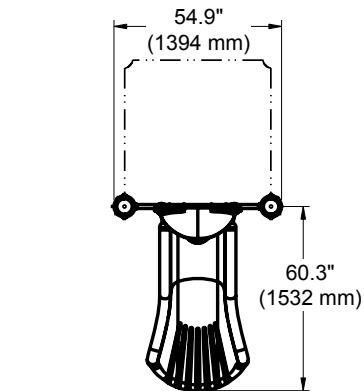


Footing Diagram

If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.

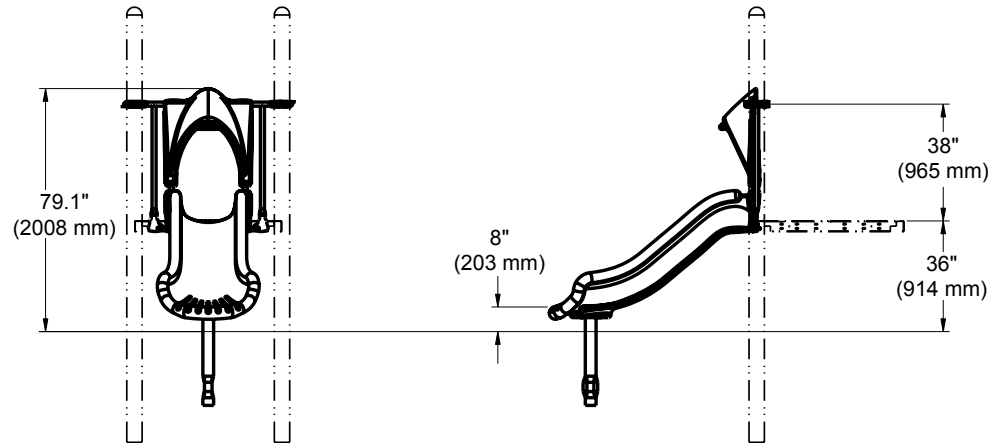
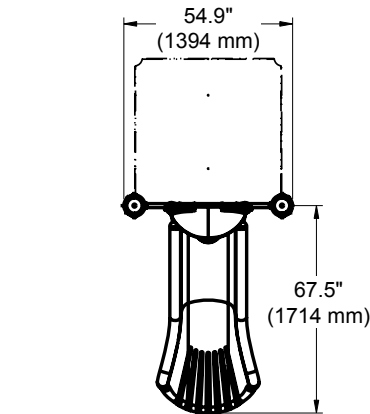


Footing Diagram



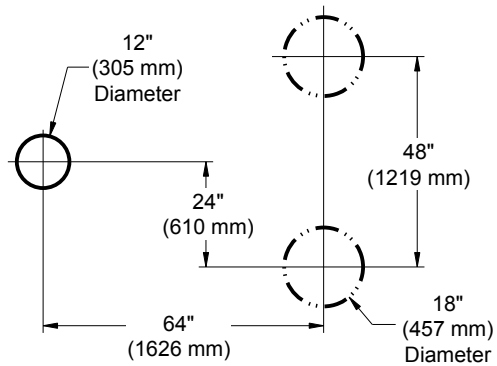
Elevation View PM3128 - 30" Glide Slide

(24" slide: exit will be 2" (50mm) above the surfacing level)

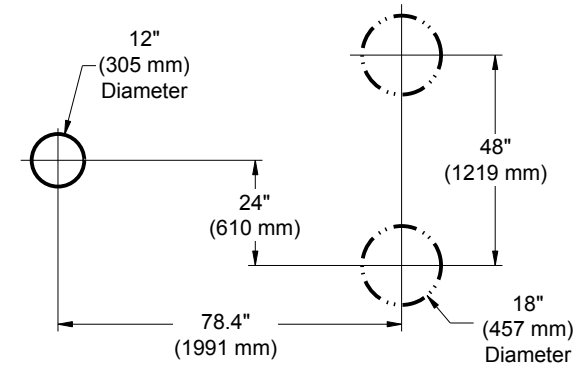


Elevation View PM3127 - 36" Glide Slide

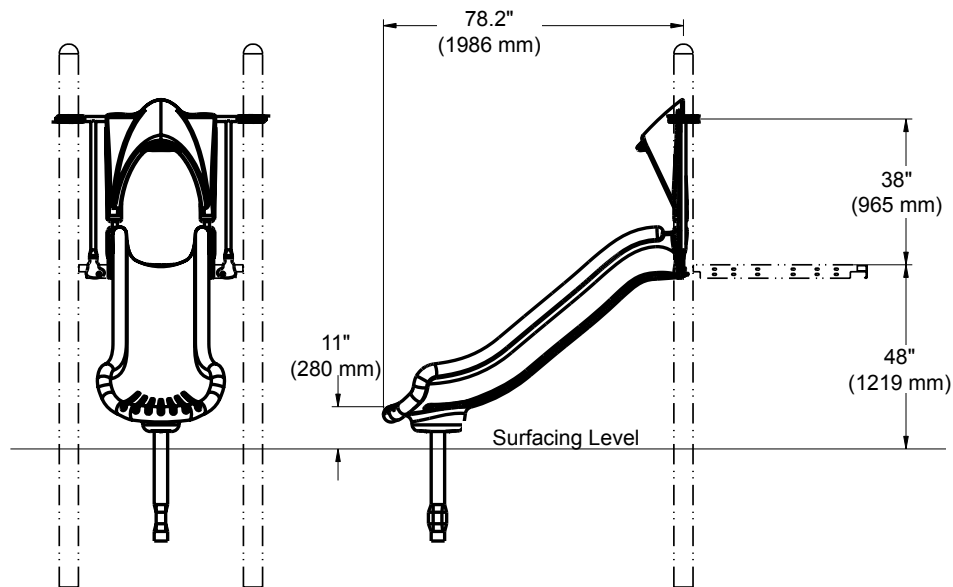
Installation Instructions



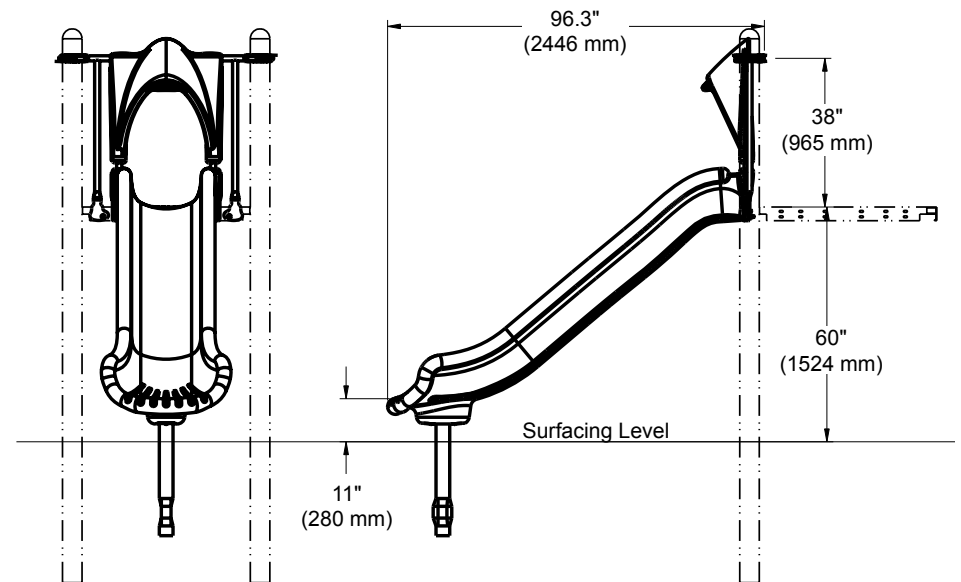
Footing Diagram



Footing Diagram

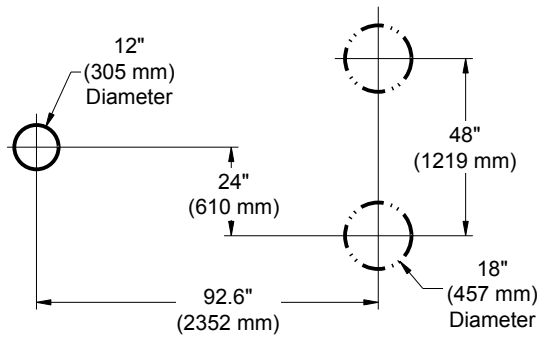


Elevation View PM3126 - 48" Glide Slide

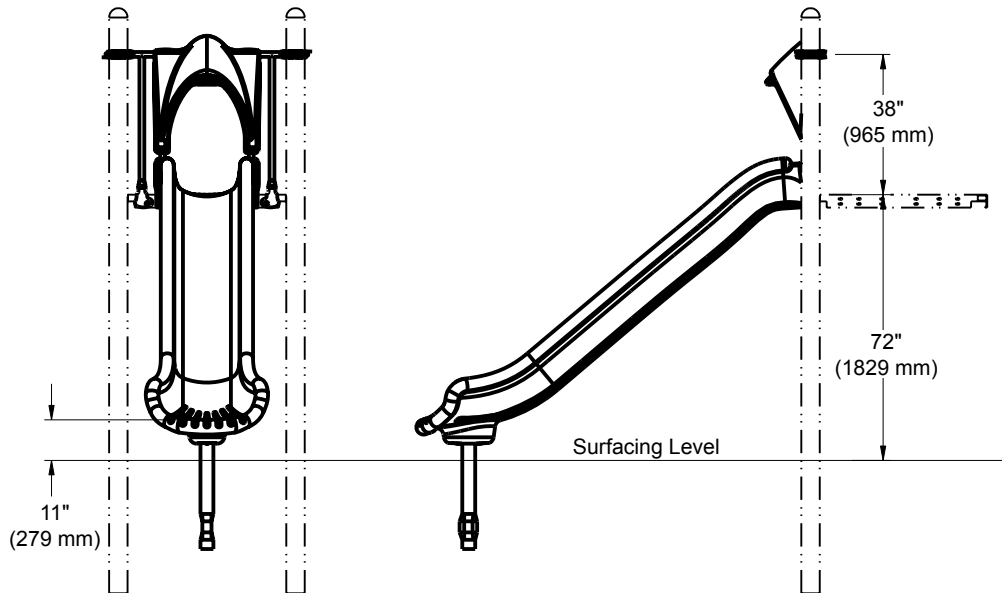


Elevation View PM2658 - 60" Glide Slide

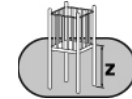
Installation Instructions



Footings Diagram



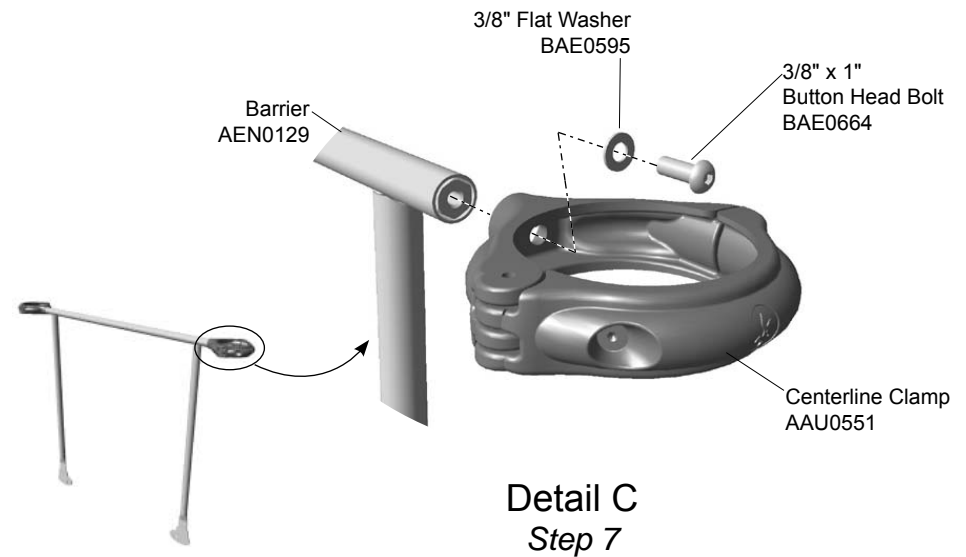
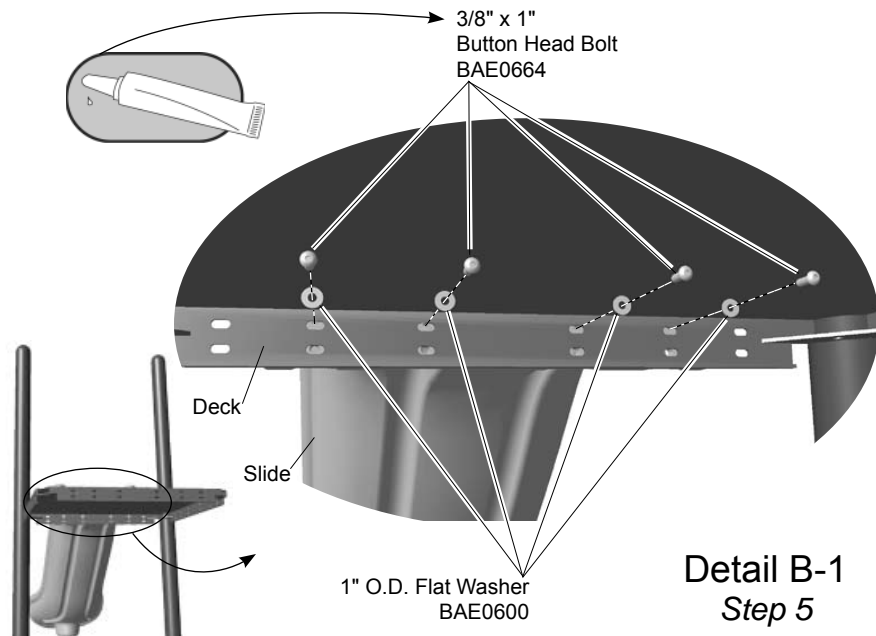
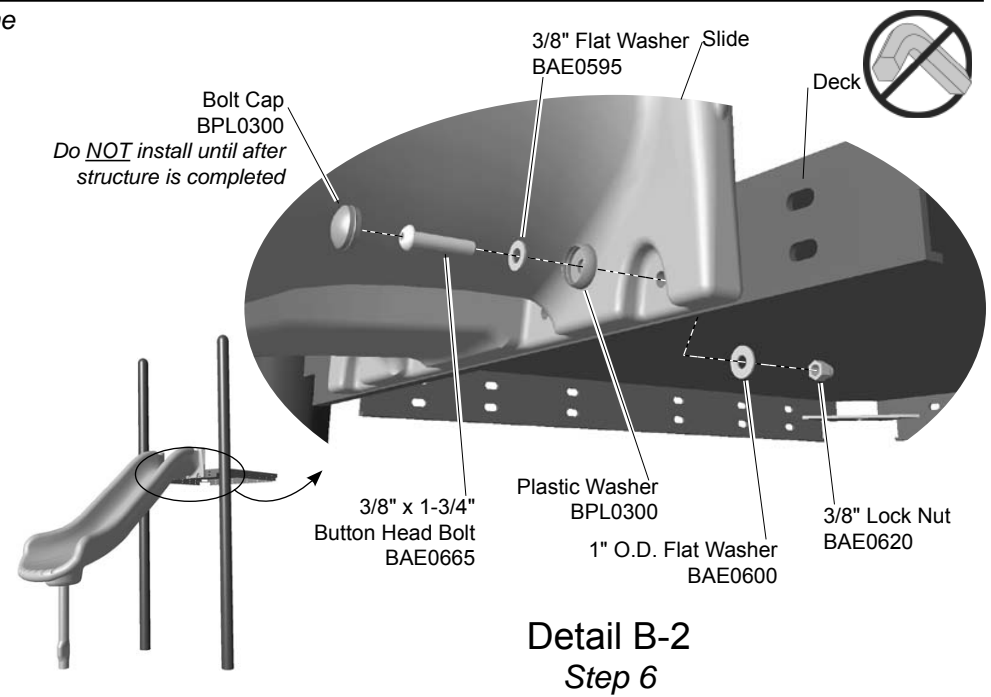
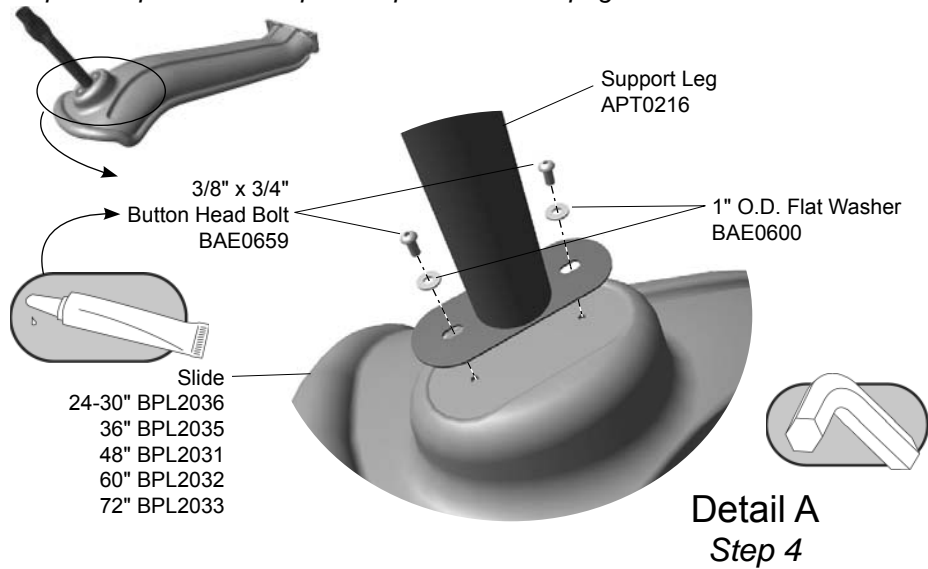
Elevation View PM2696 - 72" Glide Slide



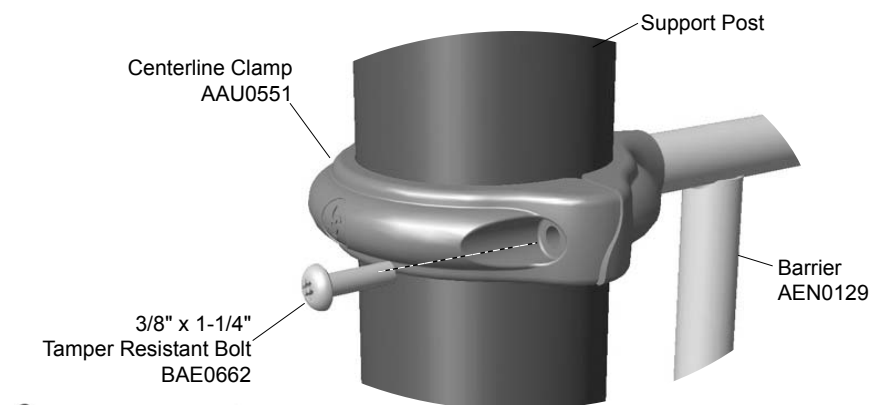
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

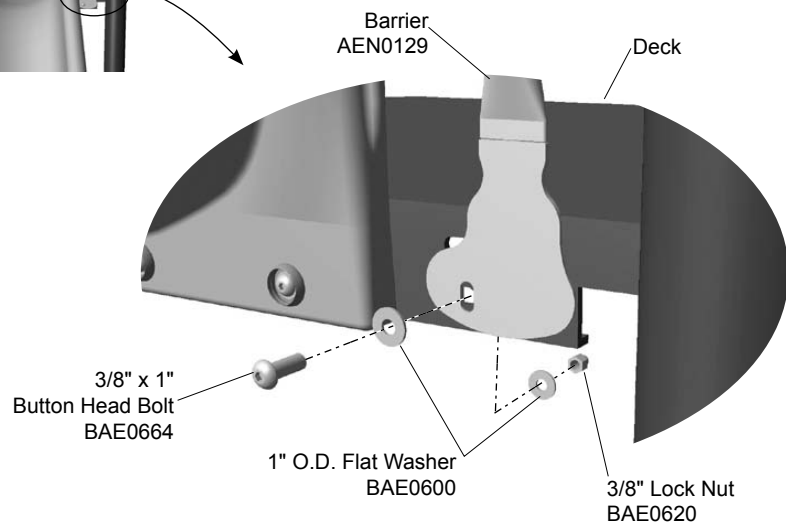
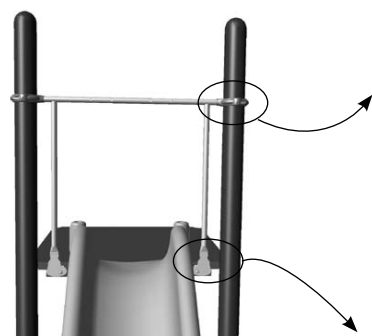
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



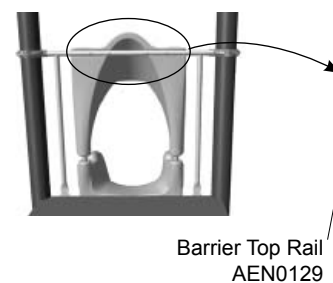
Installation Instructions



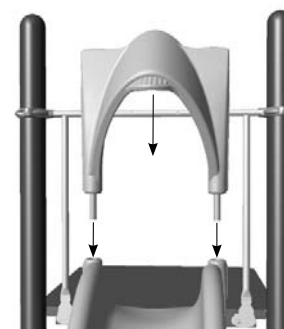
Detail D-1
Step 8



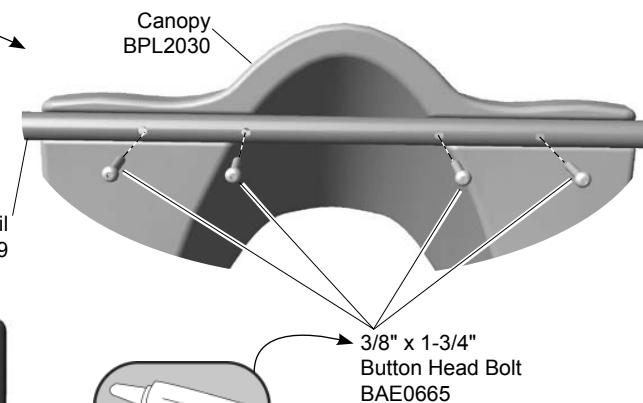
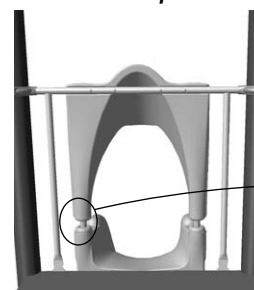
Detail D-2
Step 9



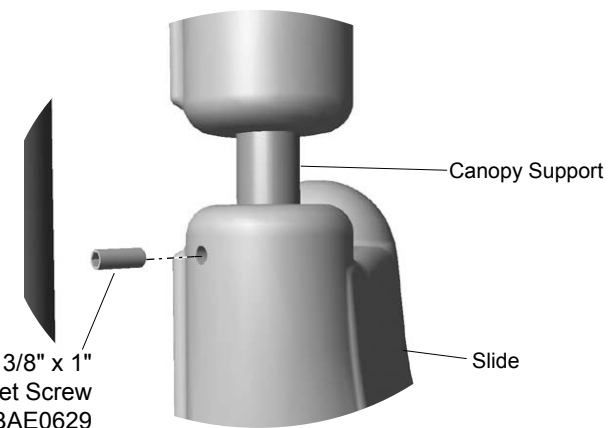
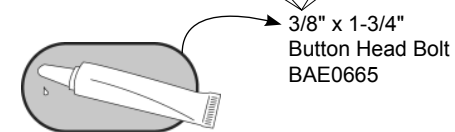
Barrier Top Rail
AEN0129



Detail E-1
Step 10



Detail E-2
Step 10

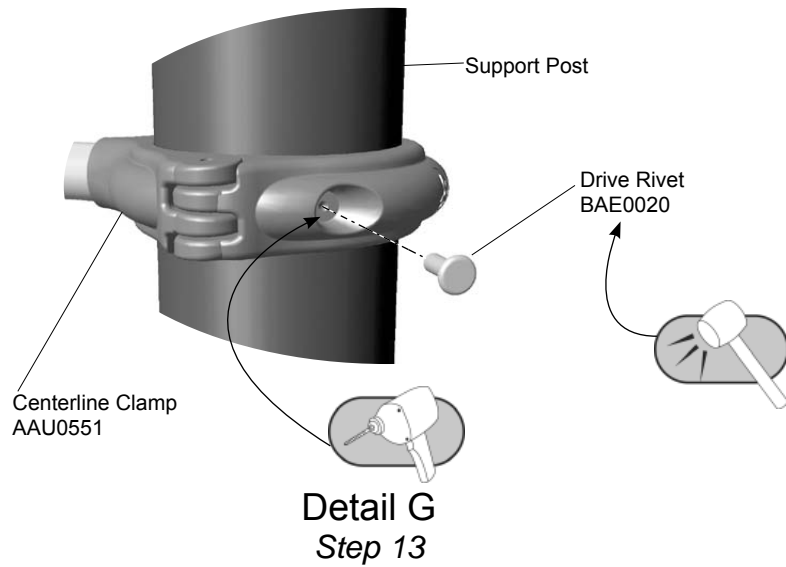
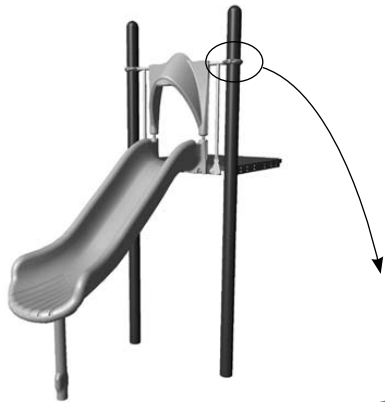


Detail F
Step 11

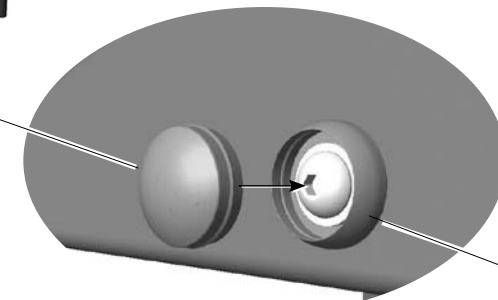
Installation Instructions



Step 12



Bolt Cap
BPL0300



Plastic Washer
BPL0300

Detail H
Step 14
(refer to Detail B-2 also)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

Step 4: Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

Step 6: Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 7: Connect the clamps to the barrier top rail. See **Detail C**. Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

Step 8: Attach the barrier to the posts. See **Detail D-1**. Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

Step 9: Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

Step 10: Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

Step 11: Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.

Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

Step 12: Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.

24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.

60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional turn.

Installation Instructions

Step 13: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

Step 15: Apply the hood string entanglement warning label to the equipment at eye level.

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View (representative model)

Installation Instructions

Playmakers® Models PM3236 and PM3236S

ZigZag Slide 60 in. (1524 mm) Deck

In-Ground and Surface Mount

Installation Preparation

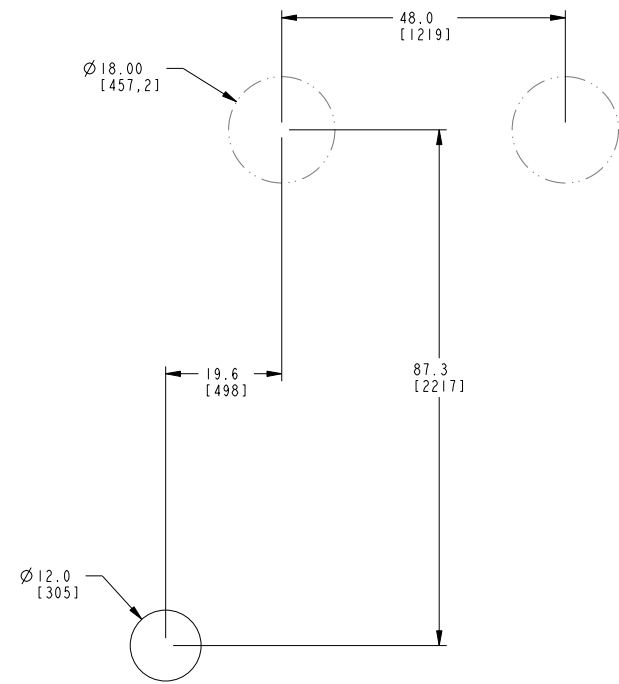
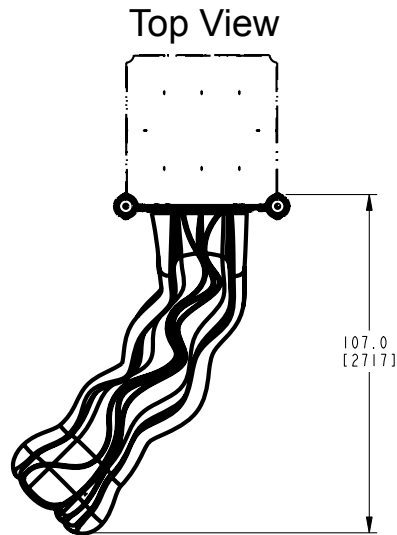
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours (in-ground)
 1 man-hour (surface mount)
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

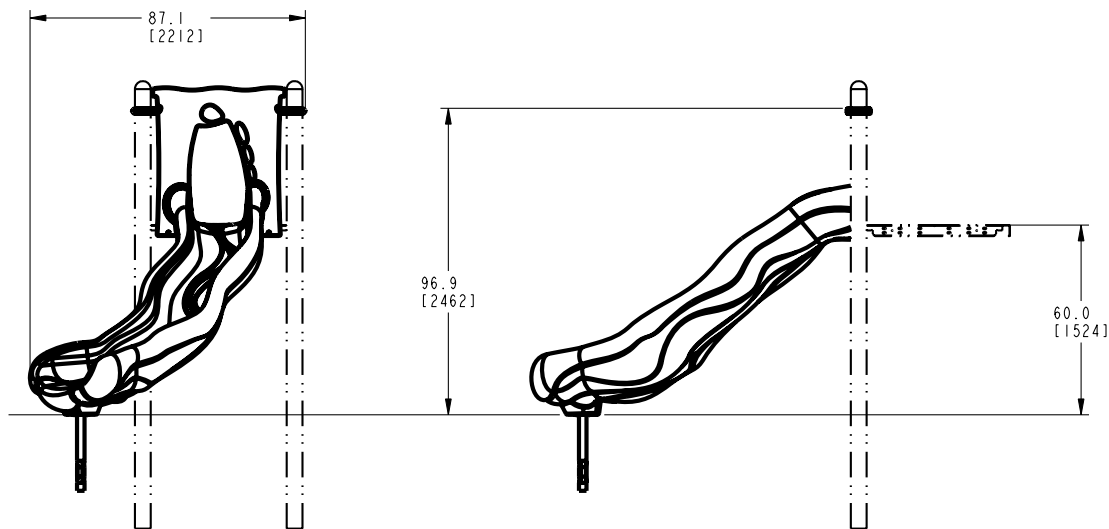
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

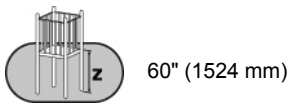
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



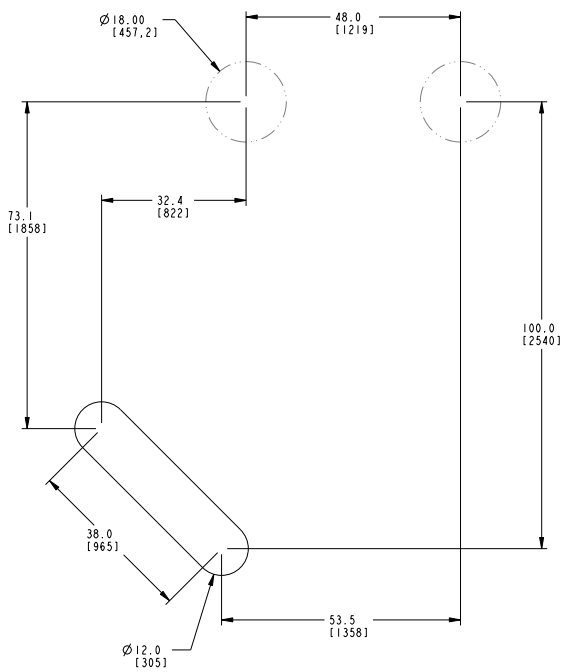
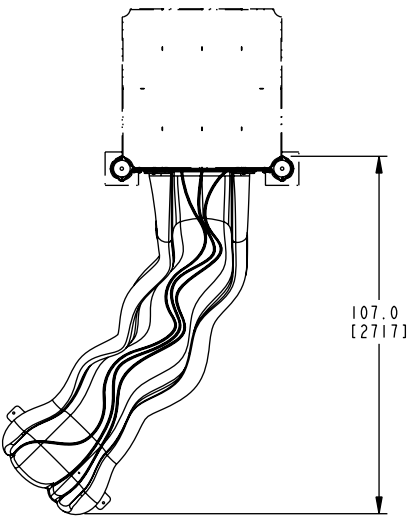
Elevation Views



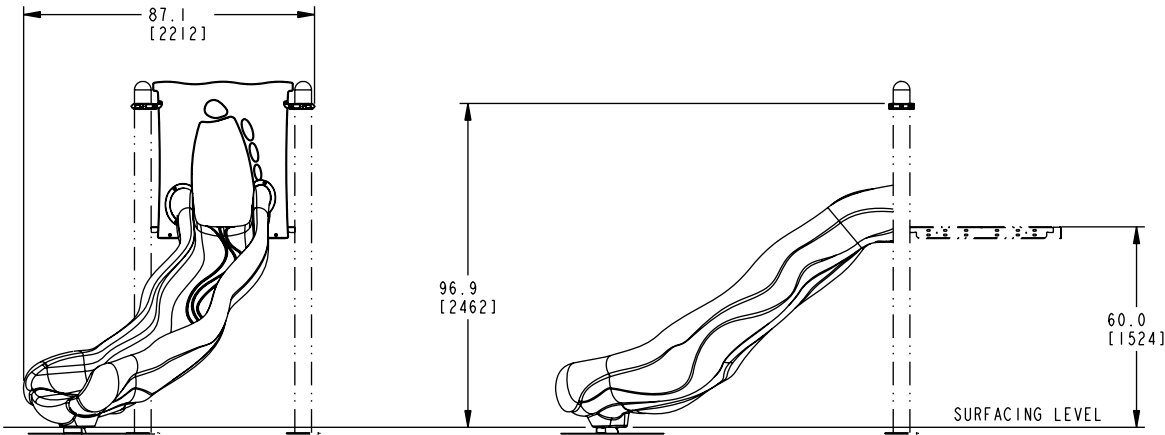
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

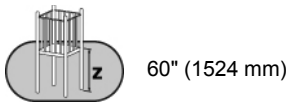
Top View



Footing Diagram

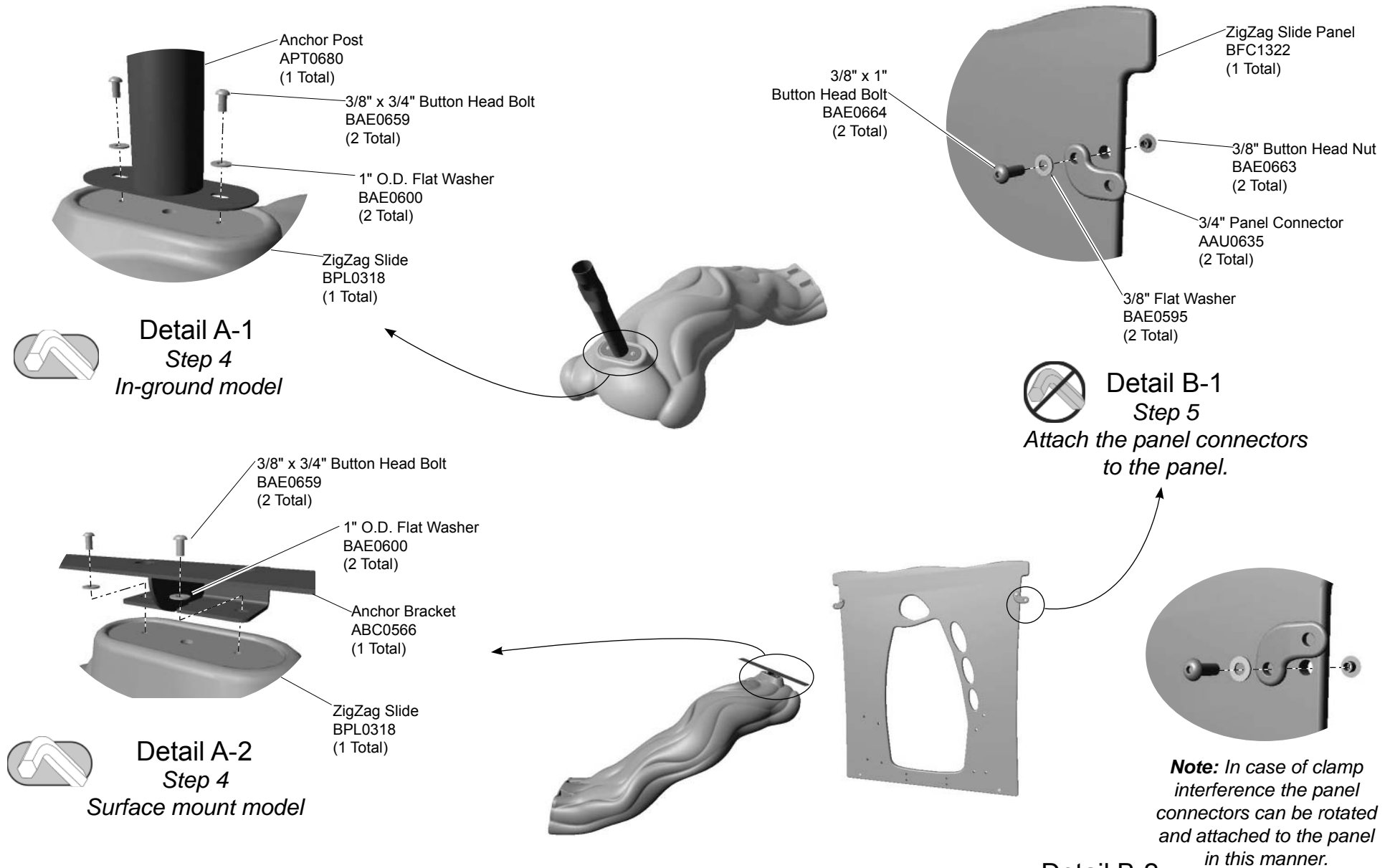


Elevation Views

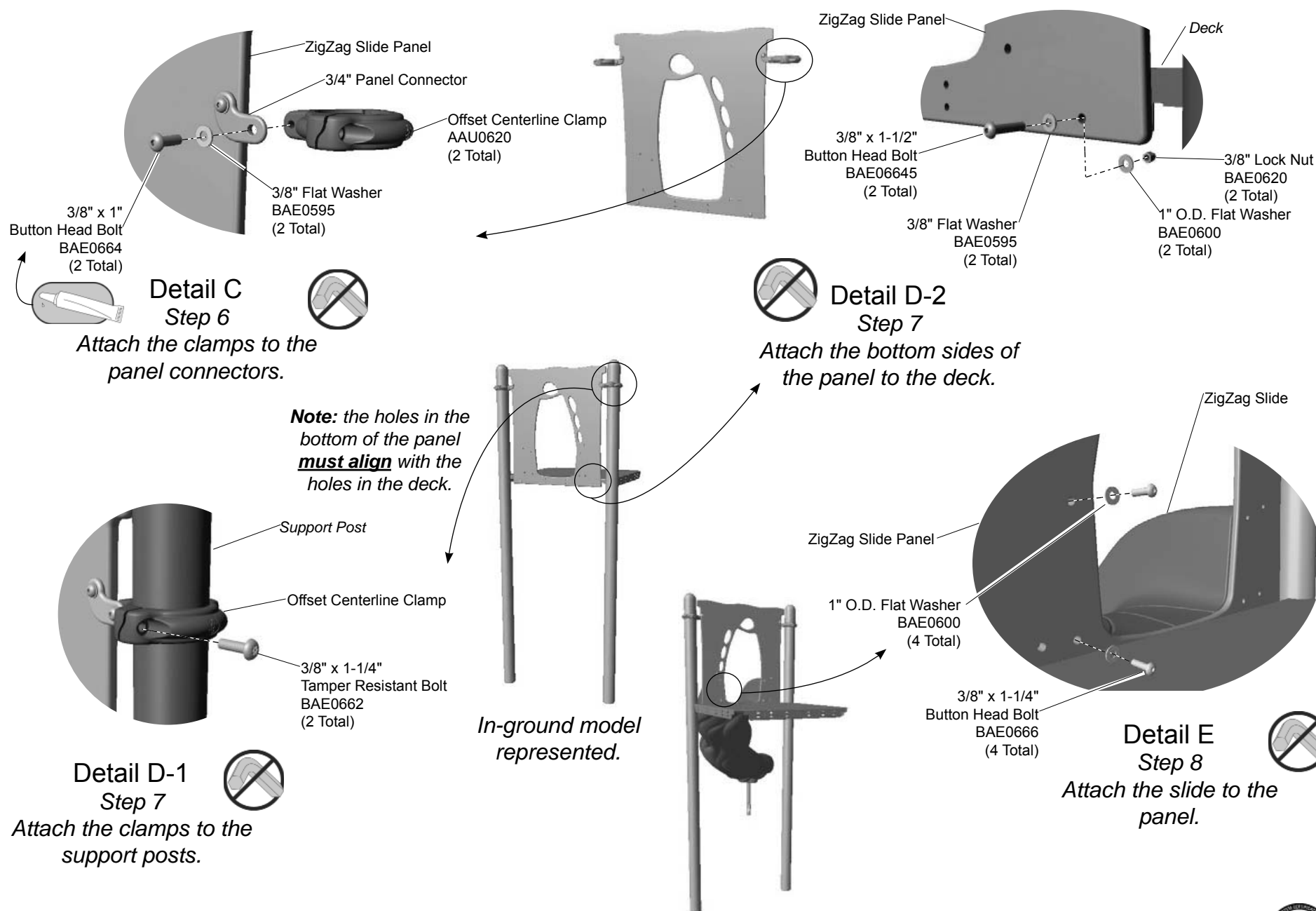


Installation Instructions

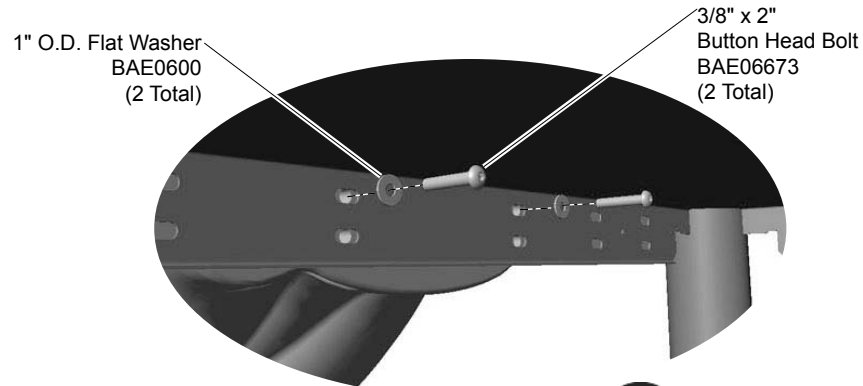
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Installation Instructions

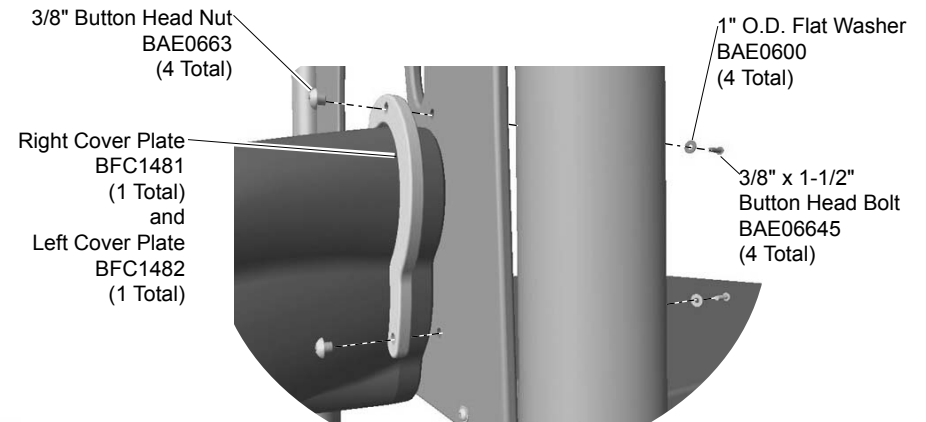


Installation Instructions



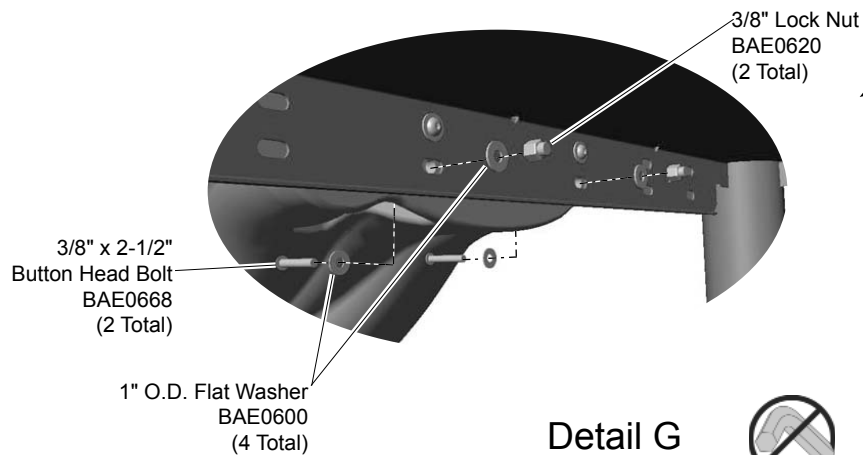
Detail F
Step 9

*Attach the slide to the panel
and deck (upper connections)*



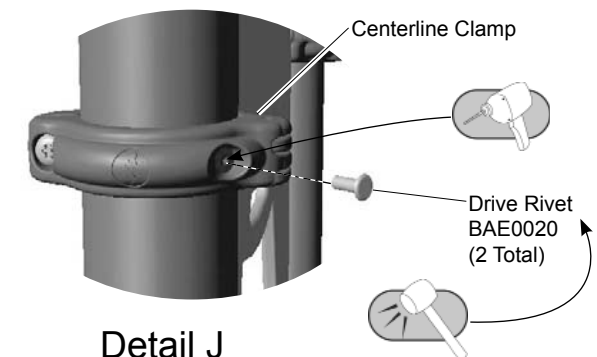
Detail H
Step 11

Attach the cover plates to the panel



Detail G
Step 10

*Attach the slide to the panel
and deck (lower connections)*



Detail J
Step 13
*Secure the clamps to
the posts*

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate / prepare footings as shown in the **Footing Details** in the Guidelines at the beginning of this booklet. Use the **Component Footing Details** for the in-ground model.

Step 4: Attach the anchor post / anchor bracket to the slide. See **Detail A-1** or **Detail A-2**. Attach the post, or bracket, that came with your slide as shown in the appropriate detail.

Step 5: Attach the panel connectors to the routed side of the slide panel. See **Detail B-1**. Attach the connectors to the panel as shown. In the event of a clamp interference with another component, the connectors can be rotated and attached as shown in **Detail B-2**.

Step 6: Attach the clamps to the panel connectors. See **Detail C**. Attach the clamps to the *deck side* of the connectors as shown.

Step 7: Attach the clamps to the support posts and the bottom sides of the panel to the deck. See **Details D-1 and D-2**. Position the panel against the deck and attach the clamps to the posts as shown. Align the holes in the panel with the holes in the deck and attach the bottom sides of the panel to the deck as shown.

Step 8: Attach the slide to the panel. See **Detail E**. Position the slide against the panel with the anchor post / bracket in, or on, the footing and attach as shown.

Step 9: Attach the slide to the panel and deck (*upper connections*). See **Detail F**. From beneath the deck, attach the slide to the upper holes in the deck as shown.

Step 10: Attach the slide to the panel and deck (*lower connections*). See **Detail G**. From beneath the slide, attach to the lower holes in the deck as shown.

Step 11: Attach the cover plates to the panel. See **Detail H**. Place the cover plates around the top of the slide and against the panel and attach as shown.

Final Details.

Step 12: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**. The slide exit height should be 8.2 in. (208 mm) from the protective surfacing.

Note: Slide exit height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 13: Install the drive rivets. See **Detail J**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 14: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

Step 15: Apply the hood string entanglement warning label to the slide.

PM3236 - ZIGZAG SLIDE 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
APT0680	POST - 24.30" x 9.76" x 3.76"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8-16" LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8-16" x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8-16" x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8-16" x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8-16" x 1-1/2" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8-16" x 1-1/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16" x 2" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8-16" x 2-1/2" BUTTON HEAD - SS	2
BFC1322	SHEET - 42.00" x 47.00" x .75" ZIGZAG SLIDE PANEL	1
BFC1481	SHEET - 6.49" x 14.04" x .75"	1
BFC1482	SHEET - 8.09" x 15.22" x .75"	1
BPL0318	45 DEGREE ZIGZAG SLIDE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3236S - ZIGZAG SLIDE 60 in. (1524 mm) DECK SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
ABC0566	BRACKET - 40.00" x 5.50" x 2.25" SURFACE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	18
BAE0620	NUT - 3/8-16" LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8-16" x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8-16" x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8-16" x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8-16" x 1-1/2" BUTTON HEAD - SS	6
BAE0666	BOLT - 3/8-16" x 1-1/4" BUTTON HEAD - SS	4
BAE06673	BOLT - 3/8-16" x 2" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8-16" x 2-1/2" BUTTON HEAD - SS	2
BFC1322	SHEET - 42.00" x 47.00" x .75" ZIGZAG SLIDE PANEL	1
BFC1481	SHEET - 6.49" x 14.04" x .75"	1
BFC1482	SHEET - 8.09" x 15.22" x .75"	1
BPL0318	45 DEGREE ZIGZAG SLIDE	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1





Assembly View (representative model)

Model	Description	Weight
ZZPM4297	ABC & 123	53.4 lbs. (24,3 kg)
ZZPM4318	Find the Way Home	53.4 lbs. (24,3 kg)




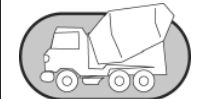
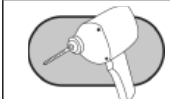

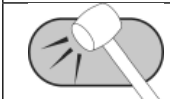
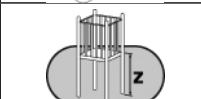
Installation Instructions

Playmakers[®] Models PM4297 and PM4318
ABC & 123 Panel and Find the Way Home Panel

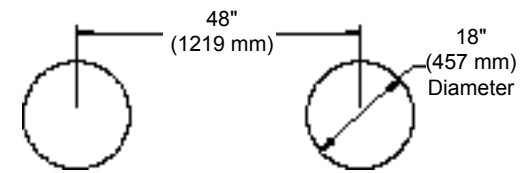
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Weight: Refer to Chart
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

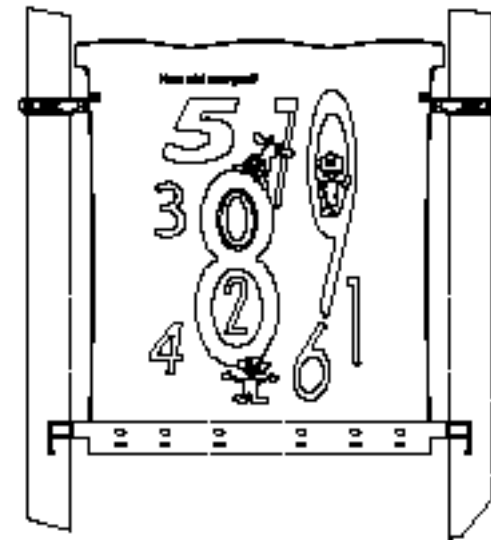
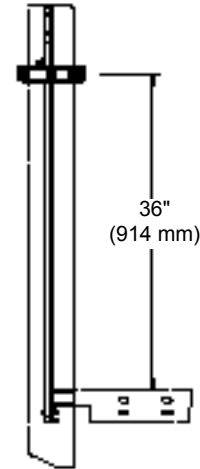
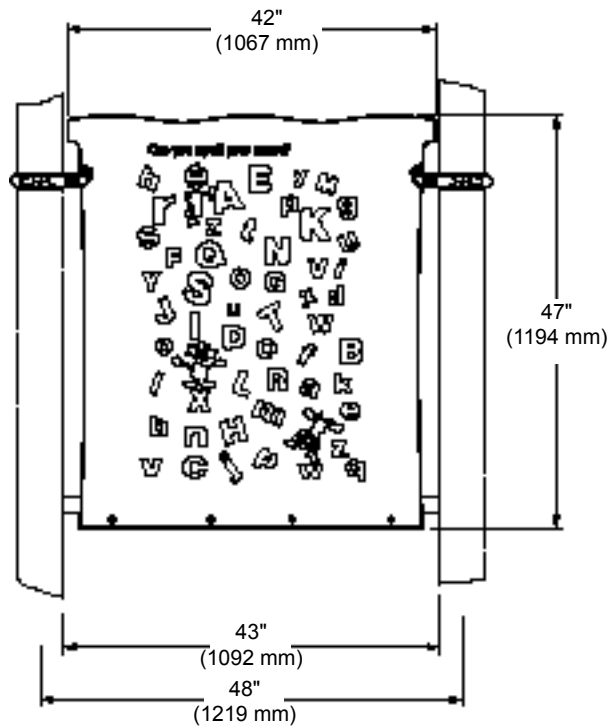
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

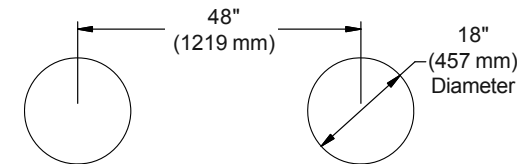


Footing Diagram

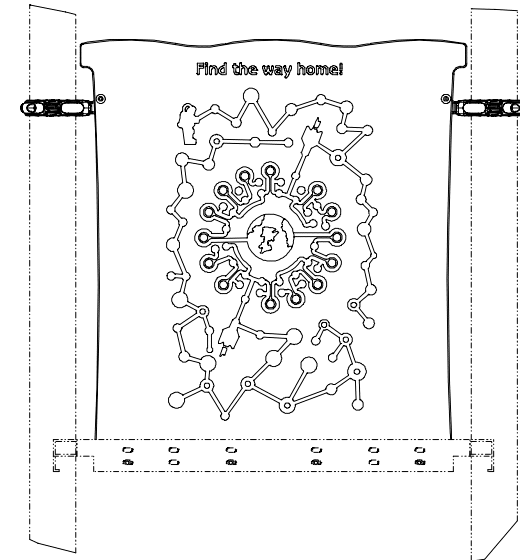
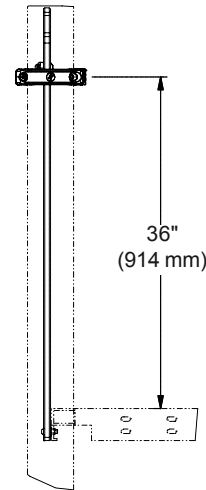
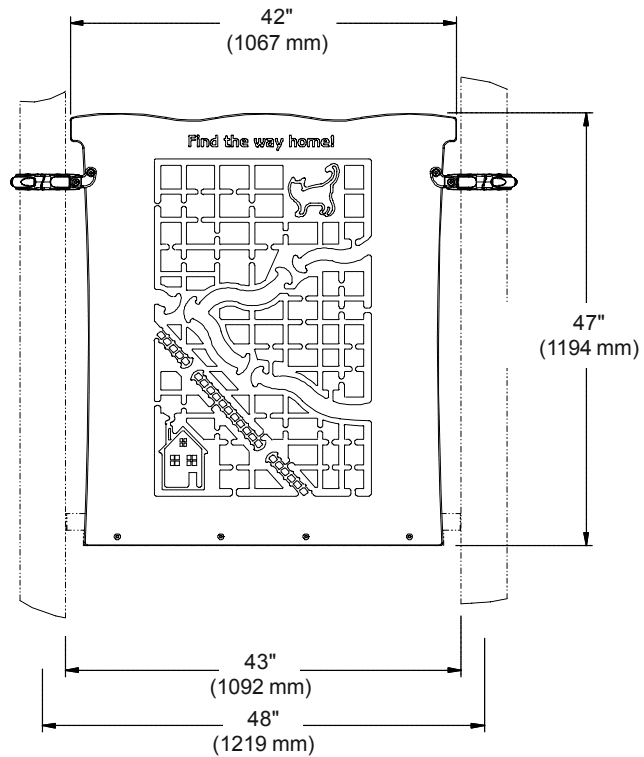


Elevation Views
ZZPM4297

Installation Instructions



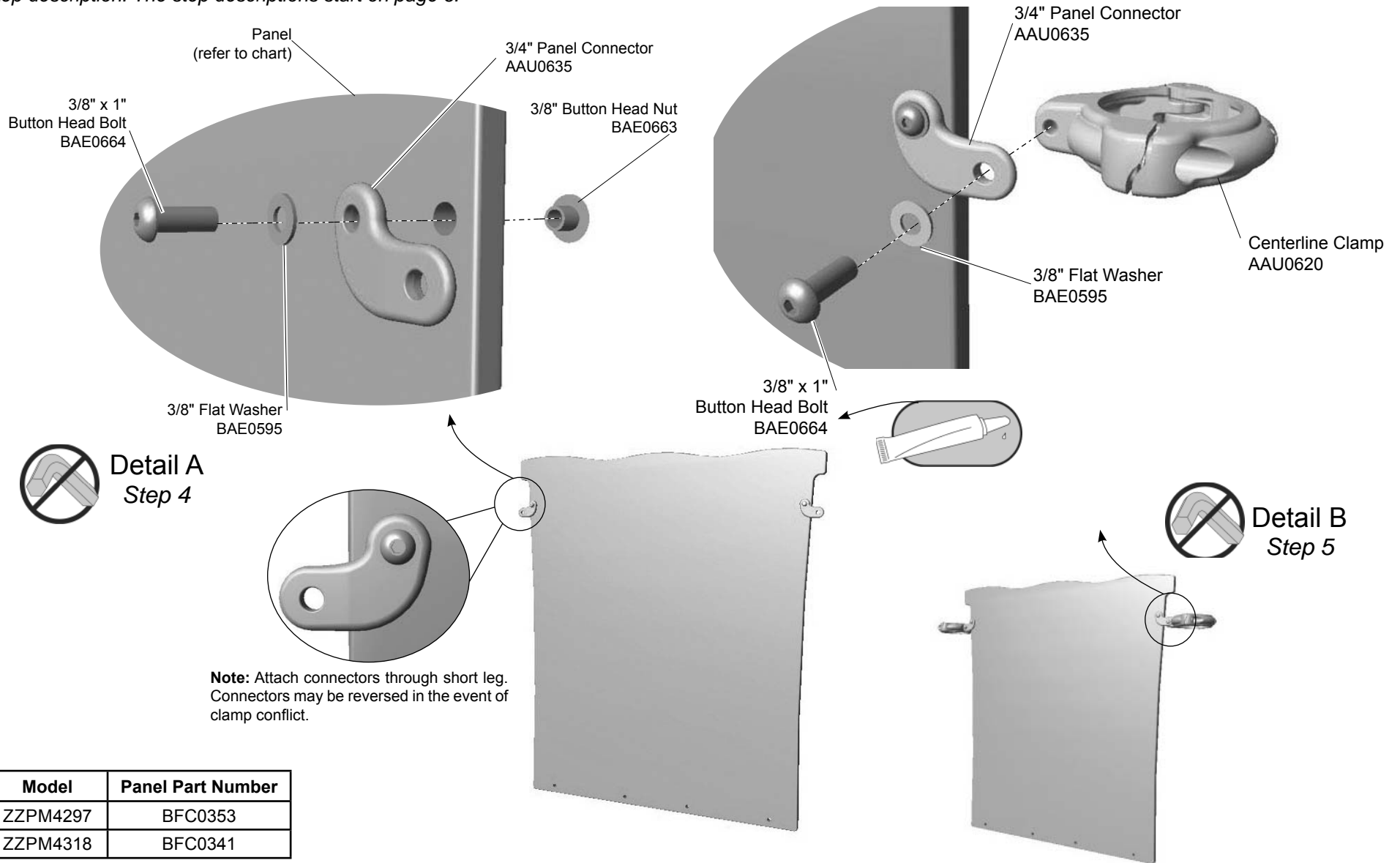
Footing Diagram



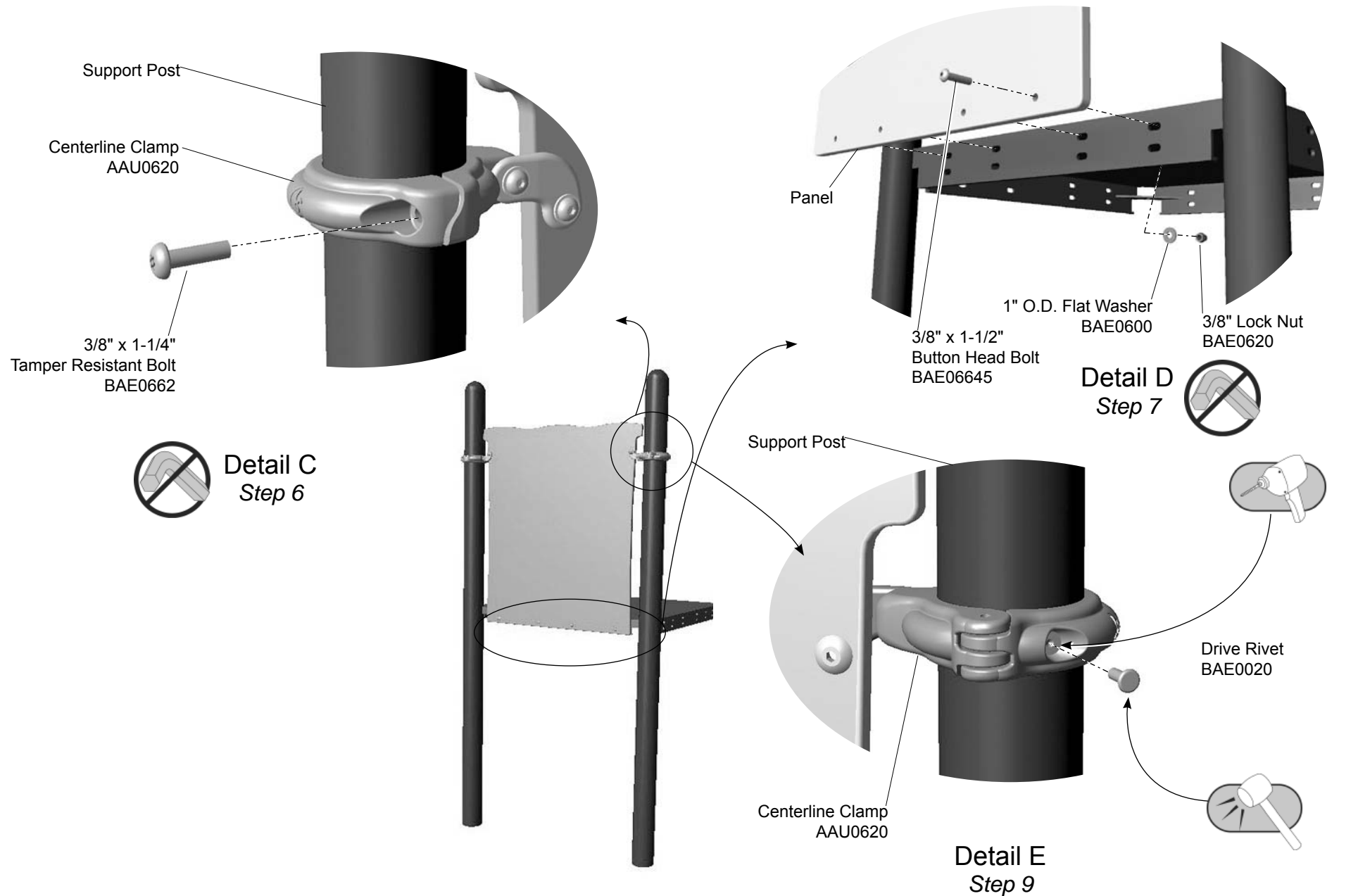
Elevation Views
ZZPM4318

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine the location of the panel by referring to the master structure layout drawing. Decide the orientation of panel - either side can face out.

Attach the panel connectors to the panel.

Step 4: Attach the panel connectors to the panel. See **Detail A**. Select the panel, the panel connectors, and the appropriate hardware. There are (2) two connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points up on the upper connections. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face out). Align the hole in the short leg with a side hole in the panel. Attach as shown. Leave the connections loose.

Step 5: Attach the clamps to the panel connectors. See **Detail B**. Select the offset centerline clamps and the appropriate hardware. There are (2) two connections. Place the flat side of each clamp against the panel side of the connector. Apply a drop of loctite to the bolt threads and attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the support posts.

Step 6: Attach the panel to support posts. See **Detail C** and **Elevation View**. Select the appropriate hardware. There are (2) two connections. Move the panel into position against the deck aligning the lower holes with the bottom set of holes in the deck. Close the clamps around the support posts. Attach as shown. Leave connections loose for alignment adjustments.

Note: In the event of a clamp conflict with an adjacent component, the connector can be flipped upside down and reconnected to the panel. Both the clamps should be mounted at the same height.

Attach the panel to the deck.

Step 7: Attach the panel to the deck. See **Detail D**. Select the appropriate hardware. There are (4) four connections. Align the holes. Attach as shown. Leave the connections loose for alignment adjustment.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4297 - ABC & 123 PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BFC0353	SHEET - 42" x 47" ABC and 123 PANEL	1

PM4318 - FIND THE WAY HOME PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BFC0341	SHEET - 42" x 47" FIND THE WAY HOME PANEL	1



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Assembly View (representative model)

Model	Description	Weight
ZZPM4297	ABC & 123	53.4 lbs. (24,3 kg)
ZZPM4318	Find the Way Home	53.4 lbs. (24,3 kg)




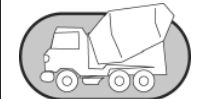
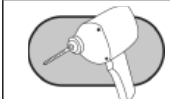

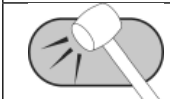
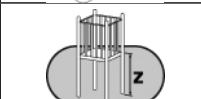
Installation Instructions

Playmakers® Models PM4297 and PM4318
ABC & 123 Panel and Find the Way Home Panel

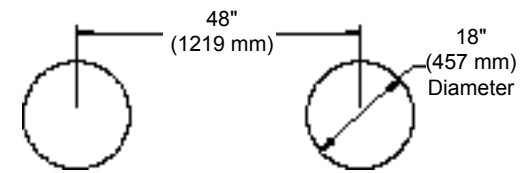
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Weight: Refer to Chart
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

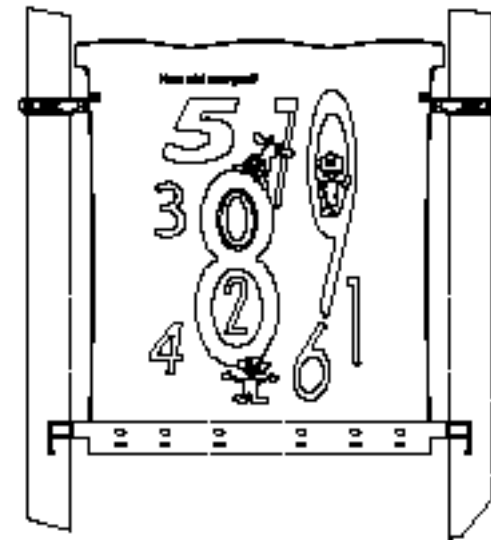
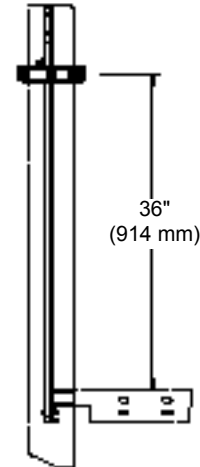
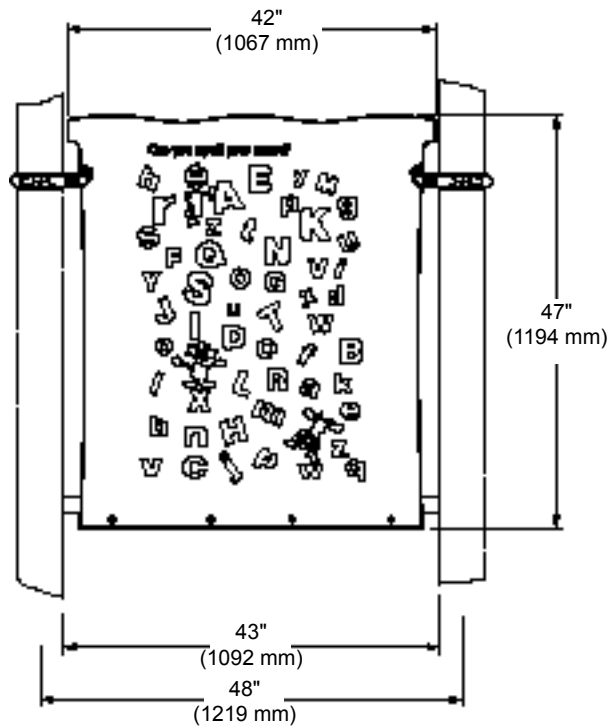
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

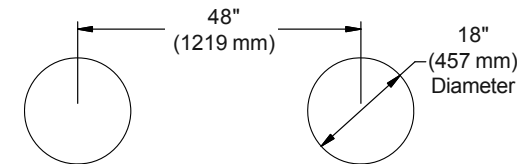


Footing Diagram

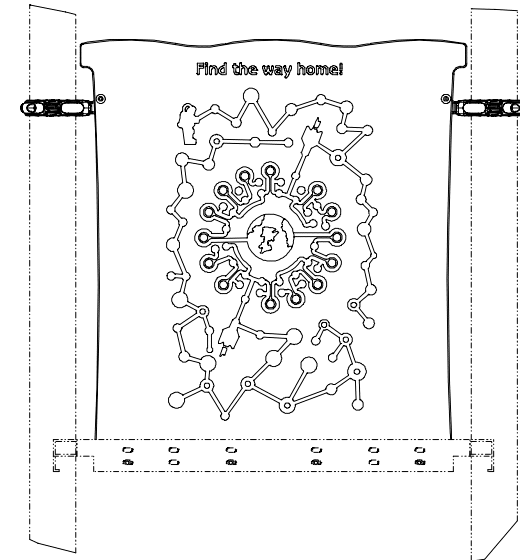
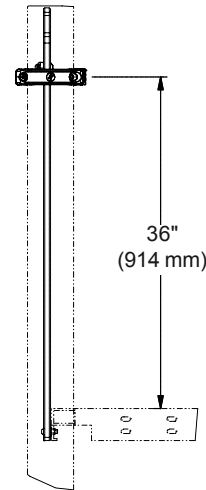
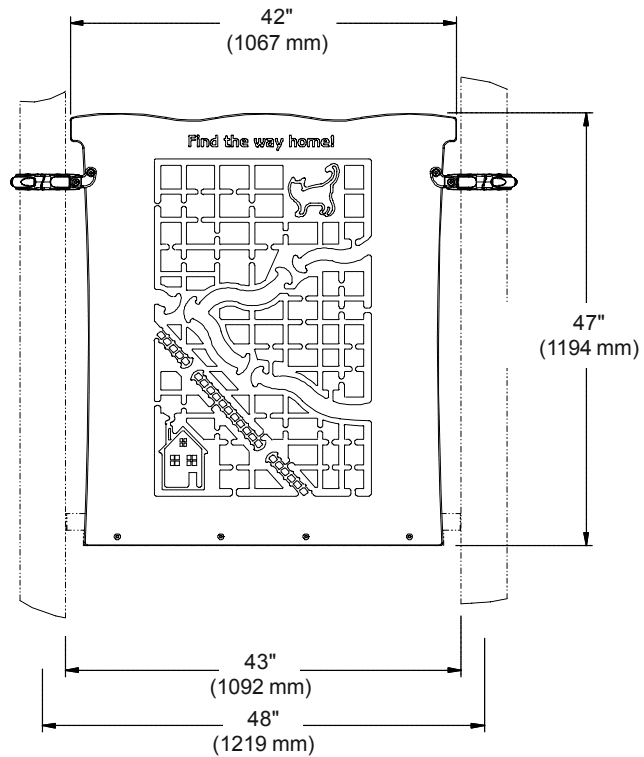


Elevation Views
ZZPM4297

Installation Instructions



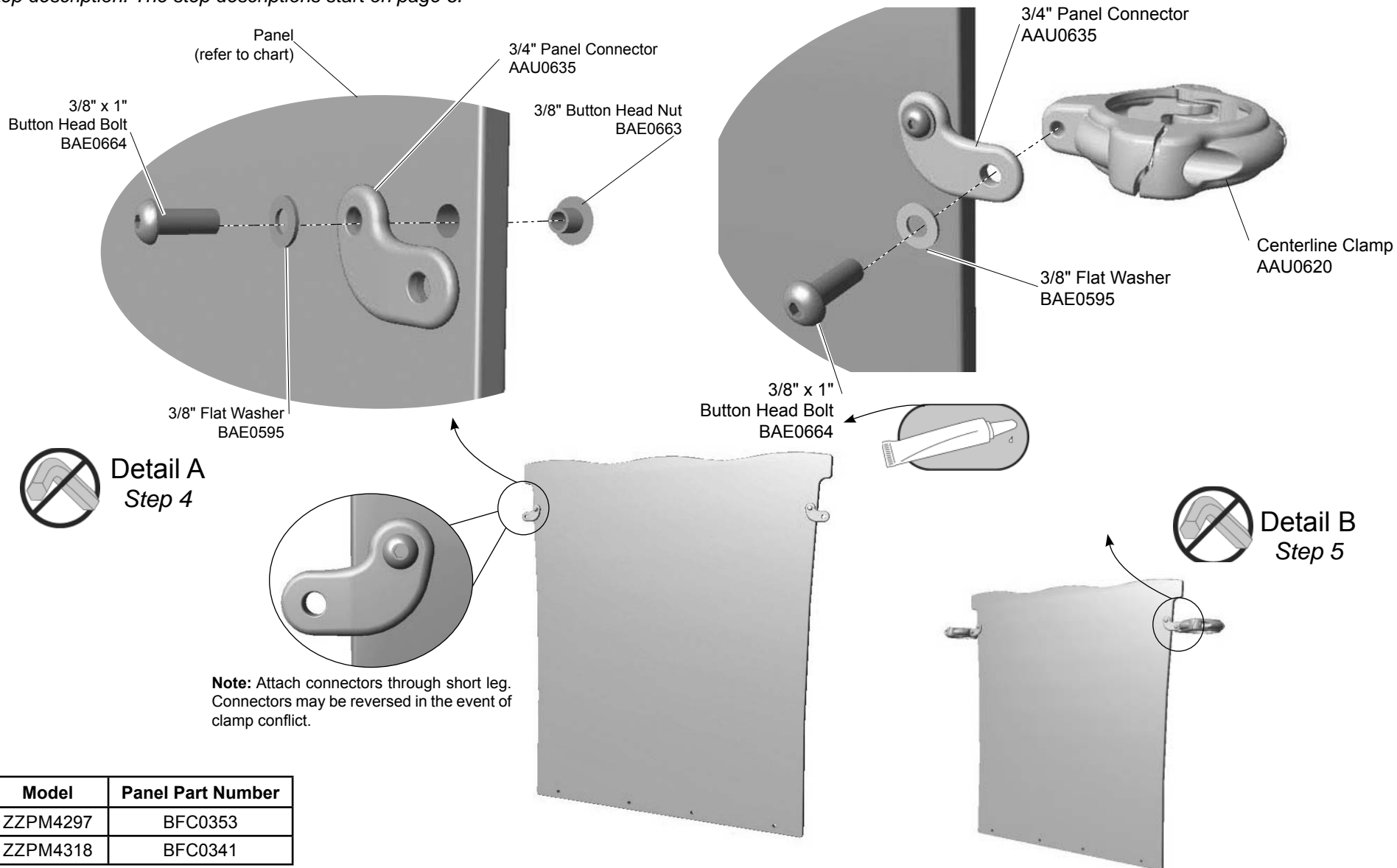
Footing Diagram



Elevation Views
ZZPM4318

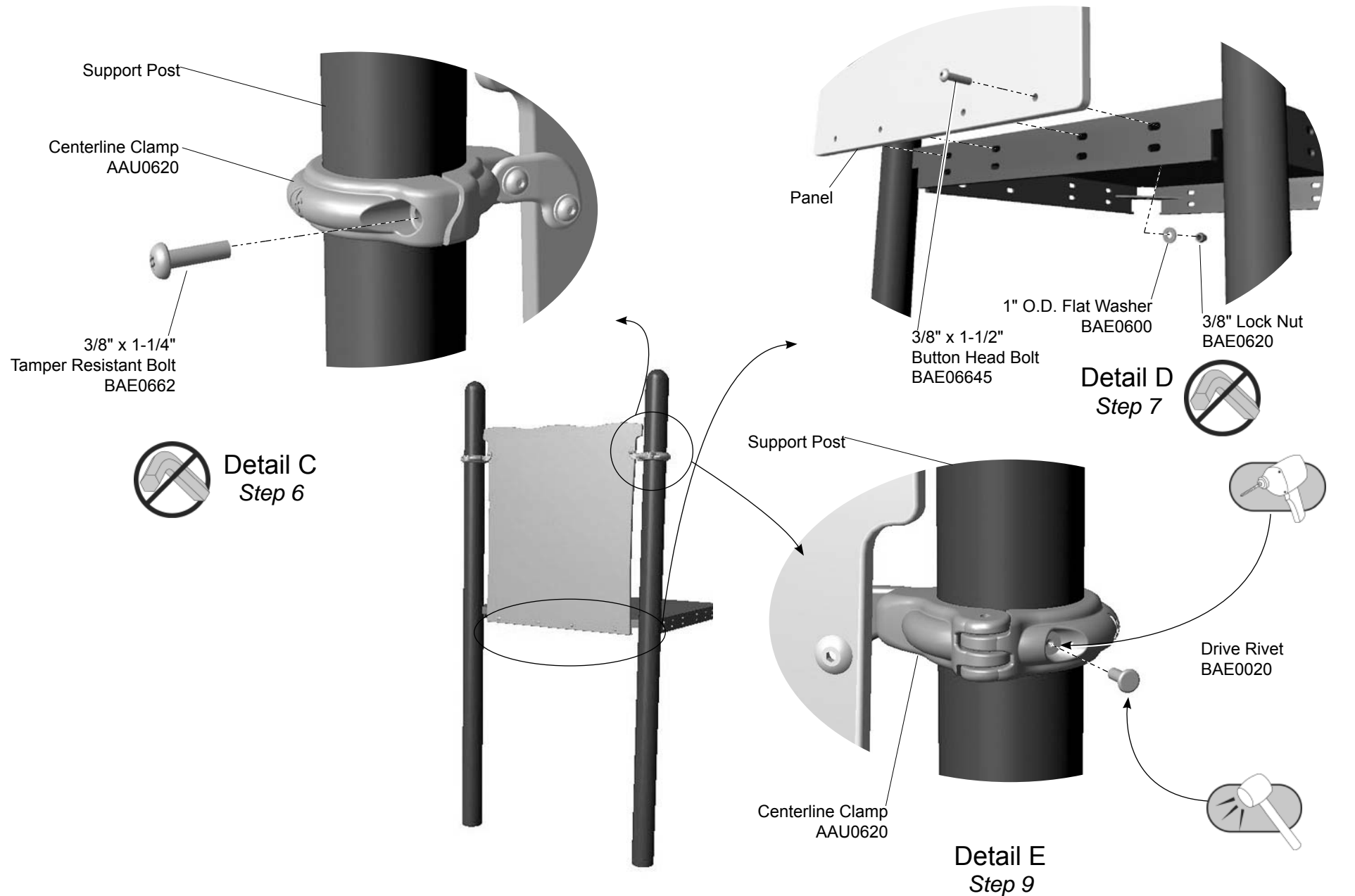
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Model	Panel Part Number
ZZPM4297	BFC0353
ZZPM4318	BFC0341

Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine the location of the panel by referring to the master structure layout drawing. Decide the orientation of panel - either side can face out.

Attach the panel connectors to the panel.

Step 4: Attach the panel connectors to the panel. See **Detail A**. Select the panel, the panel connectors, and the appropriate hardware. There are (2) two connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points up on the upper connections. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face out). Align the hole in the short leg with a side hole in the panel. Attach as shown. Leave the connections loose.

Step 5: Attach the clamps to the panel connectors. See **Detail B**. Select the offset centerline clamps and the appropriate hardware. There are (2) two connections. Place the flat side of each clamp against the panel side of the connector. Apply a drop of loctite to the bolt threads and attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the support posts.

Step 6: Attach the panel to support posts. See **Detail C** and **Elevation View**. Select the appropriate hardware. There are (2) two connections. Move the panel into position against the deck aligning the lower holes with the bottom set of holes in the deck. Close the clamps around the support posts. Attach as shown. Leave connections loose for alignment adjustments.

Note: In the event of a clamp conflict with an adjacent component, the connector can be flipped upside down and reconnected to the panel. Both the clamps should be mounted at the same height.

Attach the panel to the deck.

Step 7: Attach the panel to the deck. See **Detail D**. Select the appropriate hardware. There are (4) four connections. Align the holes. Attach as shown. Leave the connections loose for alignment adjustment.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM4297 - ABC & 123 PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BFC0353	SHEET - 42" x 47" ABC and 123 PANEL	1

PM4318 - FIND THE WAY HOME PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BFC0341	SHEET - 42" x 47" FIND THE WAY HOME PANEL	1





Assembly View

Installation Instructions




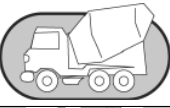



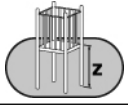
Playmakers® Model PM4570

PlaySeat

Installation Preparation

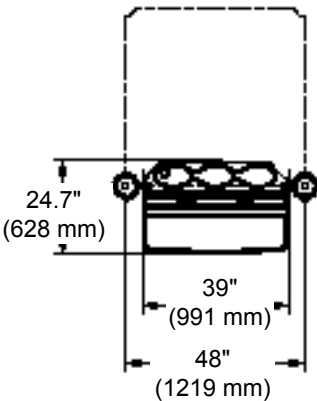
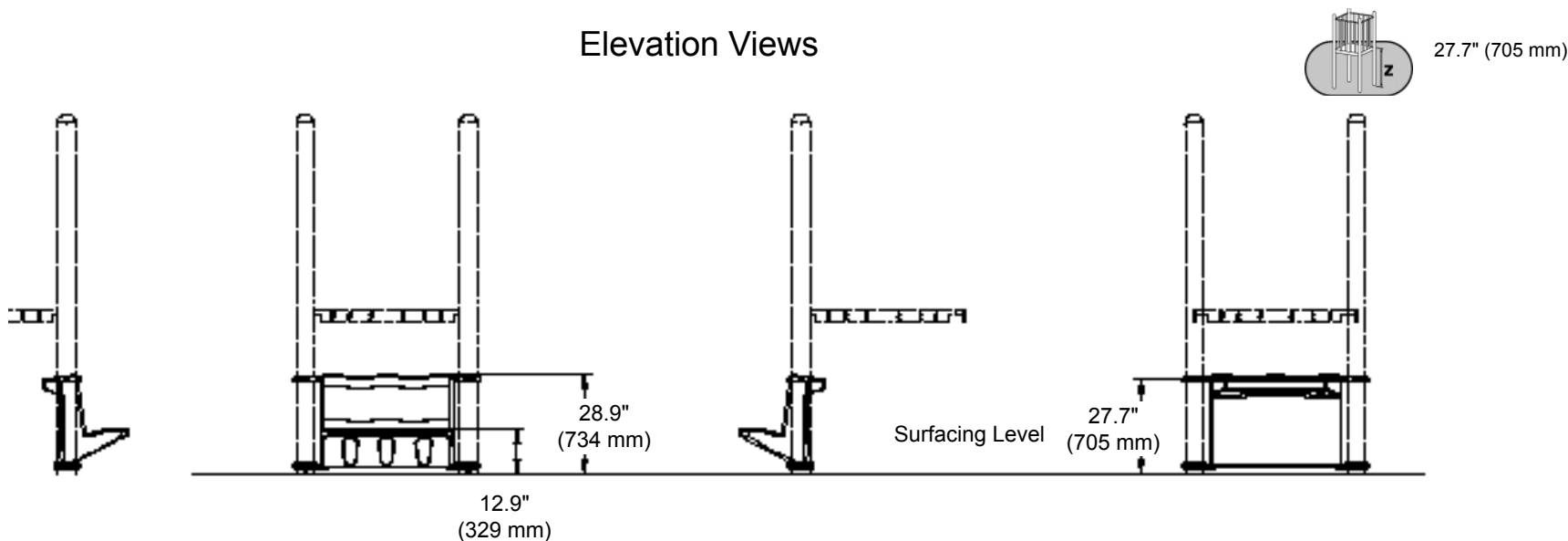
Recommended Crew: One (1) adult
 Installation Time: 0.5 hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

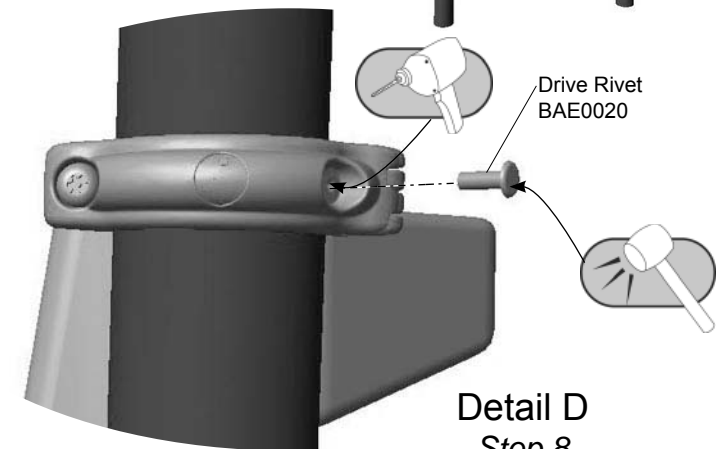
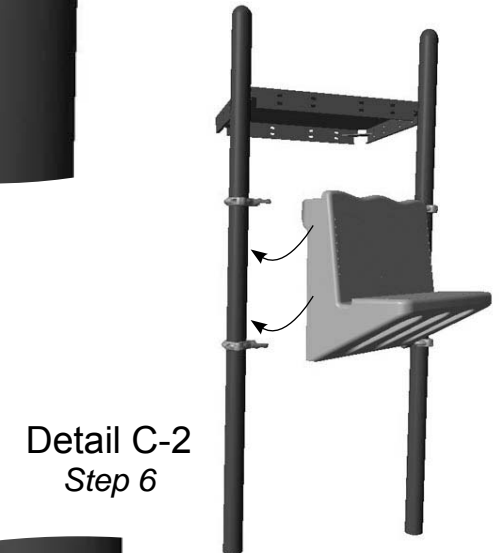
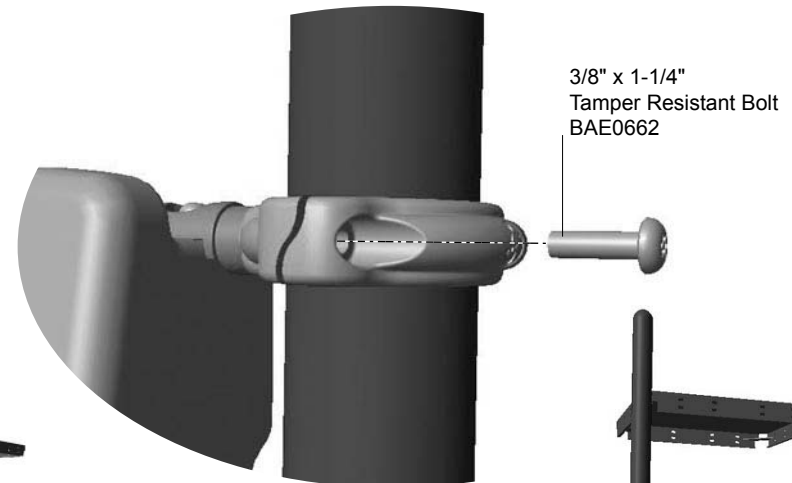
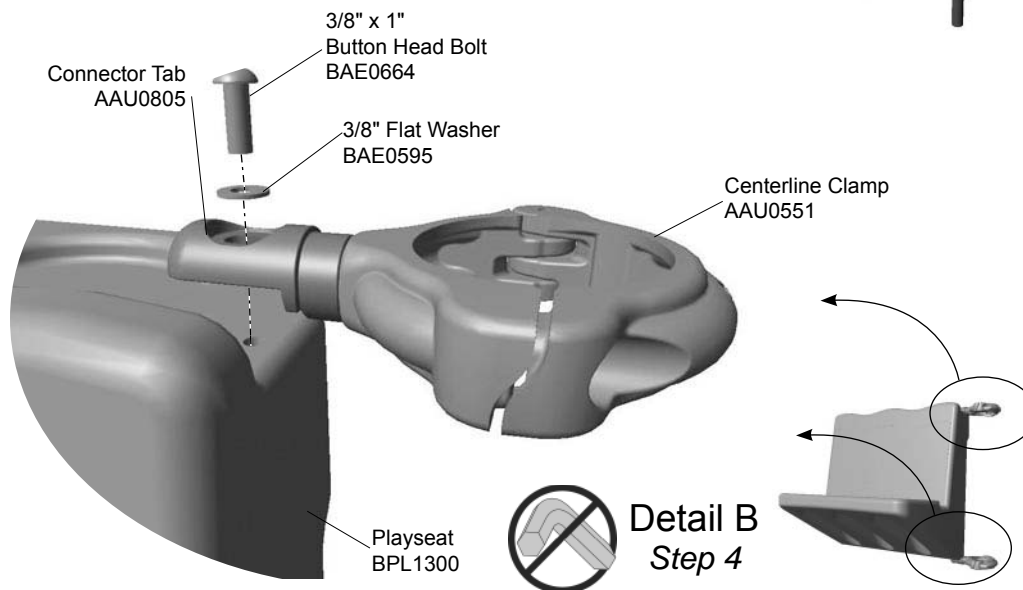
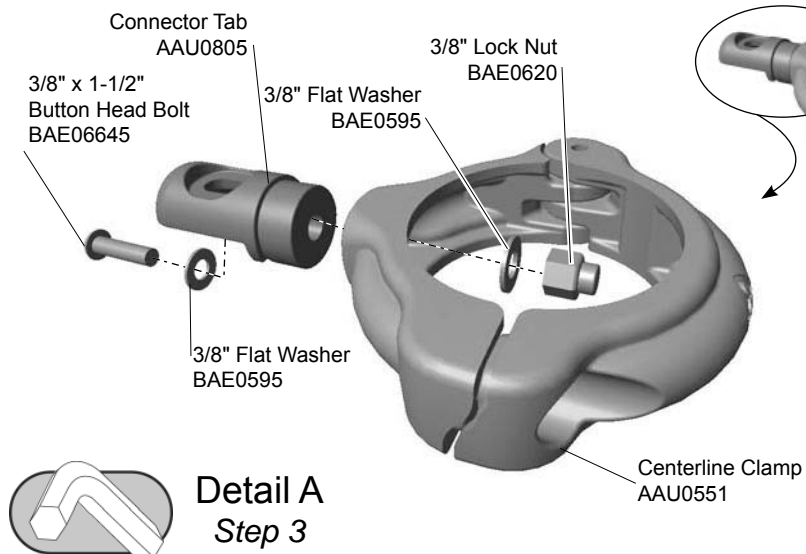
Elevation Views



Top View

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach a connector tab to all clamps.

Step 3: Attach a connector tab to all clamps. See **Detail A**. Select centerline clamps, connector tabs, and the appropriate hardware. There are (4) four connections. Position round end of each connector tab against the neck of a clamp. Attach as shown. Do not fully tighten the connections.

Attach the clamps to the seat.

Step 4: Attach clamps to right hand side of the seat only. See **Detail B**. Select clamp assemblies and the appropriate hardware. The clamp hinge should face the back of the seat. Turn the tab so that the flat surface is positioned against the seat. Align the clamp and connector tab with the top or bottom backrest portion of seat. Apply a drop of loctite to the bolt threads attach as shown into the seat backrest.

Attach the seat to the support post.

Step 5: Attach the seat to the right support post. See **Detail C-1 and C-2 and Assembly View**. Select the appropriate hardware. There are (2) two connections. Close the right hand clamps around the post. Insert and thread the bolts into the clamps. Snug tighten the connection only. The clamps may have to be moved up or down to properly position the seat.

Attach the left side clamps to the post and seat.

Step 6: Attach the remaining (2) two clamp assemblies to the left support post following the directions in *Step 5*. See **Detail C-1**. There are (2) two connections. Position the tabs so that the flat side faces down for the top clamp and up for the bottom clamp. Do not fully tighten the clamps to the post. Swing the seat into position between the posts with one clamp above and one below the seat. See **Detail C-1**. Attach the clamps to both the upper and lower left hand corners of the seat in the same manner as described in *Steps 4 and 5*. There are (2) two connections.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

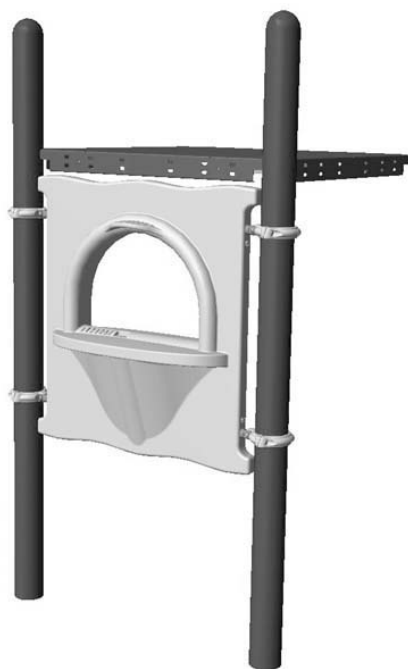
Note: This step should be executed after structure has been assembled and properly footed.

PM4570 - PLAYSEAT

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AAU0805	TAB - 1-9/16" DIAMETER x 3" LONG	4
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BPL1300	SEAT 39" LONG	1


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Assembly View

Installation Instructions




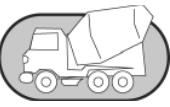
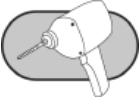


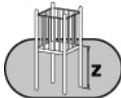
Playmakers® Model PM4646

Storefront Panel

Installation Preparation

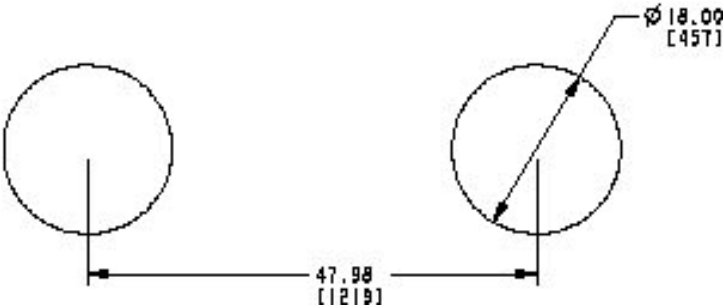
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

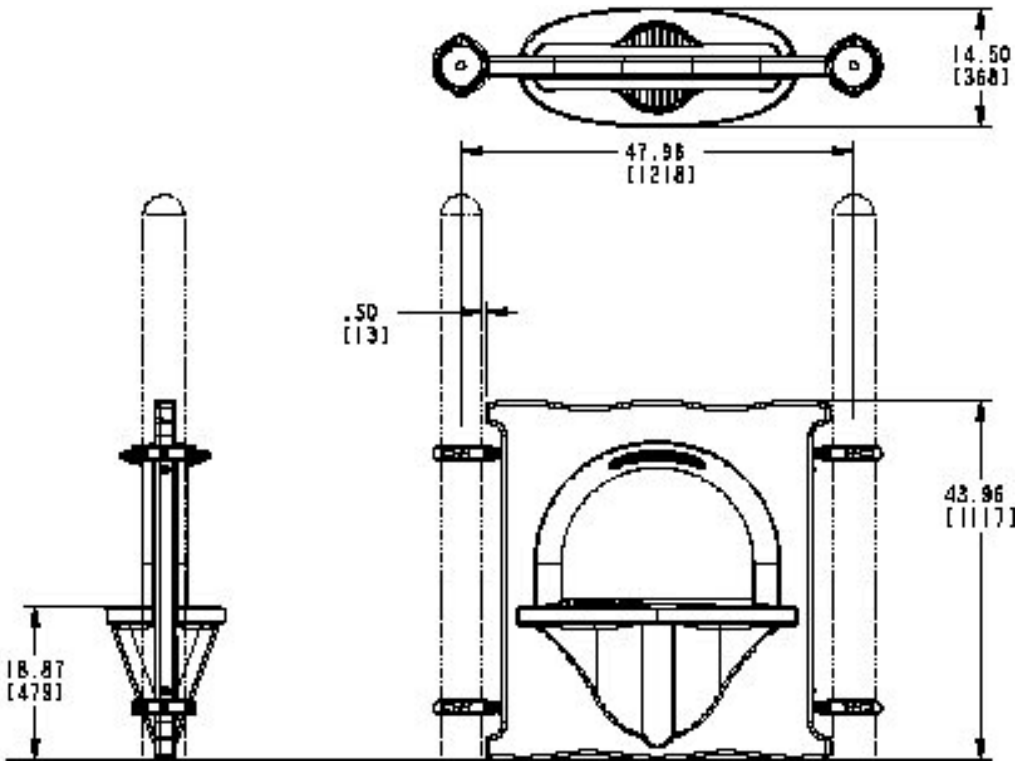
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

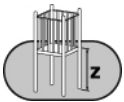


Footing Diagram

Top View



Elevation Views

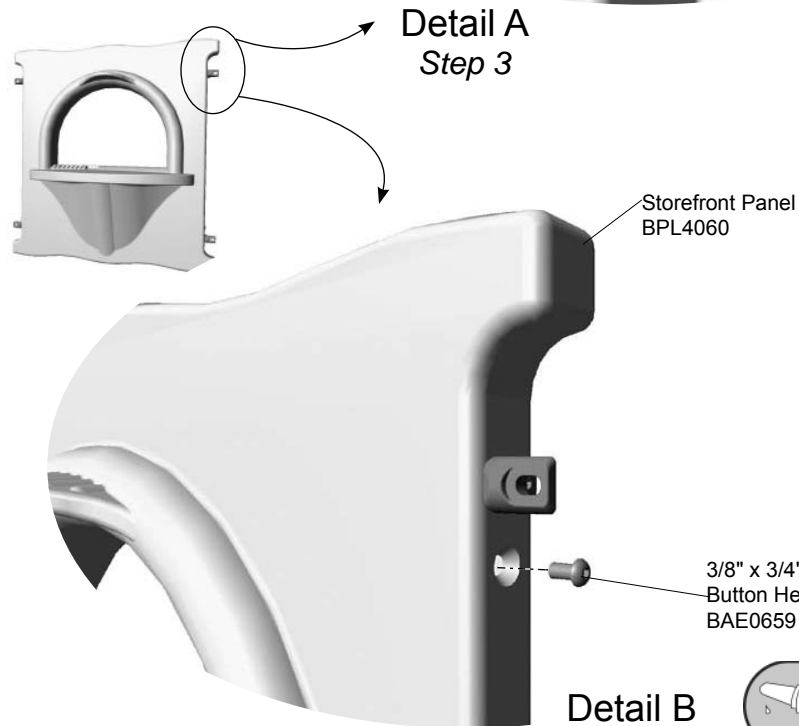
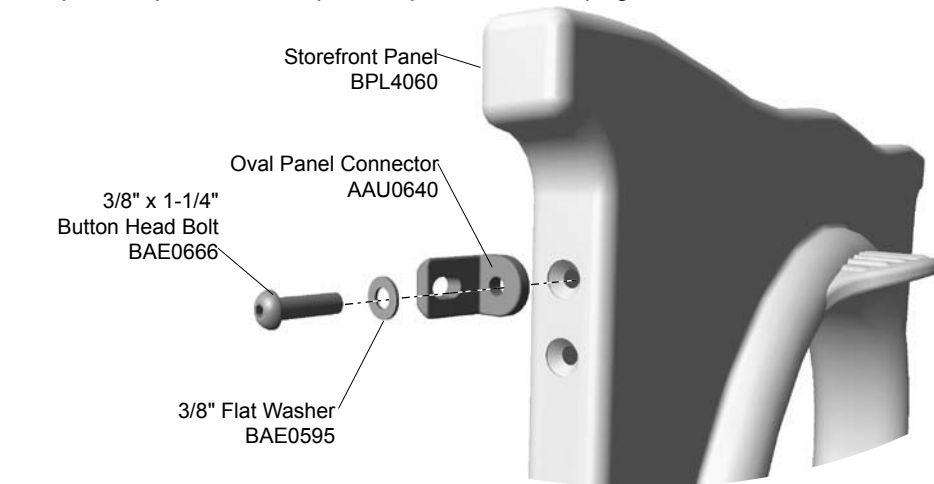


18.9" (480 mm)

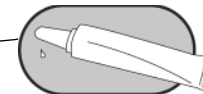
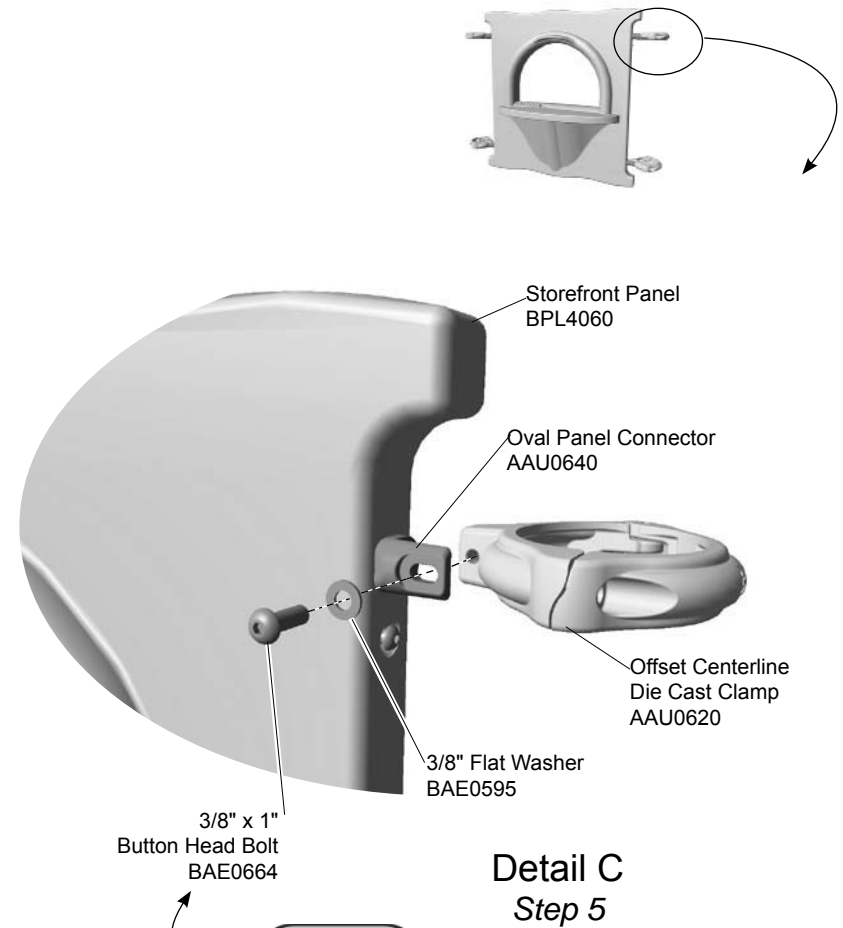
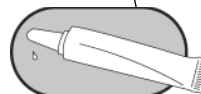


Installation Instructions

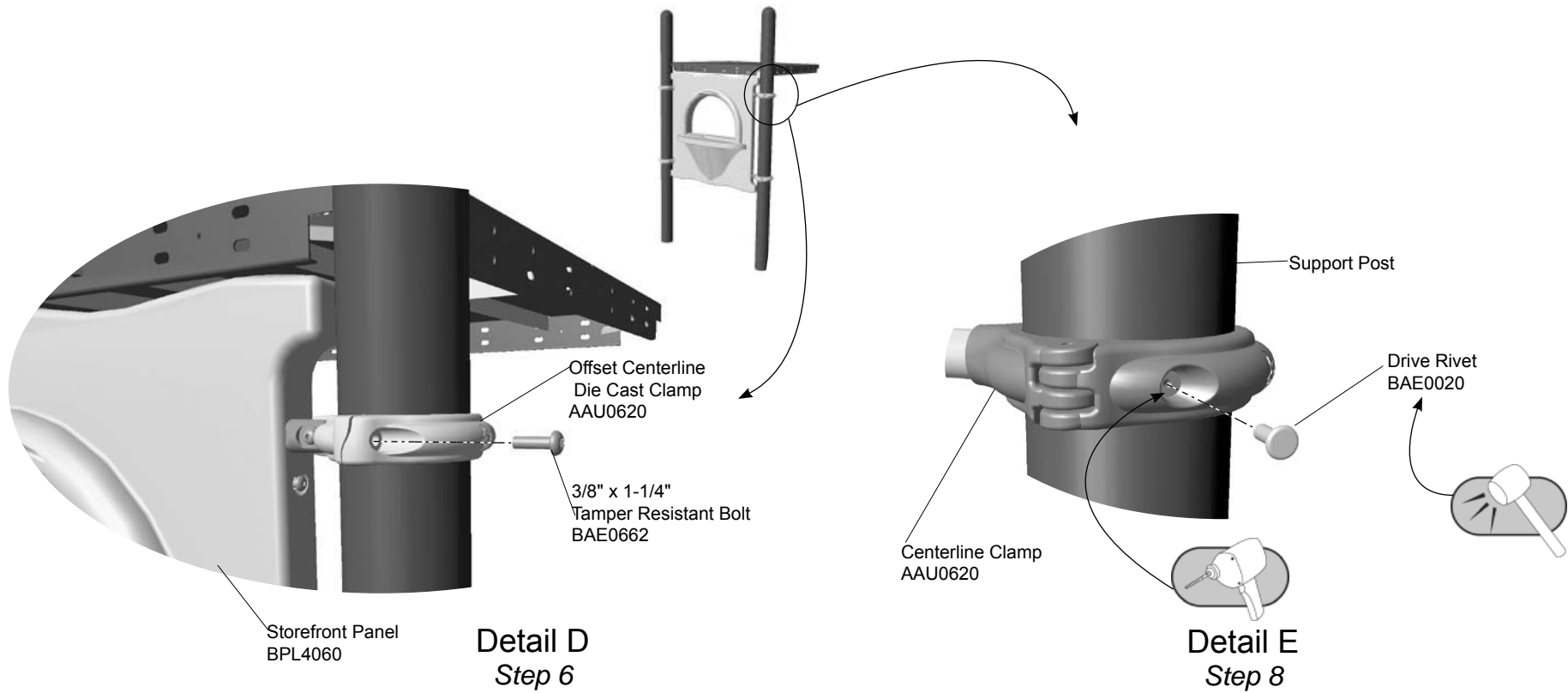
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail B
Step 4



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

Step 3: Attach the panel connectors to the storefront panel. See **Detail A**. Select the storefront panel, the oval panel connectors, and the appropriate hardware. There are (4) connections. Turn the connectors so that the flat sides are all on the same side. Attach as shown.

Note: The panel has two connection points to attach the panel connectors. The upper and lower connection points are provided if you experience a conflict with adjacent components. In the event of a clamp interference, select the location that best suits your condition.

Step 4: Fill the unused panel holes. See **Detail B**. Select the appropriate hardware. There are (4) four connections. Apply a drop of loctite and attach as shown.

Attach the clamps to the panel.

Step 5: Attach the clamps to the panel. See **Detail C**. Select the clamps and the appropriate hardware. There are (4) four connections. Place a clamp against the flat side of each connector and align the holes. Apply a drop of loctite to the bolt threads and attach as shown.

Note: Make sure that each clamp opens in the same direction.

Attach the panel to the support posts.

Step 6: Attach the storefront panel to the support posts. See **Detail D**. Select the storefront panel and the appropriate hardware. There are (4) four connections. Position the storefront at the appropriate height and attach as shown.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

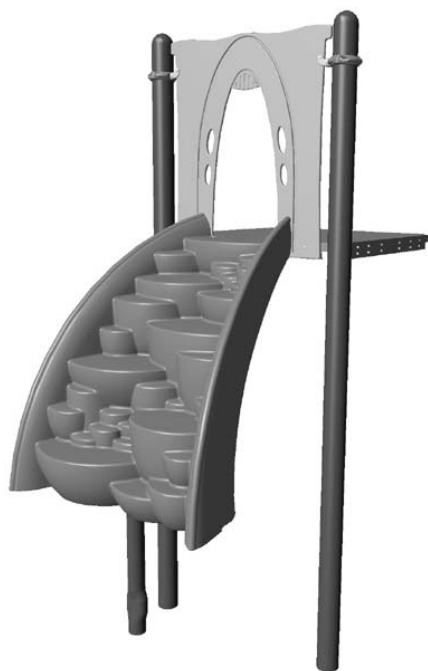
PM4646 - STOREFRONT PANEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0640	CONNECT - OVAL PANEL	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BPL4060	PANEL - 42" STOREFRONT	1



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Assembly View

Installation Instructions




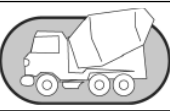
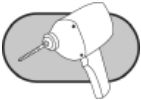

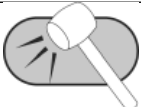
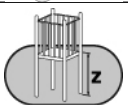
Playmakers® Model PM7439

Rock Climber To Deck

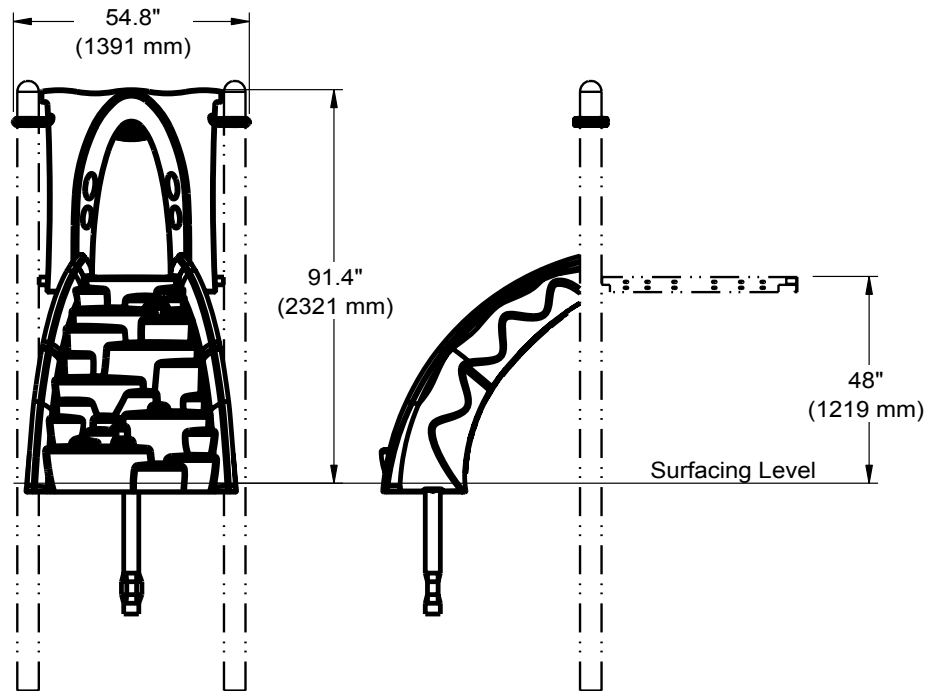
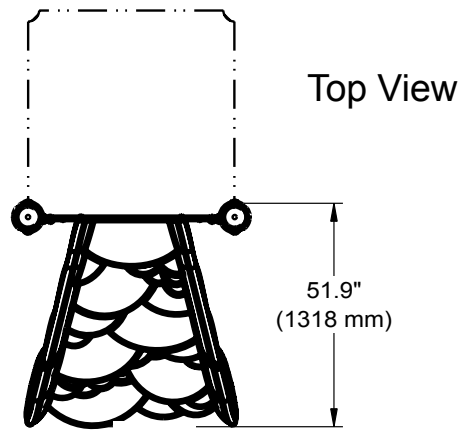
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

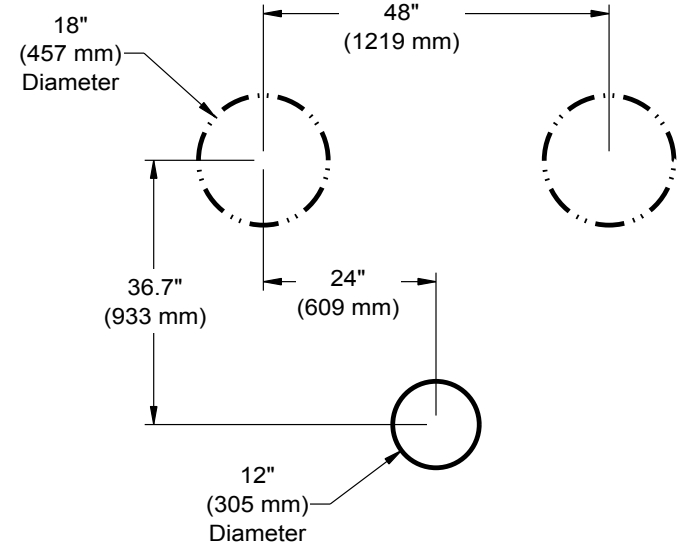
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

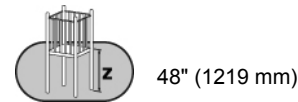
Installation Instructions



Elevation Views



Footing Diagram

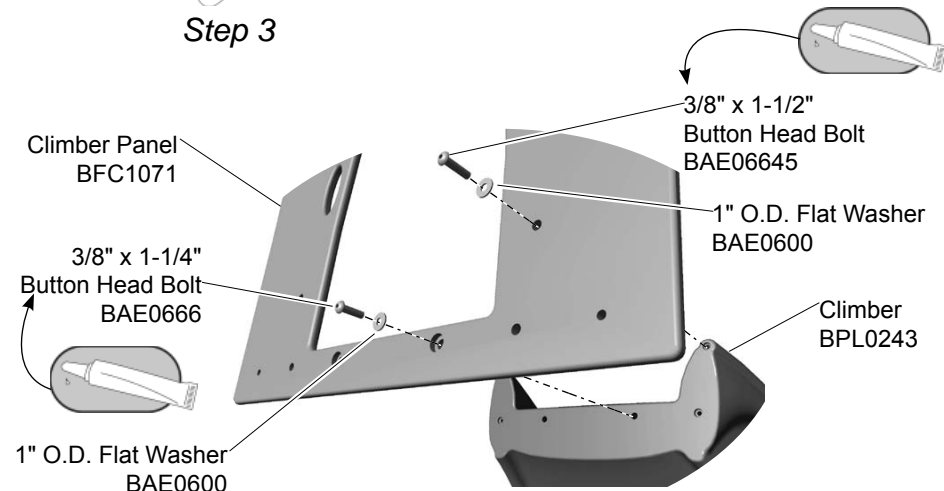


Installation Instructions

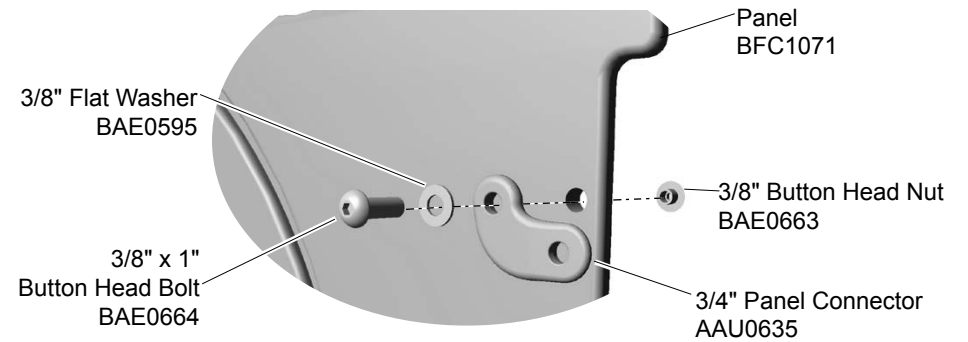
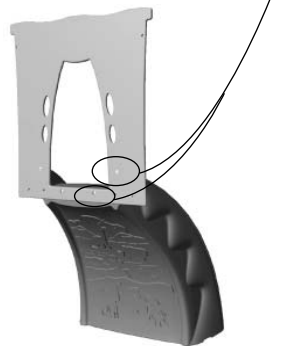
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



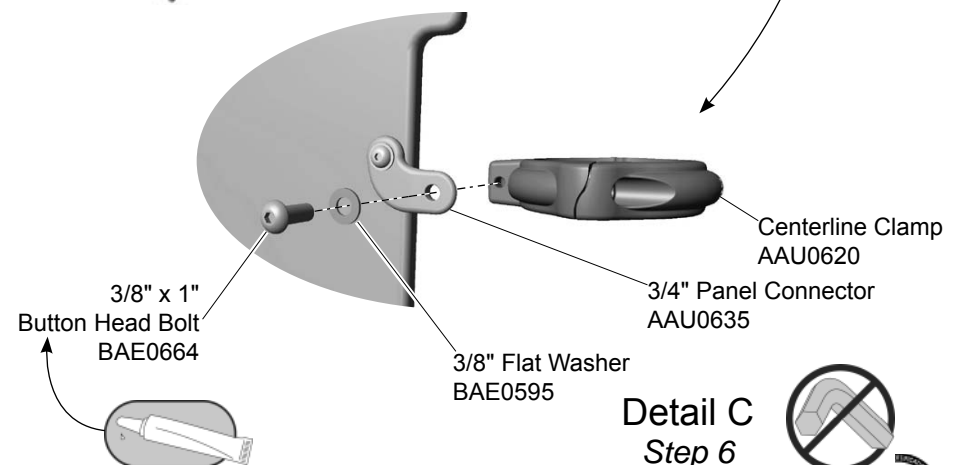
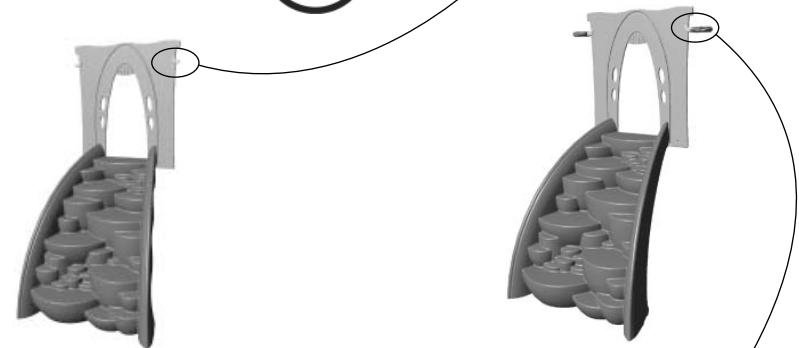
Step 3



Detail A
Step 4



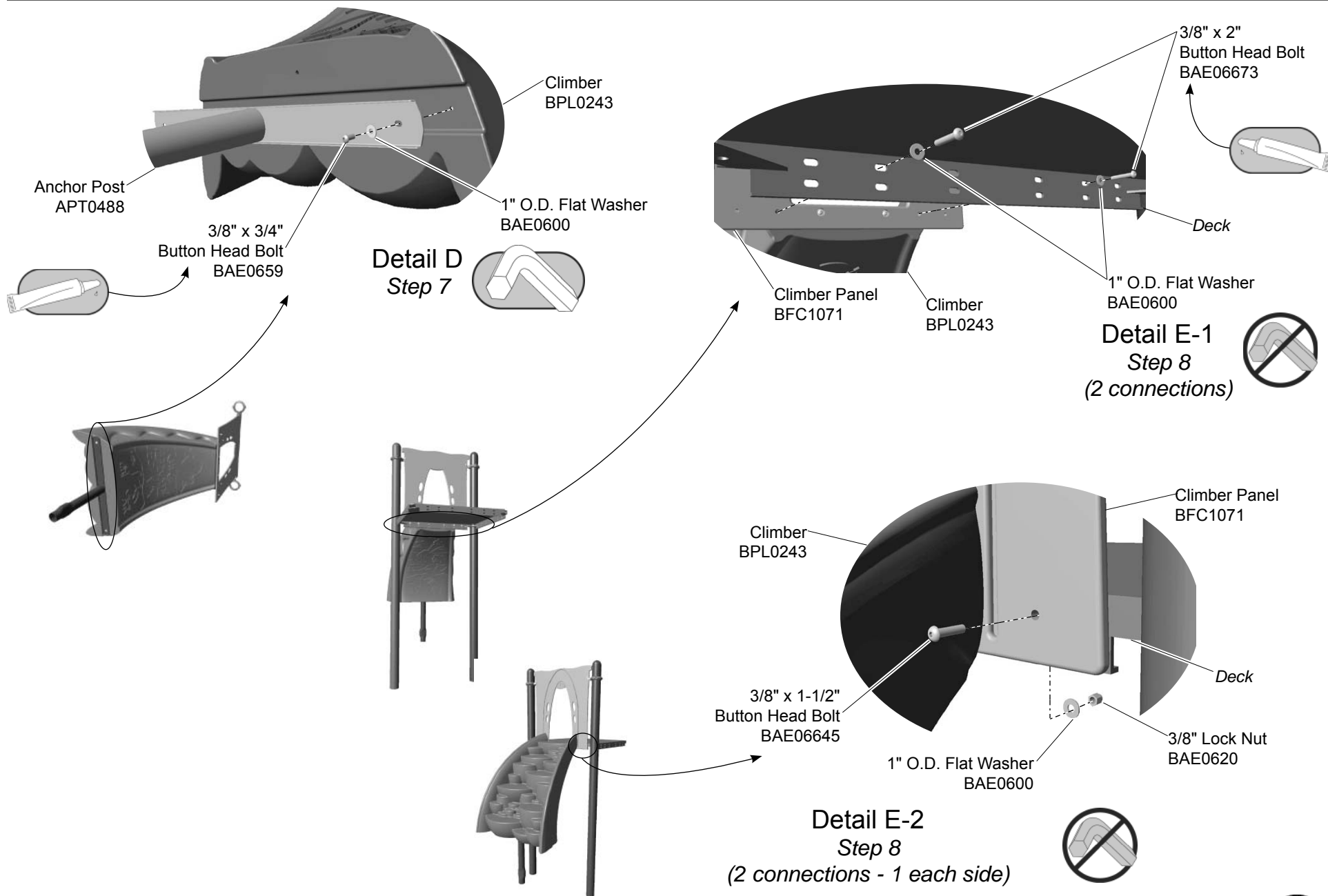
Detail B
Step 5



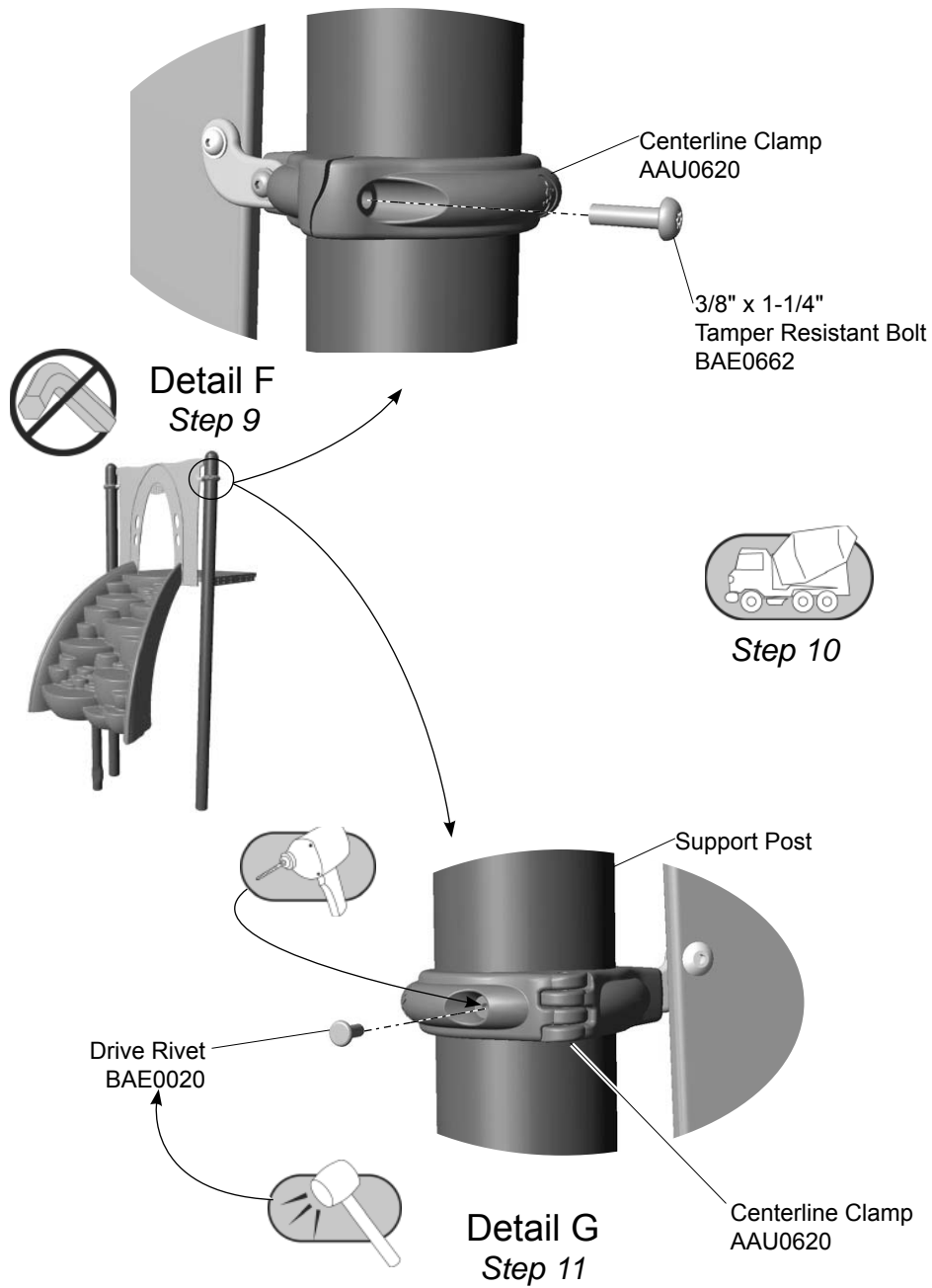
Detail C
Step 6



Installation Instructions



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footing as shown in the **Component Footing Details**. See the *Playmaker Guidelines*.

Attach the climber panel to the climber.

Step 4: Attach the climber panel to the panel. See **Detail A**. Select the climber panel, the climber, and the appropriate hardware. There are (2) two connections for each size bolt. With the flat side of the panel facing away from the climber, apply a drop of loctite to the bolt threads and attach the panel to the climber as shown. Fully tighten connections. The *bottom outside* holes must be left open for attachment to the deck.

Attach the panel connectors and clamps to the panel.

Step 5: Attach the panel connectors to the panel. See **Detail B**. Select (2) two panel connectors, and the appropriate hardware. Attach the *short* leg of the connectors to the climber side of the panel as shown.

Step 6: Attach the clamps to the connectors. See **Detail C**. Select (2) two offset centerline clamps, and the appropriate hardware. Attach each clamp to the *panel* side of a connector as shown.

Step 7: Attach the anchor post to the climber. See **Detail D**. Select the anchor post and the appropriate hardware. There are (2) two connections. Apply a drop of loctite to the bolt threads and attach the anchor post to the bottom of the climber as shown. Fully tighten connections.

Step 8: Attach the climber and panel to the deck. See **Details E1 and E2**. Select the climber assembly and the appropriate hardware. There are (4) four total connections, (2) two for each size bolt. With adequate manpower, lift the climber into place against the deck with the support post in the footing. Attach to the deck as shown in the details. Apply a drop of loctite to the 2" bolt threads before threading into to climber.

Secure the clamps to the support posts.

Step 9: Secure the centerline clamps to the support posts. See **Detail F**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Attach each clamp to a post as shown.

Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Step 11: Install the drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM7439 - ROCK CLIMBER TO DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
APT0488	POST - 45.00" x 22.42" x 3.75"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMRP RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	2
BFC1071	SHEET - 42.00" x 47.00" x .75" ROCK CLIMBER PANEL	1
BPL0243	ROCK CLIMBER	1



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Assembly View (representative model)

Model	Deck Height
ZZPM8100	36" (915 mm)
ZZPM8110	48" (1220 mm)
ZZPM8120	60" (1525 mm)
ZZPM8130	72" (1830 mm)

Installation Instructions

Playmakers® Models PM8100-PM8130


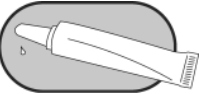

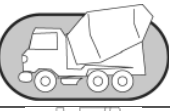

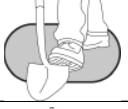
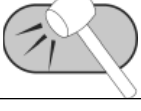
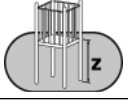
Beanstalk Climber

36 in. (914 mm) to 72 in. (1829 mm) decks

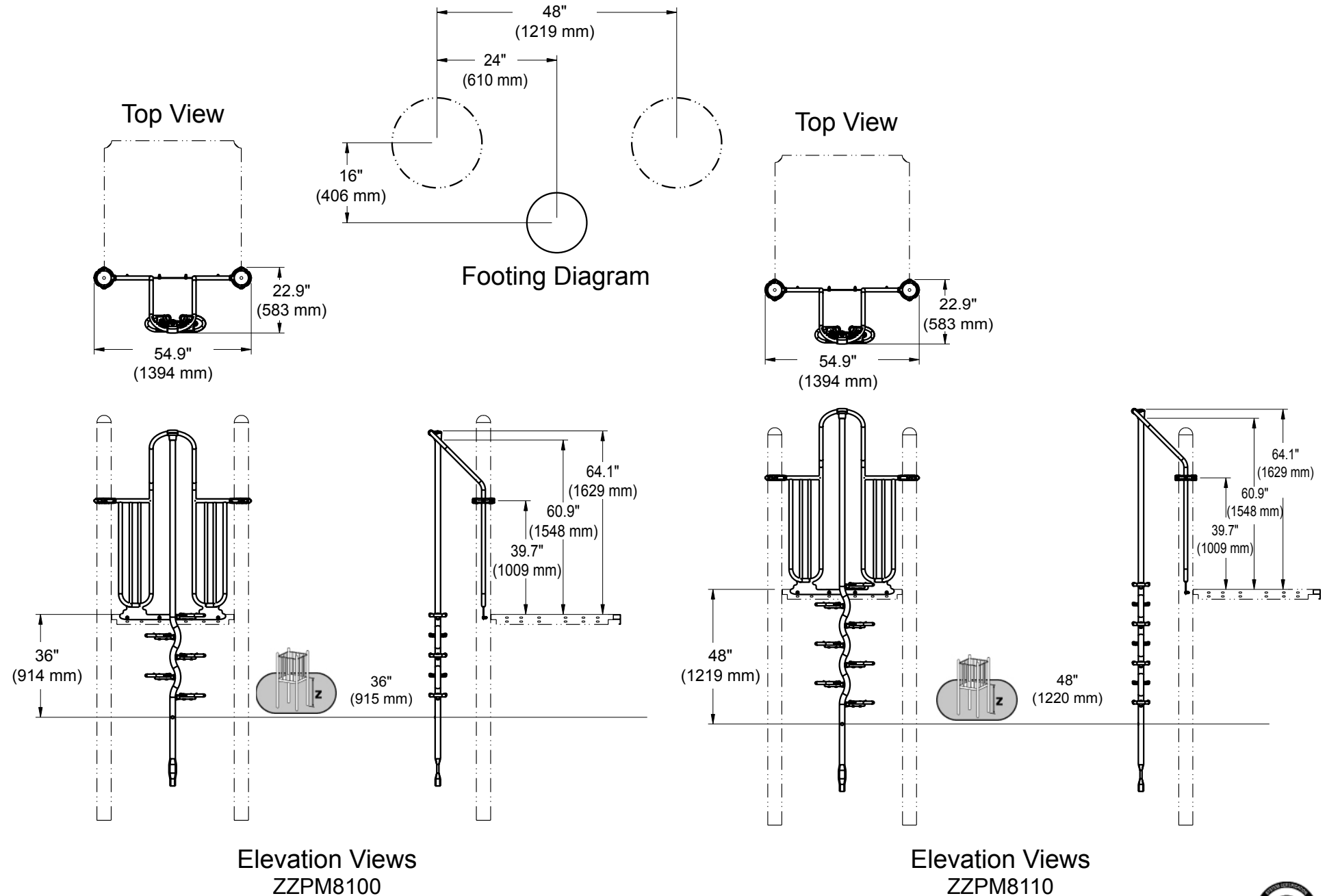
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.03 cubic yard (0,02 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

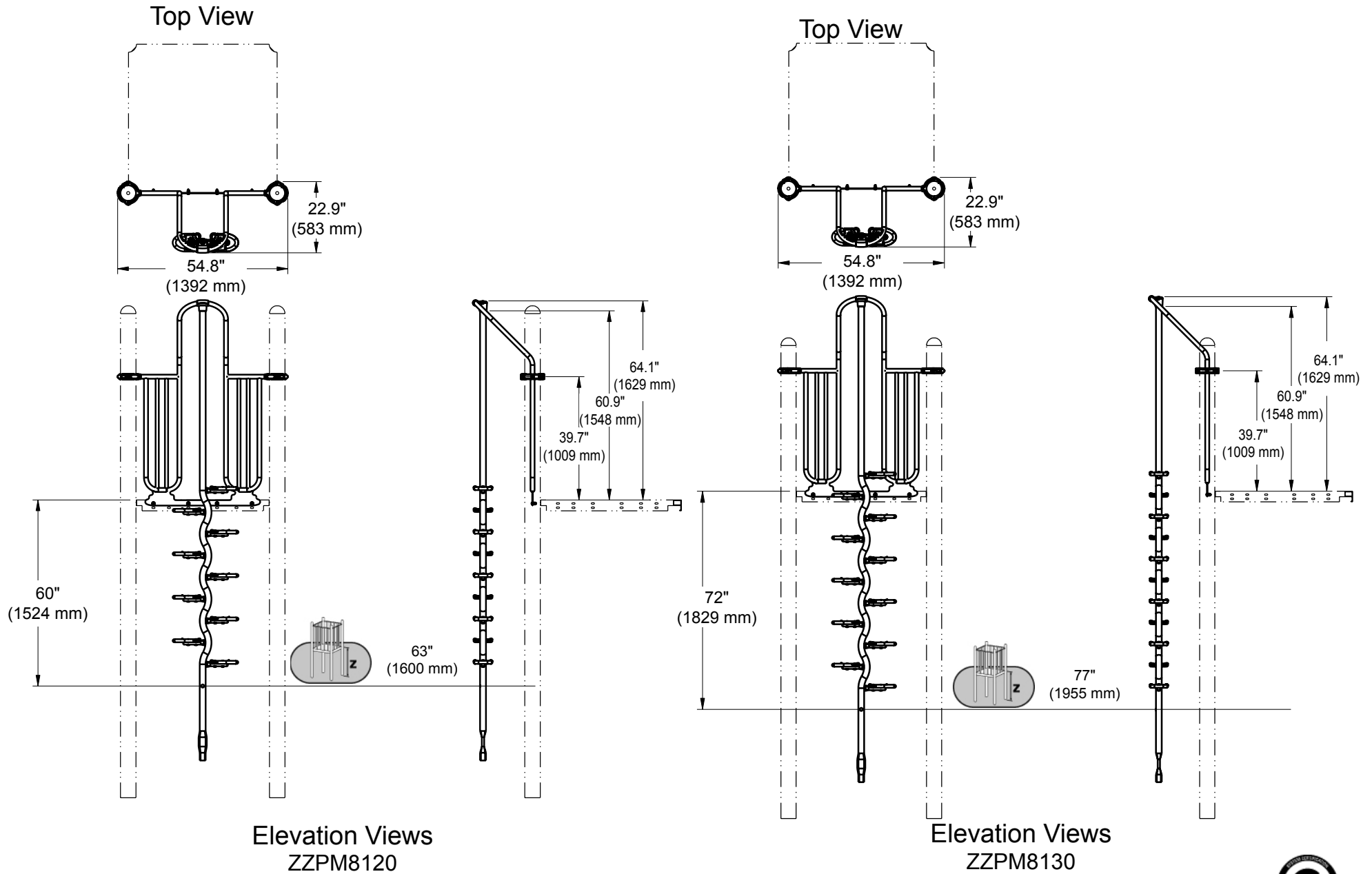
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

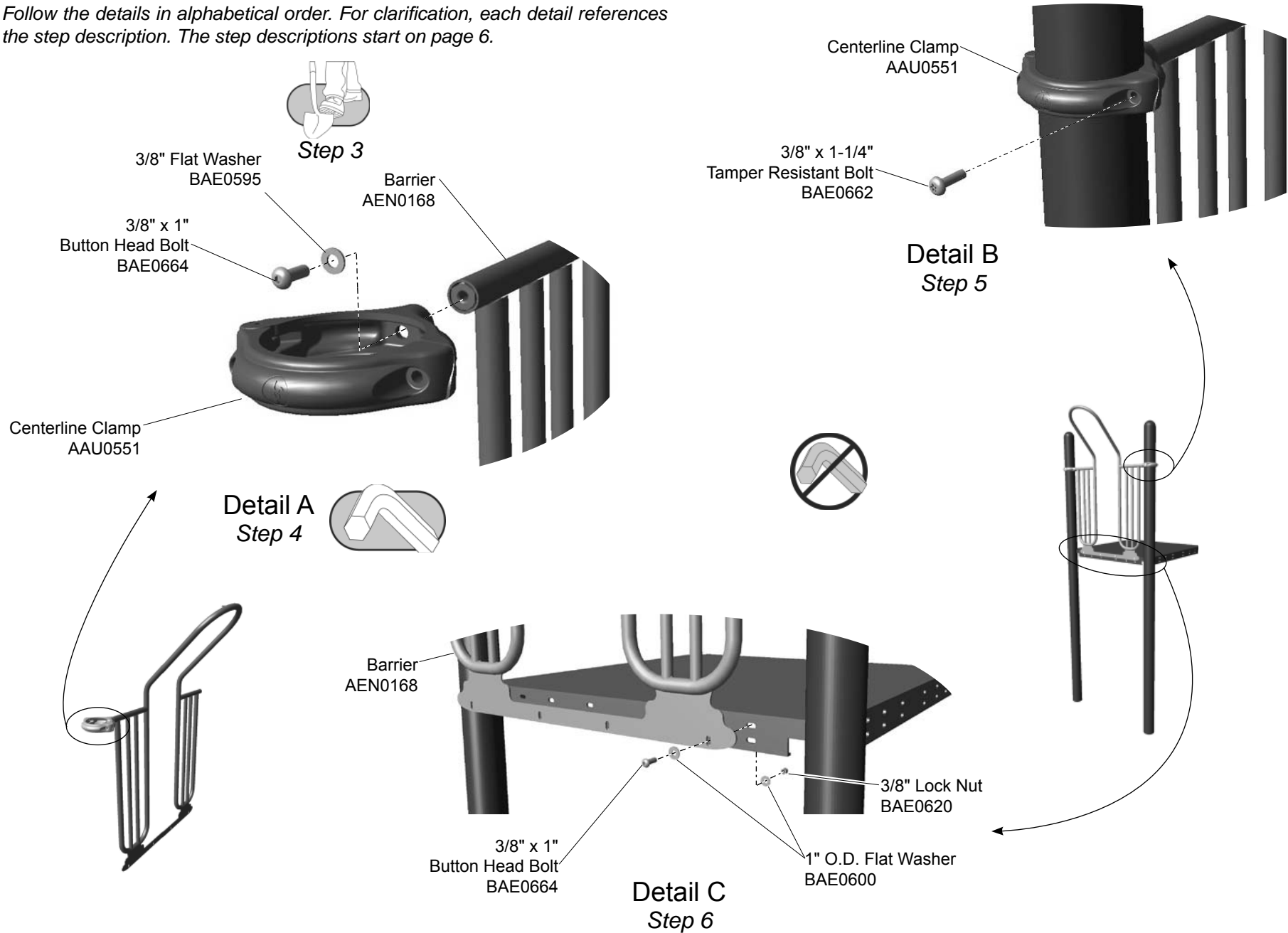


Installation Instructions

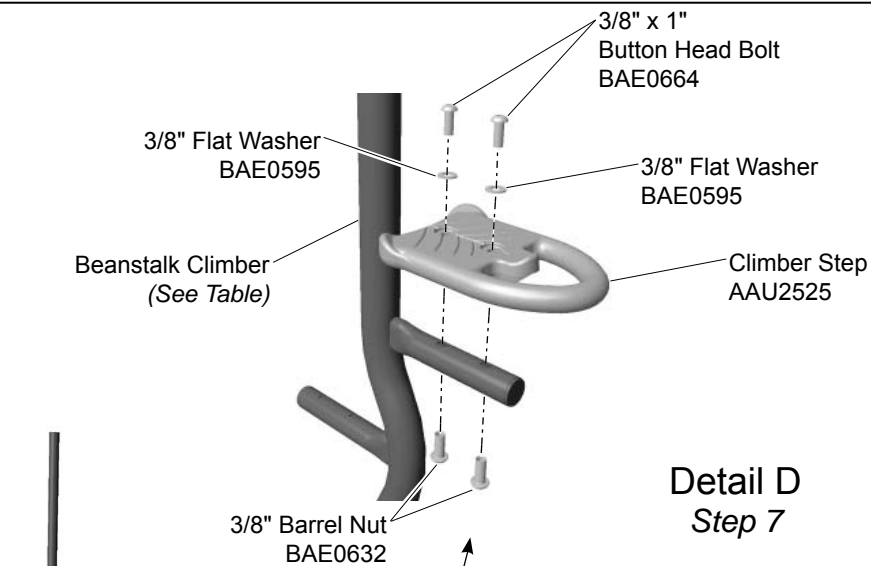


Installation Instructions

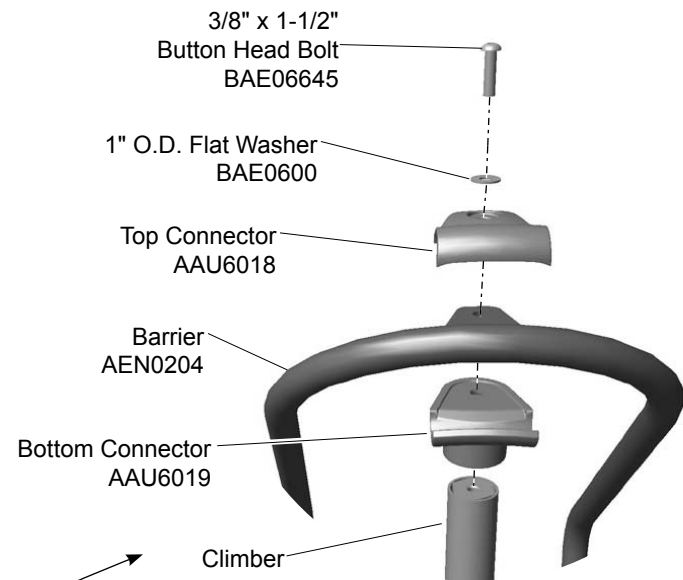
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



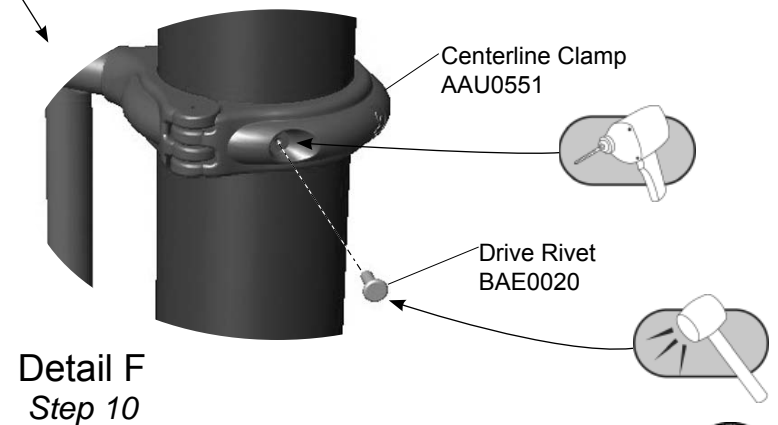
Detail D
Step 7



Detail E
Step 8



Step 9



Detail F
Step 10

Climber Deck Height	Climber Part Number	Number Of Step/Handles
36 in. (914 mm)	ACL0047	5
48 in. (1219 mm)	ACL0048	7
60 in. (1524 mm)	ACL0049	9
72 in. (1829 mm)	ACL0050	11

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet.

Attach the centerline clamps to the arch entry barrier.

Step 4: Attach the centerline clamps to the arch entry barrier. See **Detail A**. Select the arch entry barrier, (2) two clamps, and the appropriate hardware. Position the socket of the clamp over the threaded portion of the barrier top rail, make and fully tighten connections as shown. Ensure the clamps face the same direction.

Attach the centerline clamps to the support posts.

Step 5: Attach the clamps to the support posts. See **Detail B**. Select (2) two 3/8" x 1-1/4" tamper resistant bolts. Lift the barrier into position against deck, close the clamps around the posts and attach as shown.

Attach the barrier to the deck.

Step 6: Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. There are (4) four connections. The arch entry barrier can be attached to either *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Select the desired set of holes and attach as shown.

Attach the step/handle to the climber.

Step 7: Attach the step/handle to the climber. See **Detail D**. Select the climber weldment, the appropriate *number* of step/handles (*see the table on the detail page*), and the appropriate amount of hardware. There are **(2) two** connections per step. Position each step onto a climber branch and attach as shown.

Attach the climber to the barrier.

Step 8: Attach the climber to the barrier. See **Detail E**. Select the climber assembly, the top and bottom climber connectors, and the appropriate hardware. Slide the climber into the bottom of the lower connector. Place the climber into the excavated footing. Sandwich the barrier tab and rail with the top and bottom climber connectors and attach as shown.

Important Note: When tightening the climber bolt, insure that the climber is parallel to the deck as shown in **Elevation Views**.

Final Details.

Step 9: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

Step 10: Install drive rivets. See **Detail F**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



ZZPM8100 - 36 in. (914 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	5
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0047	CLIMBER - 36" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	12
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8110 - 48 in. (1219 mm) BEANSTALK CLIMBER

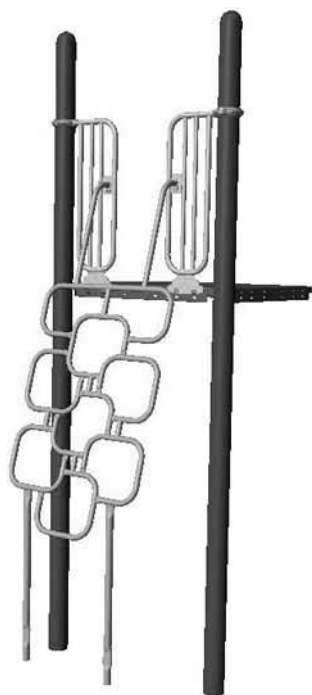
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	7
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0048	CLIMBER - 48" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8120 - 60 in. (1524 mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	9
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0049	CLIMBER - 60" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	18
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	24
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

ZZPM8130 - 72 in. (1829mm) BEANSTALK CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU2525	HANDLE - BEANSTALK CLIMBING STEP	11
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
ACL0050	CLIMBER - 72" BEANSTALK w/LABEL AT 24"	1
AEN0168	BARRIER - ARCH ENTRY 65-31/32" x 41"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	28
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1



Assembly View (representative model)

Model	Deck Height
ZZPM8260	48" (1220 mm) and 54" (1372 mm)
ZZPM8270	60" (1525 mm) and 66" (1676 mm)
ZZPM8280	72" (1830 mm)

Installation Instructions

Playmakers® Models PM8260,
PM8270, and PM8280

Hopscotch Climber

48 in. (1219 mm), 54 in. (1372 mm), 60 in. (1524 mm),
66 in. (1676 mm), 72 in. (1829 mm)

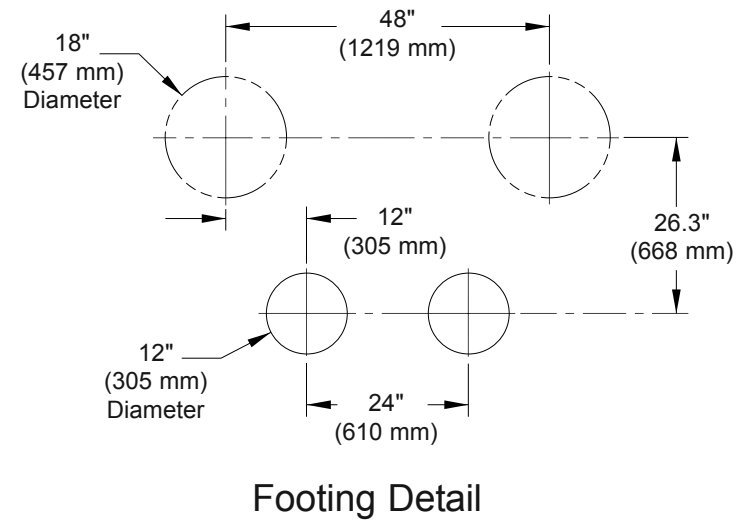
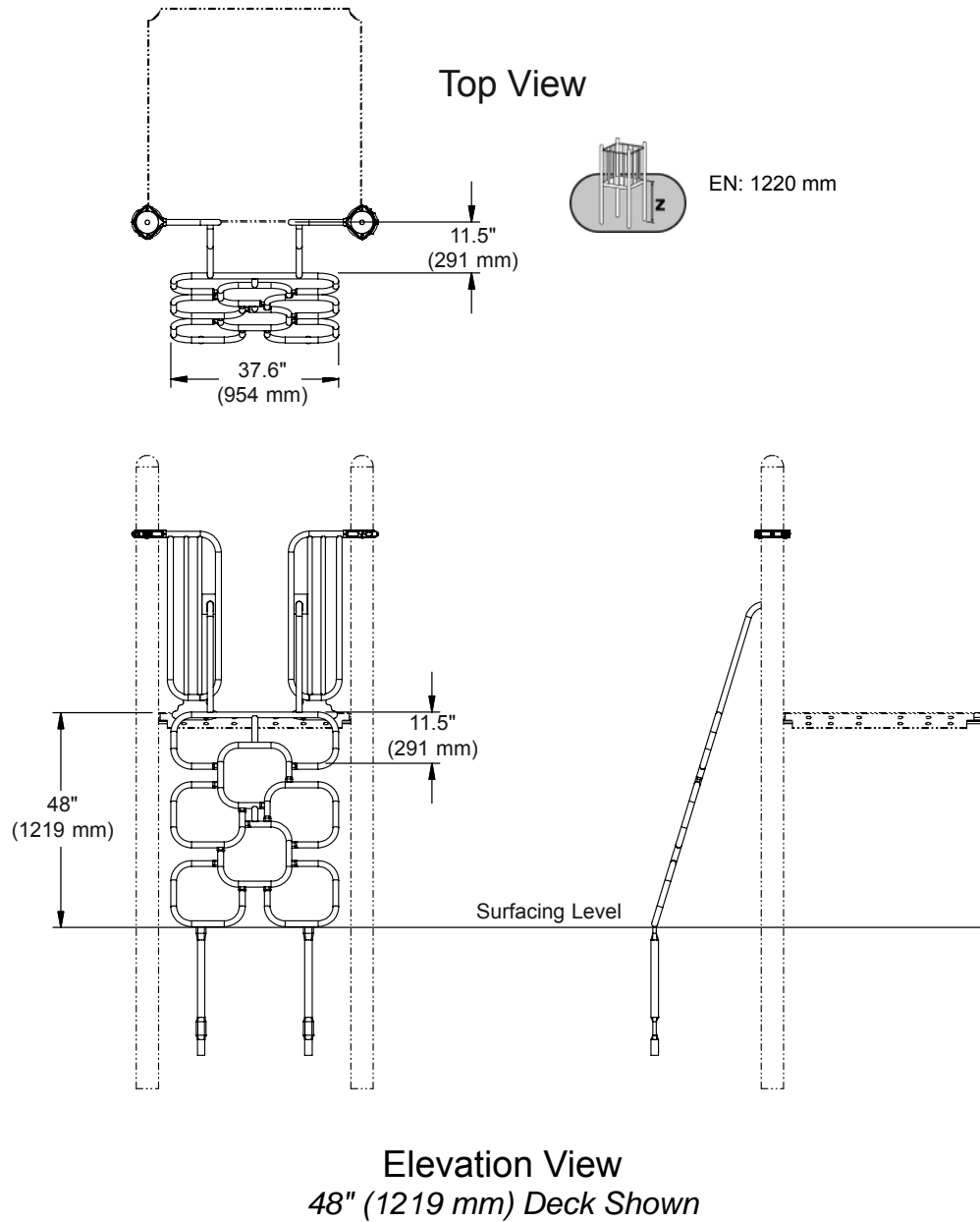
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.06 cubic yard (0,05 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): 48"-60": ASTM/CSA: 2-12, EN: 2-14
 60"-72": ASTM/CSA: 5-12, EN: 6-14

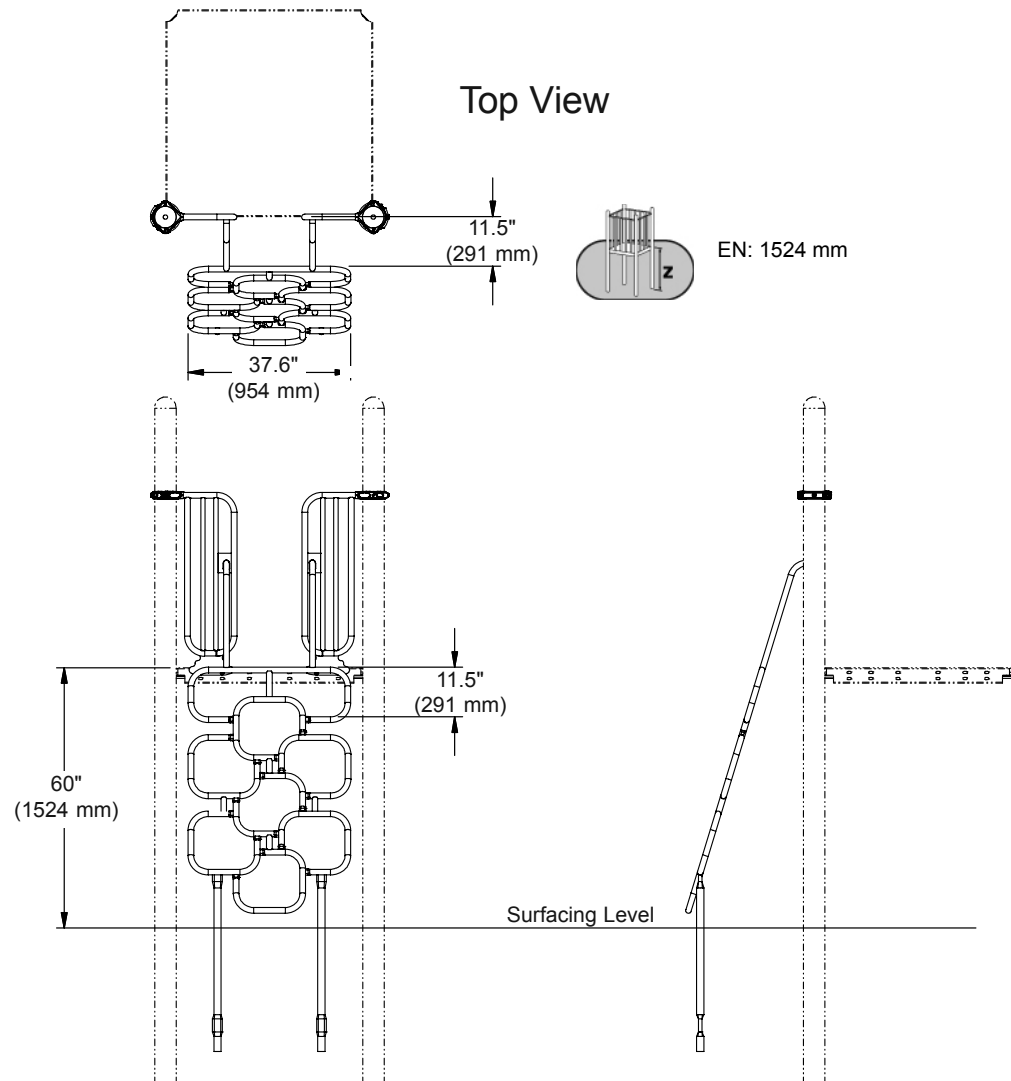
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

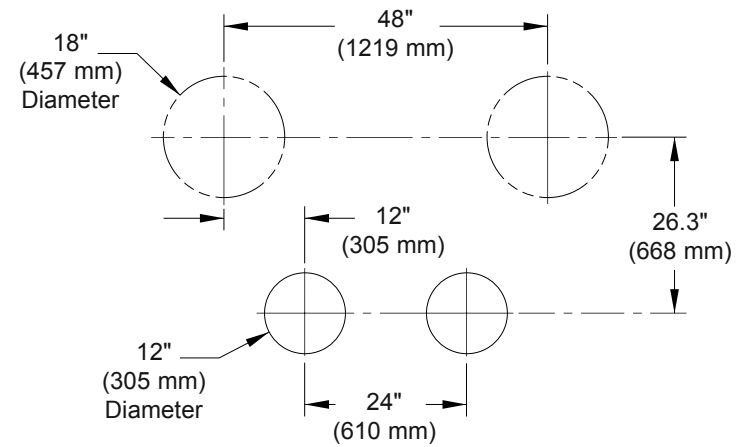
Installation Instructions



Installation Instructions

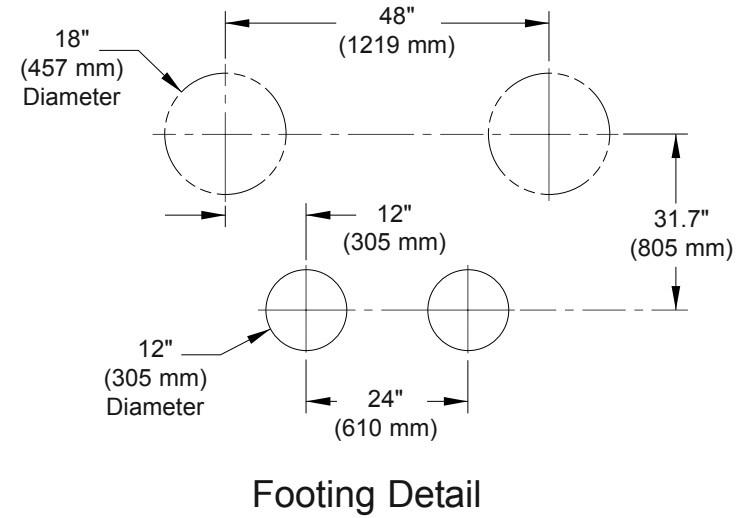
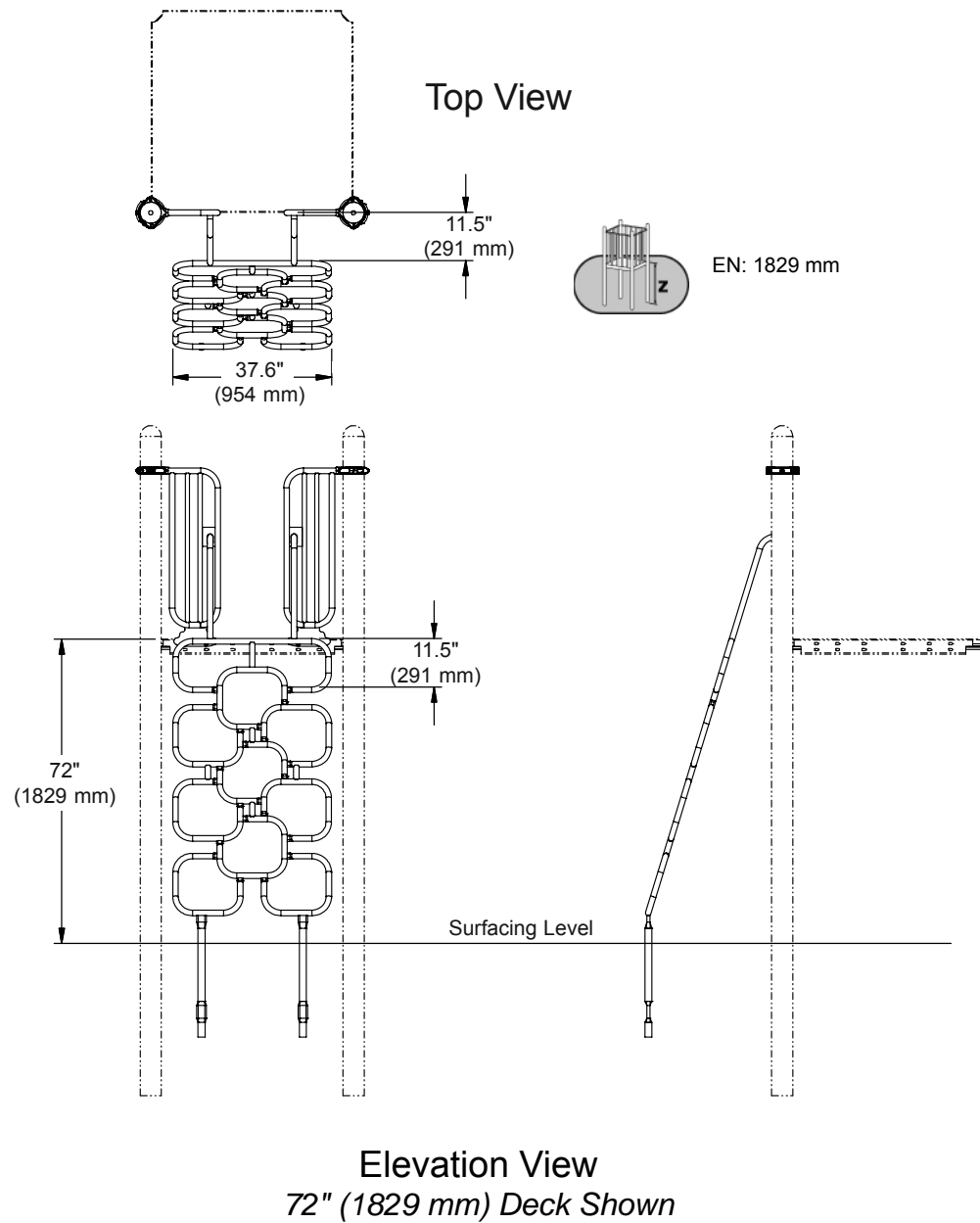


Elevation View
60" (1524 mm) Deck Shown



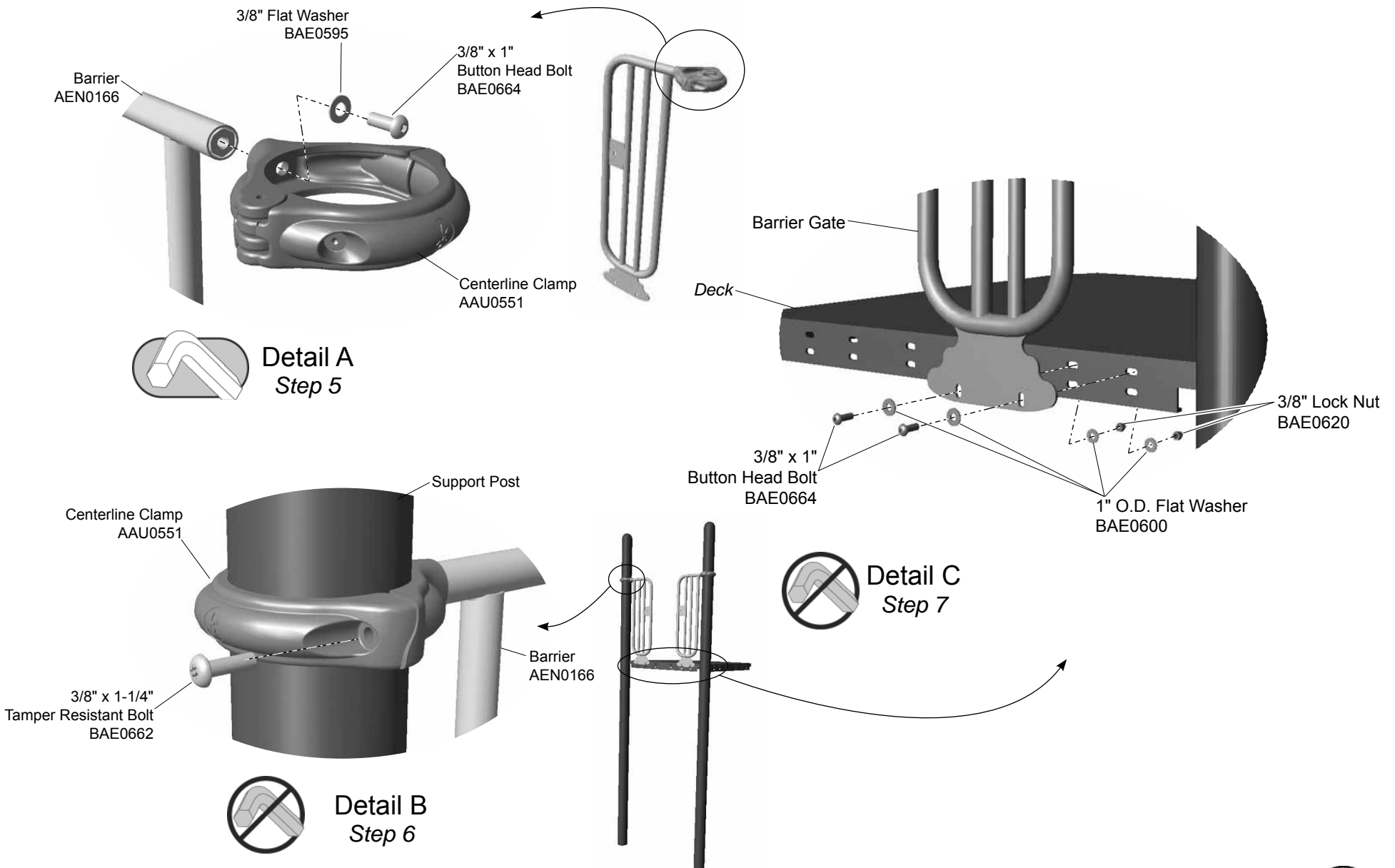
Footing Detail

Installation Instructions

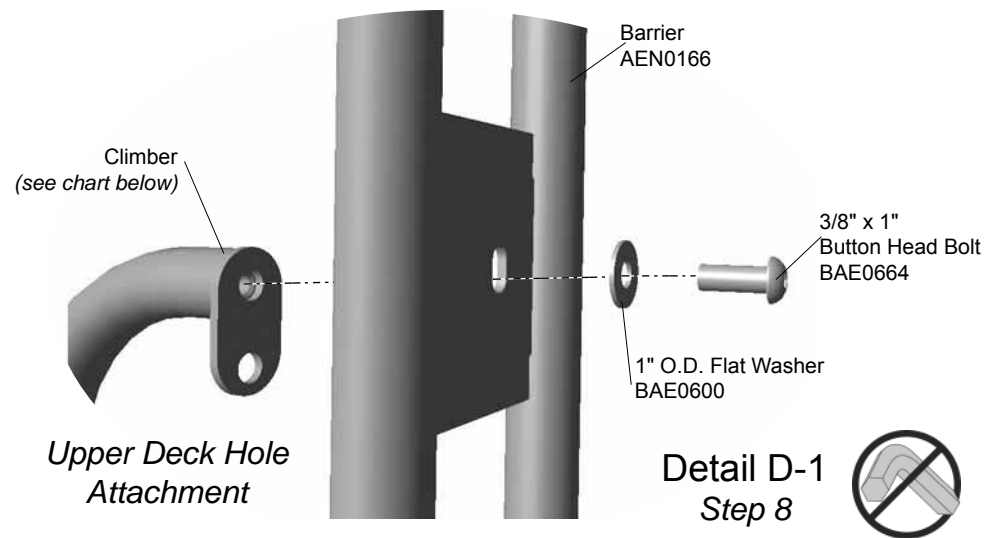


Installation Instructions

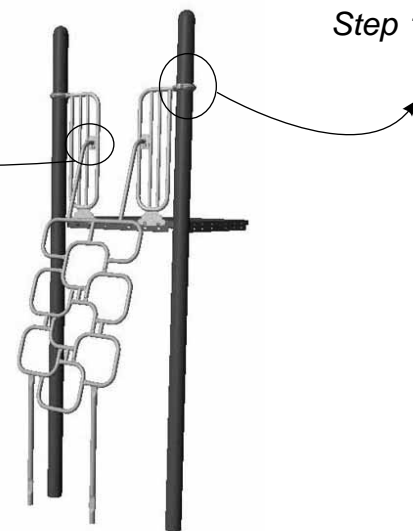
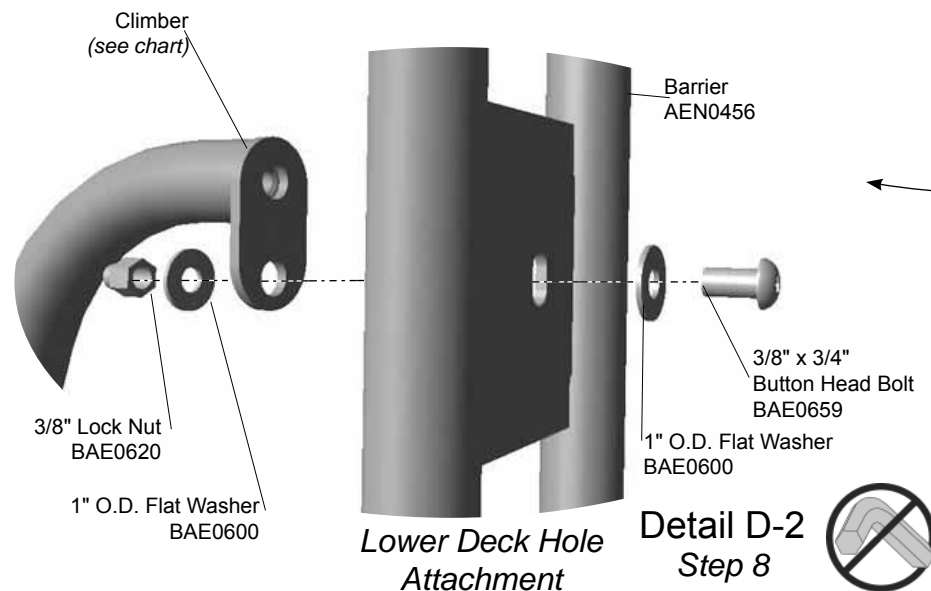
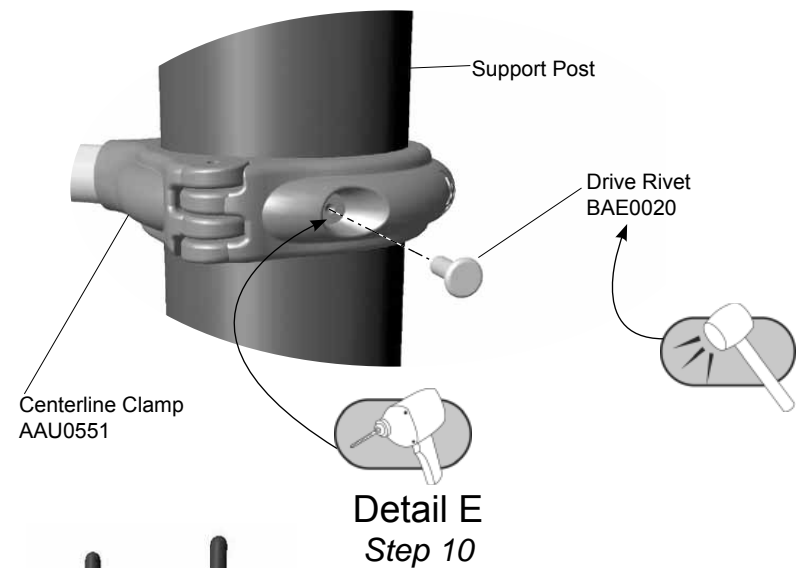
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Installation Instructions



Deck Height	48 in. (1219 mm) 54 in. (1372 mm)	60 in. (1524 mm) 66 in. (1676 mm)	72 in. (1829 mm)
Climber Part No.	ACL0055	ACL0057	ACL0059



Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

__Step 3: Determine the placement and orientation of the hopscotch climber by referring to the master footing diagram and the associated **Elevation View**.

__Step 4: Excavate holes as shown in the **Component Footing Details** in the Playmaker® guidelines for the 48", 60", and 72" deck heights. **For the 54" and 66" deck heights, make the footing depth 24"**.

Attach the clamps to the barrier gates.

__Step 5: Attach the clamps to the barrier gates. See **Detail A**. Select the barrier gates, clamps, and the appropriate hardware. There are (2) two connections. Place a clamp against the top of each barrier gate. Attach as shown. Fully tighten the connection with the clamp hinge facing the deck.

Attach the clamp to the support post.

__Step 6: Attach the clamp assembly to the support post. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the gates into position against the deck. Close the clamps around the support posts. Attach as shown. Leave the clamp connection loose for deck connection adjustments.

Attach the barrier gates to the deck.

__Step 7: Attach the barrier gates to the deck. See **Detail C**. Select the appropriate hardware. There are (2) two connections. Align the gates with either the *top or bottom* holes in the deck. Insert each bolt through a flat washer, the gate, the deck, another flat washer, and secure with a lock nut.

Note: The gates may be adjusted to eliminate any clamp conflicts by selecting the upper or lower holes on the deck. Both of the gates should be mounted at the same height.

Attach the climber to the gates.

__Step 8: Attach the climber to the gates. See **Detail D-1 and D-2**. Select the hopscotch climber and place into the excavated footings. Follow the instructions that apply to your gate to deck connection.

Attachment of the Gate to the Upper Holes in the Deck: Select the appropriate hardware. See **Detail D-1**. There are (2) two connections. Position the ends of the climber against the gate plates and align the holes. Attach as shown.

Attachment of the Gate to the Lower Holes in the Deck Select the appropriate hardware. See **Detail D-2**. There are (2) two connections. Position the climber tabs against the gate plates and align the holes. Attach as shown.

Final Details.

__Step 9: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__Step 10: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM8260- 48 in. (1219 mm) & 54 in. (1372 mm) HOPSCOTCH CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0055	CLIMBER - 48" AND 54" HOPSCOTCH WDMT.	1
AEN0166	BARRIER - 13" x 42-3/16" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

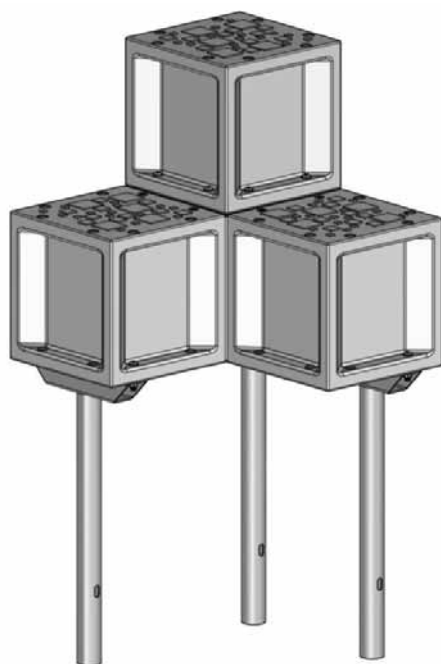
PM8270- 60 in. (1524 mm) & 66 in. (1676 mm) HOPSCOTCH CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0057	CLIMBER - 60" AND 66" HOPSCOTCH WDMT.	1
AEN0166	BARRIER - 13" x 42-3/16" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM8280- 72 in. (1829 mm) HOPSCOTCH CLIMBER

AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0059	CLIMBER - 72" HOPSCOTCH WDMT.	1
AEN0166	BARRIER - 13" x 42-3/16" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8





Assembly View (representative model)

Installation Instructions

Universal Models ZZUN7098 and ZZUN7098S


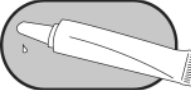

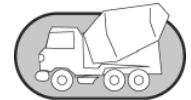



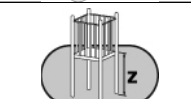
QuBits™ - Layout #2

In-ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (in-ground): 2.5 man-hours
 Installation Time (surface mount): 1.5 man-hours
 Concrete Required (in-ground): 0.09 cubic yard (0,06 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

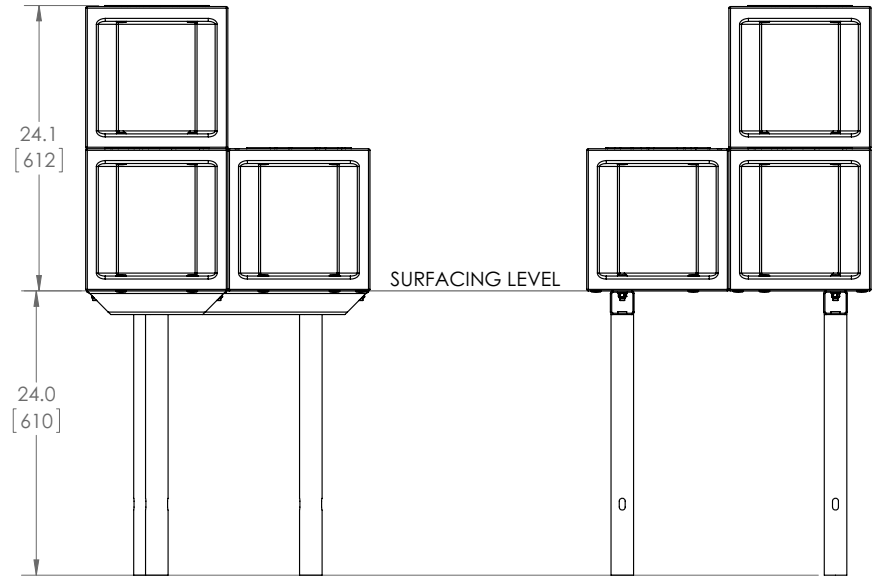
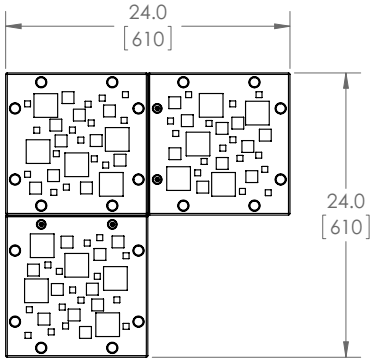
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

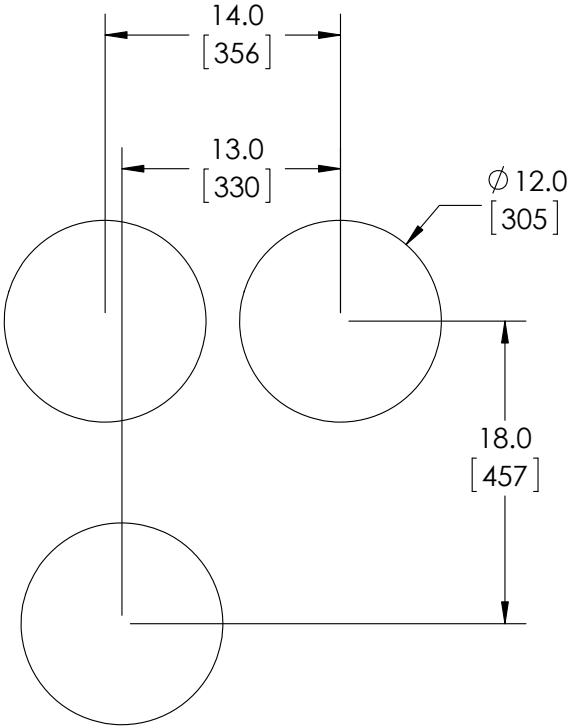
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View



Elevation Views
ZZUN7098

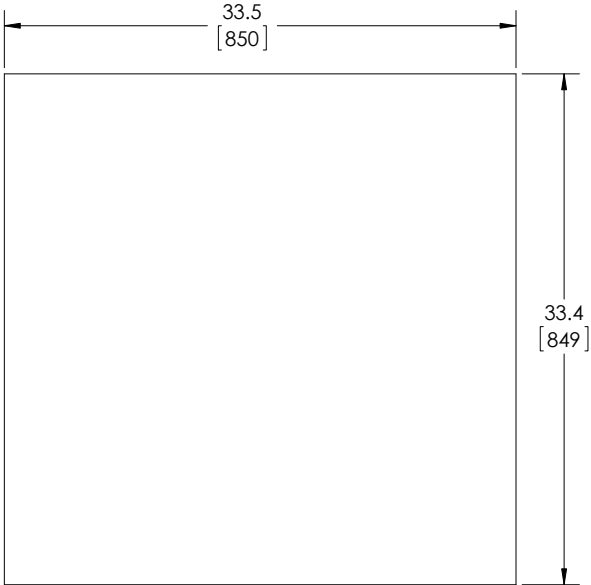
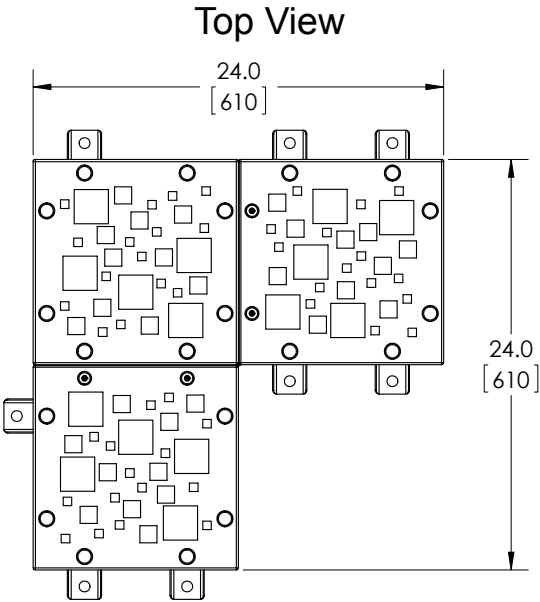


Footing Diagram

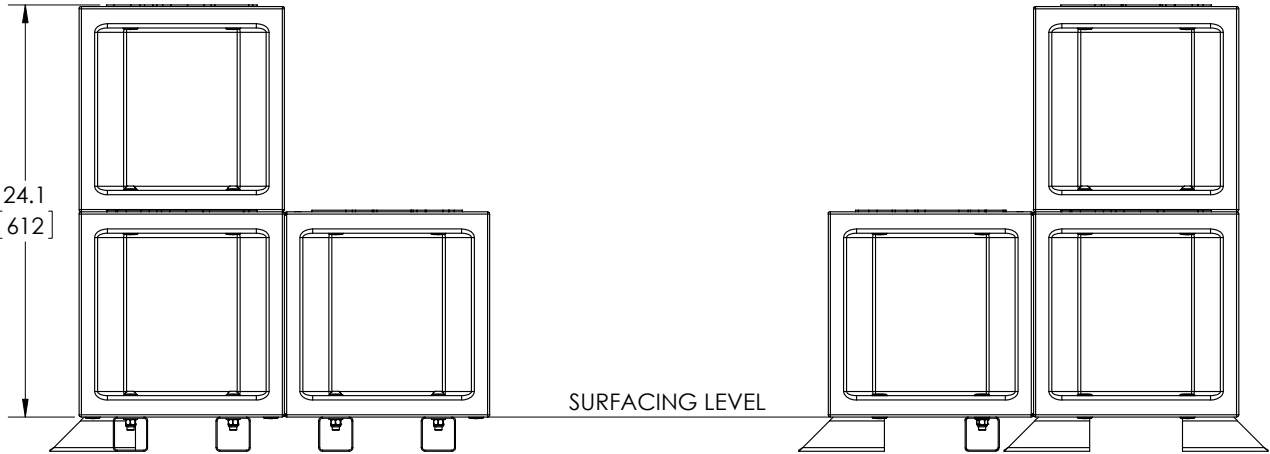


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



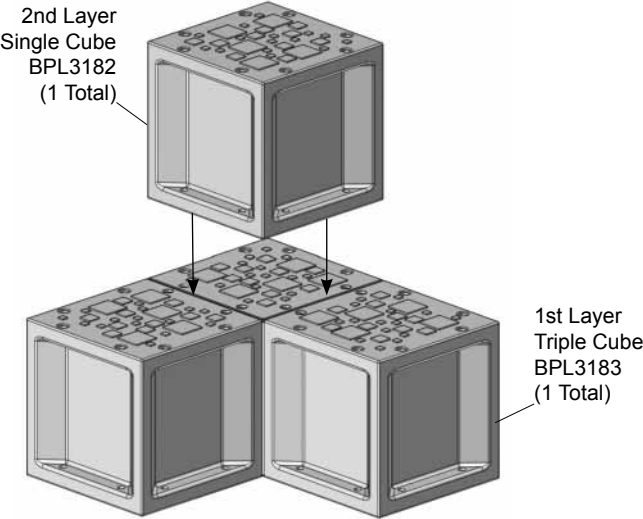
Footing Diagram



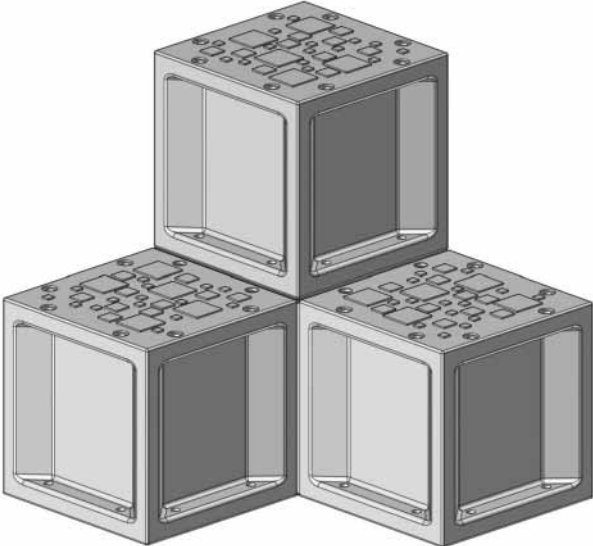
Elevation Views
ZZUN7098S



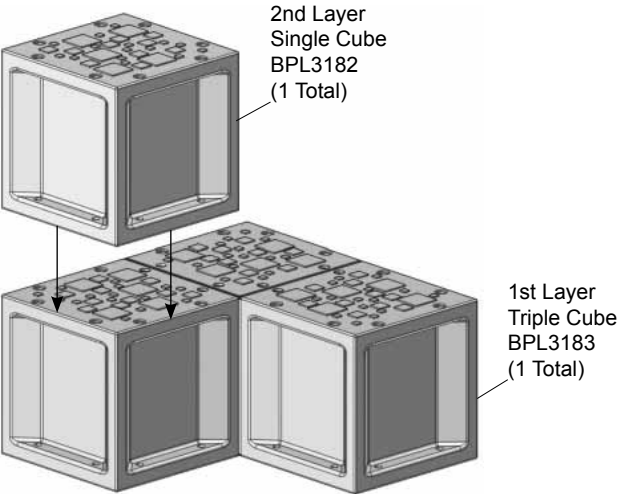
Installation Instructions



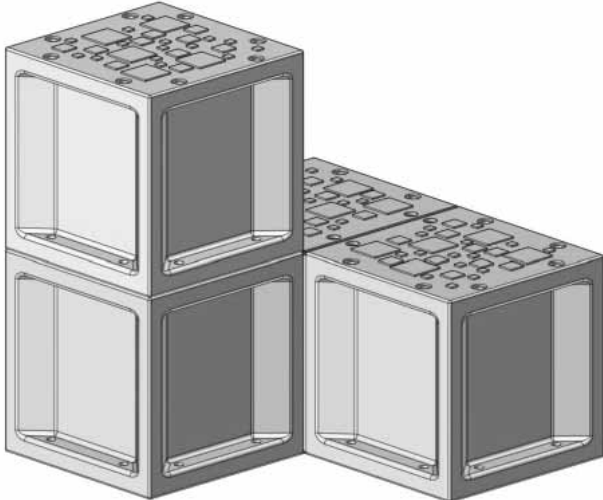
Option 1



Option 1 Overall



Option 2



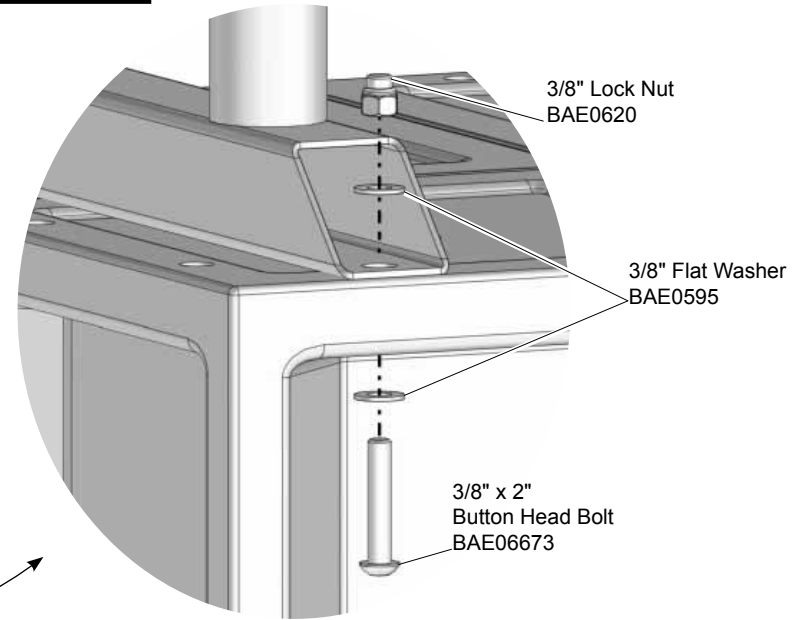
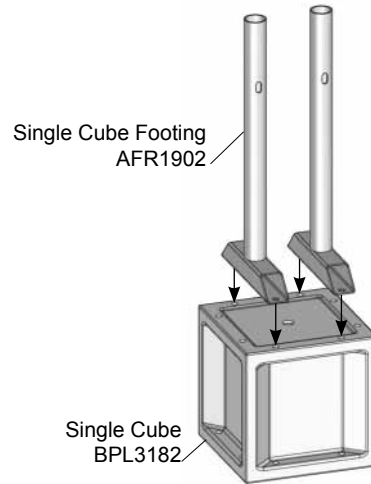
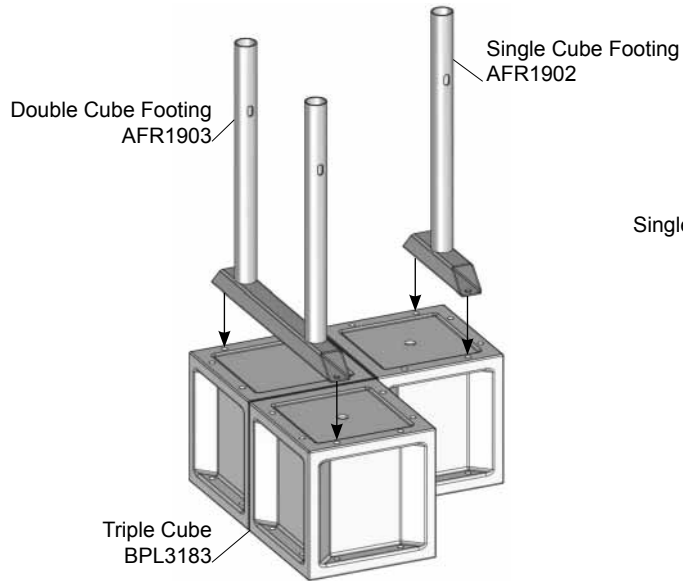
Option 2 Overall

Cube Placement for ZZUN7098 and ZZUN7098S



Installation Instructions

Common QuBits™ Connections



Connection A

(In-Ground Model Only)

Attach the footing legs to the bottom of the cube assembly.



In-ground Mount Only: Attach the footing legs to the bottom side of the cubes (the bottom is the "non-treaded" side). The Triple Cube will require one double cube footing and one single cube footing and the Single Cube will require two single cube footings.

Installation Instructions

Common QuBits™ Connections

Surface Mount
Bracket
AFM7284

3/8" Lock Nut
BAE0620

3/8" Flat Washer
BAE0595

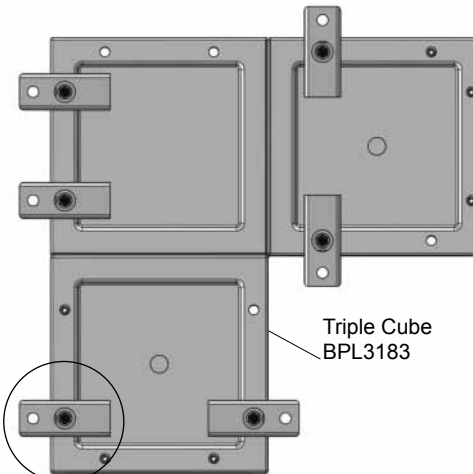
3/8" x 2"
Button Head Bolt
BAE06673

Connection B

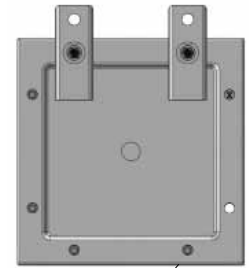
Surface Mount Only

Attach the surface mount brackets to the bottom of the cubes.

Location of the brackets may vary depending on the cube assembly. Refer to the installation instruction for your specific layout. These views are for reference only.



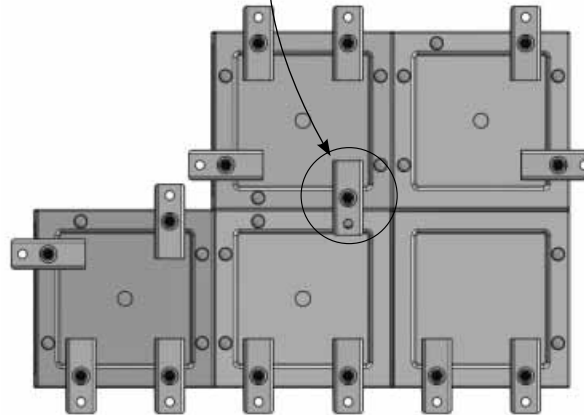
Triple Cube
BPL3183



Single Cube
BPL3182

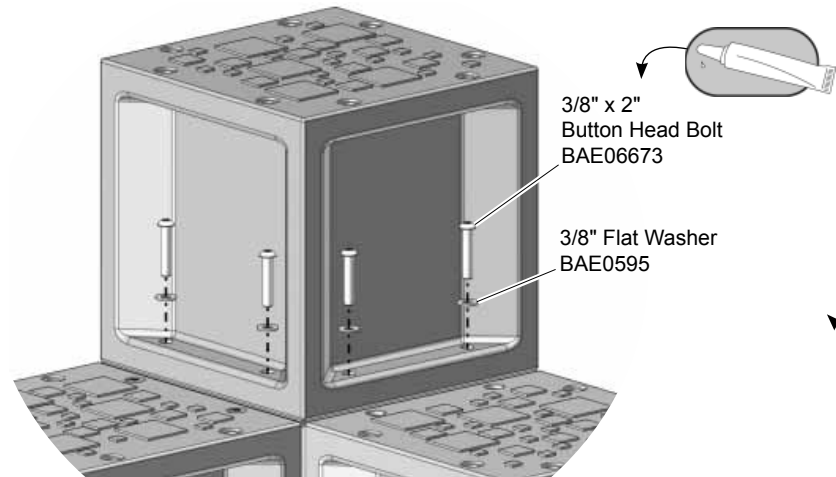
Surface Mount Only: Attach the surface mount brackets to the bottom side of the cubes (the bottom is the "non-treaded" side). The angled edge of the brackets should be pointing to the outside.

Note: There may be a surface mount bracket that could be located in the middle of the QuBits configuration, that bracket is not required to be anchored to the concrete base, however it must be installed to support the cubes.



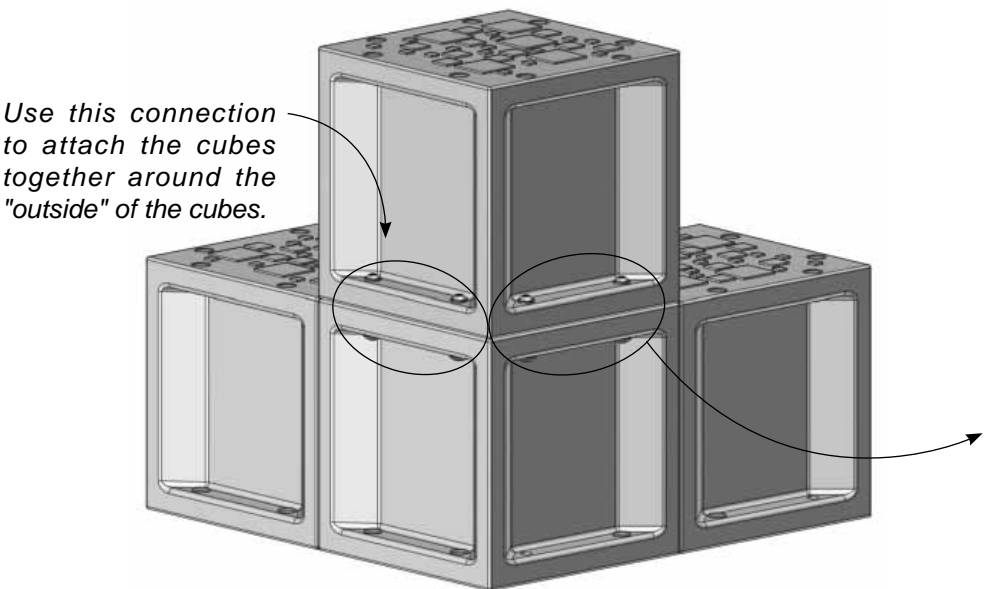
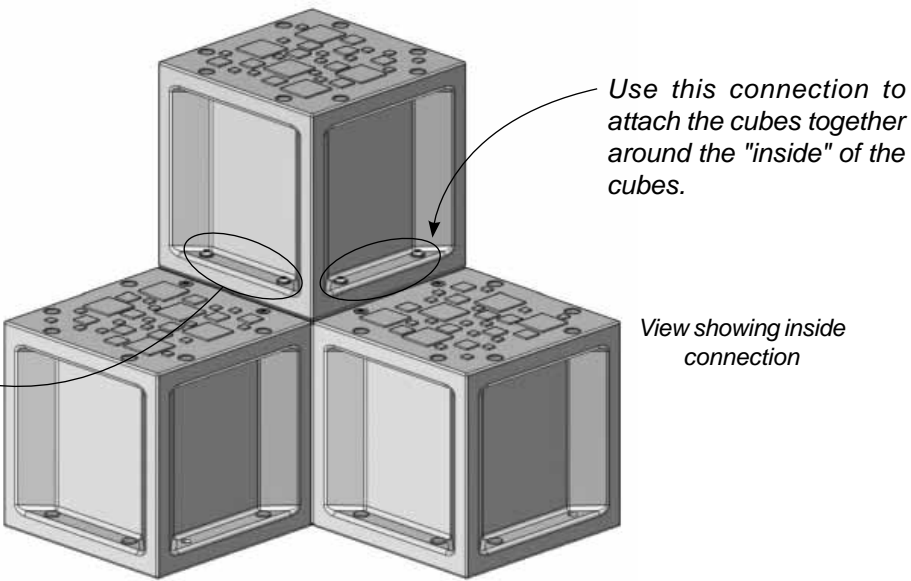
Installation Instructions

Common QuBits™ Connections

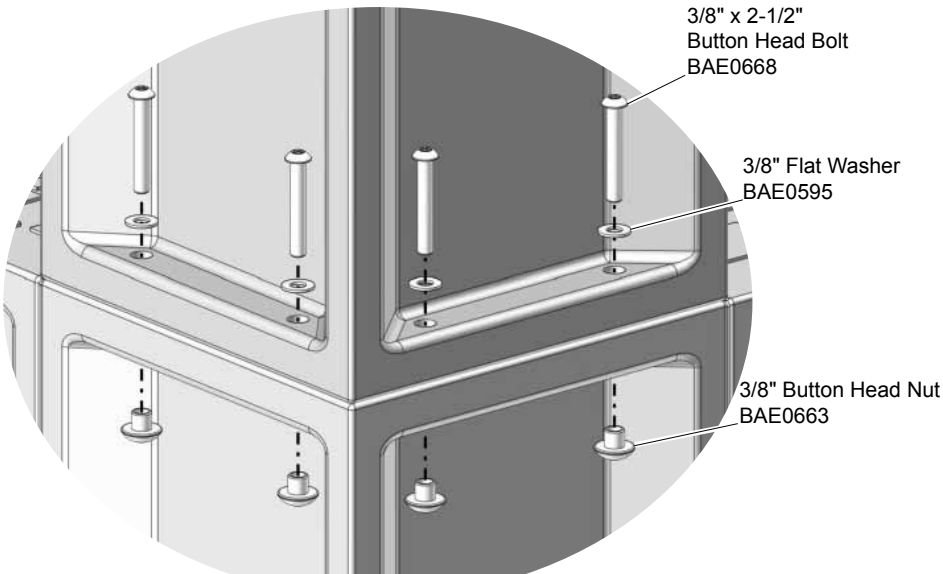


Connection C

Inside connection for cube to cube.



View showing outside connection

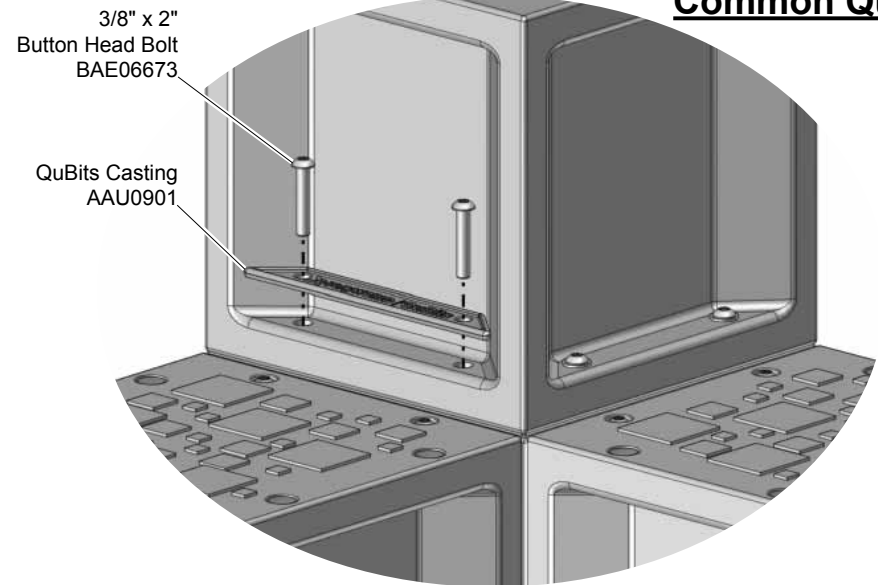


Connection D

Outside connection for cube to cube.

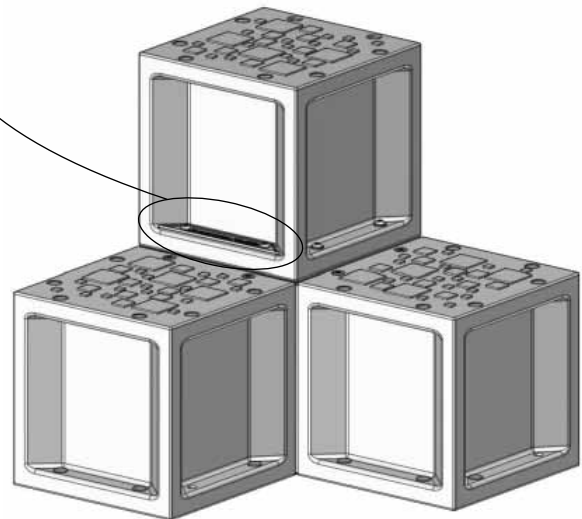
Installation Instructions

Common QuBits™ Connections

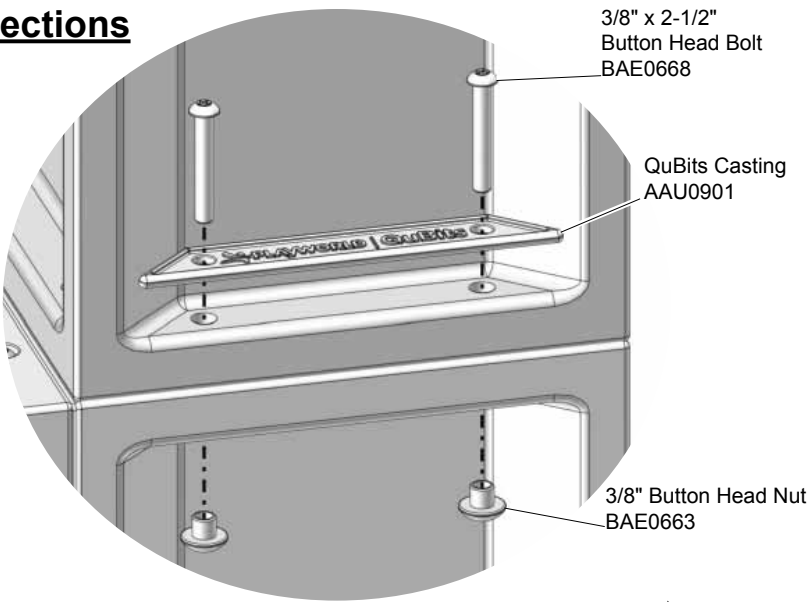


Connection E
Option 1

Attach the QuBits casting to the inside of the cube.

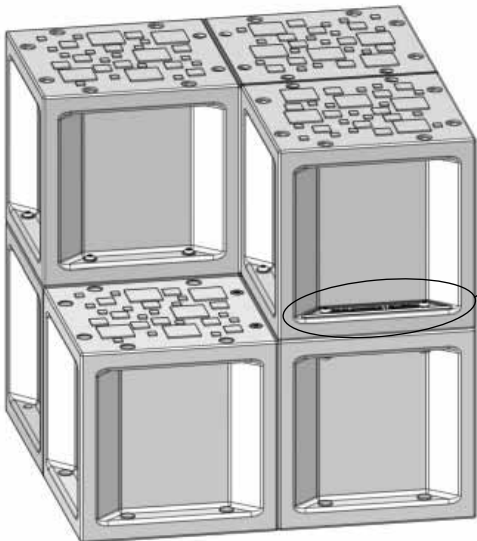


View showing inside connection



Connection E
Option 2

Attach the QuBits casting to the outside of the cubes.

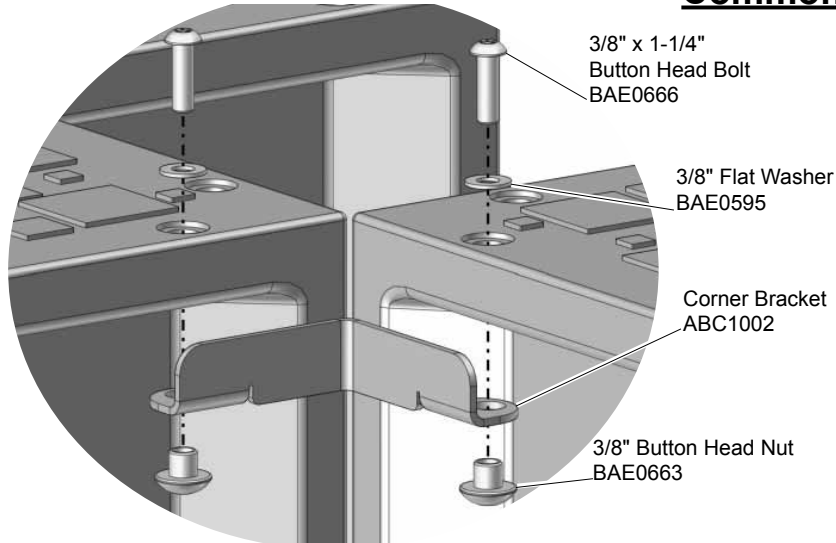


View showing outside connection

Note: The QuBits casting should be installed where it will be visible on your assembly. This **should not** be installed on the 1st layer (ground level) of cubes.

Installation Instructions

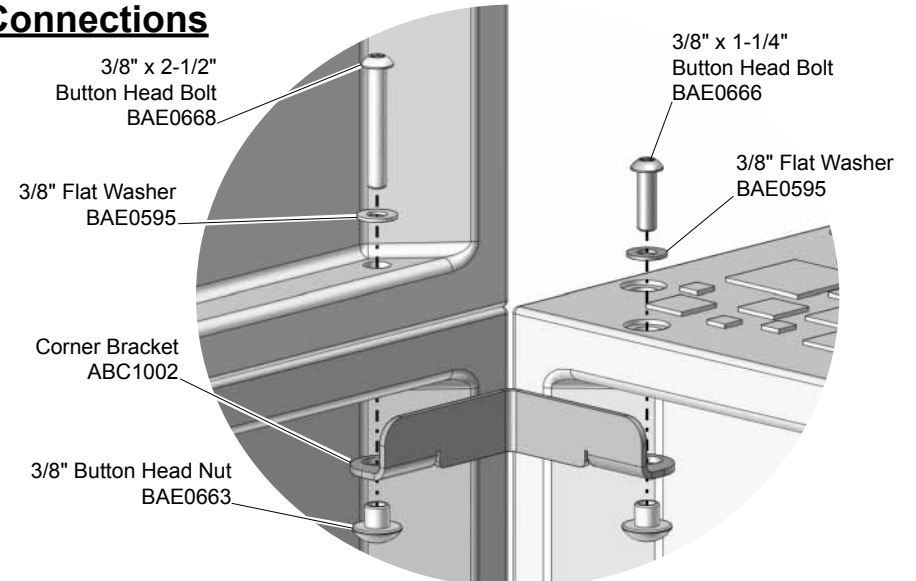
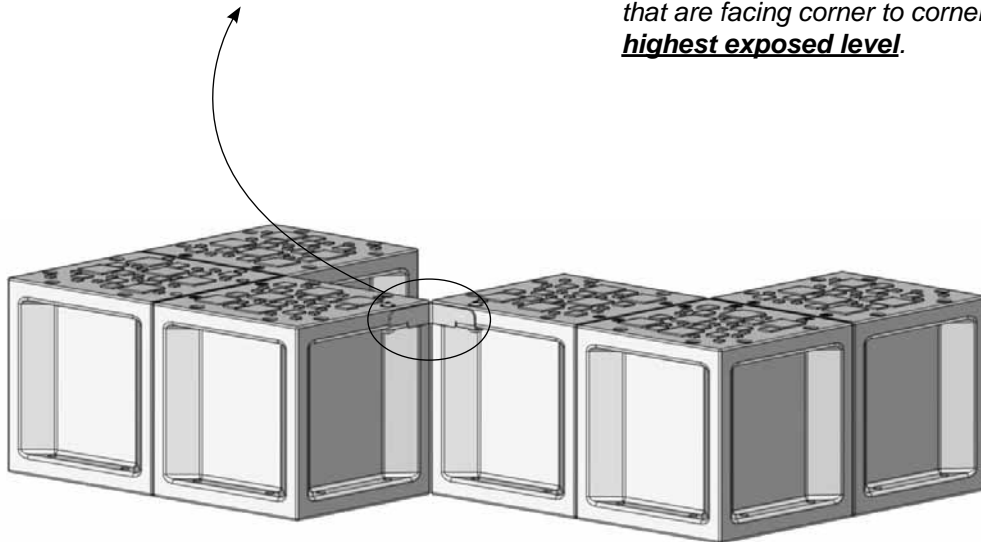
Common QuBits™ Connections



Connection F

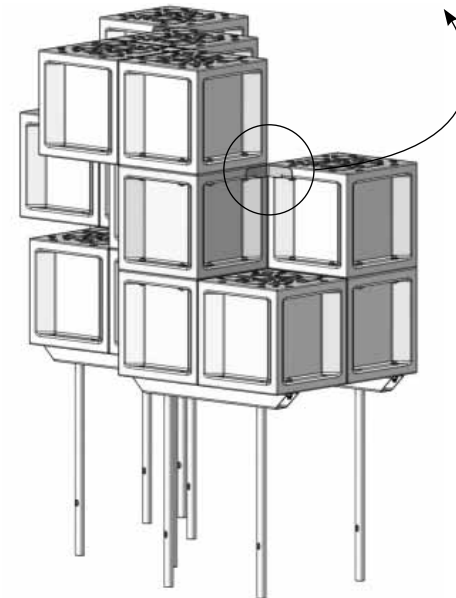
Attach the corners of the cubes using the corner bracket.

Note: The corner to corner bracket should be used to attach cubes in the same layer that are facing corner to corner **at the highest exposed level.**



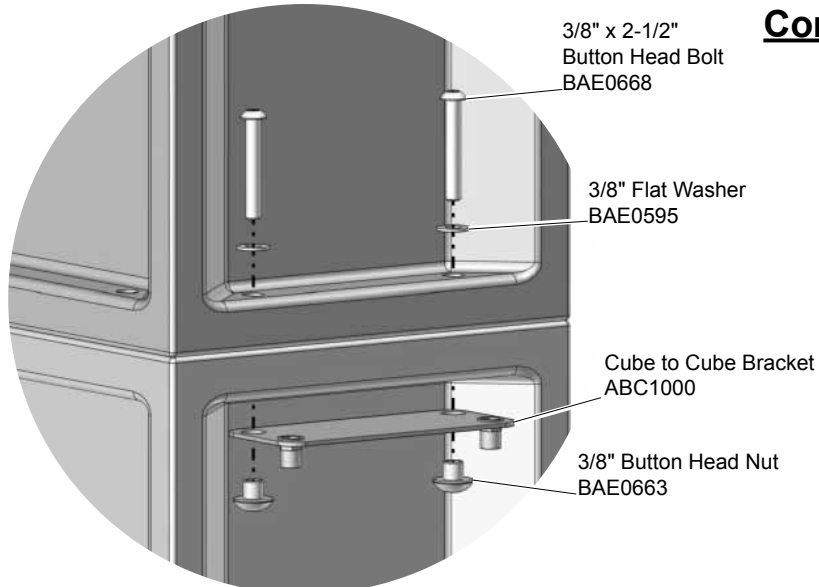
Connection G

Attach the corners of the cubes using the corner bracket. Use this connection if there is another cube to be attached on top.



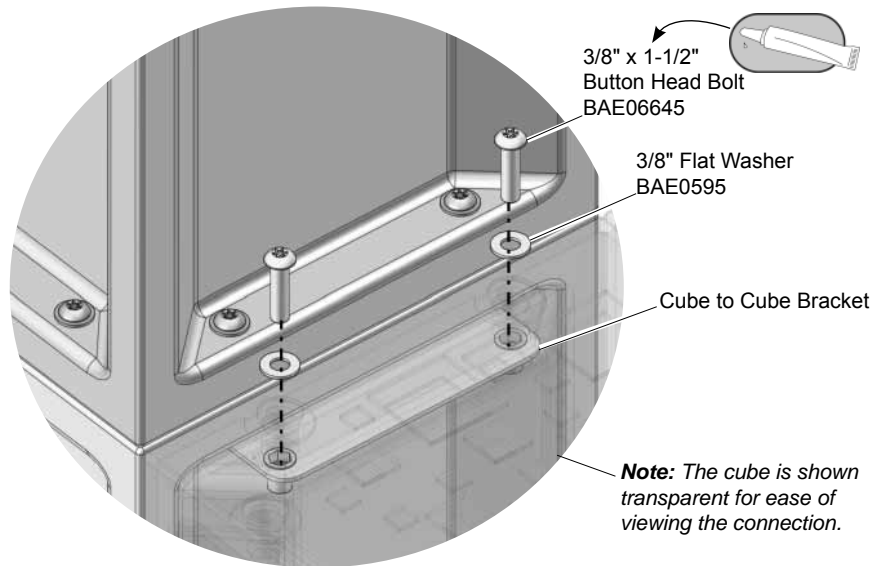
Installation Instructions

Common QuBits™ Connections



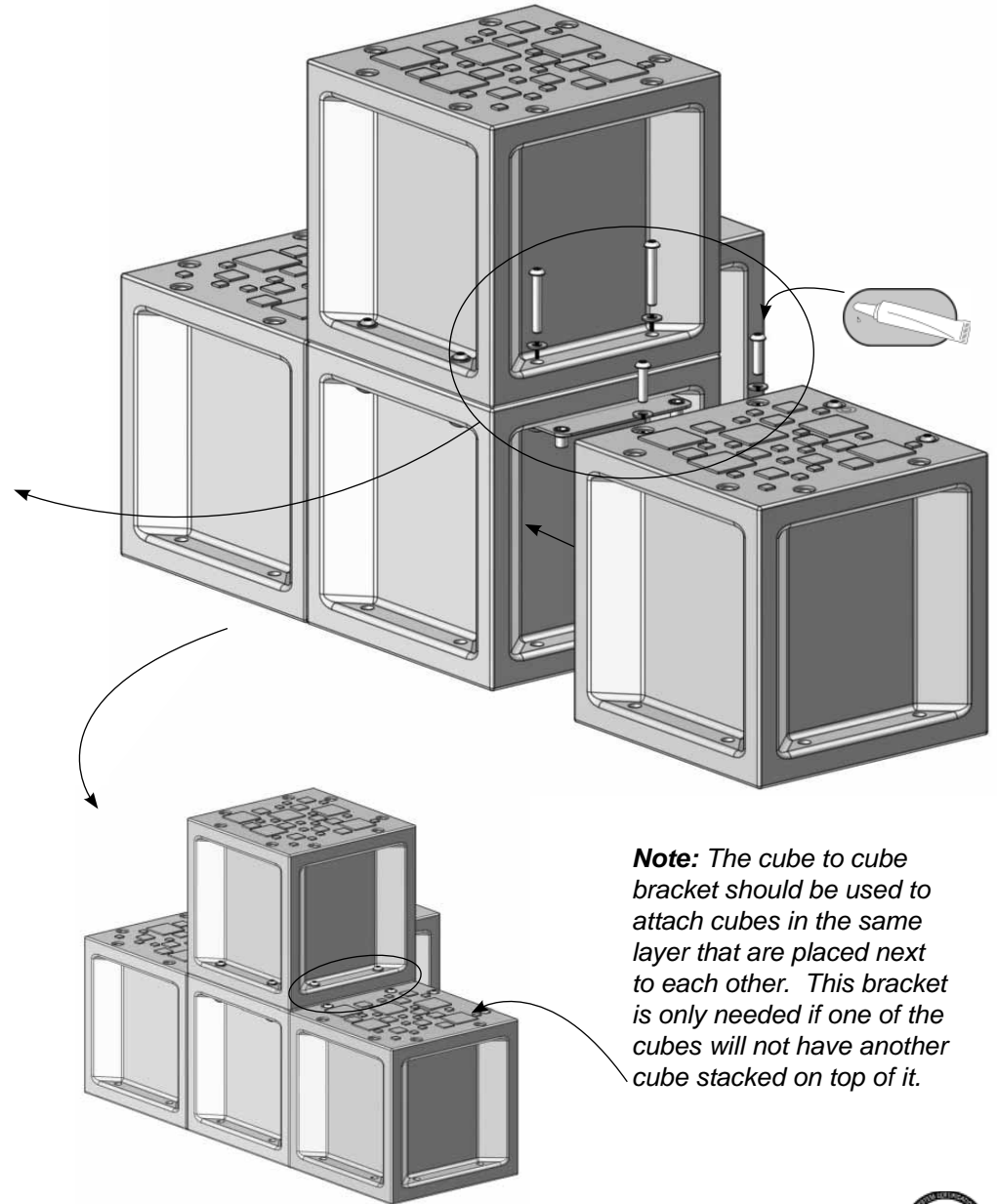
Connection H-1

Attach the cube to cube bracket to the underside of the cube.



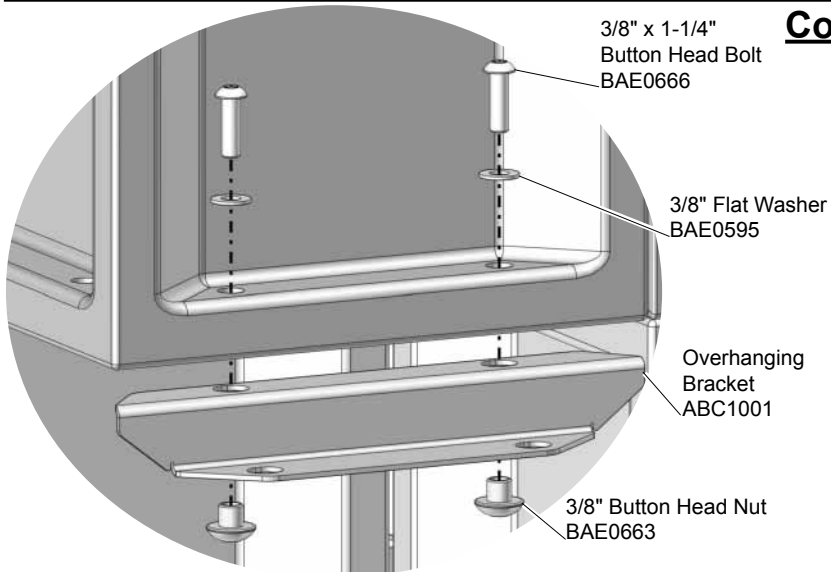
Connection H-2

Place another cube over the bracket and attach as shown.



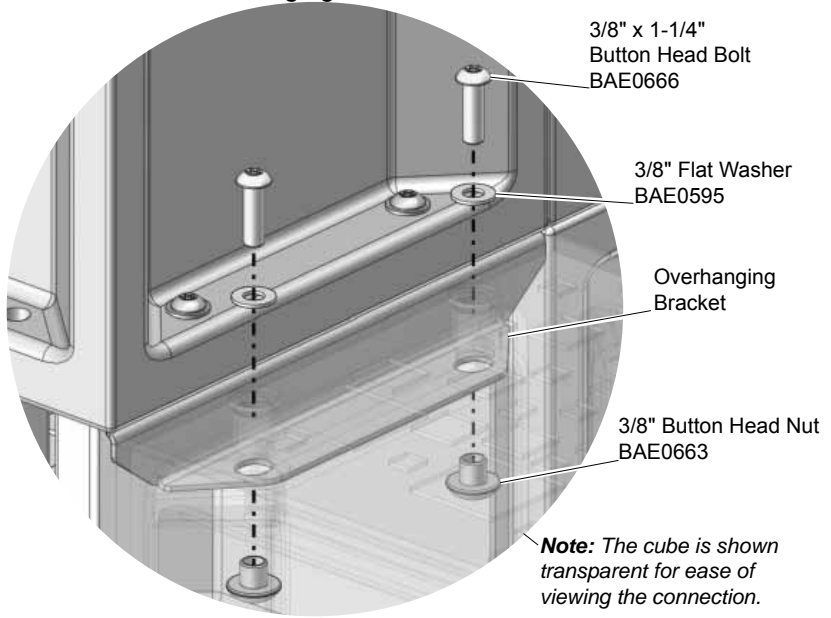
Installation Instructions

Common QuBits™ Connections



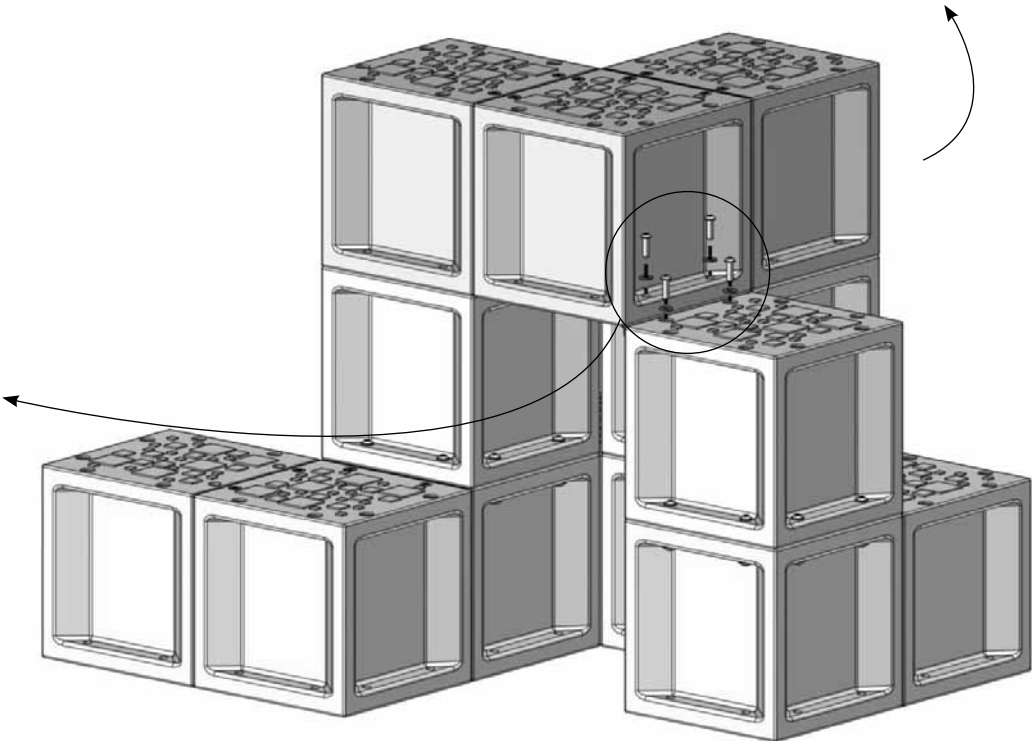
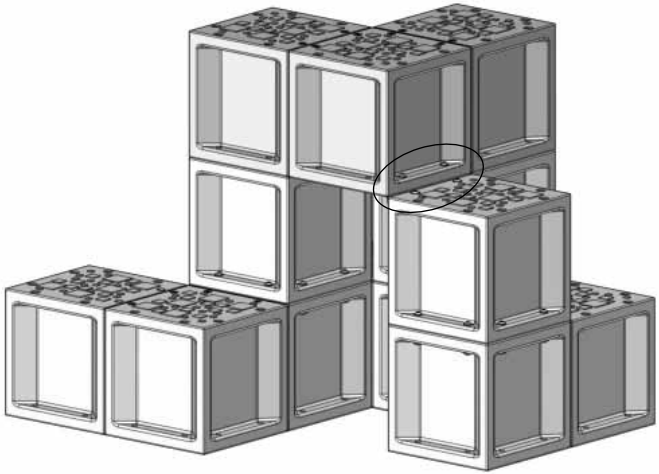
Connection I-1

Attach the overhanging bracket to the underside of the cube.



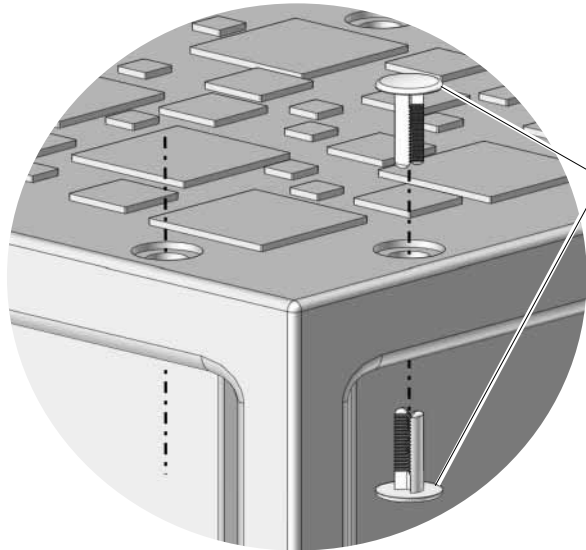
Connection I-2

Place another cube over the bracket and attach as shown.



Installation Instructions

Common QuBits™ Connections

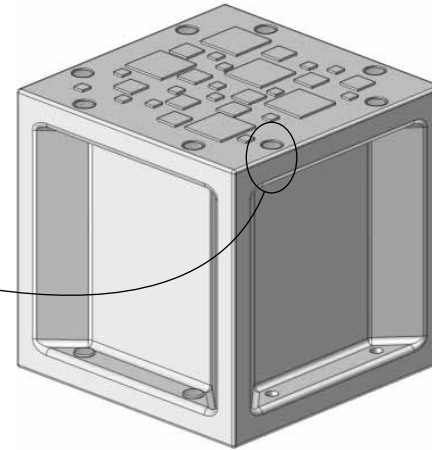


Ratchet Rivet
BPL3193

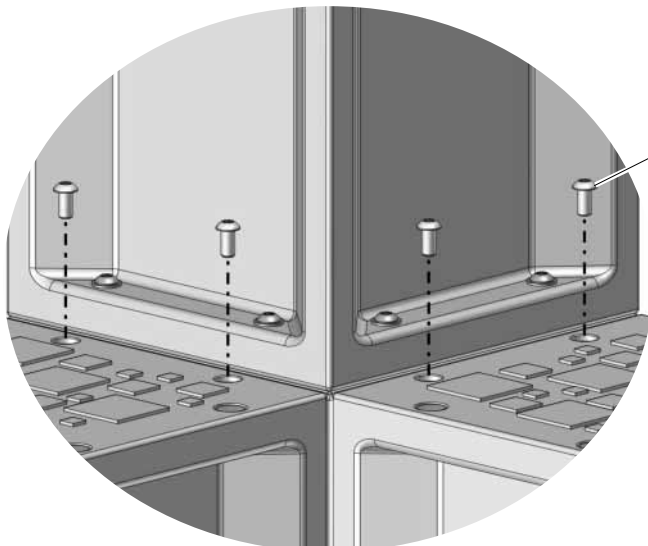
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Connection J

Plug empty holes on cubes.



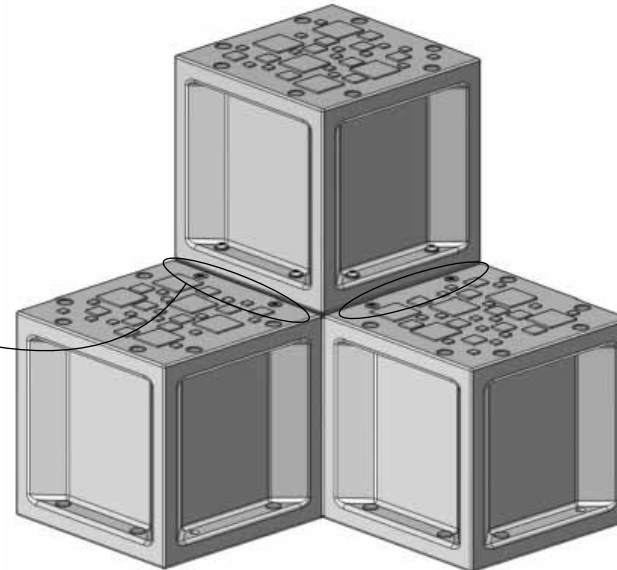
The ratchet rivets are used to fill any empty hole (around the outside of the cube) when done assembling the cubes. Place a rivet on the top and bottom of each empty hole and press together until flush with the cube.



3/8" x 3/4"
Button Head Bolt
BAE0659

Connection K

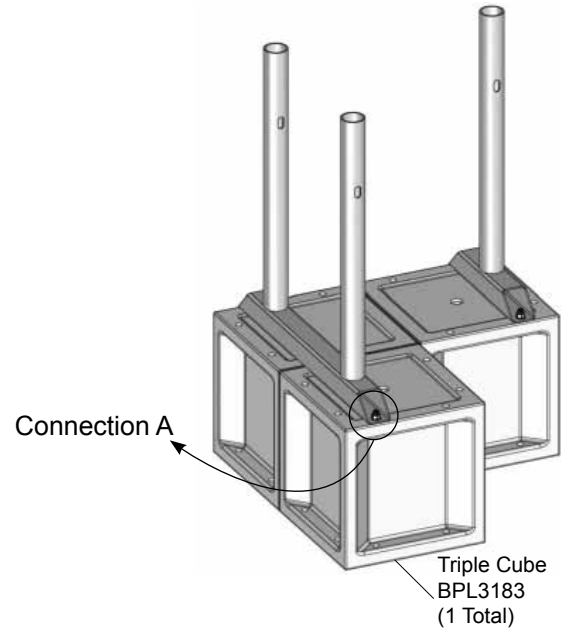
Fill inserts on top of cubes.



Fill any empty inserts on the top of the Triple Cubes when done assembling the cubes. The inserts are located around the inside of the Triple Cubes.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 18.

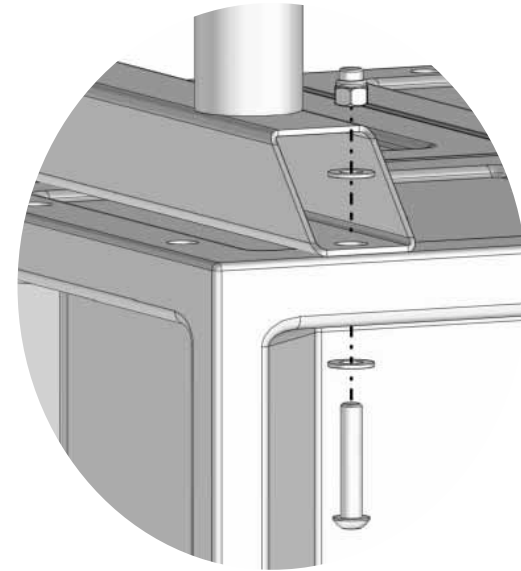


View showing the underside of the cube with footing leg connections.
Position of legs shown for either Option 1 or Option 2.



Step 4 In-ground Mount Only

Attach the footing legs to the 1st layer cubes.



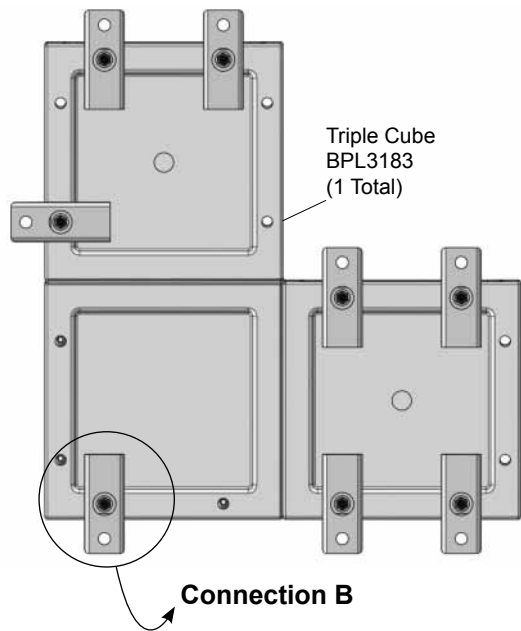
Connection A



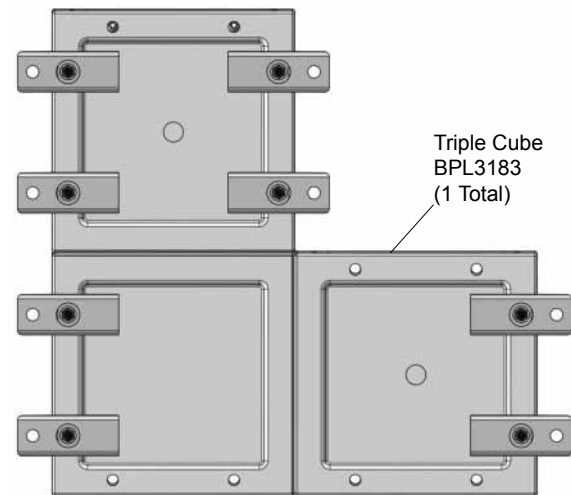
Installation Instructions

Views showing the underside of the cubes with footing bracket connections.

Option 1

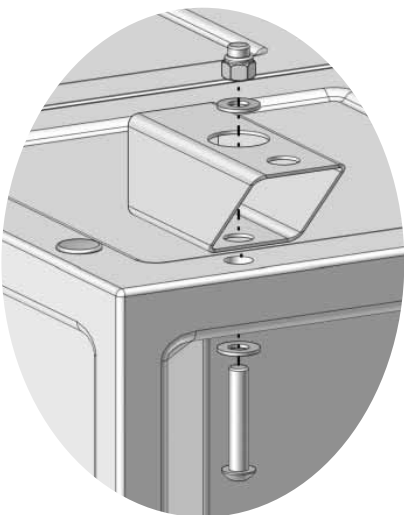
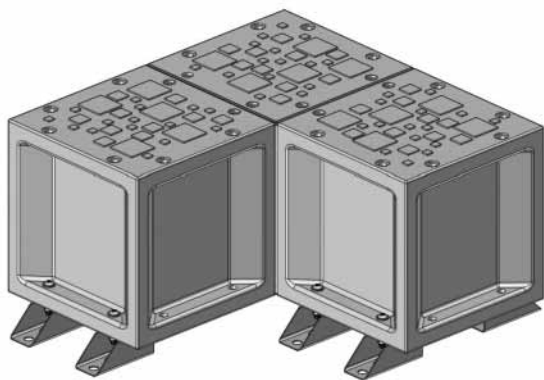


Option 2



Step 5 Surface Mount Only

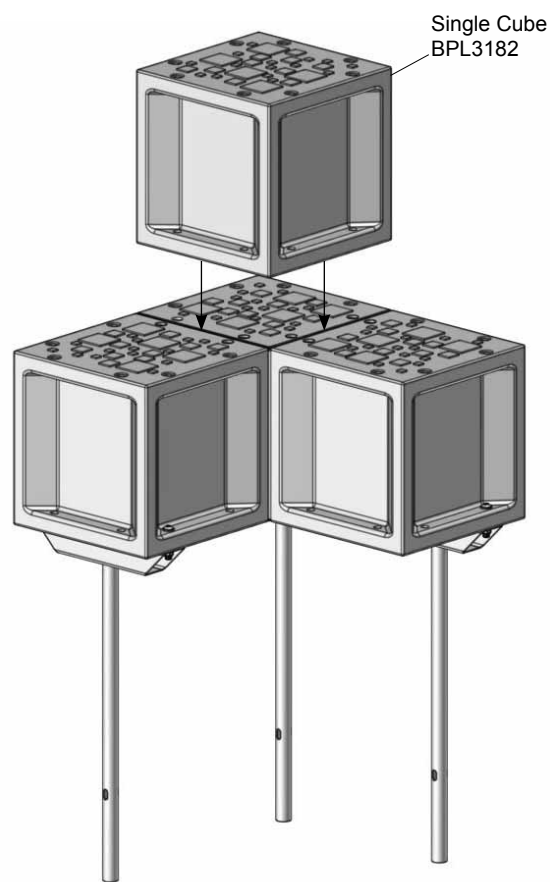
Attach the footing brackets to the 1st layer cubes.



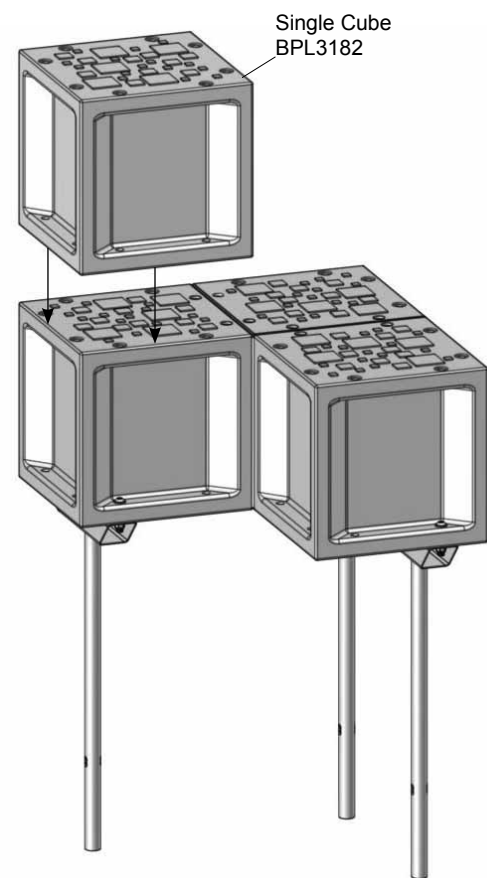
Connection B



Installation Instructions



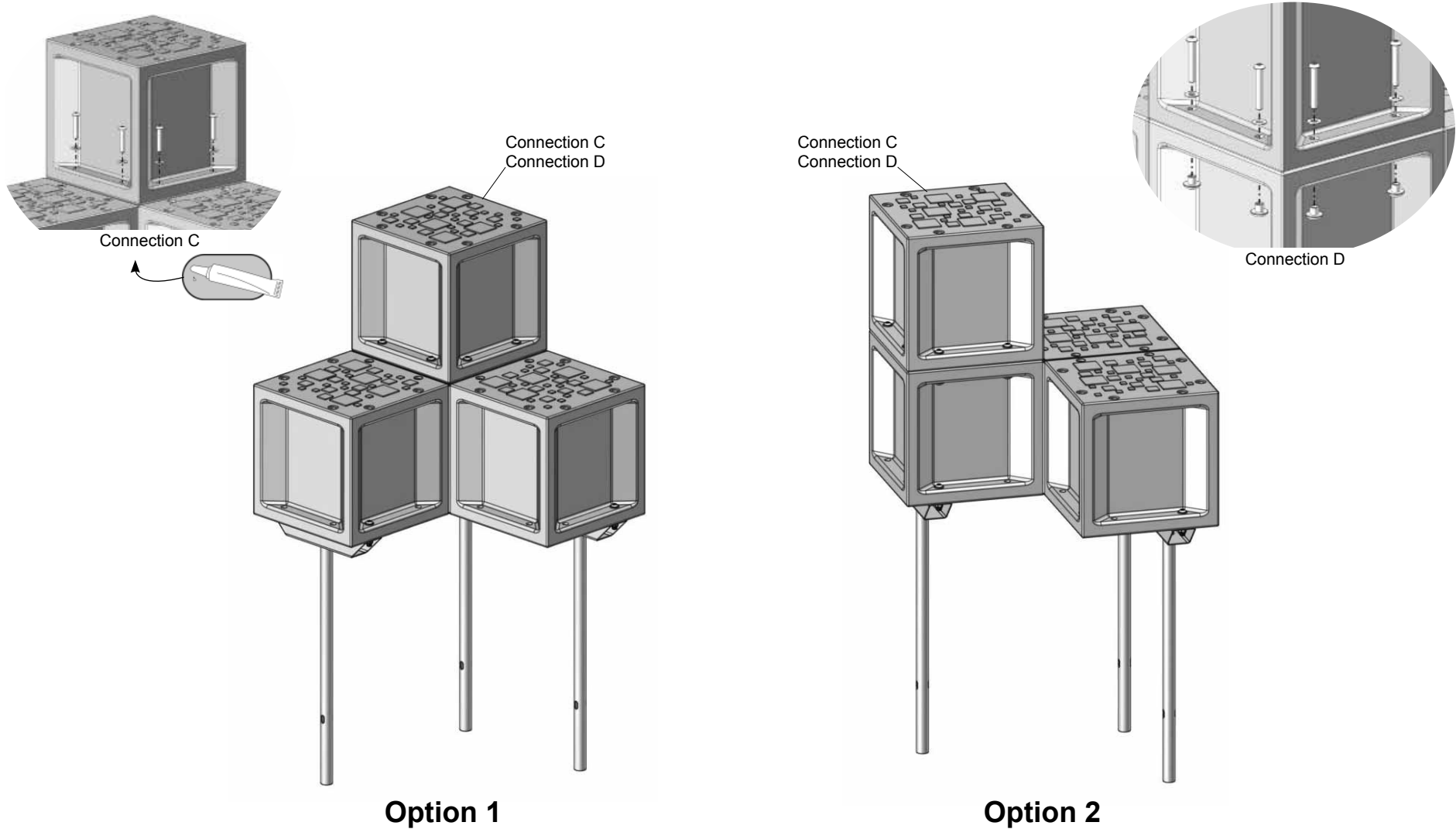
Option 1



Option 2

Place the 2nd layer on the 1st layer.

Installation Instructions



Step 6
Attach the 2nd layer to the 1st layer.

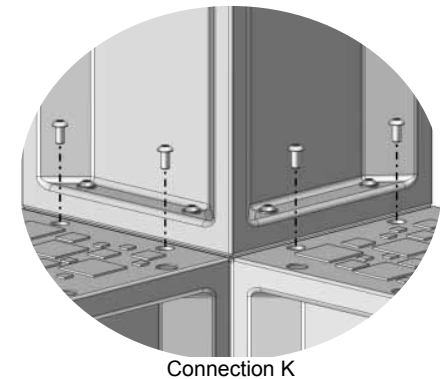
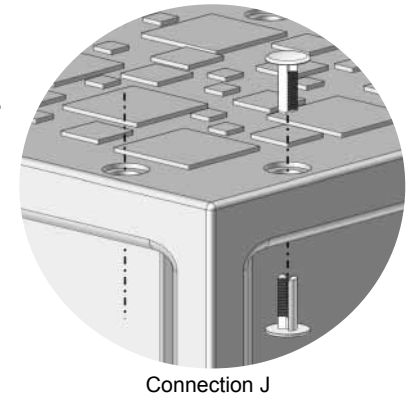
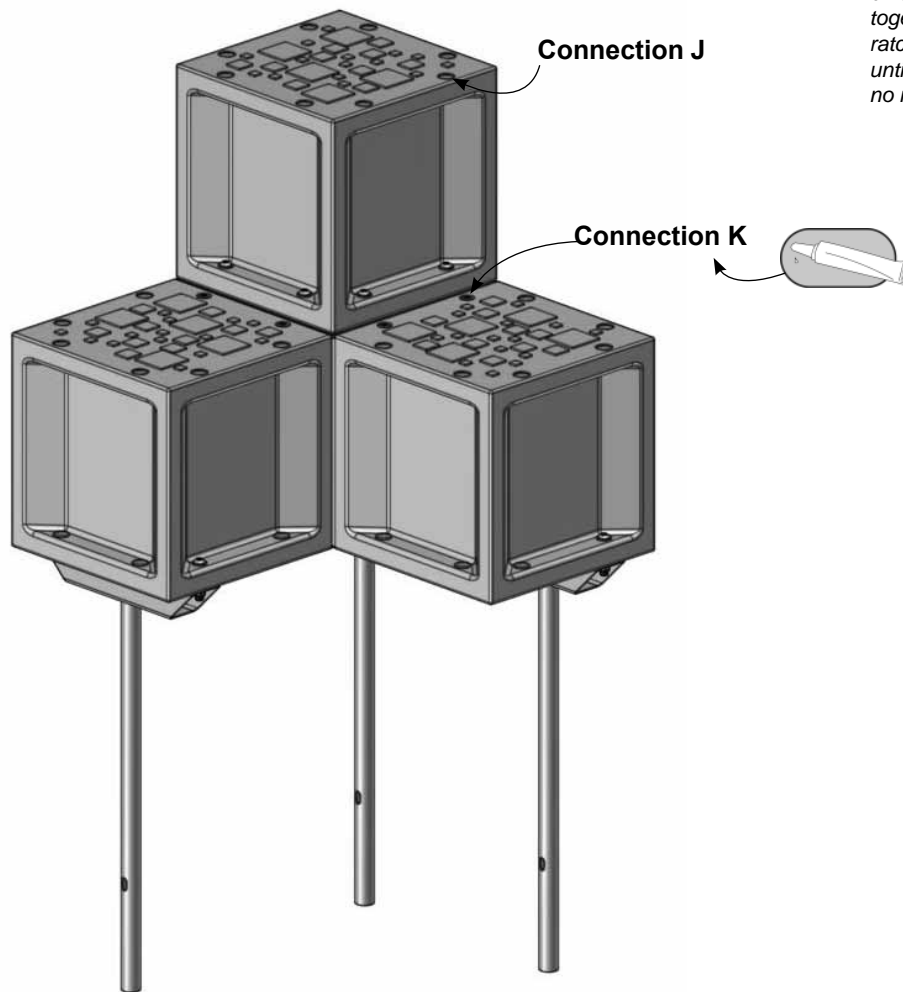


Installation Instructions

Step 7

Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes.

Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing Detail or Surface Mount Footing Detail** in the Annex at the end of this document.

Step 4 (In-ground Mount Only): Attach the footing legs to the 1st layer of cubes. See **Page 13 and Connection A**. Turn the cubes upside down, position the footing legs on the cubes, align the holes, and attach as shown. Refer to **Page 13** for the placement of the footing legs.

Step 5 (Surface Mount Only): Attach the footing brackets to the 1st layer of cubes. See **Page 14 / Connection B**. Turn the cubes upside down, position the brackets on the cubes, aligning the holes. The angled edges of the surface mount brackets should be pointing to the outside. Attach as shown. See **Page 15** for placement of the footing brackets.

Step 6: Attach the 2nd layer to the 1st layer. See **Pages 15 and 16**. Place the cubes on top of the first layer, and attach as shown.

Step 7: Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes. See **Page 17**. To fill the empty holes on the outside rim of the cubes, place a ratchet rivet in the top and bottom of the hole and press together until flush with the cube (See **Connection J**). To fill the empty holes on the inside holes on the tops of the Triple Cubes, apply thread locking adhesive to the bolt threads, and insert the bolts in the holes as shown (See **Connection K**).

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 9 (In-ground Mount Only): Plumb and level entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 10 (Surface Mount Only): Plumb and level entire component. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

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ZZUN7098 - QUBITS LAYOUT #2

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	1
AFR1903	FOOTING - DOUBLE CUBE	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	6
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	6
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	8
BPL3182	SINGLE CUBE	1
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	64

ZZUN7098S - QUBITS LAYOUT #2 SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	8
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	6
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	6
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	12
BPL3182	SINGLE CUBE	1
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. X 1.17"	56


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www.playworldsystems.com

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

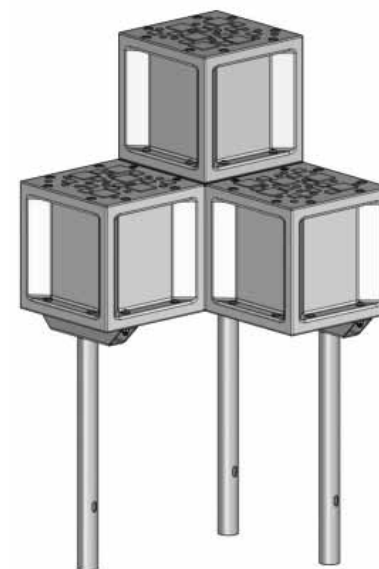
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Universal Models ZZUN7098 and ZZUN7098S

QuBits™ - Layout #2

In-ground and Surface Mount



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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

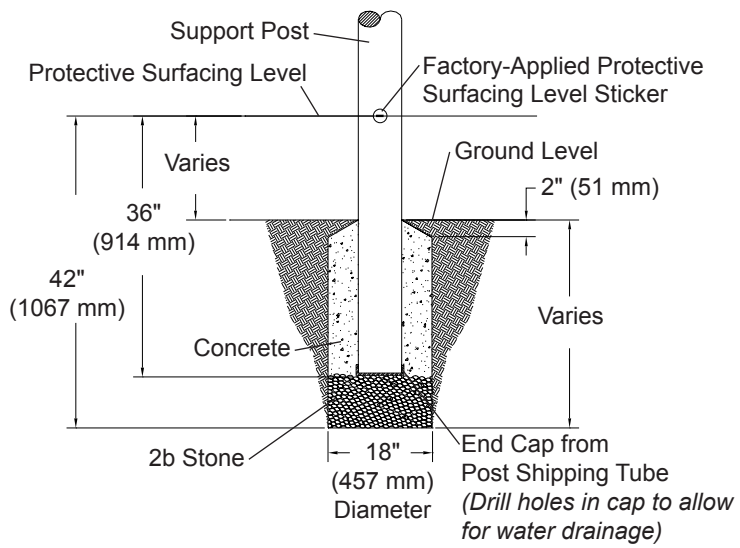
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must to be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

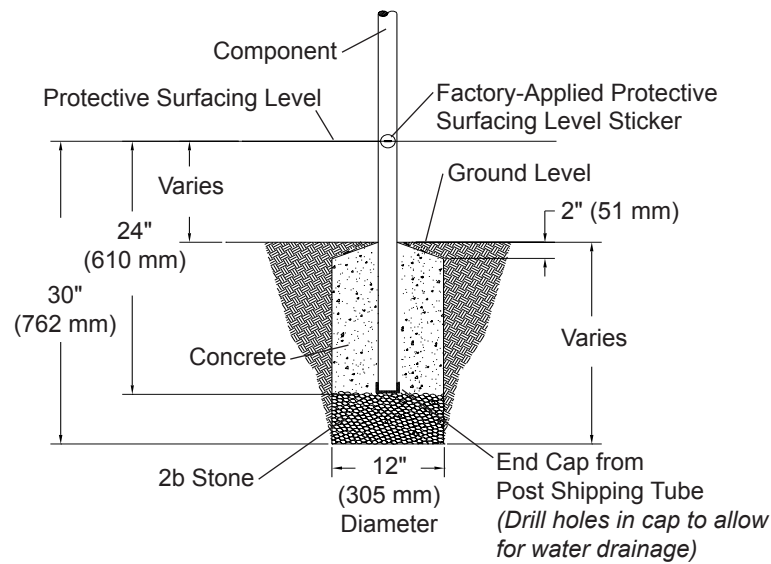
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

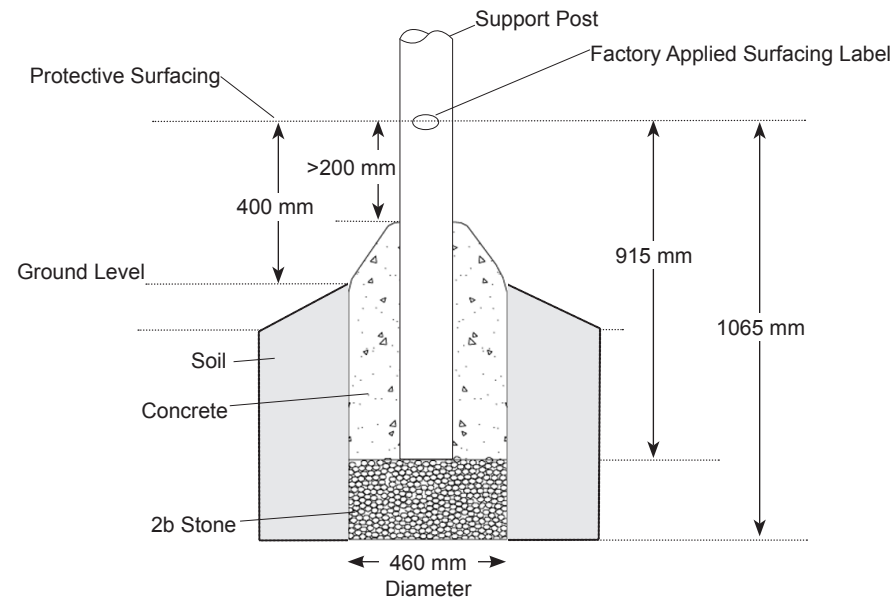
Footings Details (in ground)



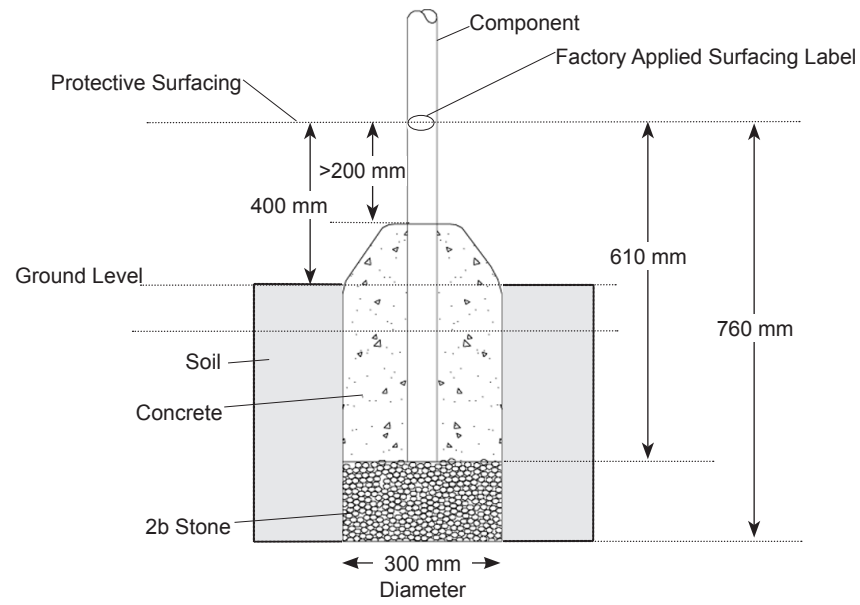
Support Post Footing Detail (ASTM/CSA)



Component Footing Detail (ASTM/CSA)

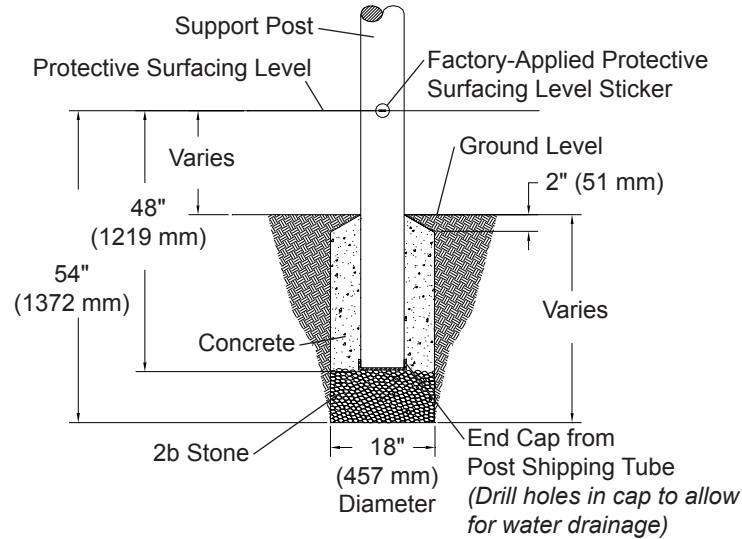


Footing Detail Support Post (EN)

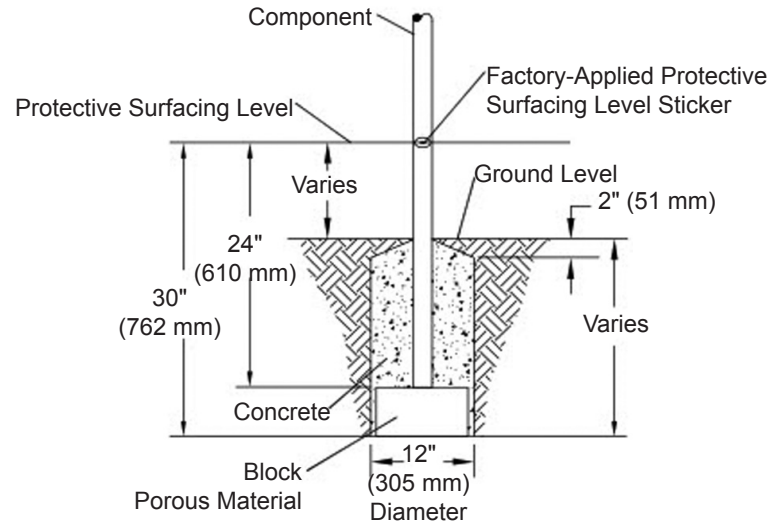


Footing Detail Component Post (EN)

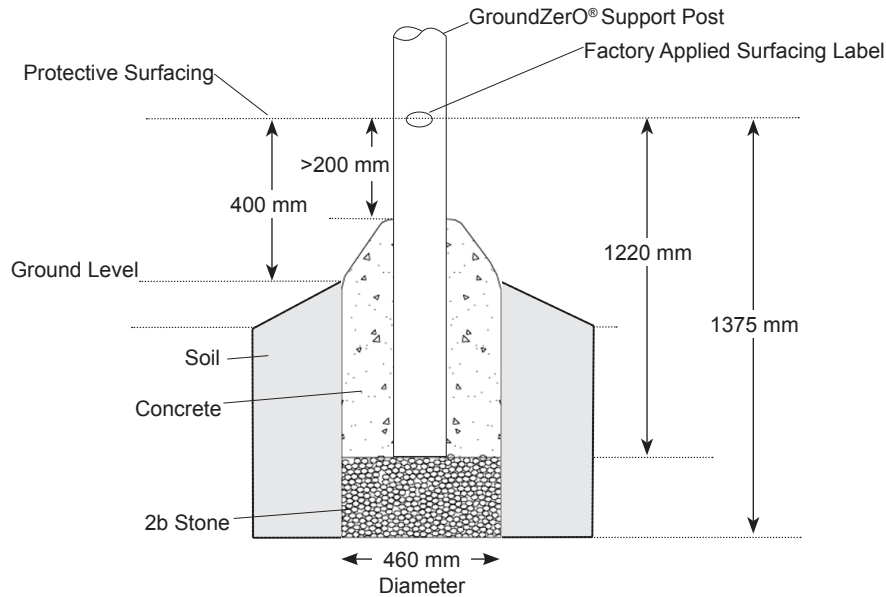
Footings Notes (in ground)



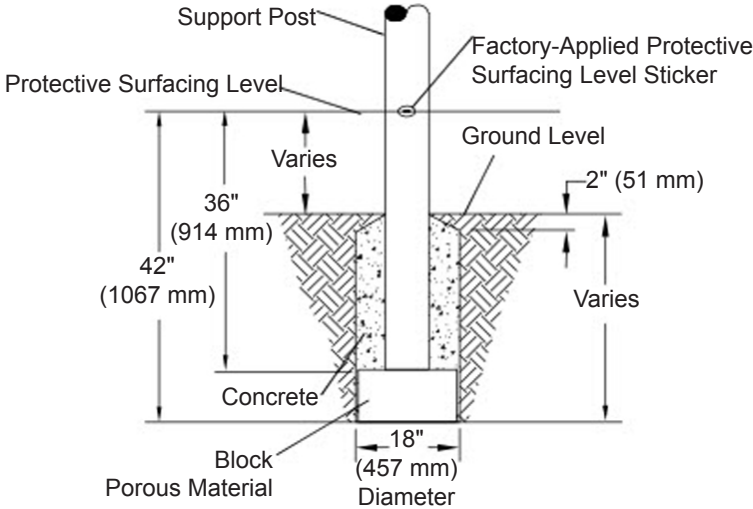
IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



Component Footing Detail (ASTM/CSA)
Block Option



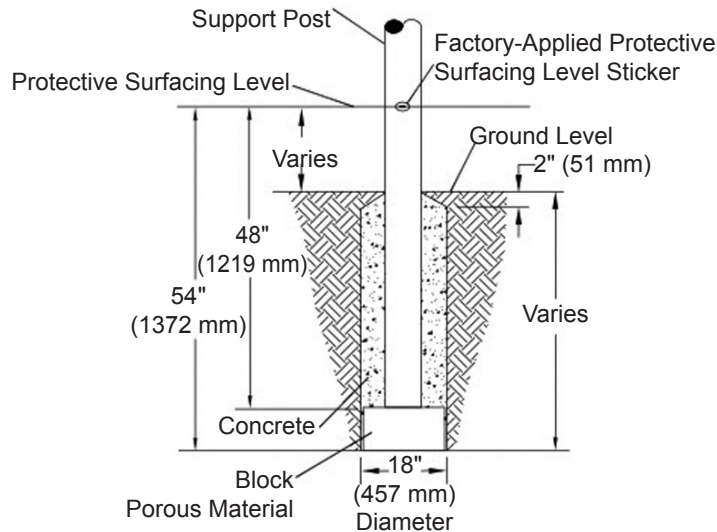
Footing Detail GroundZero® Support Post (EN)



Support Post Footing Detail (ASTM/CSA)
Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

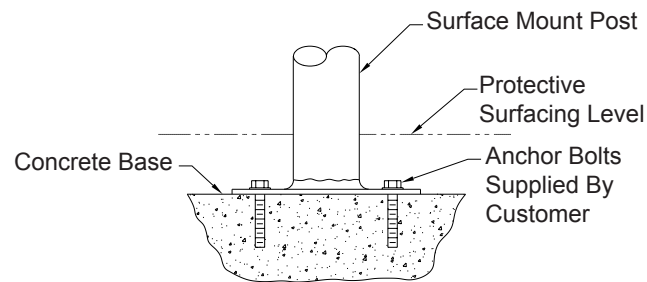


GroundZero® Support Post Footing Detail ASTM/CSA
Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

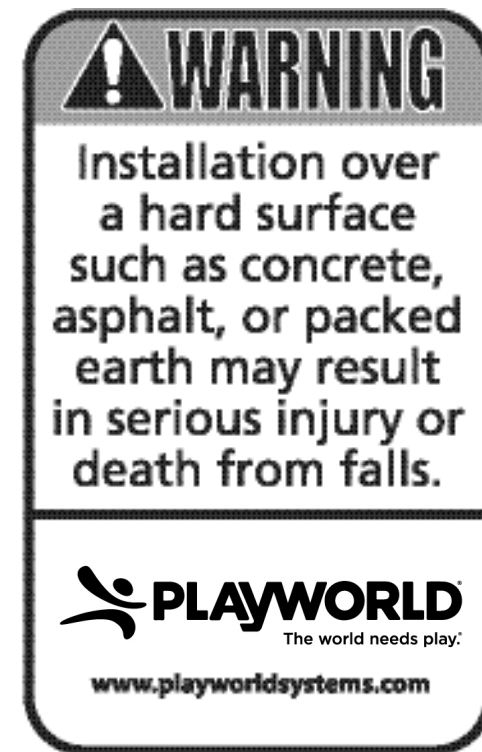
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

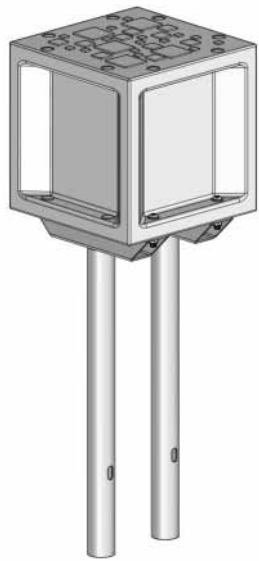
FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

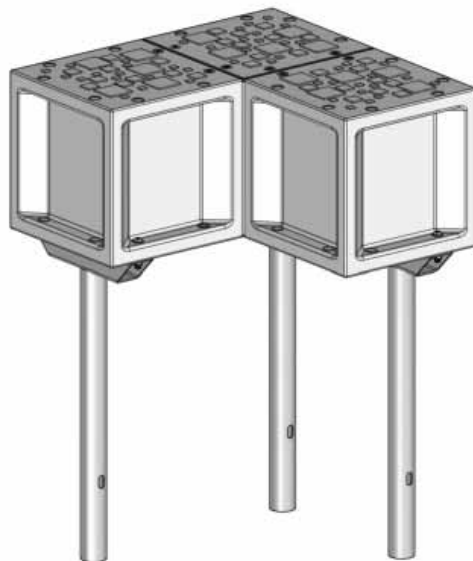
- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



ZZUN7097



ZZUN7099

Assembly View (representative models)

Part Number	Installation Time	Concrete Required
ZZUN7097	0.5 man-hours	0.03 cubic yard (0,02 cubic meters)
ZZUN7097S	0.25 man-hours	N/A
ZZUN7099	1 man-hour	0.09 cubic yard (0,06 cubic meters)
ZZUN7099S	0.5 man-hours	N/A
ZZUN7089	0.25 hours	N/A
ZZUN7118	0.25 hours	N/A
ZZUN7119	0.25 hours	N/A
ZZUN7126	0.25 hours	N/A




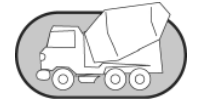
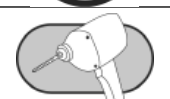


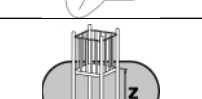
Installation Instructions

Universal Models ZZUN7097, ZZUN7097S, ZZUN7099, ZZUN7099S, ZZUN7089, ZZUN7118, ZZUN7119 and ZZUN7126
 QuBits™ Layout #1 and #3
 In-Ground and Surface Mount

Installation Preparation

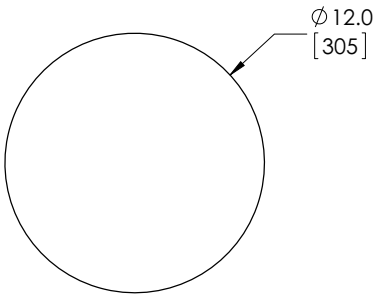
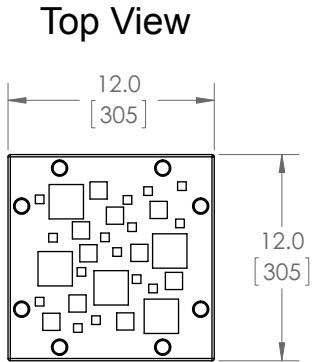
Recommended Crew: Two (2) adults
 Installation Time: Refer to the table at left
 Concrete Required (in-ground): Refer to the table at left
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

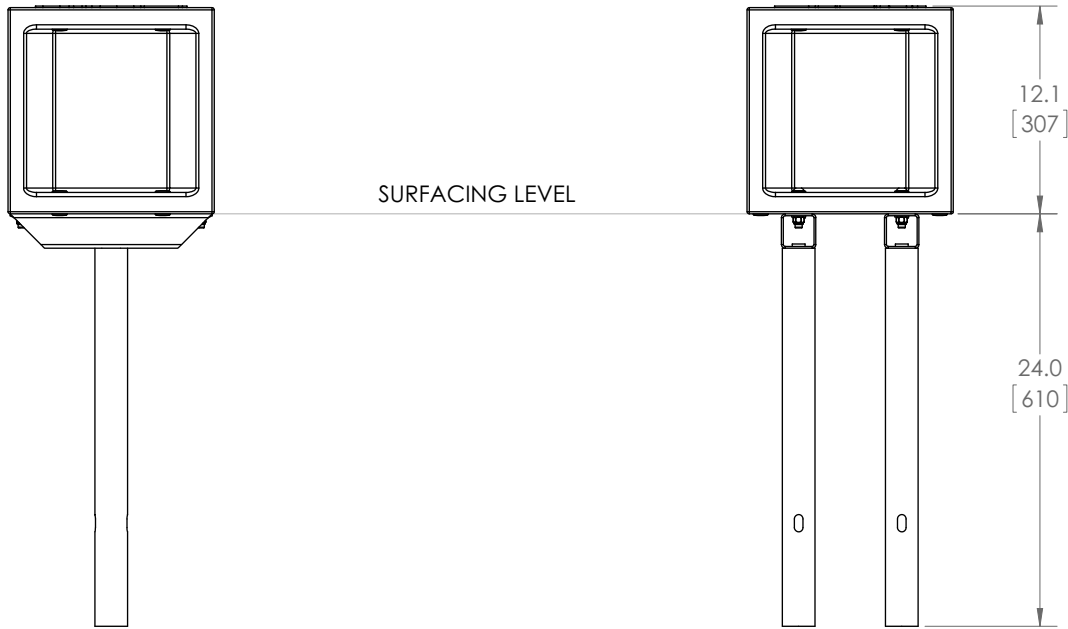
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

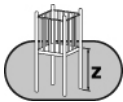
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



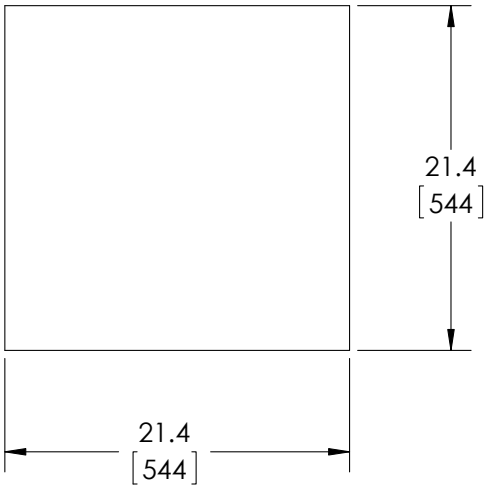
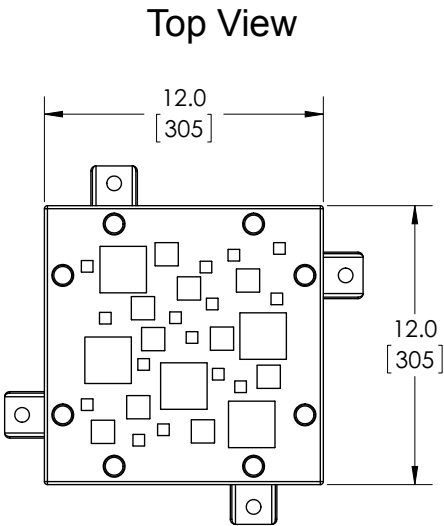
Elevation Views
ZZUN7097



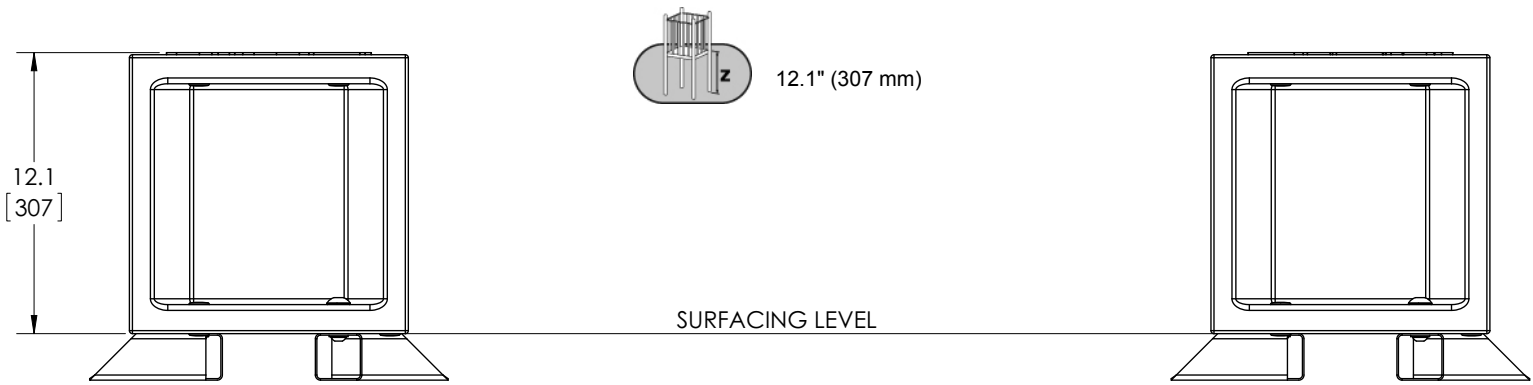
12.1" (307 mm)

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



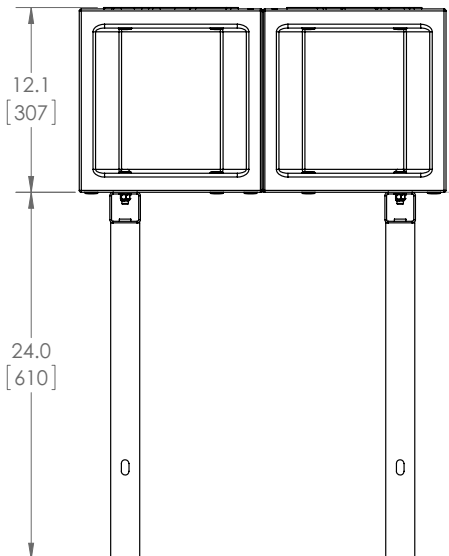
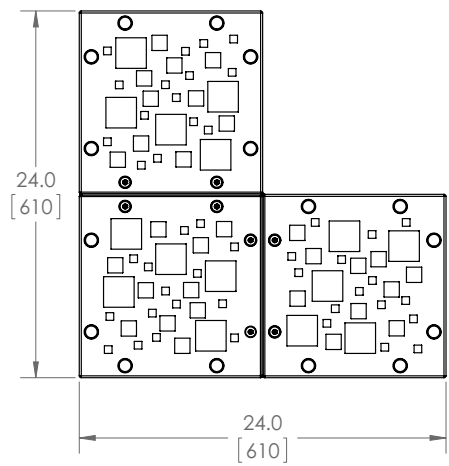
Elevation Views
ZZUN7097S



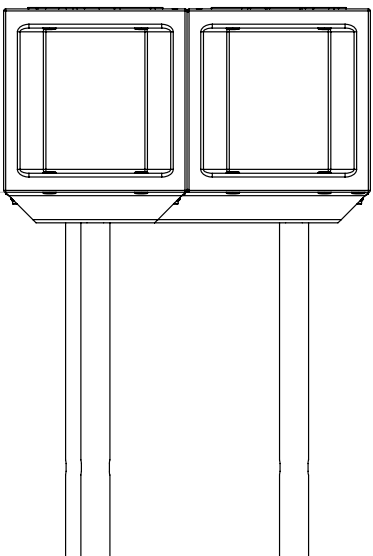
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

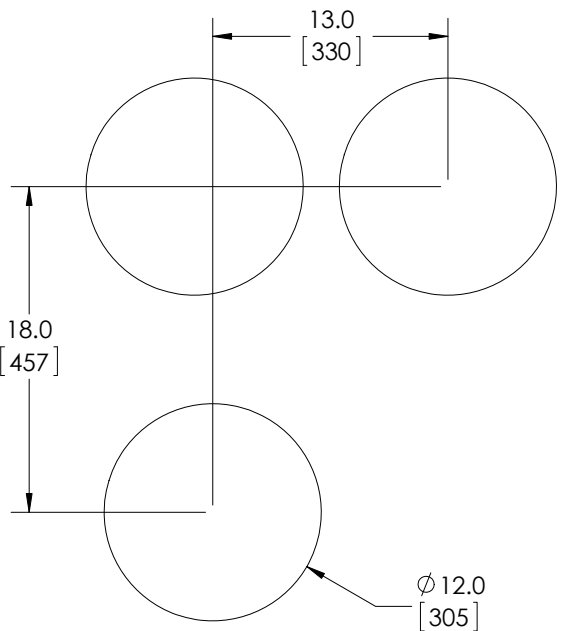
Top View



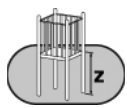
SURFACING LEVEL



Elevation Views
ZZUN7099



Footing Diagram

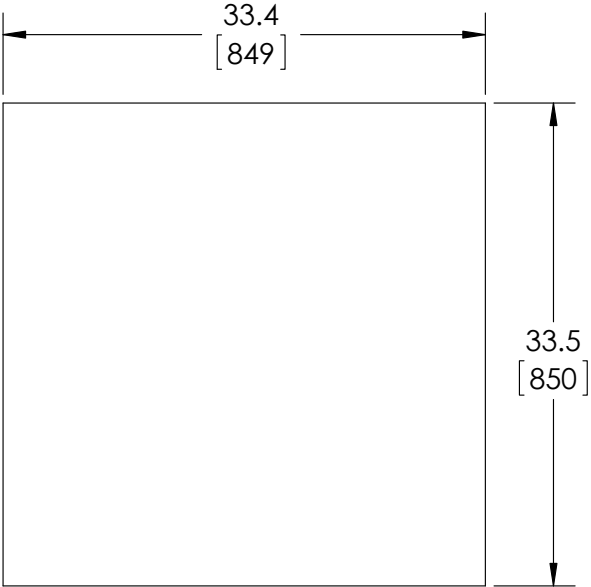
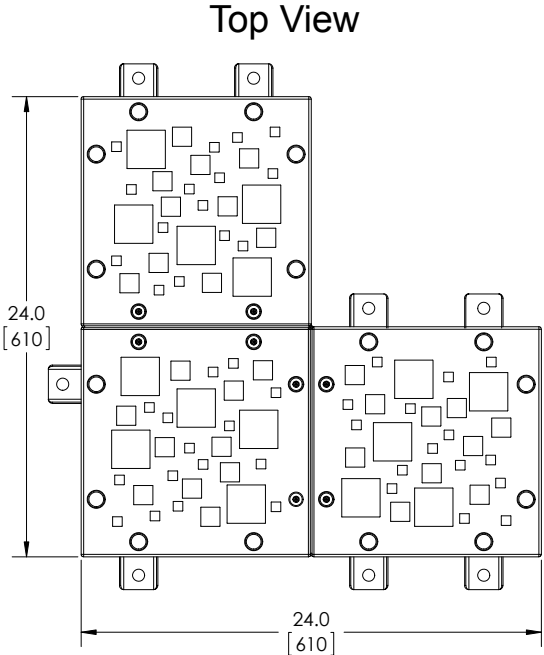


12.1" (307 mm)

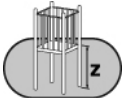
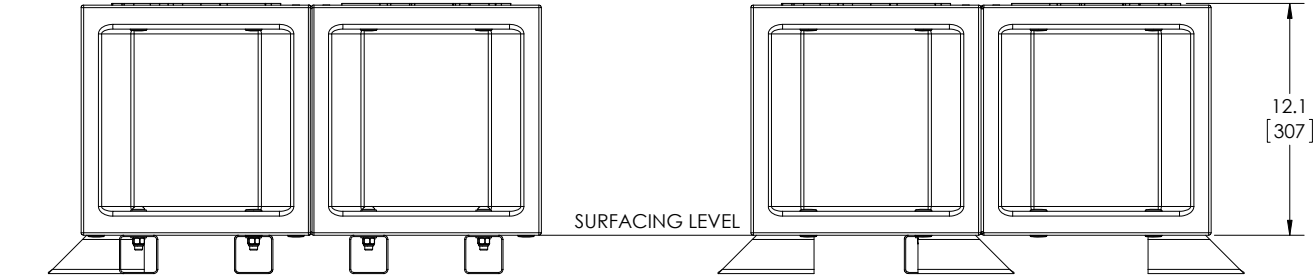


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



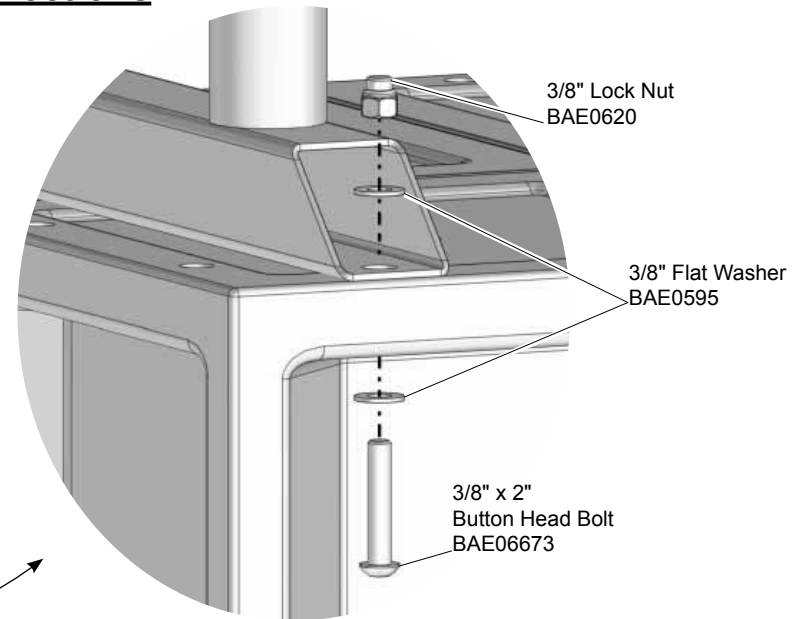
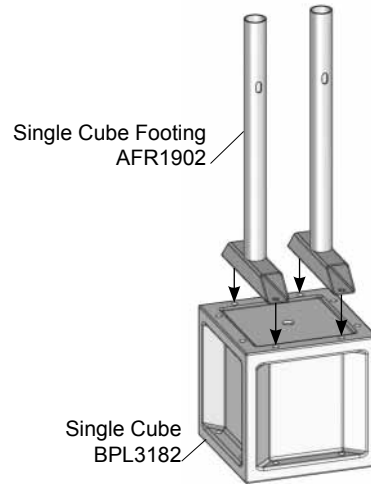
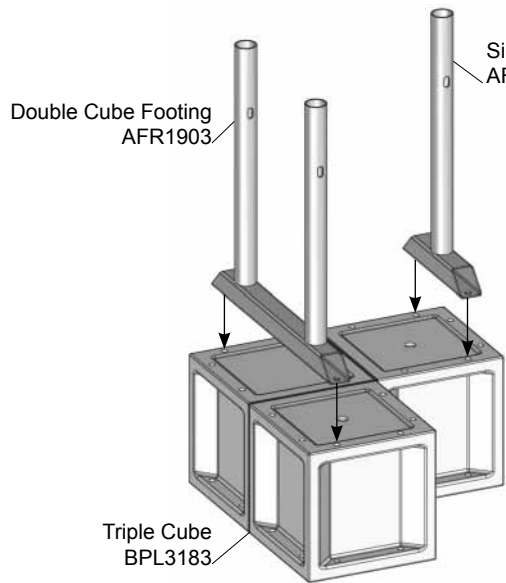
12.1" (307 mm)

Elevation Views
ZZUN7099S



Installation Instructions

Common QuBits™ Connections



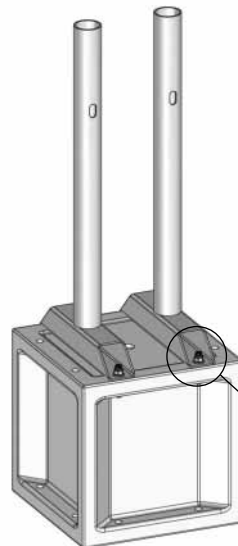
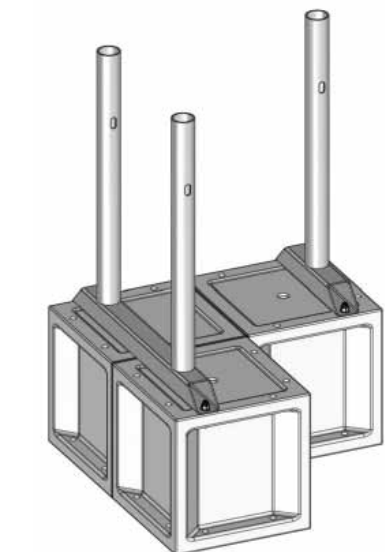
Connection A

(In-Ground Model Only)

Attach the footing legs to the bottom of the cube assembly.

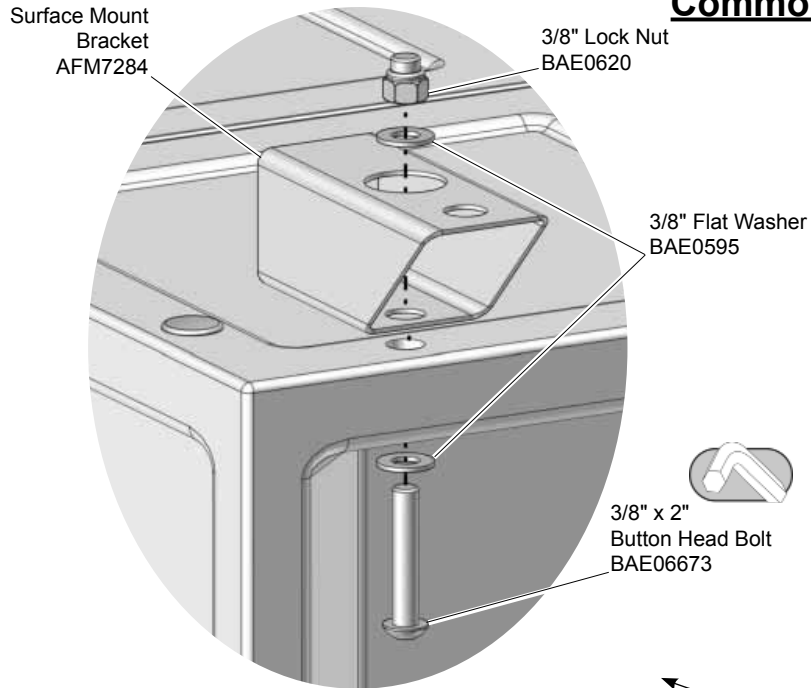


In-ground Mount Only: Attach the footing legs to the bottom side of the cubes (the bottom is the "non-treaded" side). The Triple Cube will require one double cube footing and one single cube footing and the Single Cube will require two single cube footings.



Installation Instructions

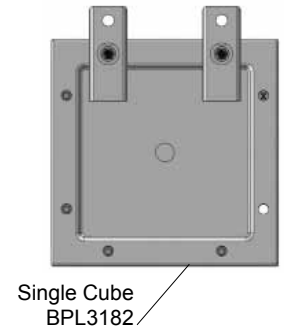
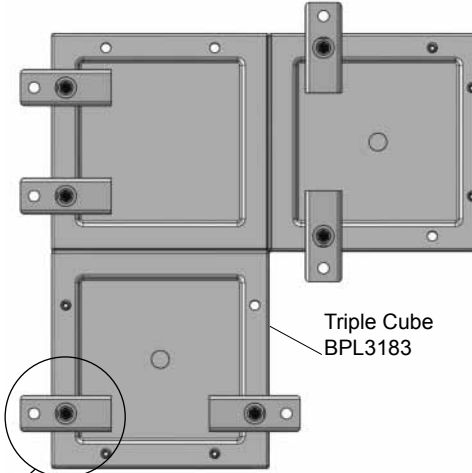
Common QuBits™ Connections



Connection B Surface Mount Only

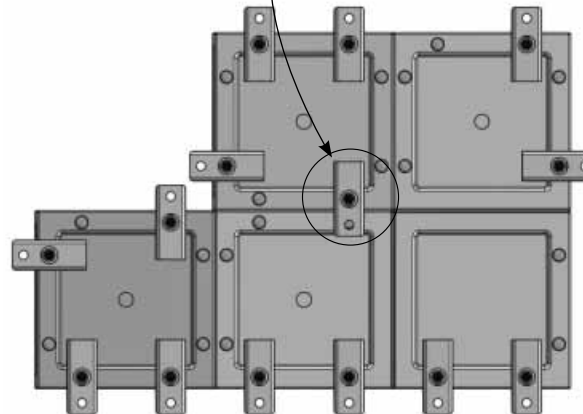
Attach the surface mount brackets to the bottom of the cubes.

Location of the brackets may vary depending on the cube assembly. Refer to the installation instruction for your specific layout. These views are for reference only.



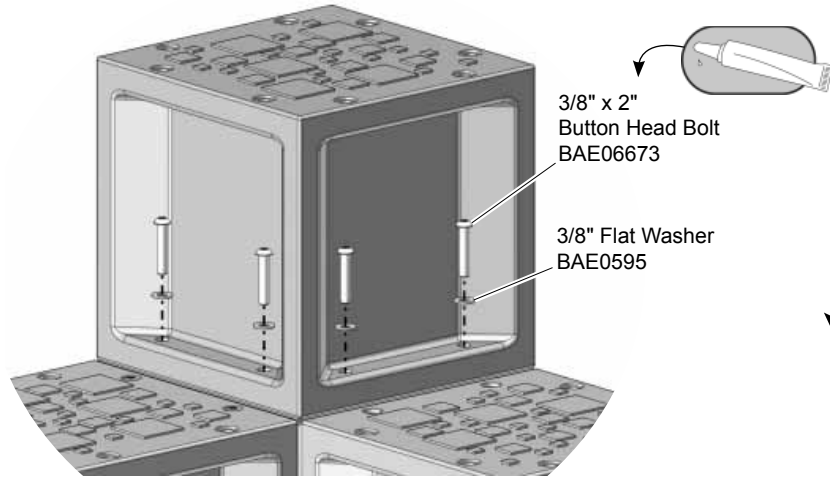
Surface Mount Only: Attach the surface mount brackets to the bottom side of the cubes (the bottom is the "non-treaded" side). The angled edge of the brackets should be pointing to the outside.

Note: There may be a surface mount bracket that could be located in the middle of the QuBits configuration, that bracket is not required to be anchored to the concrete base, however it must be installed to support the cubes.



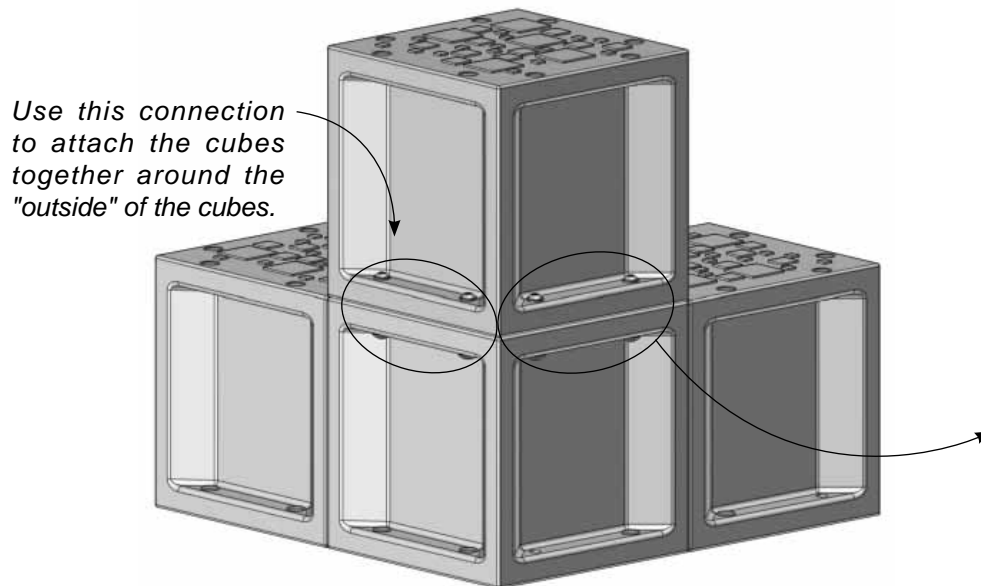
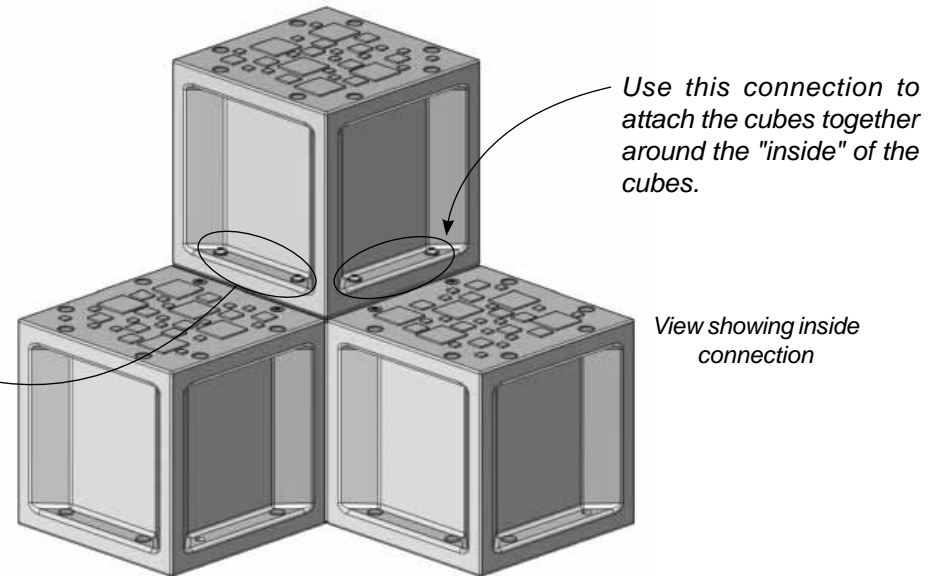
Installation Instructions

Common QuBits™ Connections

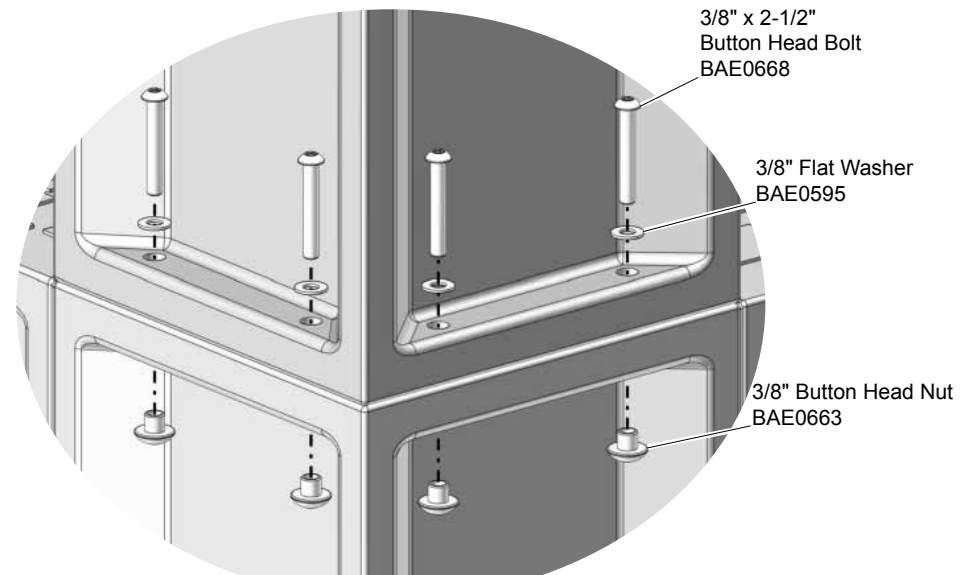


Connection C

Inside connection for cube to cube.



View showing outside connection

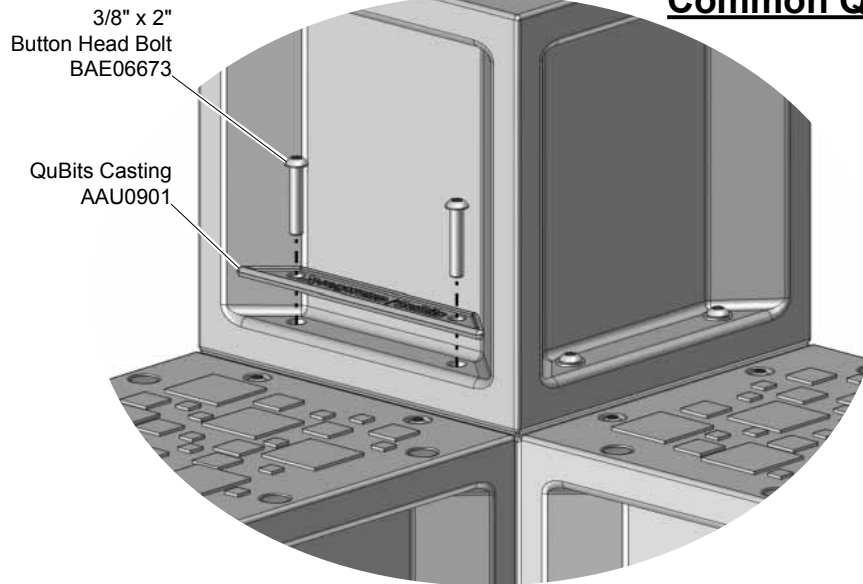


Connection D

Outside connection for cube to cube.

Installation Instructions

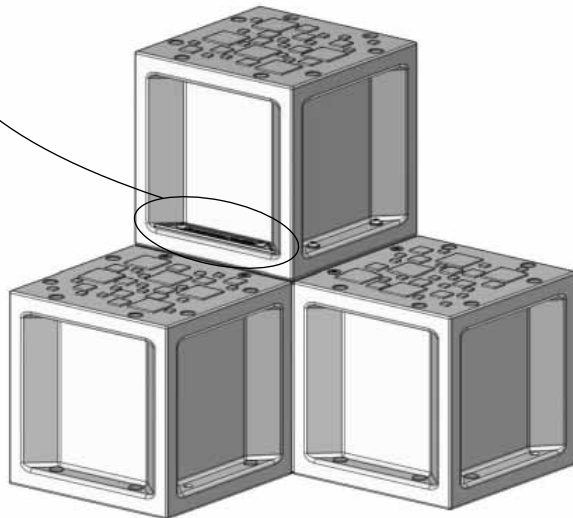
Common QuBits™ Connections



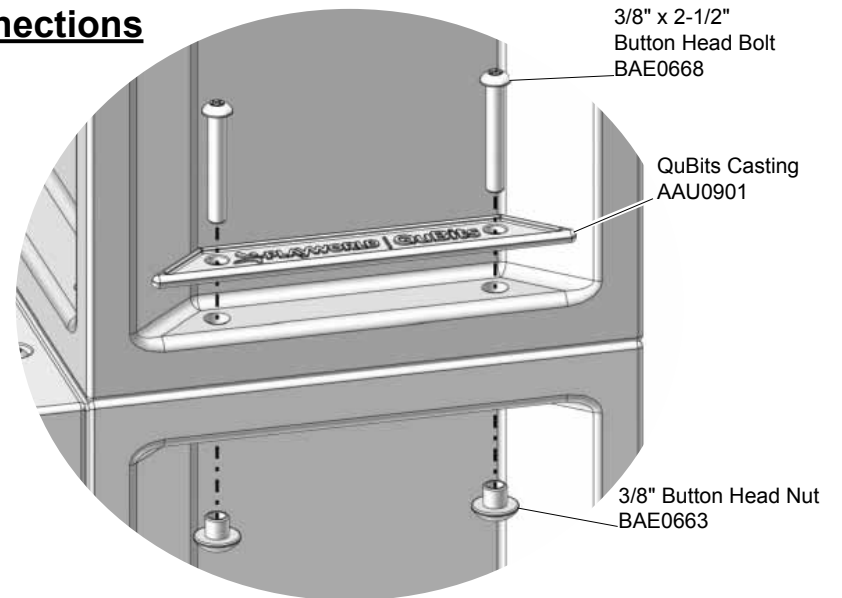
Connection E

Option 1

Attach the QuBits casting to the inside of the cube.



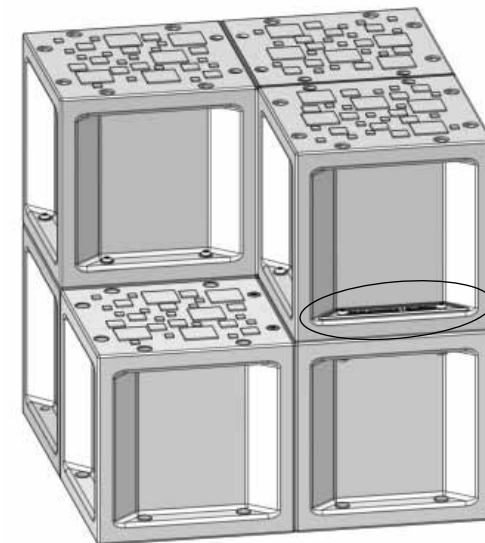
View showing inside connection



Connection E

Option 2

Attach the QuBits casting to the outside of the cubes.

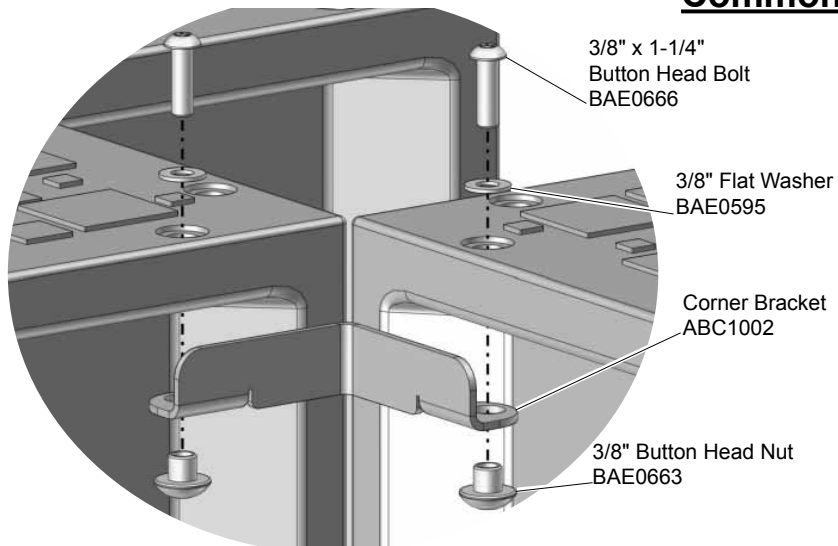


View showing outside connection

Note: The QuBits casting should be installed where it will be visible on your assembly. This **should not** be installed on the 1st layer (ground level) of cubes.

Installation Instructions

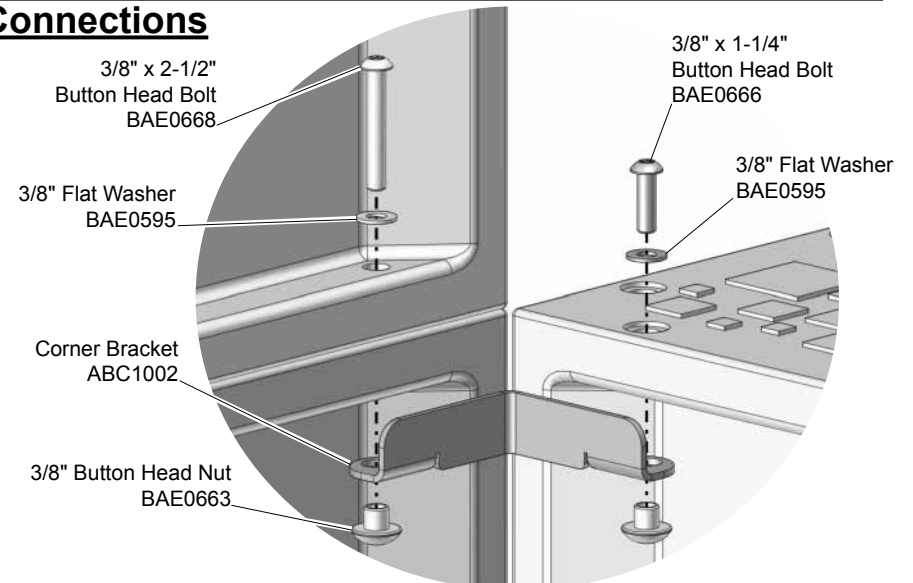
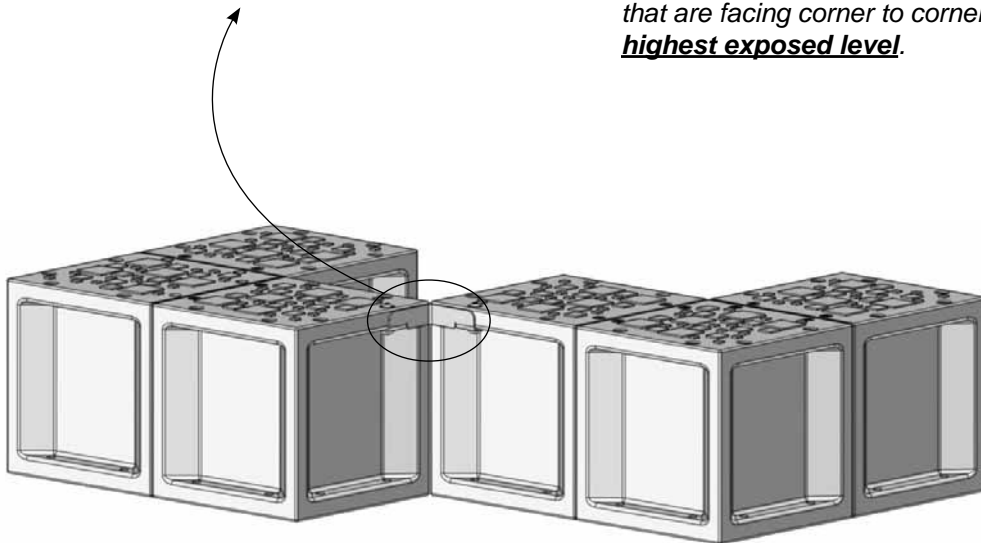
Common QuBits™ Connections



Connection F

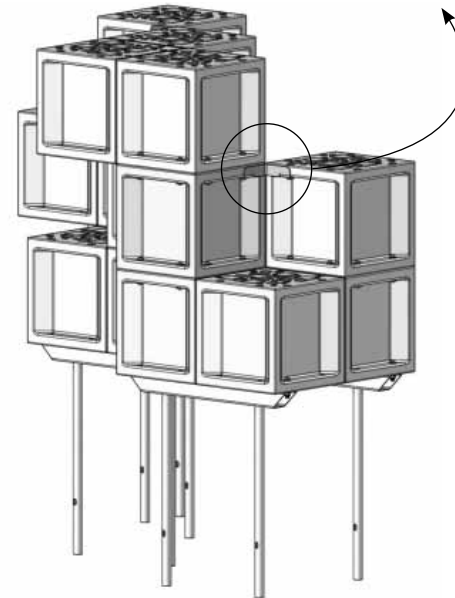
Attach the corners of the cubes using the corner bracket.

Note: The corner to corner bracket should be used to attach cubes in the same layer that are facing corner to corner **at the highest exposed level!**



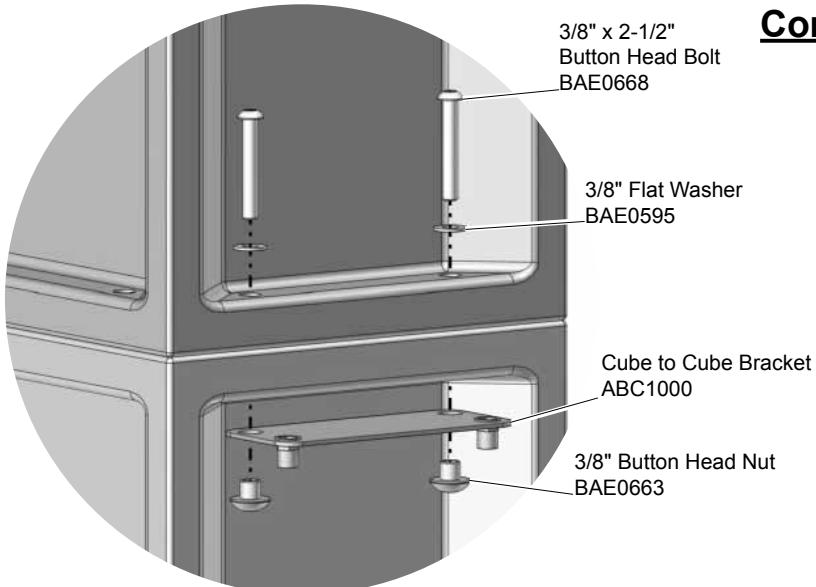
Connection G

Attach the corners of the cubes using the corner bracket. Use this connection if there is another cube to be attached on top.



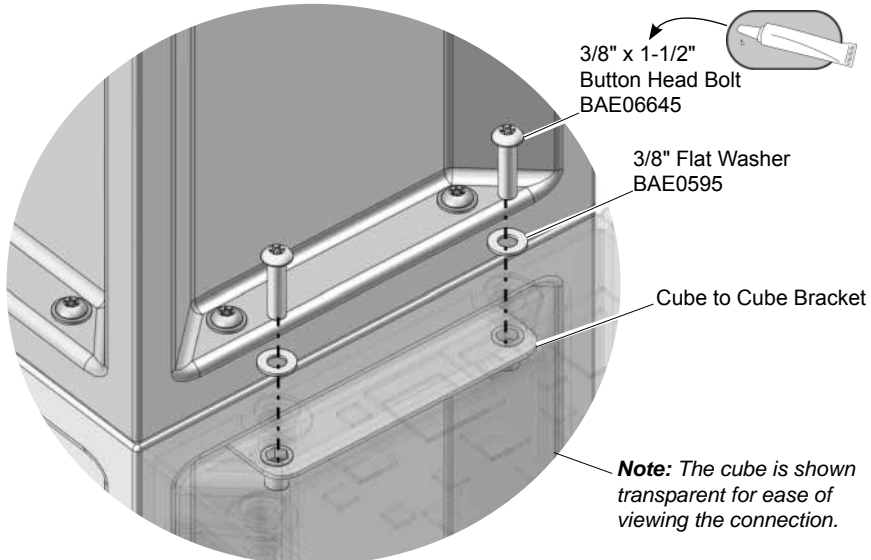
Installation Instructions

Common QuBits™ Connections



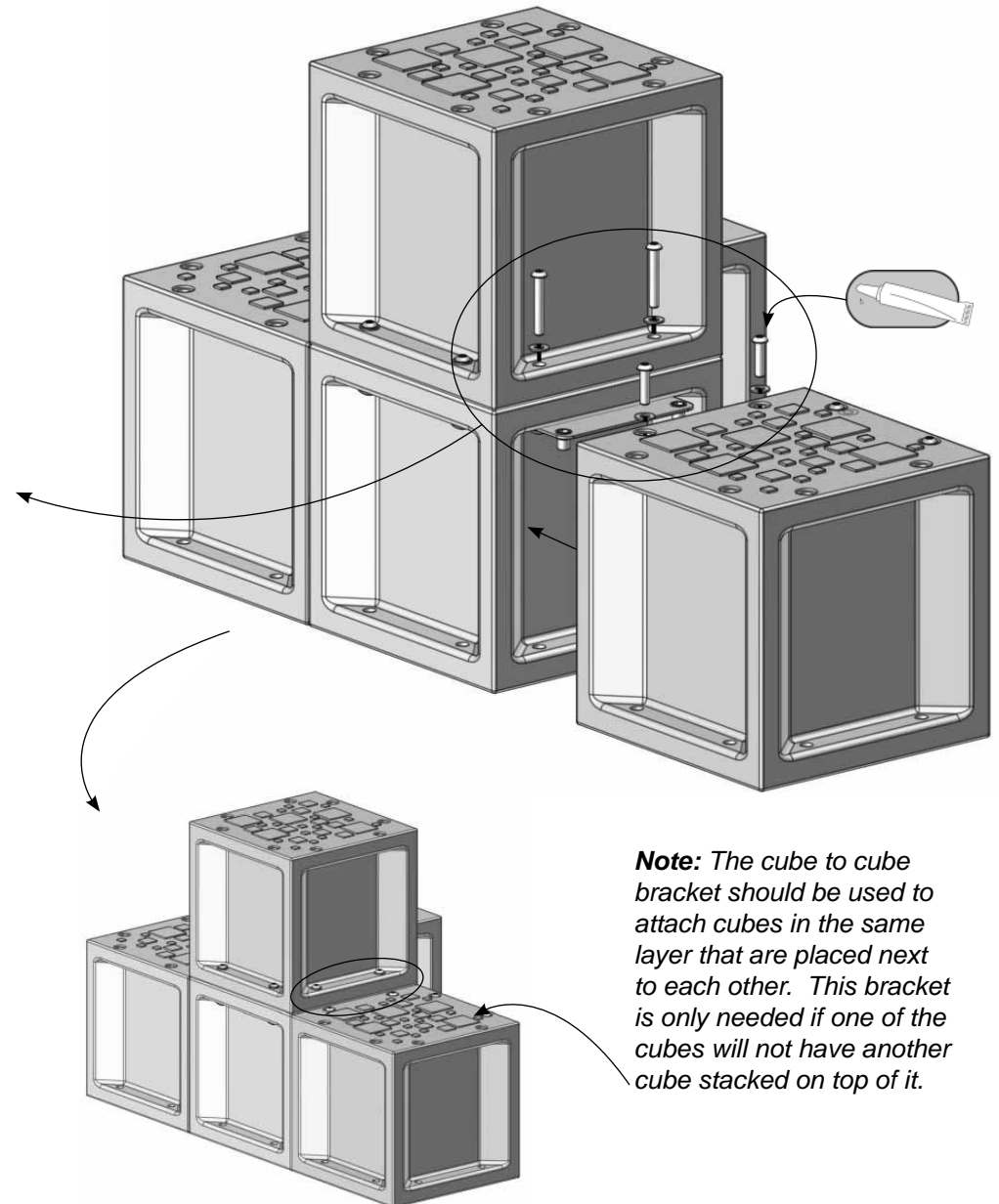
Connection H-1

Attach the cube to cube bracket to the underside of the cube.



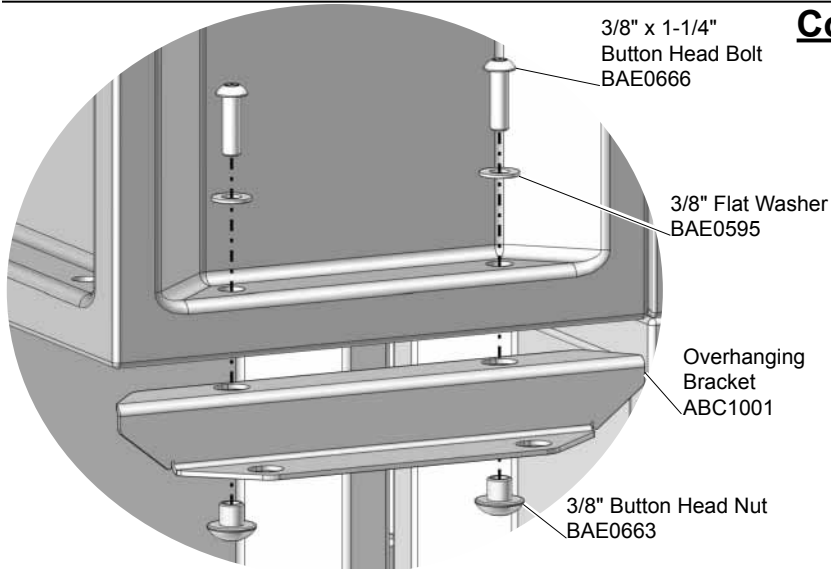
Connection H-2

Place another cube over the bracket and attach as shown.



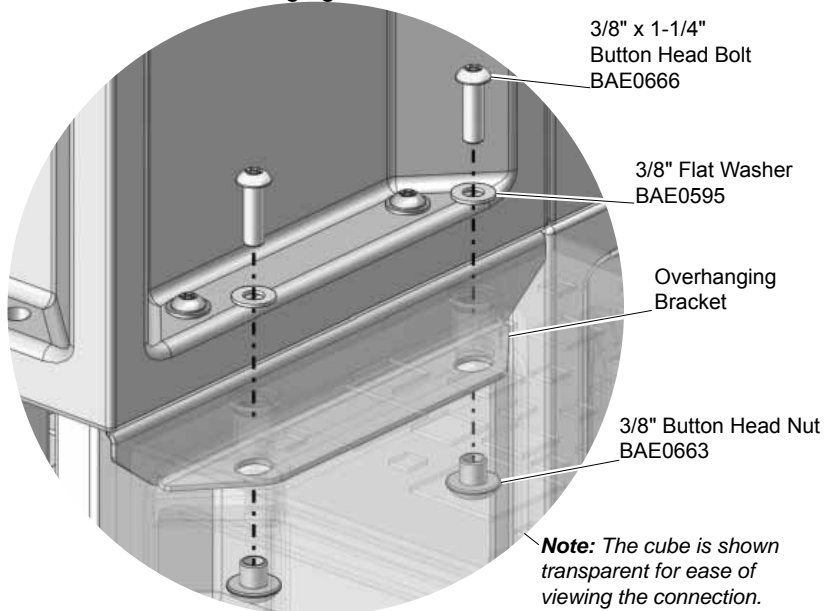
Installation Instructions

Common QuBits™ Connections



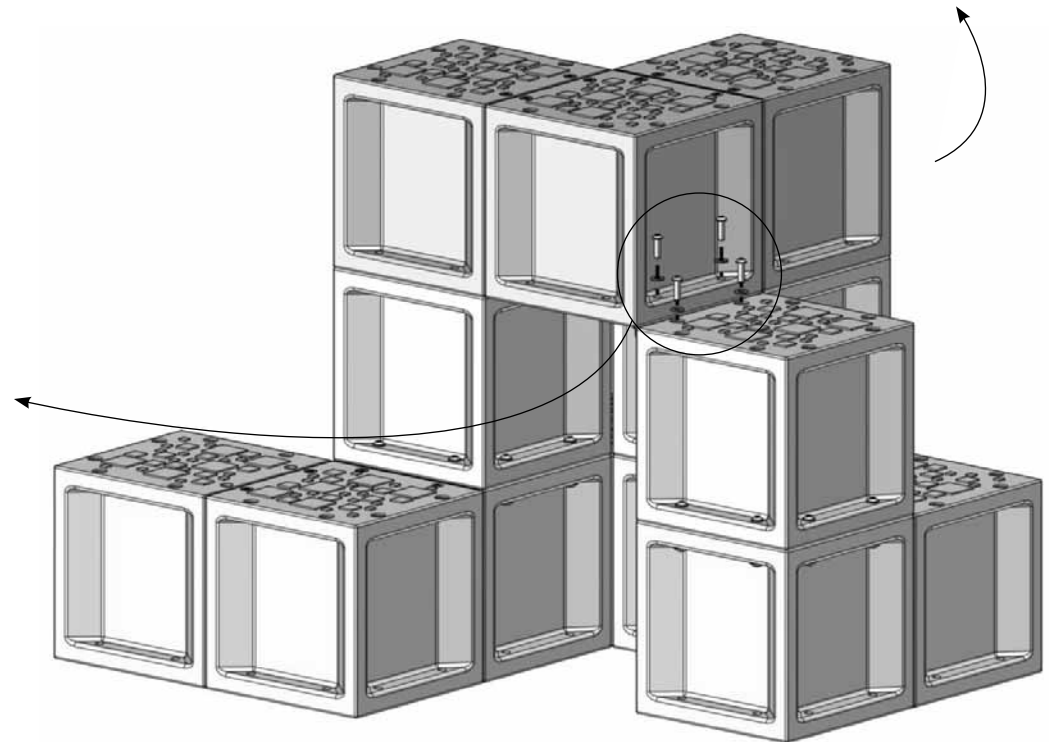
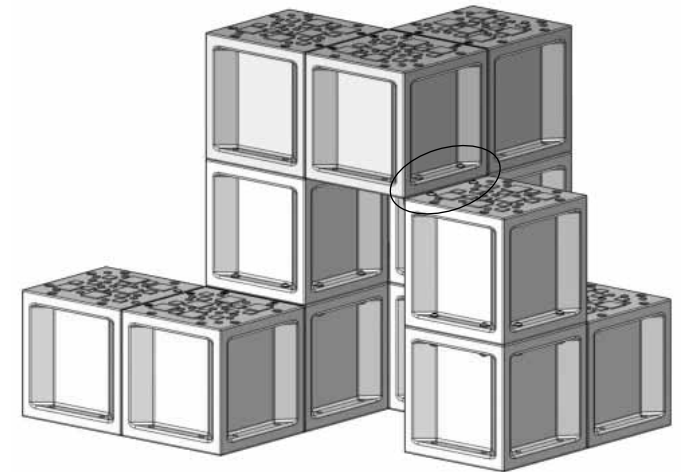
Connection I-1

Attach the overhanging bracket to the underside of the cube.



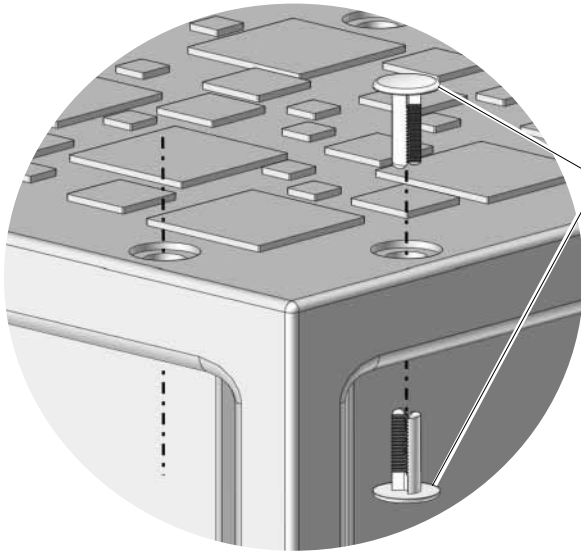
Connection I-2

Place another cube over the bracket and attach as shown.



Installation Instructions

Common QuBits™ Connections

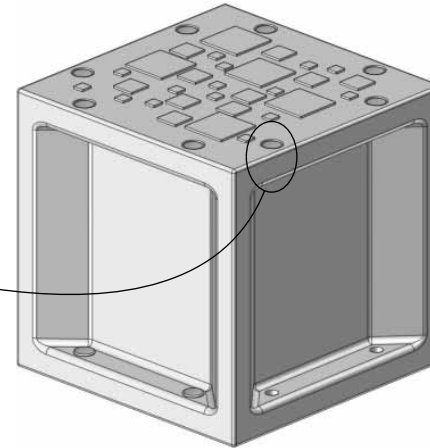


Ratchet Rivet
BPL3193

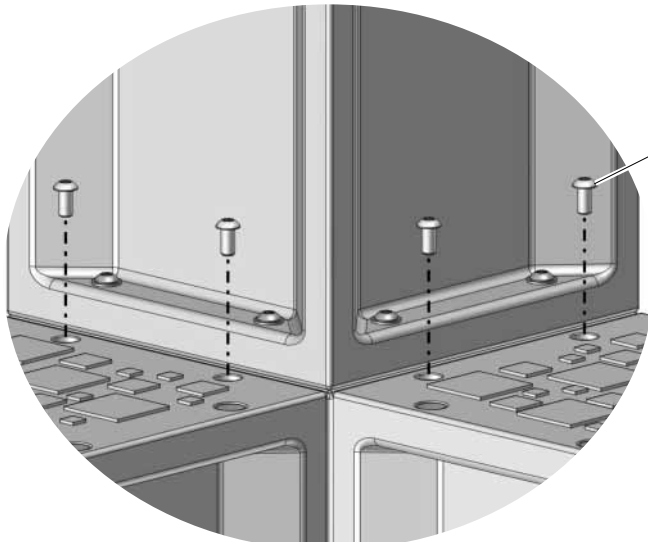
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Connection J

Plug empty holes on cubes.



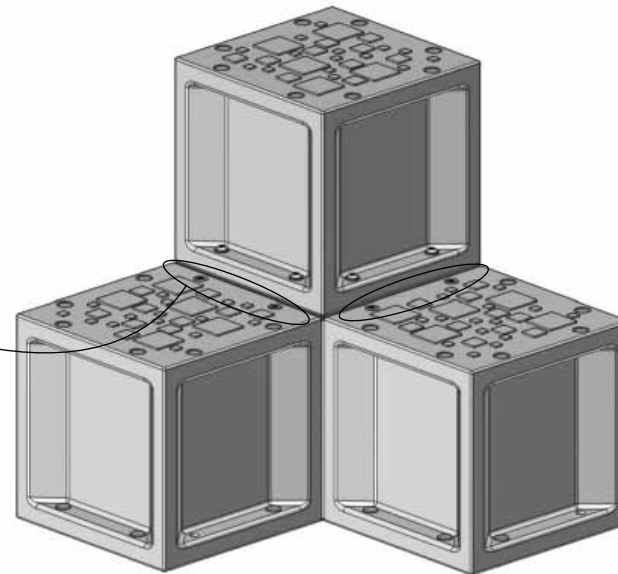
The ratchet rivets are used to fill any empty hole (around the outside of the cube) when done assembling the cubes. Place a rivet on the top and bottom of each empty hole and press together until flush with the cube.



3/8" x 3/4"
Button Head Bolt
BAE0659

Connection K

Fill inserts on top of cubes.

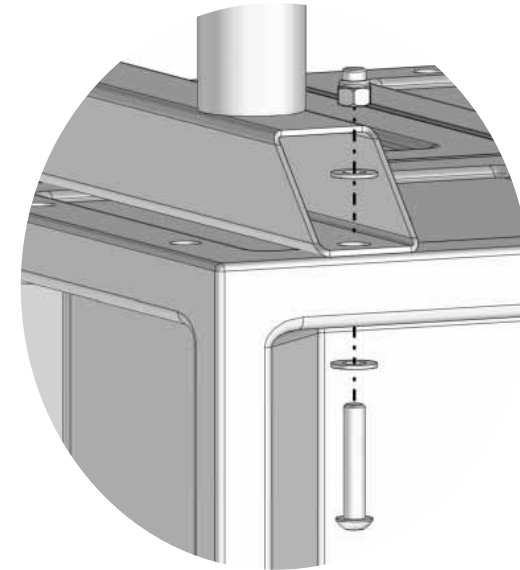
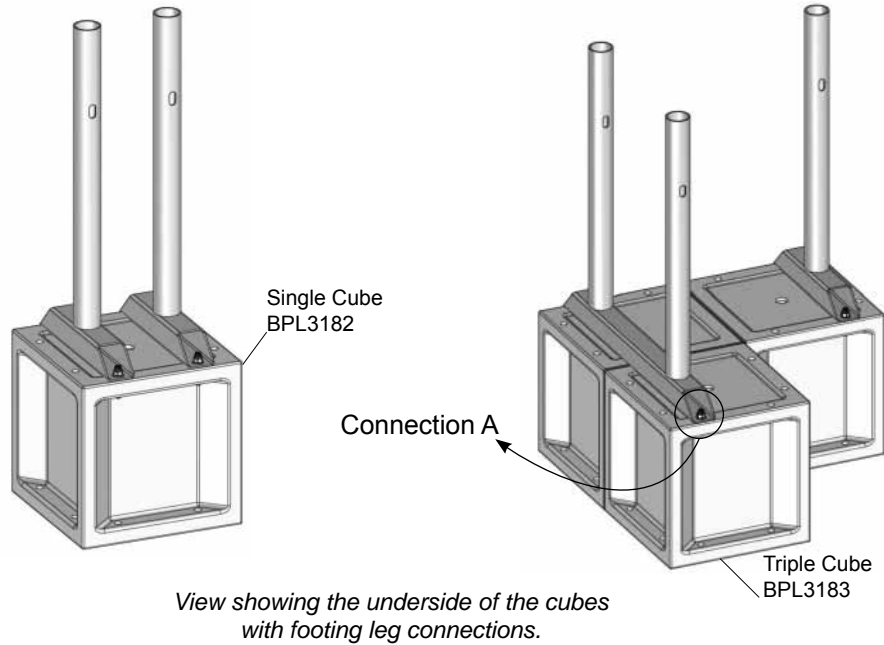


Fill any empty inserts on the top of the Triple Cubes when done assembling the cubes. The inserts are located around the inside of the Triple Cubes.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 17.

Important Note: Reference the Master Drawing for the layout / configuration of the cubes.



Step 4

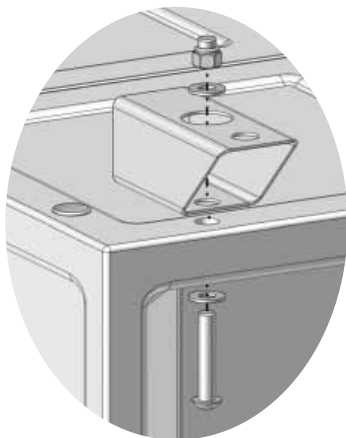
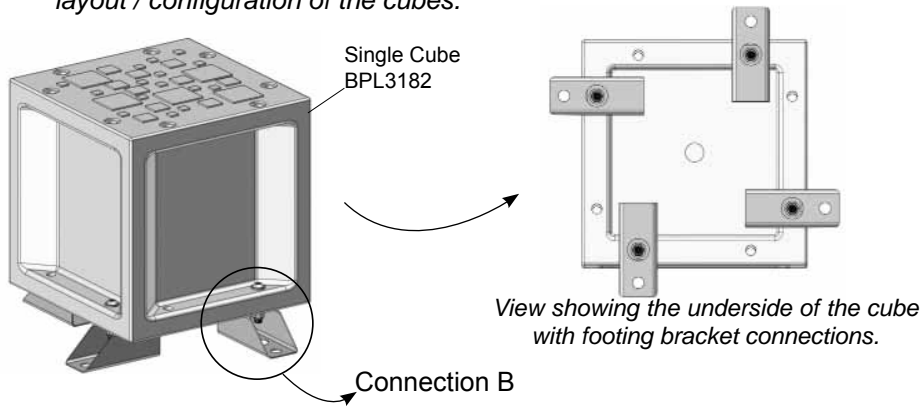
(In-ground Mount Only)

Attach the footing legs to the bottom of the cubes.

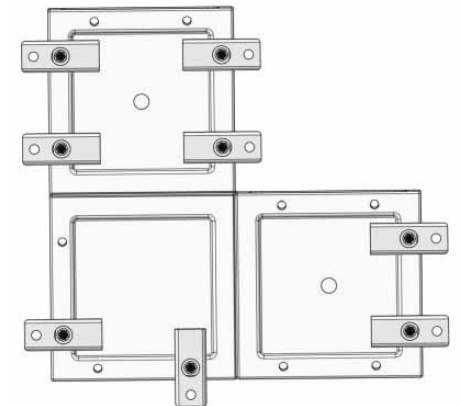
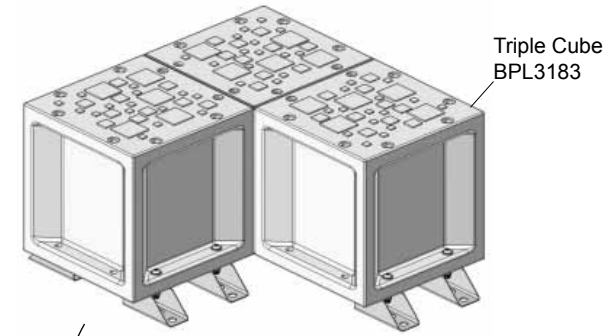


Installation Instructions

Important Note: Reference the Master Drawing for the layout / configuration of the cubes.



Connection B



View showing the underside of the cube with footing bracket connections.

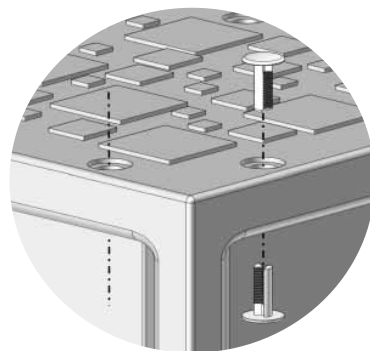
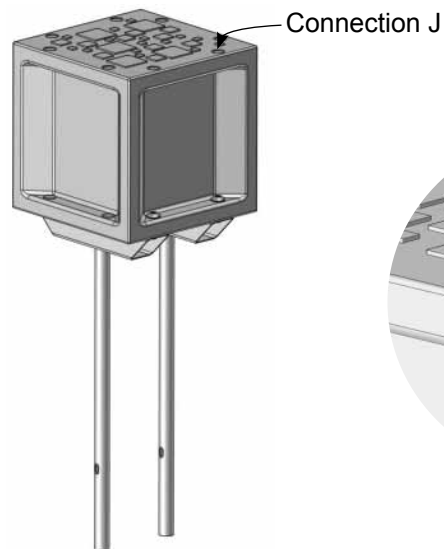
Step 5 (Surface Mount Only)



Attach the footing brackets to the bottom of the cubes.

Note: There may be a surface mount bracket in the middle of the QuBits configuration that is not required to be anchored to the concrete base. It must be installed to support the cubes.

Installation Instructions

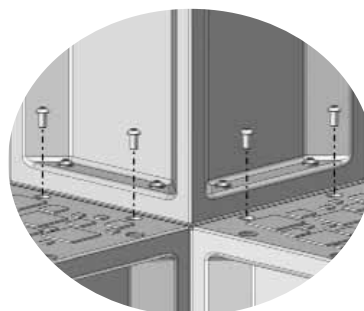


Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

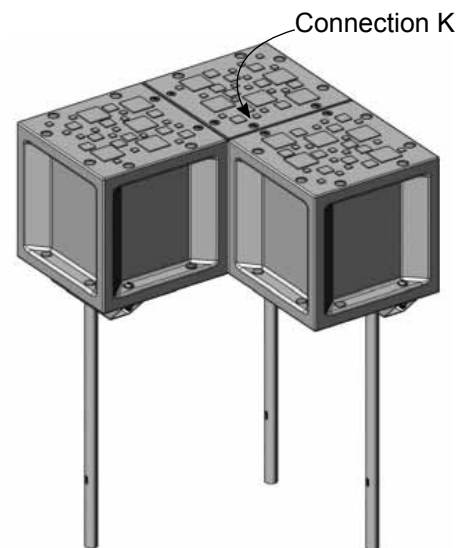
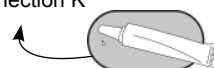
Connection J

Step 6

Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes.



Connection K



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing Detail or Surface Mount Footing Detail** in the Annex at the end of this document.

Step 4 (In-ground Mount Only): Attach the footing legs to the 1st layer of cubes. See **Page 14, Connection A**. Turn the cubes upside down, position the footing legs on the cubes, align the holes, and attach as shown. Refer to **Page 14** for the placement of the footing legs.

Step 5 (Surface Mount Only): Attach the footing brackets to the 1st layer of cubes. See **Page 15 / Connection B**. Turn the cubes upside down, position the brackets on the cubes, aligning the holes. The angled edges of the surface mount brackets should be pointing to the outside. Attach as shown. See **Page 15** for placement of the footing brackets.

Step 6: Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes. See **Page 16**. To fill the empty holes on the outside rim of the cubes, place a ratchet rivet in the top and bottom of the hole and press together until flush with the cube (See **Connection J**). To fill the empty holes on the inside holes on the tops of the Triple Cubes, apply thread locking adhesive to the bolt threads, and insert the bolts in the holes as shown (See **Connection K**).

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8 (In-ground Mount Only): Plumb and level entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 9 (Surface Mount Only): Plumb and level entire component. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

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intentionally left blank.



ZZUN7097 - QUBITS LAYOUT #1

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3182	SINGLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	24

ZZUN7097S - QUBITS LAYOUT #1 SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3182	SINGLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	24

ZZUN7099 - QUBITS LAYOUT #3

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	1
AFR1903	FOOTING - DOUBLE CUBE	1
BAE0595	WASHER - 3/8" SAE FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	56

ZZUN7099S - QUBITS LAYOUT #3 SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	8
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	48

ZZUN7089 - QUBITS BADGE

PART NO.	DESCRIPTION	QTY.
AAU0901	QUBITS BRANDING CASTING	3

ZZUN7118 - QUBITS CORNER TO CORNER BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1002	PLATE - 5.00" x 5.00" x .88"	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	2

ZZUN7119 - QUBITS PLANE TO PLANE BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1000	PLATE - 7.00" x 2.88" x 12 GA	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	2
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	2
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - S.S.	2

ZZUN7126 - QUBITS OVERHANGING BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1001	PLATE - 11.75" x 2.69" x 1.50"	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S	4

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www.playworldsystems.com

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

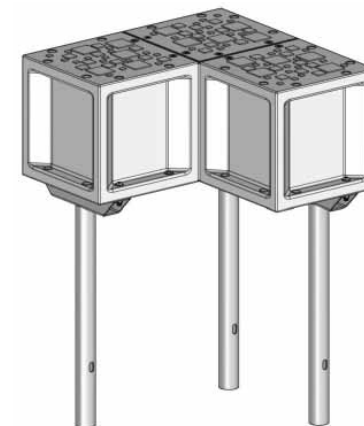
Equipment Maintenance

Universal Models ZZUN7097,
ZZUN7097S, ZZUN7099,
ZZUN7099S, ZZUN7089,
ZZUN7118, ZZUN7119 and
ZZUN7126

QuBits™ Layout #1 and #3
In-Ground and Surface Mount



ZZUN7097



ZZUN7099

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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

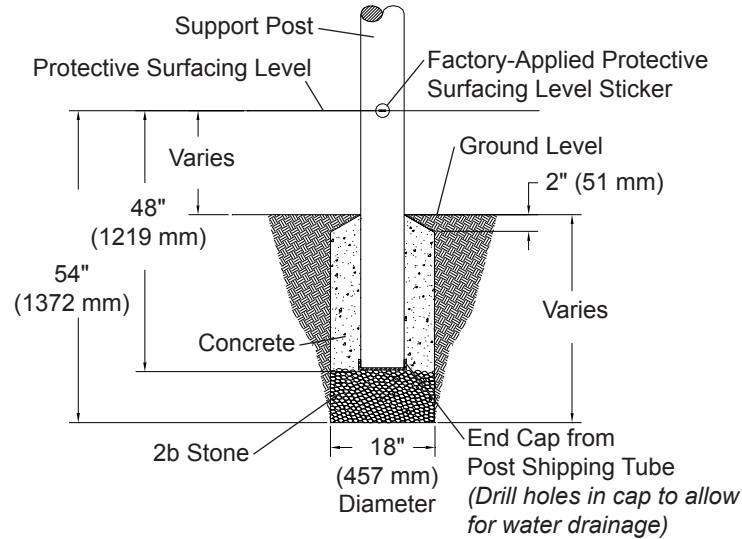
- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

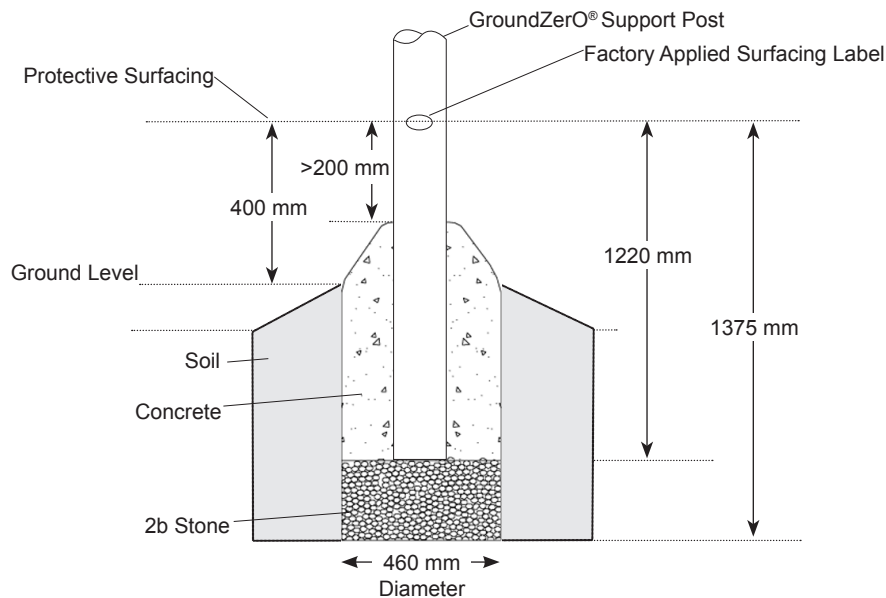
- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.



Footings Notes (in ground)

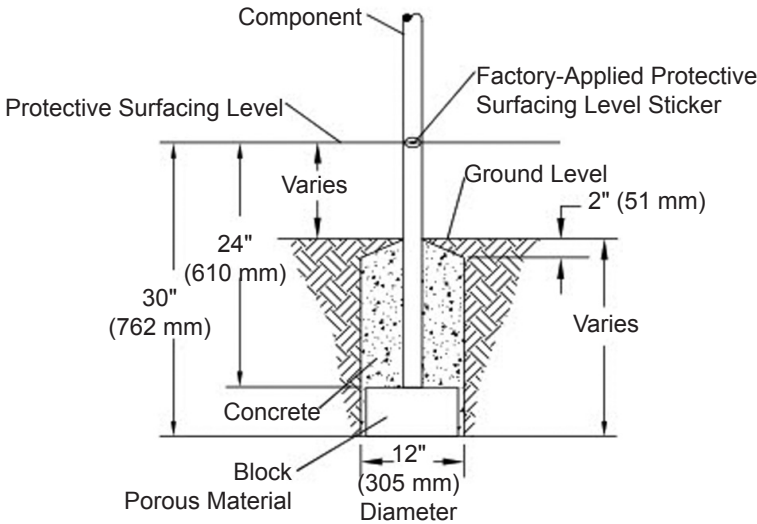


GroundZero® Support Post Footing Detail ASTM/CSA

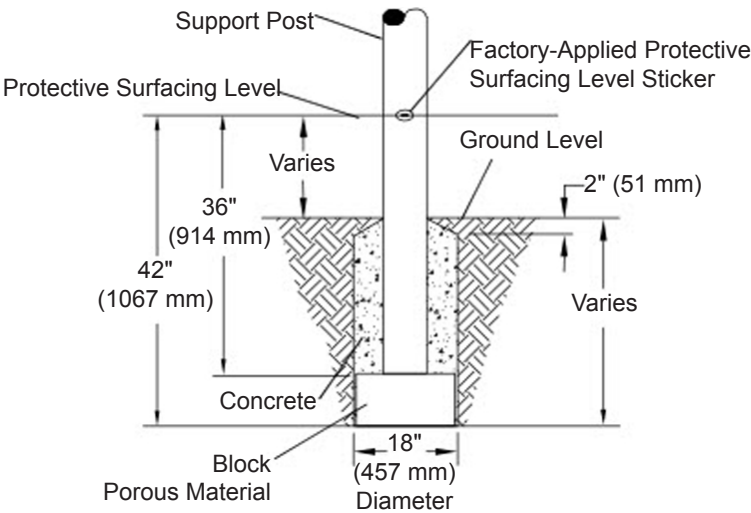


Footing Detail GroundZero® Support Post (EN)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



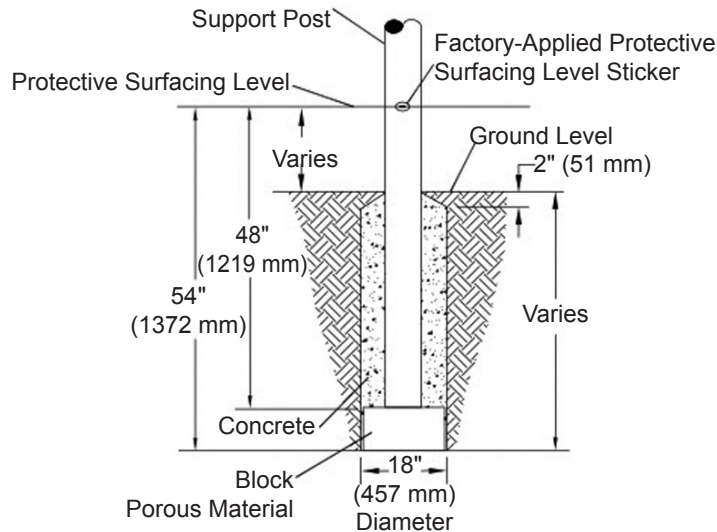
Component Footing Detail (ASTM/CSA)
Block Option



Support Post Footing Detail (ASTM/CSA)
Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

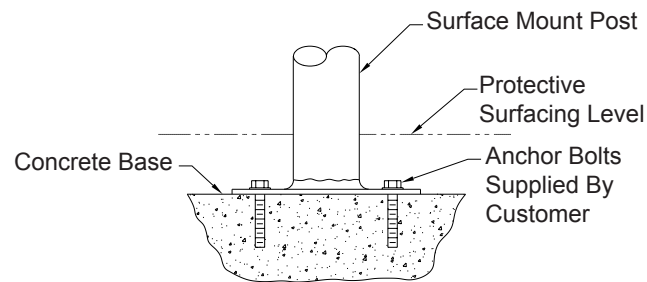


GroundZero® Support Post Footing Detail ASTM/CSA
Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footings Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

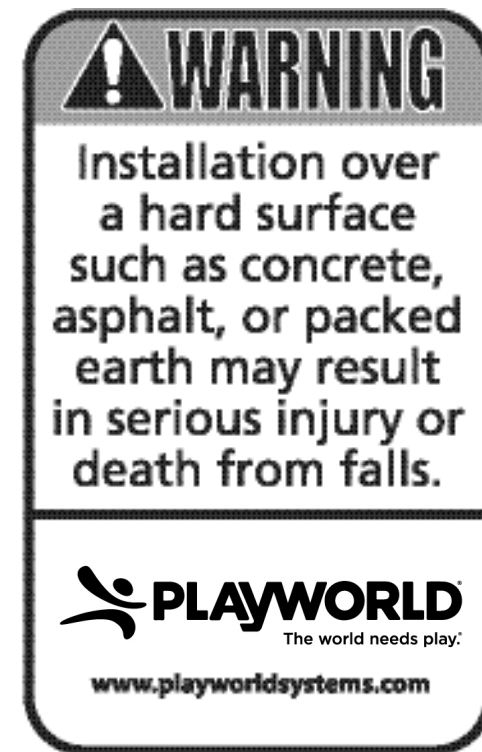
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

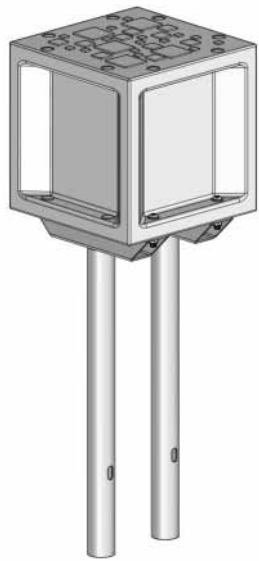
FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

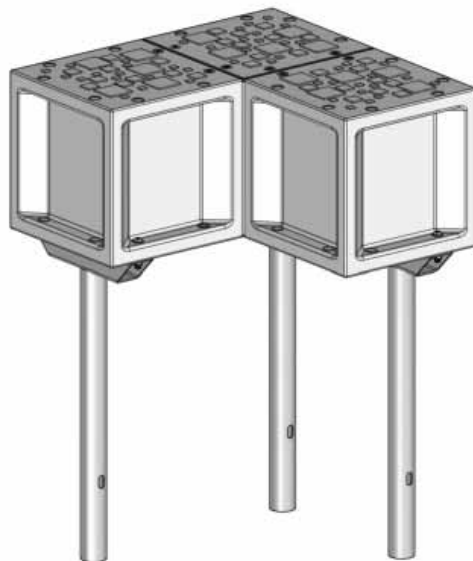
- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



ZZUN7097



ZZUN7099

Assembly View (representative models)

Part Number	Installation Time	Concrete Required
ZZUN7097	0.5 man-hours	0.03 cubic yard (0,02 cubic meters)
ZZUN7097S	0.25 man-hours	N/A
ZZUN7099	1 man-hour	0.09 cubic yard (0,06 cubic meters)
ZZUN7099S	0.5 man-hours	N/A
ZZUN7089	0.25 hours	N/A
ZZUN7118	0.25 hours	N/A
ZZUN7119	0.25 hours	N/A
ZZUN7126	0.25 hours	N/A




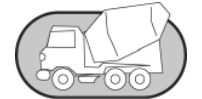
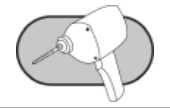


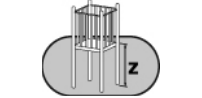
Installation Instructions

Universal Models ZZUN7097, ZZUN7097S, ZZUN7099, ZZUN7099S, ZZUN7089, ZZUN7118, ZZUN7119 and ZZUN7126
 QuBits™ Layout #1 and #3
 In-Ground and Surface Mount

Installation Preparation

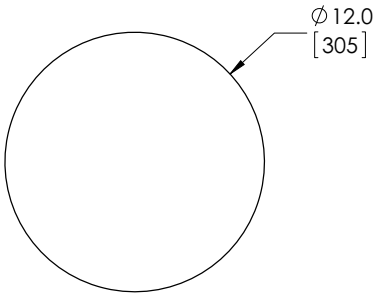
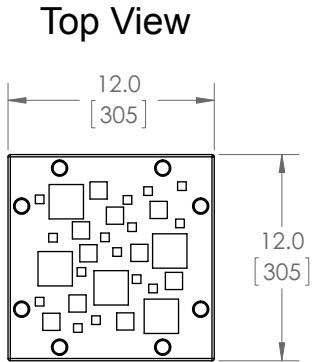
Recommended Crew: Two (2) adults
 Installation Time: Refer to the table at left
 Concrete Required (in-ground): Refer to the table at left
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

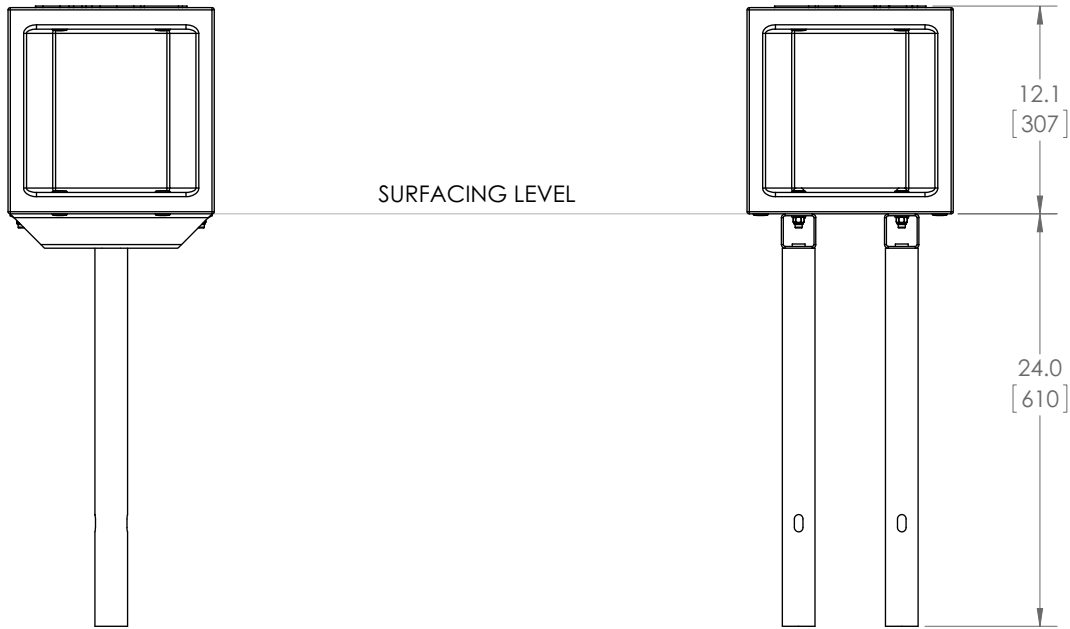
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

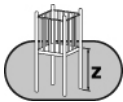
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



Elevation Views
ZZUN7097

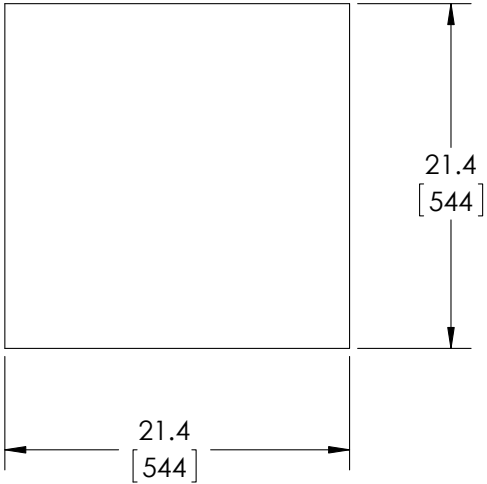
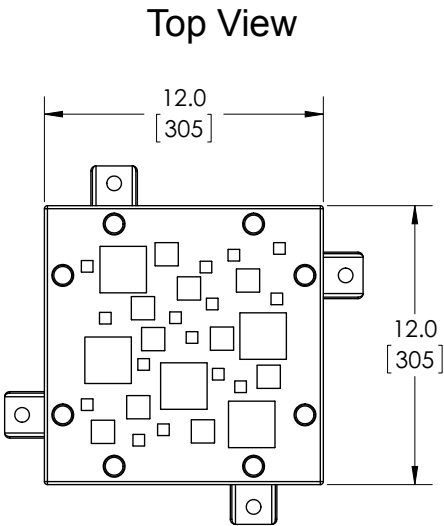


12.1" (307 mm)

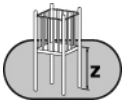
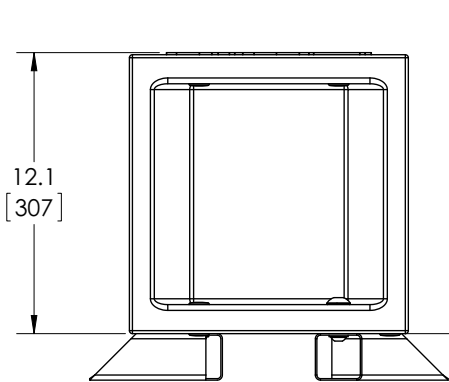


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

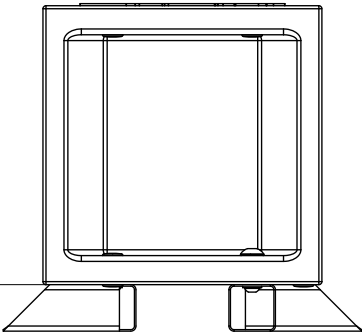


Footing Diagram



12.1" (307 mm)

SURFACING LEVEL



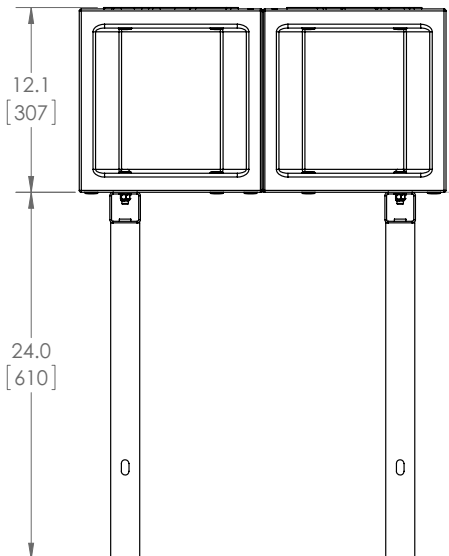
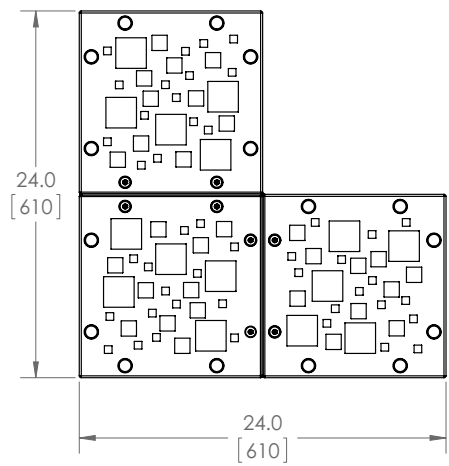
Elevation Views
ZZUN7097S



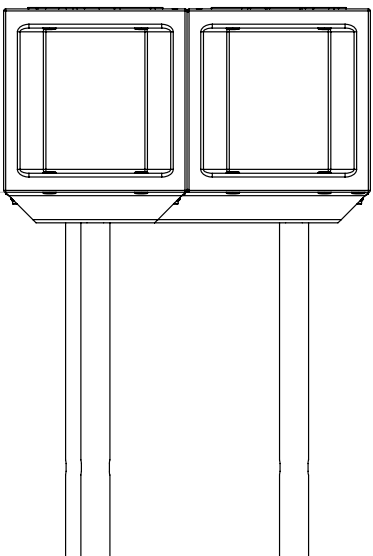
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

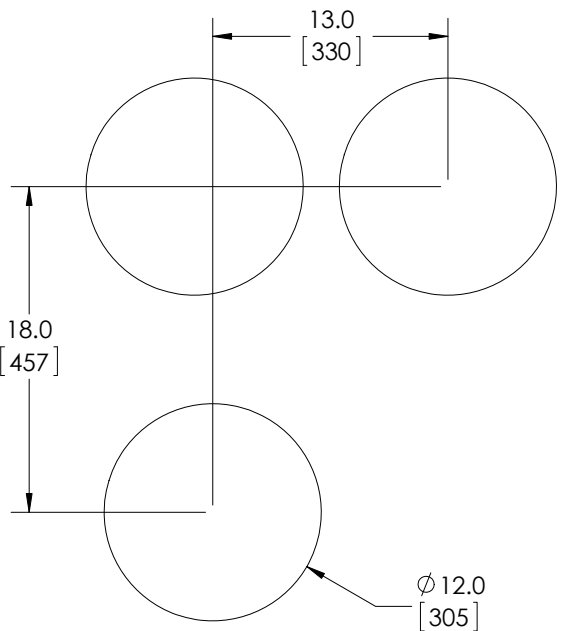
Top View



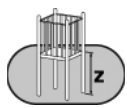
SURFACING LEVEL



Elevation Views
ZZUN7099



Footing Diagram

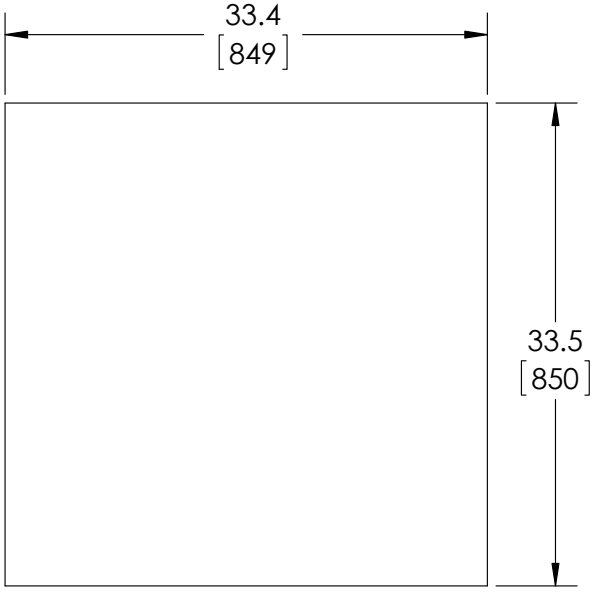
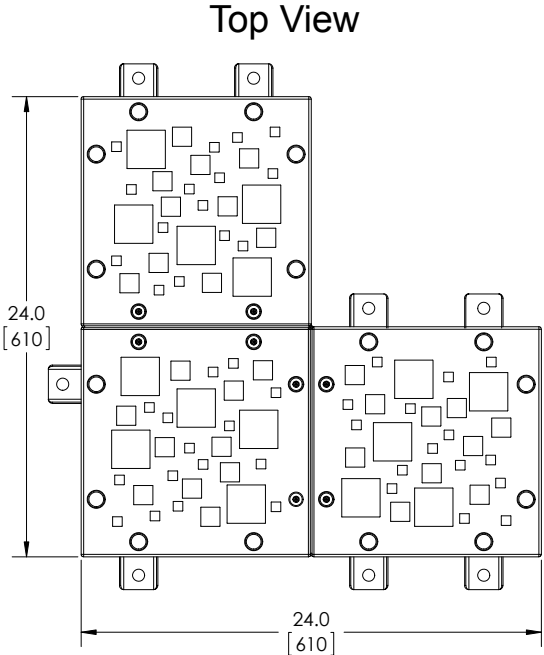


12.1" (307 mm)

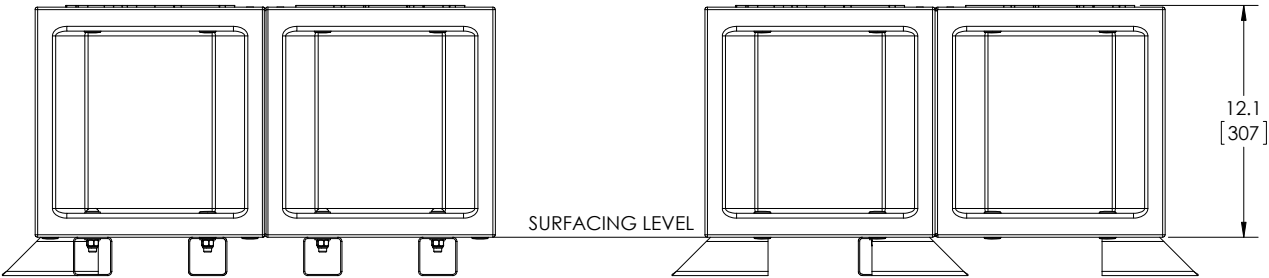


Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram

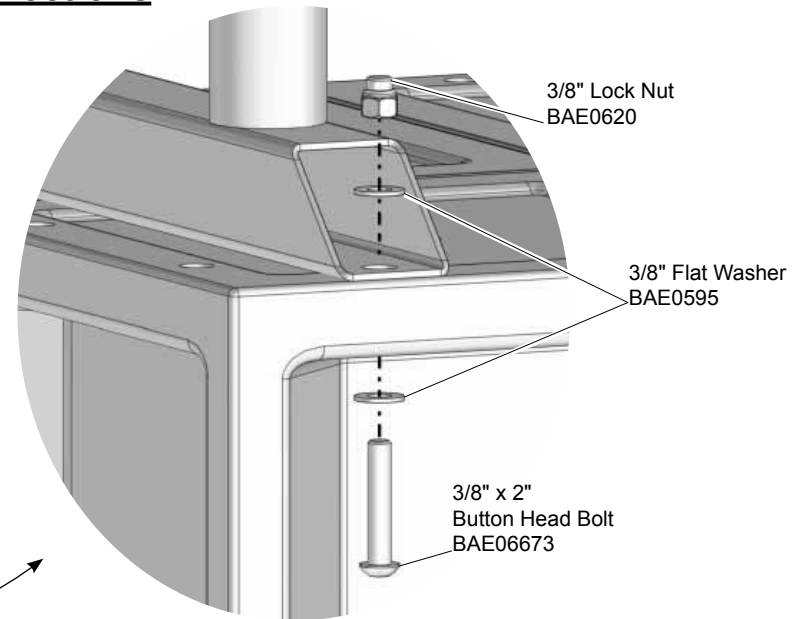
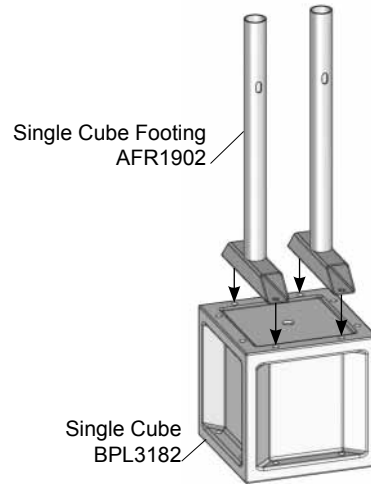
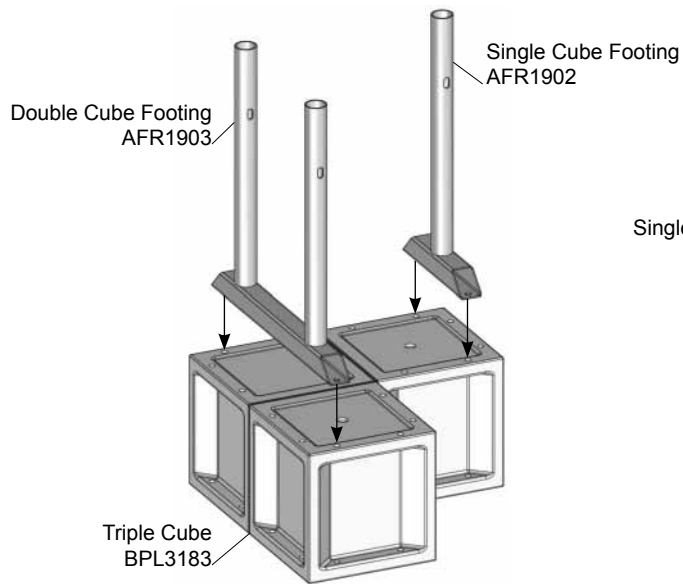


Elevation Views
ZZUN7099S



Installation Instructions

Common QuBits™ Connections



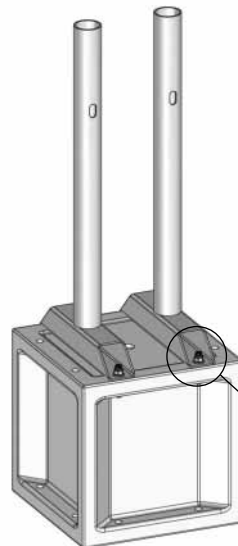
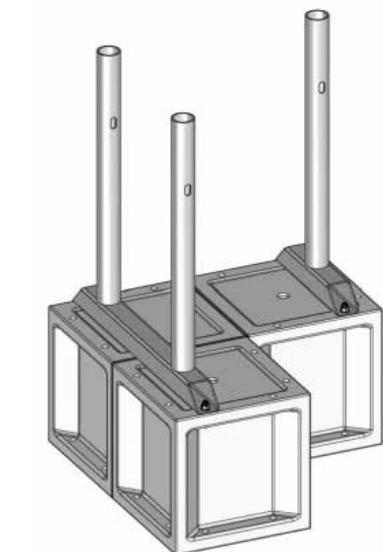
Connection A

(In-Ground Model Only)

Attach the footing legs to the bottom of the cube assembly.

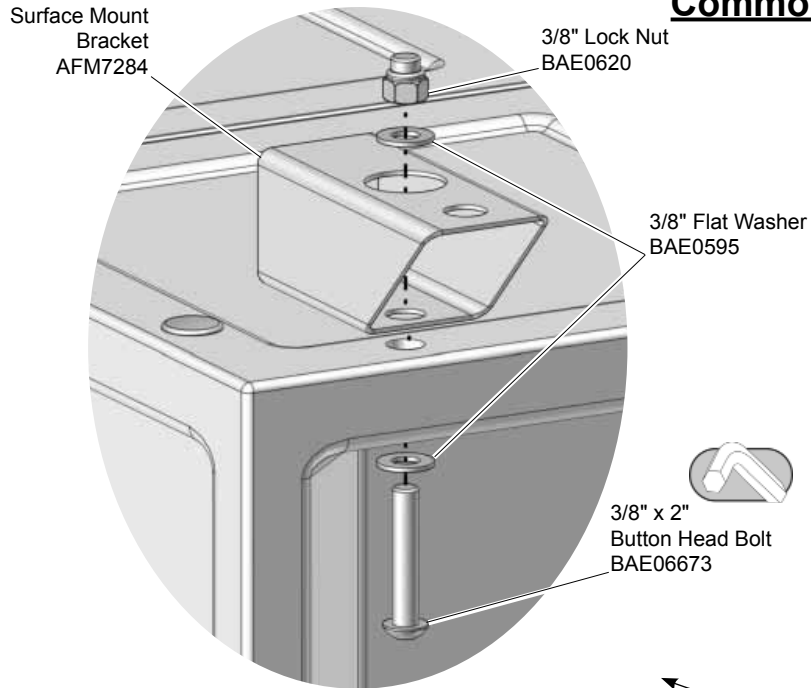


In-ground Mount Only: Attach the footing legs to the bottom side of the cubes (the bottom is the "non-treaded" side). The Triple Cube will require one double cube footing and one single cube footing and the Single Cube will require two single cube footings.



Installation Instructions

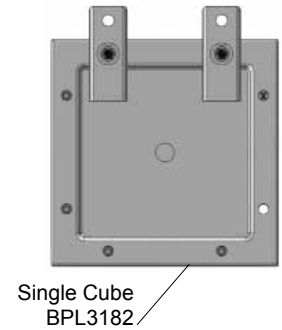
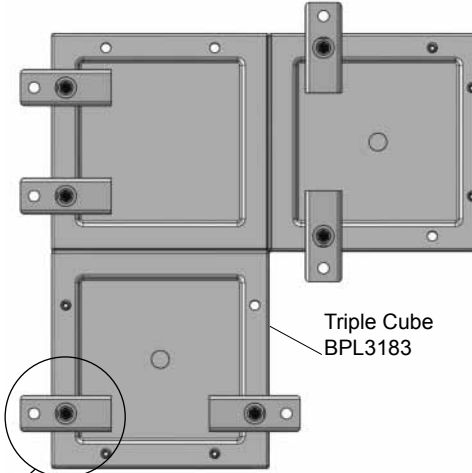
Common QuBits™ Connections



Connection B Surface Mount Only

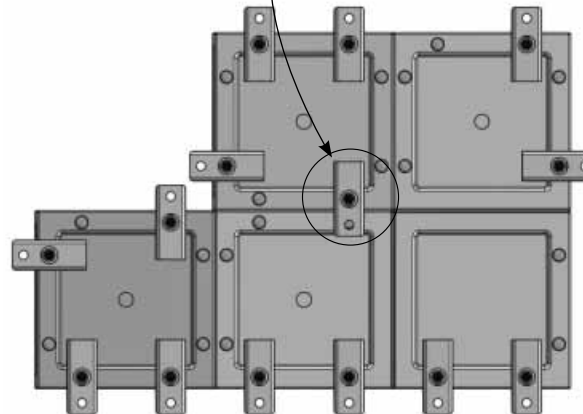
Attach the surface mount brackets to the bottom of the cubes.

Location of the brackets may vary depending on the cube assembly. Refer to the installation instruction for your specific layout. These views are for reference only.



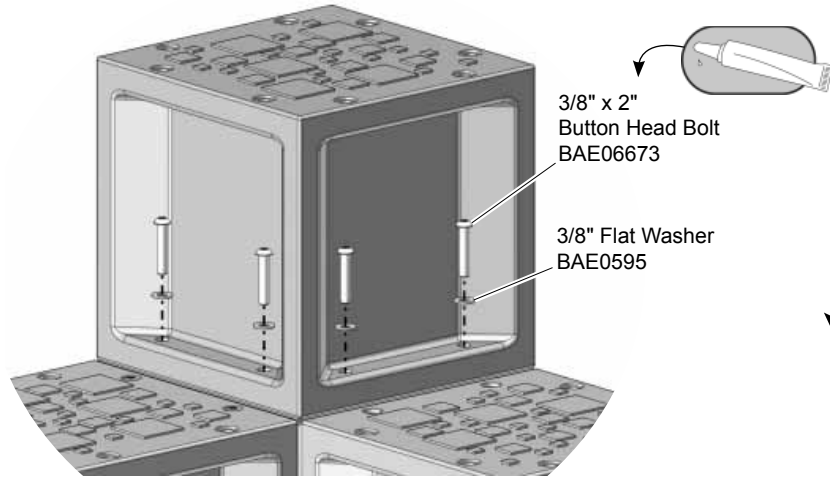
Surface Mount Only: Attach the surface mount brackets to the bottom side of the cubes (the bottom is the "non-treaded" side). The angled edge of the brackets should be pointing to the outside.

Note: There may be a surface mount bracket that could be located in the middle of the QuBits configuration, that bracket is not required to be anchored to the concrete base, however it must be installed to support the cubes.



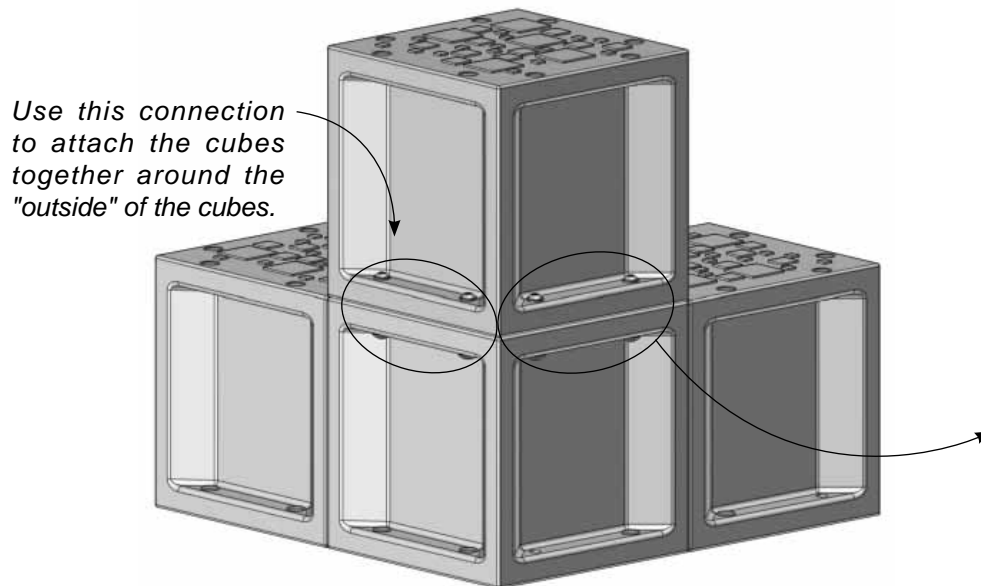
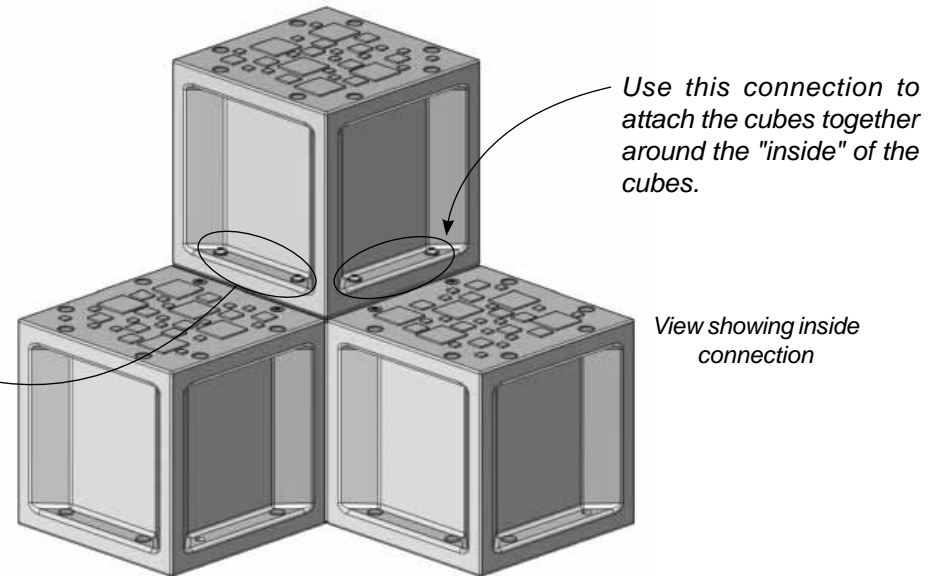
Installation Instructions

Common QuBits™ Connections

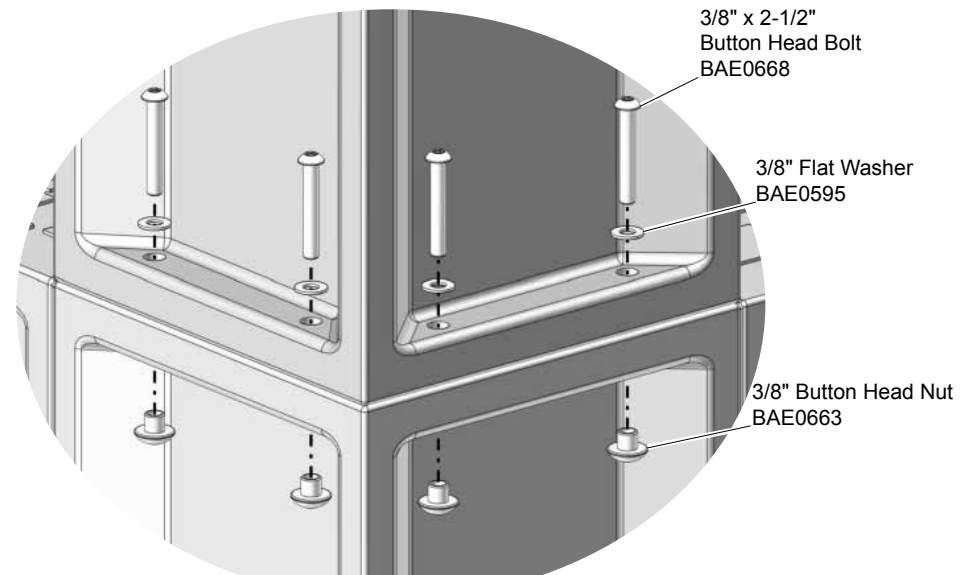


Connection C

Inside connection for cube to cube.



View showing outside connection

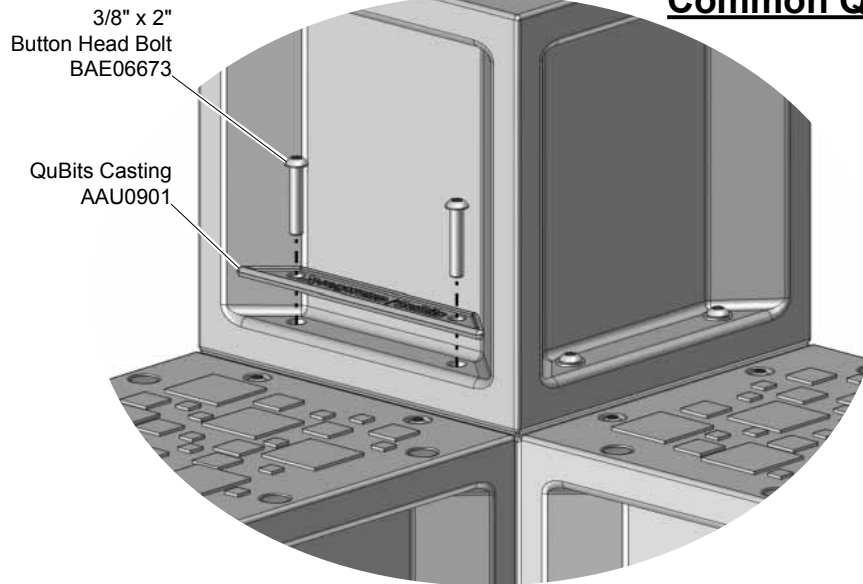


Connection D

Outside connection for cube to cube.

Installation Instructions

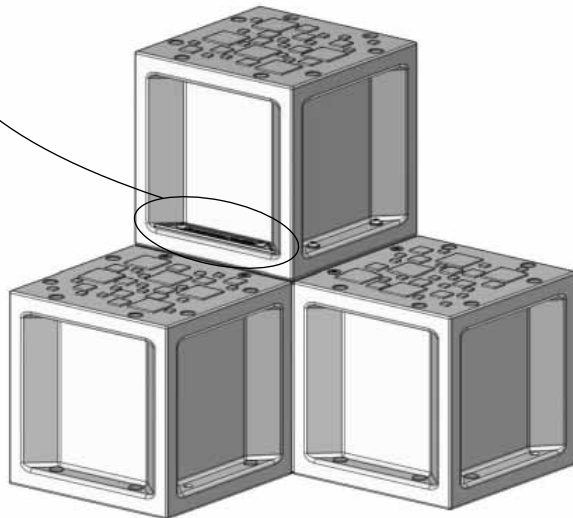
Common QuBits™ Connections



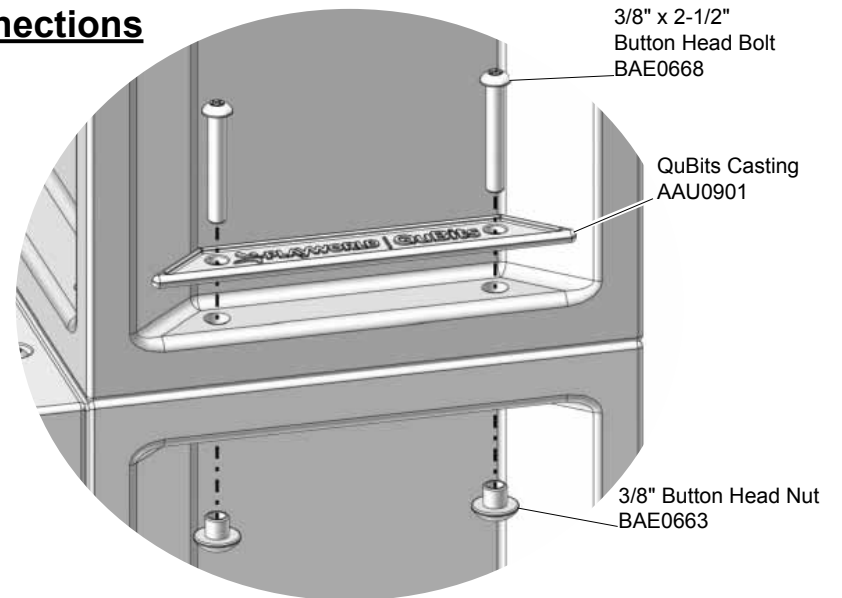
Connection E

Option 1

Attach the QuBits casting to the inside of the cube.



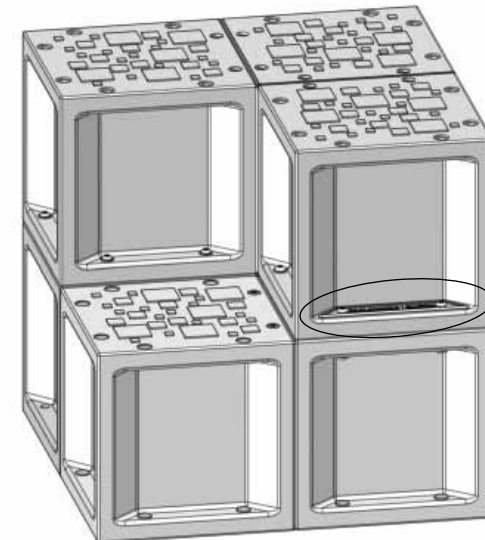
View showing inside connection



Connection E

Option 2

Attach the QuBits casting to the outside of the cubes.

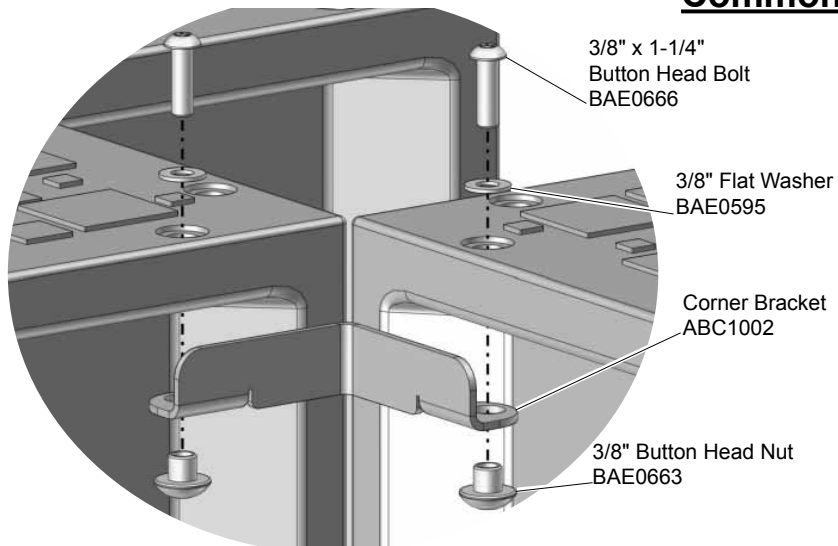


View showing outside connection

Note: The QuBits casting should be installed where it will be visible on your assembly. This **should not** be installed on the 1st layer (ground level) of cubes.

Installation Instructions

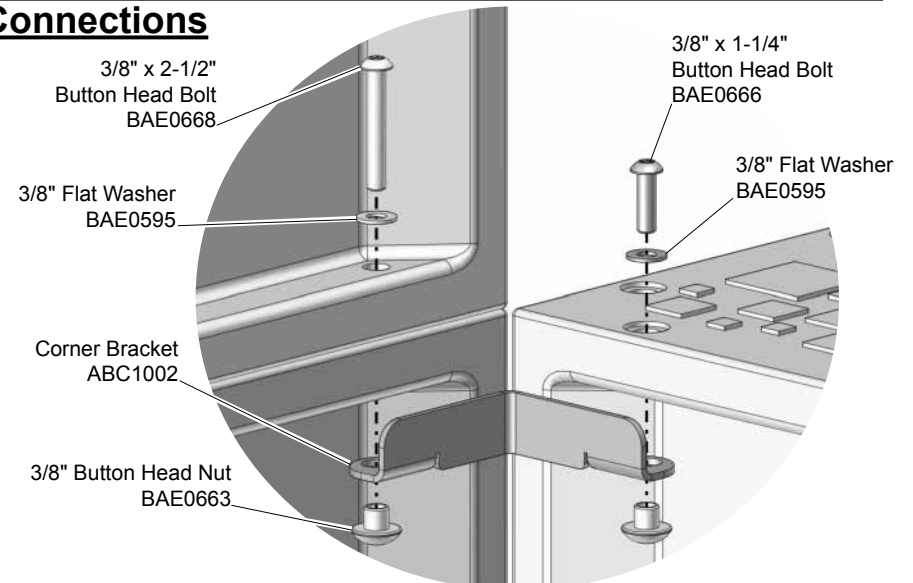
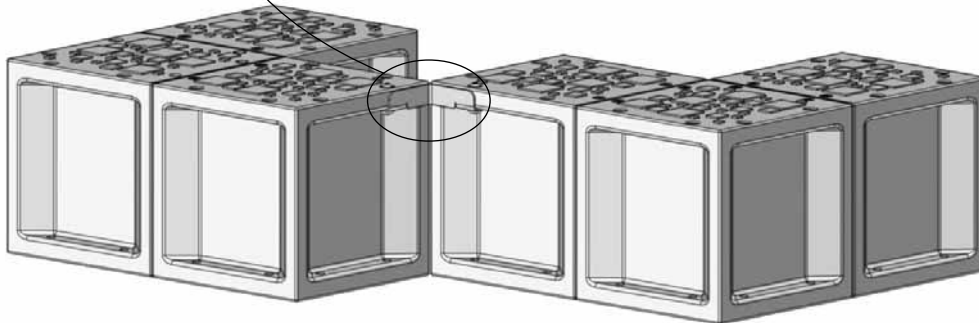
Common QuBits™ Connections



Connection F

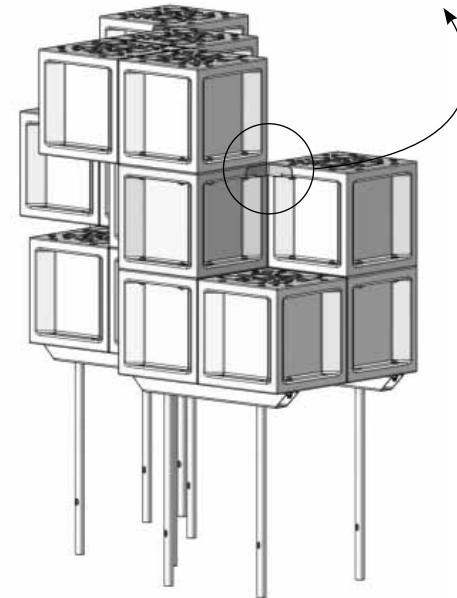
Attach the corners of the cubes using the corner bracket.

Note: The corner to corner bracket should be used to attach cubes in the same layer that are facing corner to corner **at the highest exposed level!**



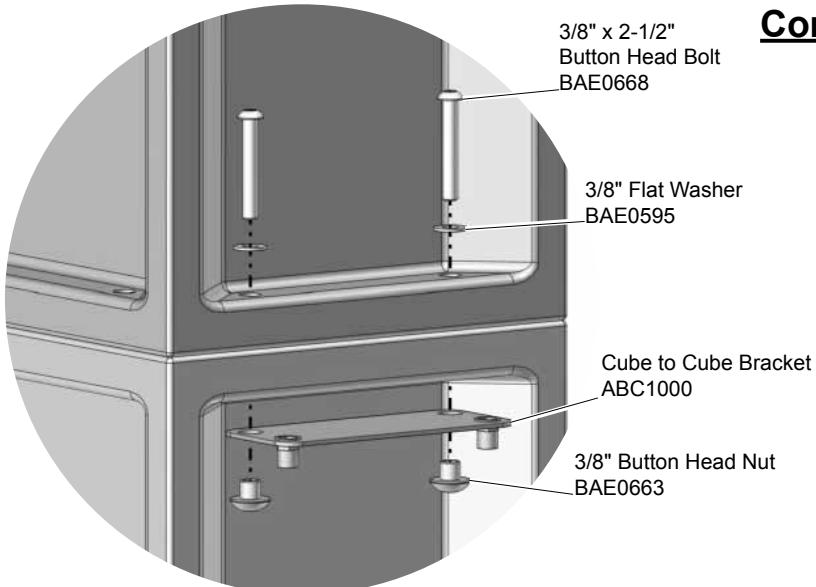
Connection G

Attach the corners of the cubes using the corner bracket. Use this connection if there is another cube to be attached on top.



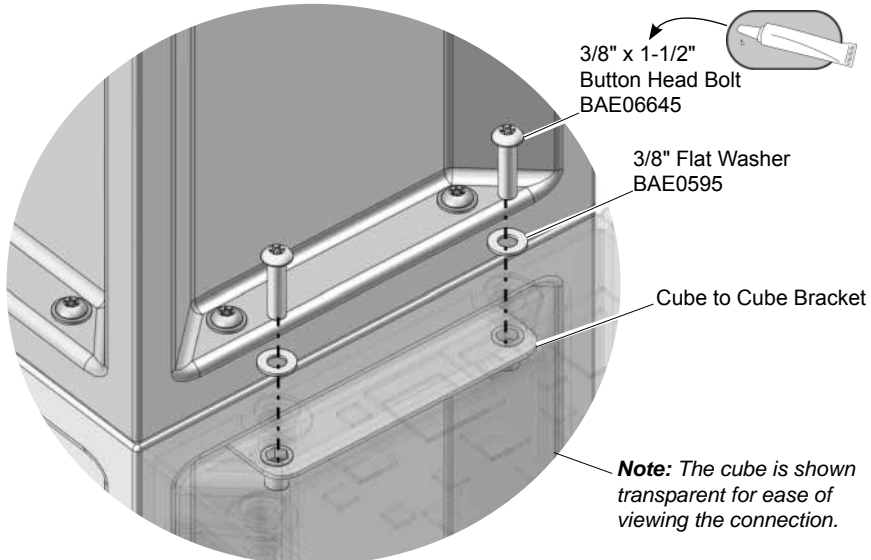
Installation Instructions

Common QuBits™ Connections



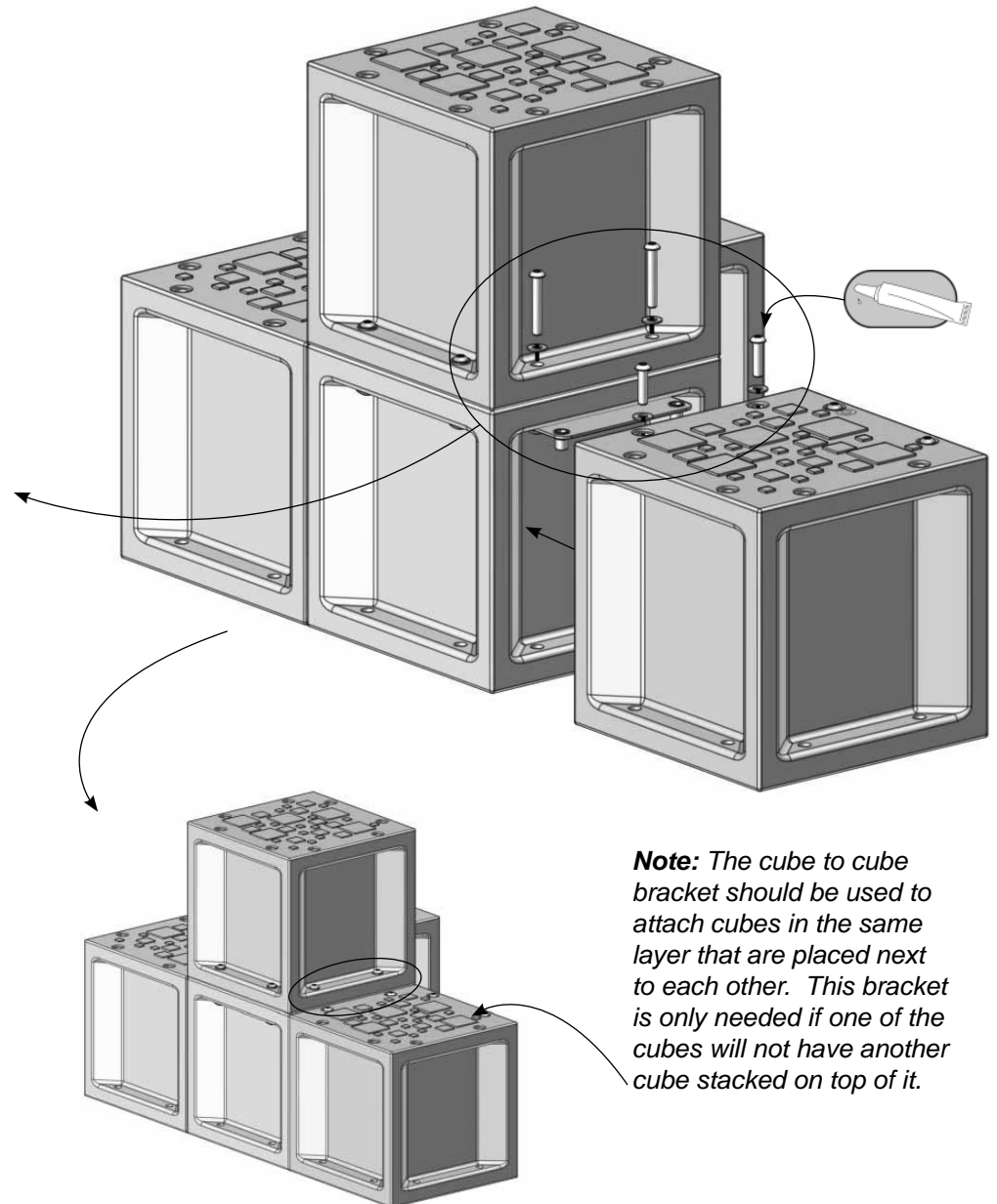
Connection H-1

Attach the cube to cube bracket to the underside of the cube.



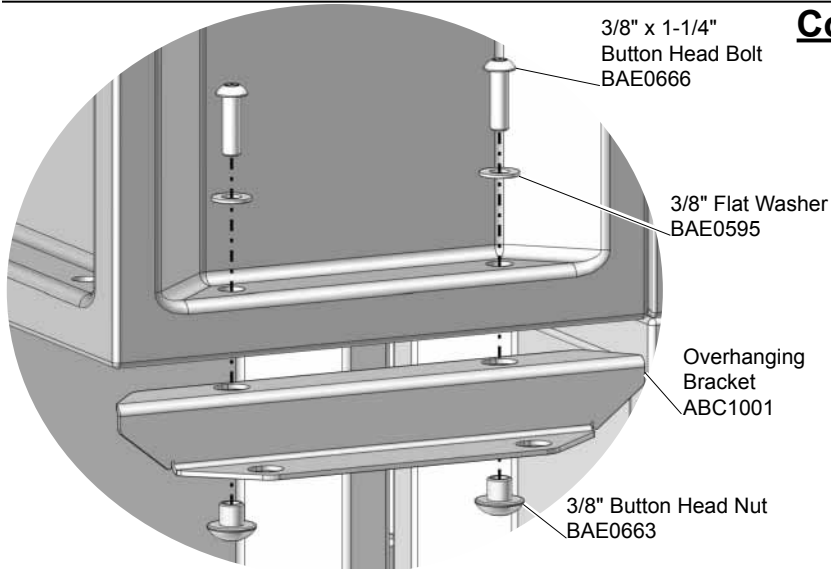
Connection H-2

Place another cube over the bracket and attach as shown.



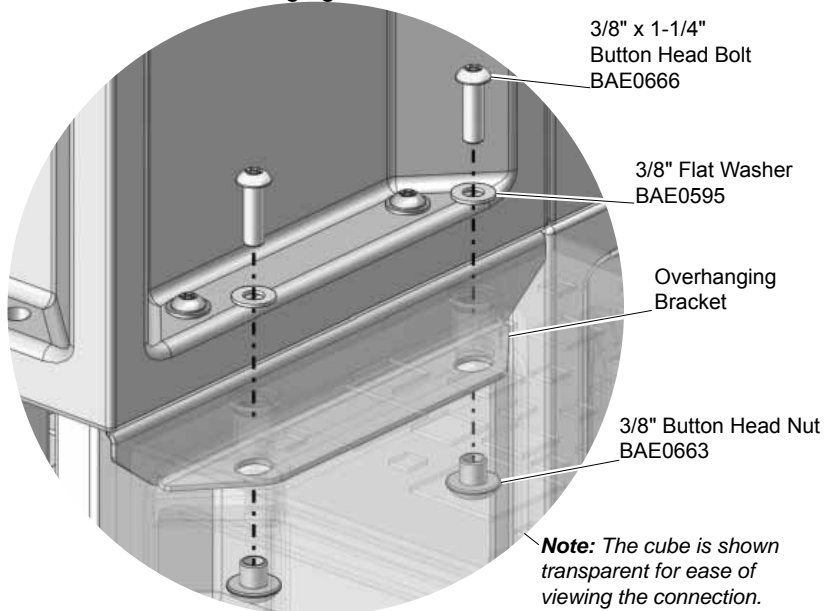
Installation Instructions

Common QuBits™ Connections



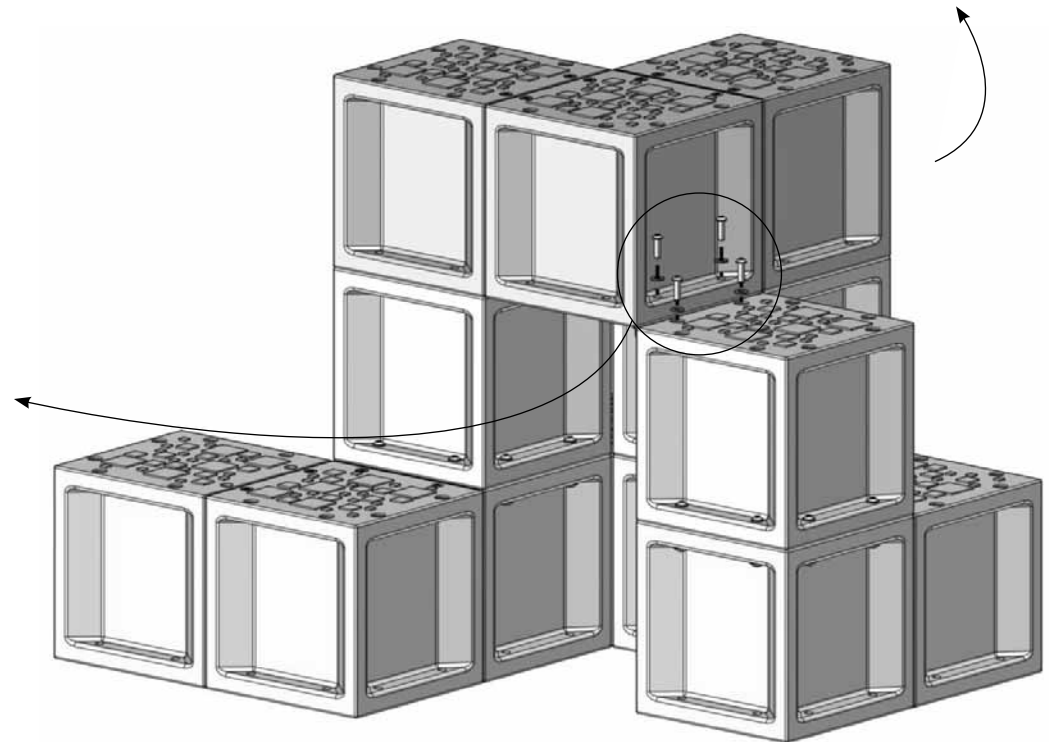
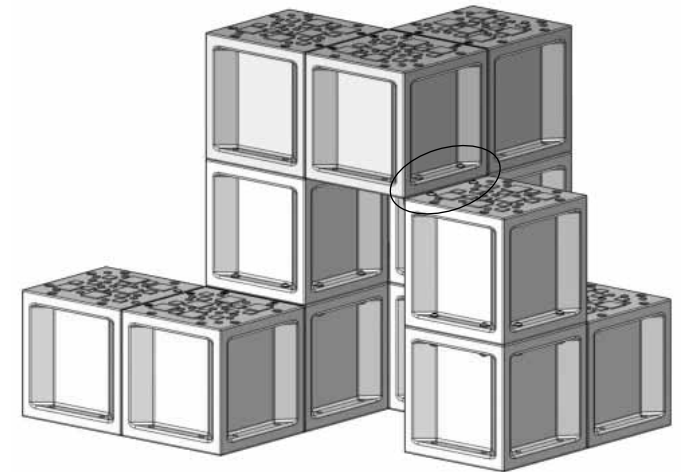
Connection I-1

Attach the overhanging bracket to the underside of the cube.



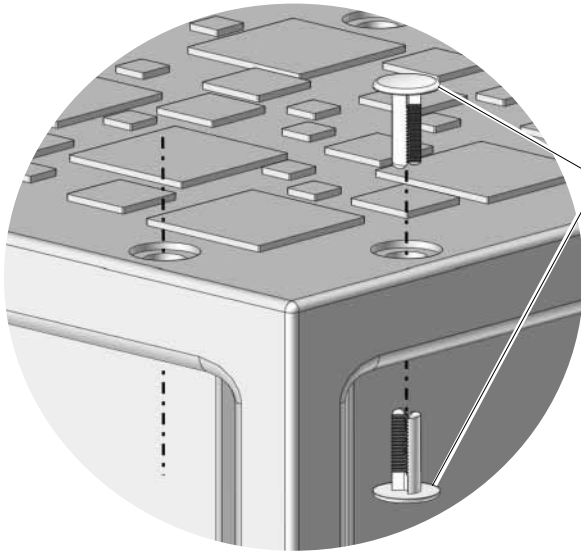
Connection I-2

Place another cube over the bracket and attach as shown.



Installation Instructions

Common QuBits™ Connections

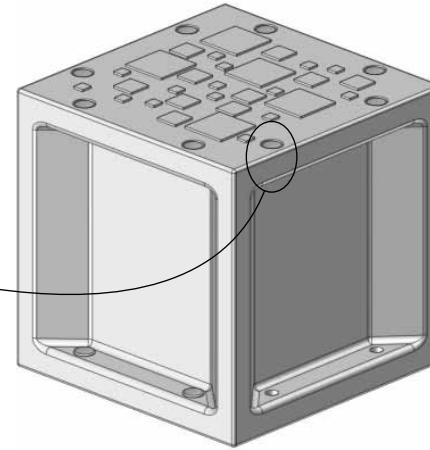


Ratchet Rivet
BPL3193

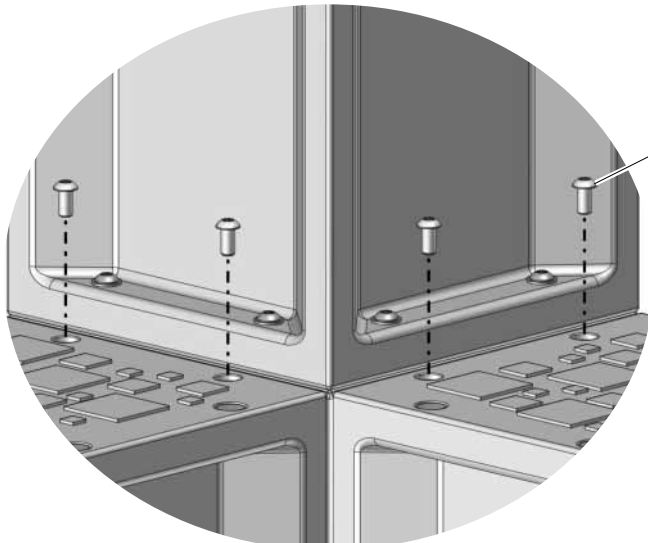
Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Connection J

Plug empty holes on cubes.



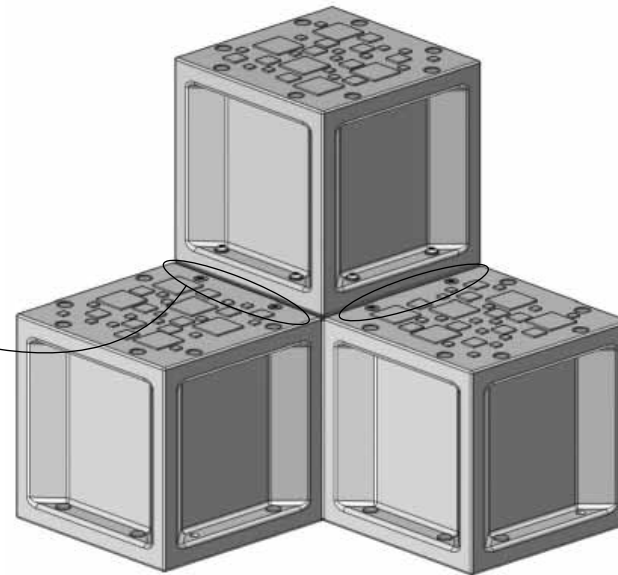
The ratchet rivets are used to fill any empty hole (around the outside of the cube) when done assembling the cubes. Place a rivet on the top and bottom of each empty hole and press together until flush with the cube.



3/8" x 3/4"
Button Head Bolt
BAE0659

Connection K

Fill inserts on top of cubes.

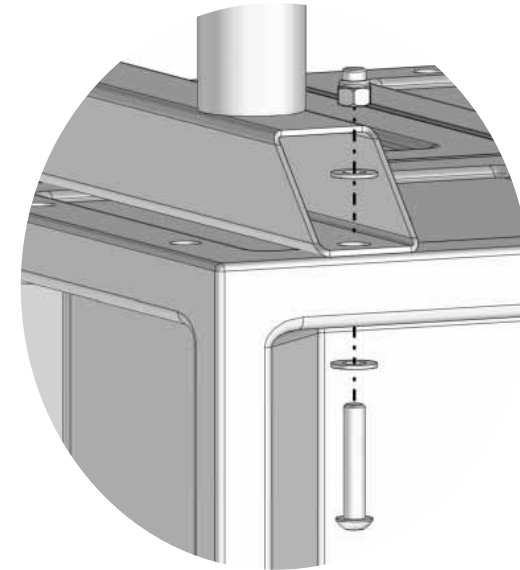
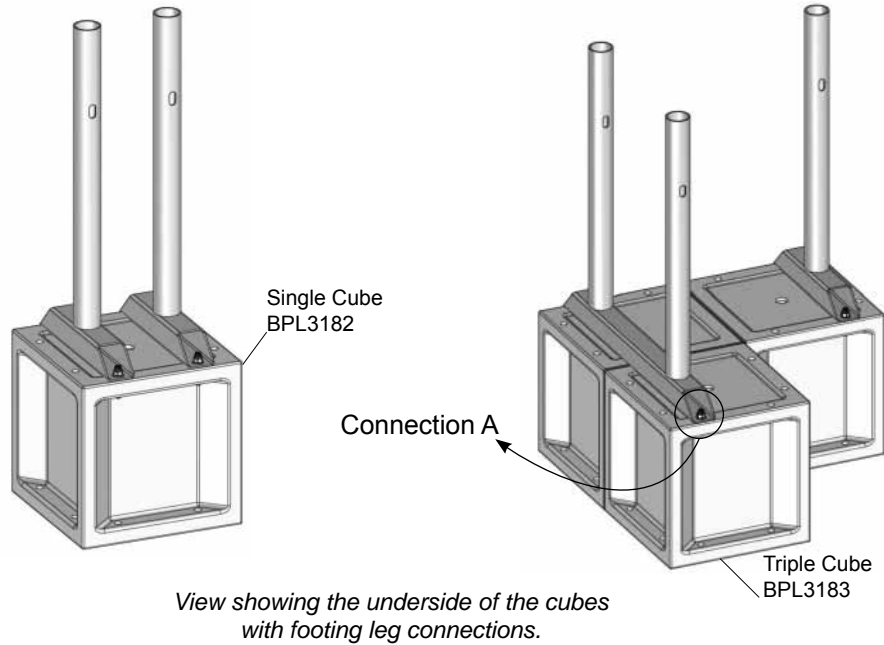


Fill any empty inserts on the top of the Triple Cubes when done assembling the cubes. The inserts are located around the inside of the Triple Cubes.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 17.

Important Note: Reference the Master Drawing for the layout / configuration of the cubes.

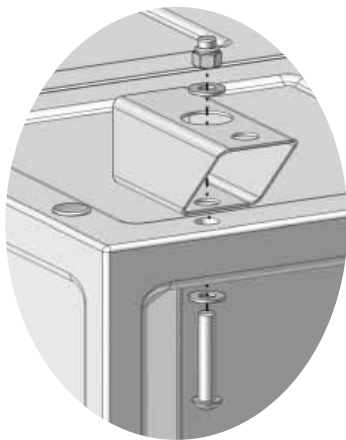
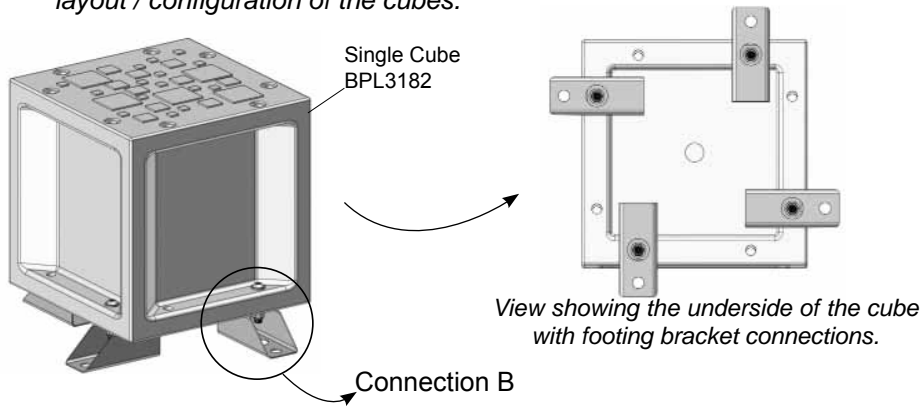


Step 4
(In-ground Mount Only)
Attach the footing legs to the bottom of the cubes.

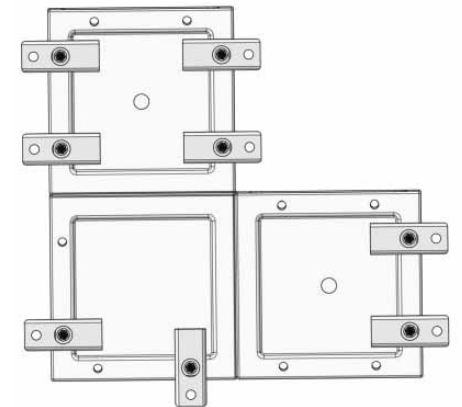
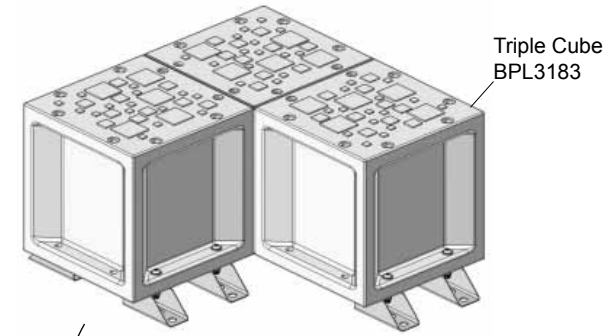


Installation Instructions

Important Note: Reference the Master Drawing for the layout / configuration of the cubes.



Connection B



View showing the underside of the cube with footing bracket connections.

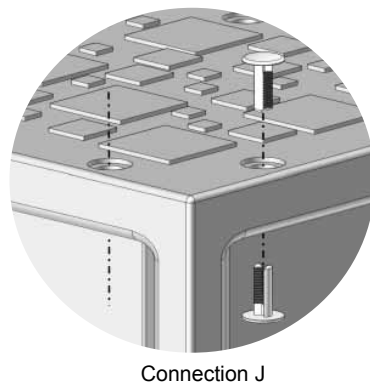
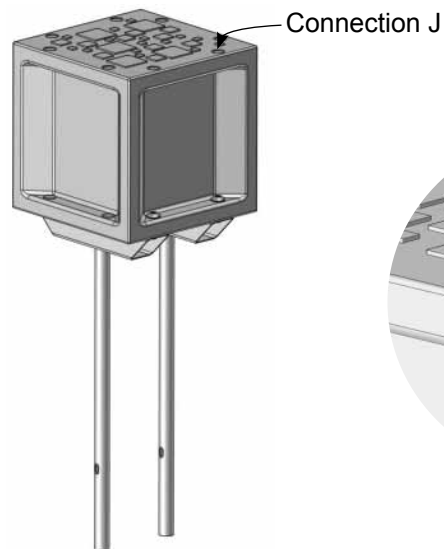
Step 5 (Surface Mount Only)



Attach the footing brackets to the bottom of the cubes.

Note: There may be a surface mount bracket in the middle of the QuBits configuration that is not required to be anchored to the concrete base. It must be installed to support the cubes.

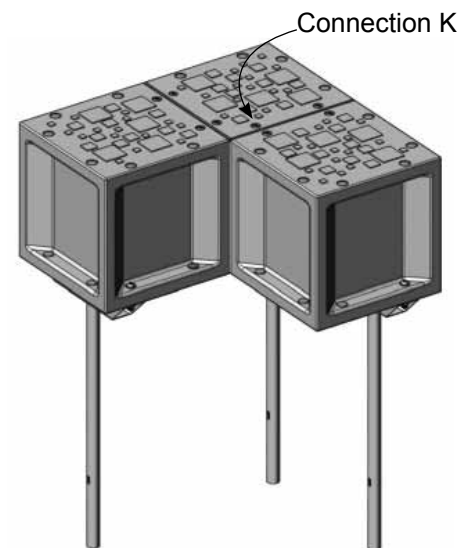
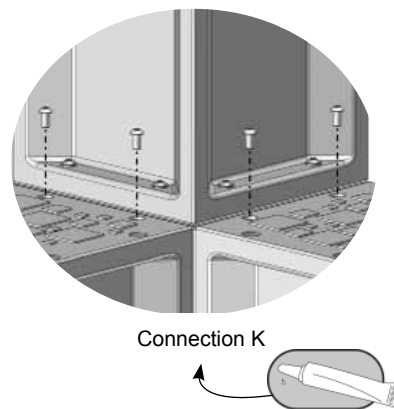
Installation Instructions



Note: If there is some movement on the ratchet rivets after pressing together, use a soft jaw clamp on the ratchet rivets to fully press together until flush with the cube and there is no movement.

Step 6

Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes.



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate or prepare footings as shown in the **Component Footing Detail or Surface Mount Footing Detail** in the Annex at the end of this document.

Step 4 (In-ground Mount Only): Attach the footing legs to the 1st layer of cubes. See **Page 14, Connection A**. Turn the cubes upside down, position the footing legs on the cubes, align the holes, and attach as shown. Refer to **Page 14** for the placement of the footing legs.

Step 5 (Surface Mount Only): Attach the footing brackets to the 1st layer of cubes. See **Page 15 / Connection B**. Turn the cubes upside down, position the brackets on the cubes, aligning the holes. The angled edges of the surface mount brackets should be pointing to the outside. Attach as shown. See **Page 15** for placement of the footing brackets.

Step 6: Plug all empty holes around the outside of the cubes and fill all empty inserts on the top of the triple cubes. See **Page 16**. To fill the empty holes on the outside rim of the cubes, place a ratchet rivet in the top and bottom of the hole and press together until flush with the cube (See **Connection J**). To fill the empty holes on the inside holes on the tops of the Triple Cubes, apply thread locking adhesive to the bolt threads, and insert the bolts in the holes as shown (See **Connection K**).

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 8 (In-ground Mount Only): Plumb and level entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 9 (Surface Mount Only): Plumb and level entire component. Fully tighten all fasteners according to tightening torque specifications. Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.

Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

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intentionally left blank.



ZZUN7097 - QUBITS LAYOUT #1

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3182	SINGLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	24

ZZUN7097S - QUBITS LAYOUT #1 SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3182	SINGLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	24

ZZUN7099 - QUBITS LAYOUT #3

PART NO.	DESCRIPTION	QTY.
AFR1902	FOOTING - SINGLE CUBE	1
AFR1903	FOOTING - DOUBLE CUBE	1
BAE0595	WASHER - 3/8" SAE FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	4
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	56

ZZUN7099S - QUBITS LAYOUT #3 SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AFM7284	FAB METAL - 5.00" x 2.00" x 2.00"	8
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	8
BAE0922	TOOL - TT 45 L WRENCH	2
BAE06673	BOLT - 3/8"-16 x 2.00" BUTTON HEAD - S.S.	8
BPL3183	TRIPLE CUBE	1
BPL3193	RIVET - RATCHET - .88" O.D. x 1.17"	48

ZZUN7089 - QUBITS BADGE

PART NO.	DESCRIPTION	QTY.
AAU0901	QUBITS BRANDING CASTING	3

ZZUN7118 - QUBITS CORNER TO CORNER BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1002	PLATE - 5.00" x 5.00" x .88"	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	2

ZZUN7119 - QUBITS PLANE TO PLANE BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1000	PLATE - 7.00" x 2.88" x 12 GA	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	2
BAE0668	BOLT - 3/8"-16 x 2.50" BUTTON HEAD - S.S.	2
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - S.S.	2

ZZUN7126 - QUBITS OVERHANGING BRACKET

PART NO.	DESCRIPTION	QTY.
ABC1001	PLATE - 11.75" x 2.69" x 1.50"	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S	4

 **PLAYWORLD**
The world needs play.[®]

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800-233-8404 or
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www.playworldsystems.com

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

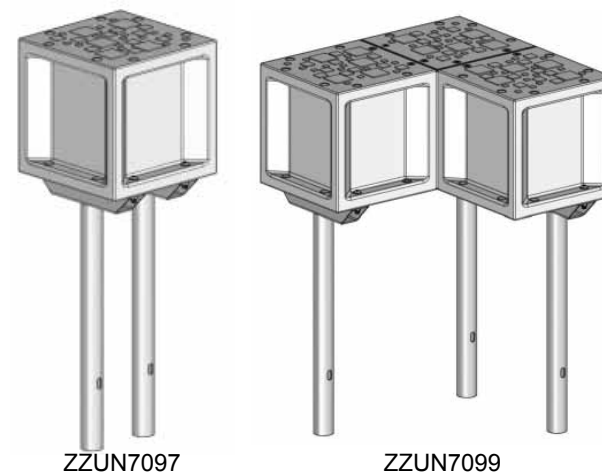
Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Universal Models ZZUN7097,
ZZUN7097S, ZZUN7099,
ZZUN7099S, ZZUN7089,
ZZUN7118, ZZUN7119 and
ZZUN7126

QuBits™ Layout #1 and #3
In-Ground and Surface Mount



ZZUN7097

ZZUN7099

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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 72 inches (1829 mm) from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 30 inches (762 mm) above the protective surfacing level. They should be a minimum of 72 inches (1829 mm) apart. If the adjacent designated play surfaces are greater than 30 inches (762 mm) above the protective surfacing level, the pieces of equipment should be a minimum of 108 inches (2743 mm) apart.
- **CSA compliance:** The overall use zone measurements for stationary play equipment should extend a minimum of 1800 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. The use zone of stationary play equipment may be overlapped by the use zone of adjacent stationary play equipment if the adjacent designated play surfaces are no greater than 700 mm above the protective surfacing level. They should be a minimum of 1800 mm apart.

- **EN compliance:** The overall use zone measurements for stationary play equipment are dependent upon the fall height of the equipment. For a fall height exceeding 1500 mm a formula is applied to determine the use zone (impact zone) of the equipment. There is a minimum of 1500 mm from its perimeter; dimensions and configuration of the use zone are dependent upon the types of included play equipment. Refer to the Use Zone diagram or master structure drawing.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

Guidelines

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Critical fall heights for Europe and Canadian compliance shall be listed on the elevation page or master structure drawing if they differ from the ASTM standard. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

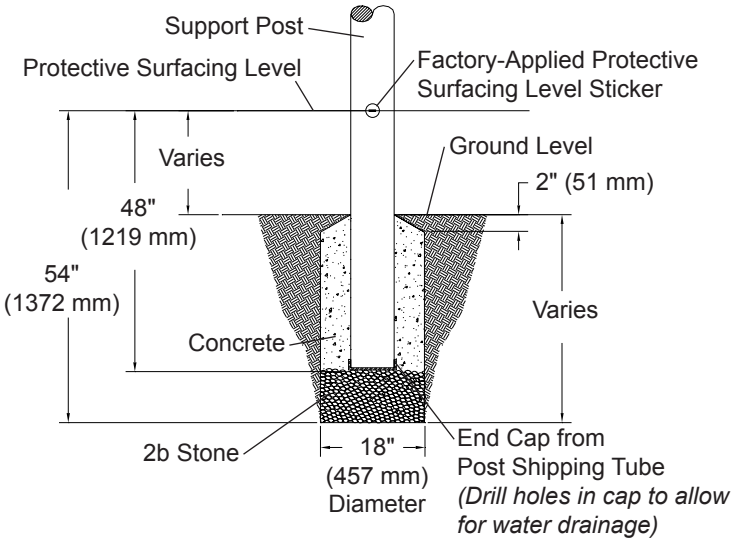
- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must to be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

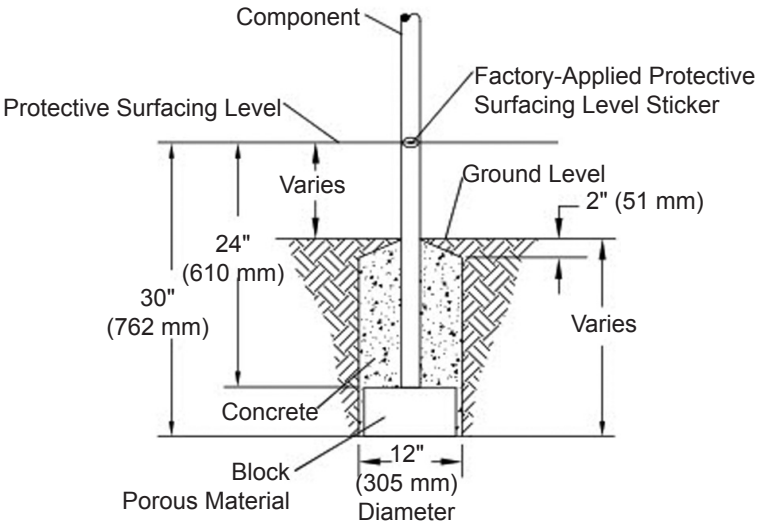


Footings Notes (in ground)

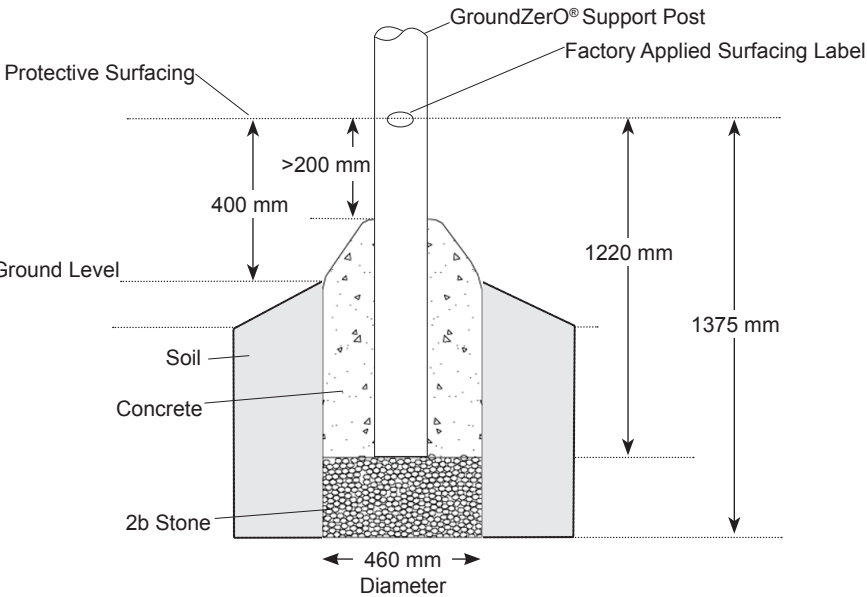


GroundZero® Support Post Footing Detail ASTM/CSA

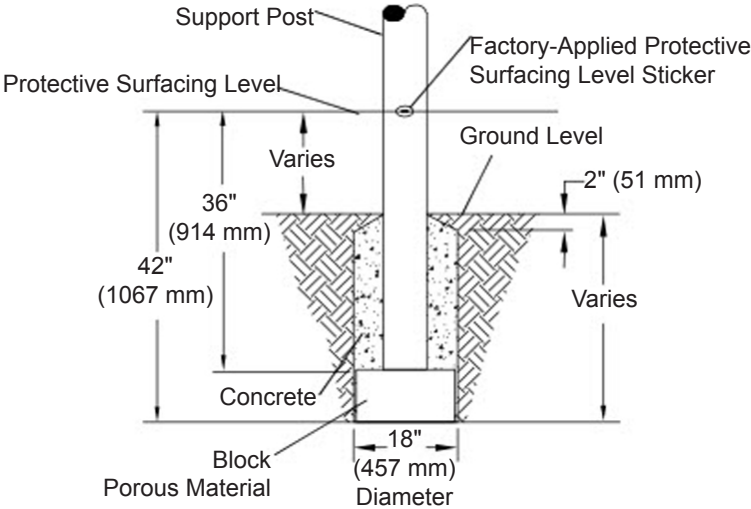
IN GROUND FOOTING DIAGRAMS-BLOCK OPTION



Component Footing Detail (ASTM/CSA)
Block Option



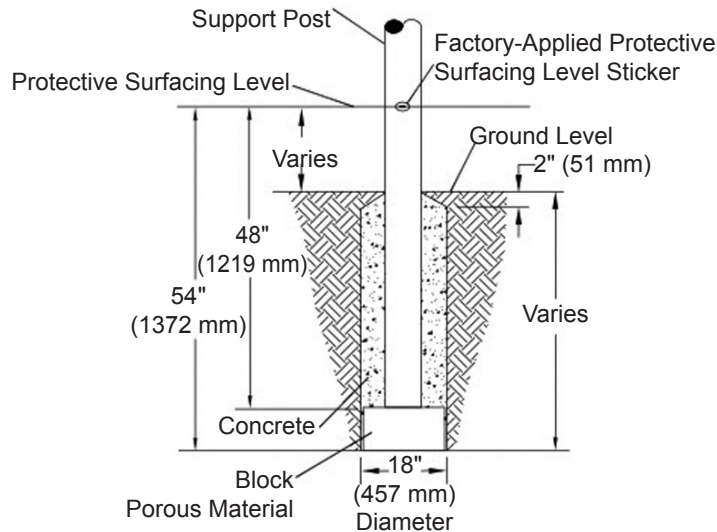
Footing Detail GroundZero® Support Post (EN)



Support Post Footing Detail (ASTM/CSA)
Block Option

Footings Notes & Details (in ground)

IN GROUND FOOTING DIAGRAMS-BLOCK OPTION

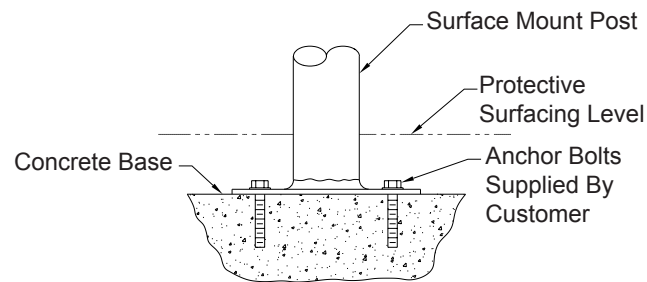


GroundZero® Support Post Footing Detail ASTM/CSA
Block Option

FOOTING NOTES (IN GROUND)

- Support post footing depth equals 42 in. (1067 mm) minus the depth of the protective surfacing material. The posts are designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
GroundZero® posts are footed 12 in. (305 mm) deeper than the regular support posts, and will be marked as such on the master footing diagram.
- Component footing depth equals 30 in. (762 mm) minus the depth of the protective surfacing material. The posts are designed to have 12" (305 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 18 in. (457 mm).
- Most support posts and component support legs will have either a factory-applied sticker with a line, or factory-applied mark designating the level of protective surfacing on a clear and level installation site. The footing depth measurements are based on this line/mark.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase the bottom of the support post in concrete. Place the post directly on packed stone or other porous material.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- The base of the footing must be below the frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Footing Notes & Details (surface mount)



Surface Mount Footing Detail

FOOTING NOTES (SURFACE MOUNT)

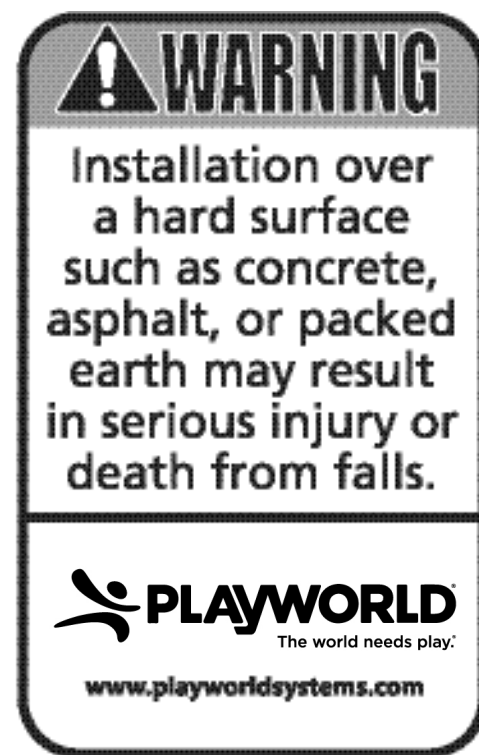
- Most support posts and component support legs will have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If the play equipment is installed on uneven terrain, maintain support post mark for the protective surfacing level at the lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- The footing size may vary due to local soil and weather conditions.
- Base of footing must be below frost line.

Surface mount hardware is not supplied. Customer is responsible for concrete base and providing surface mount hardware as specified by a registered structural engineer for each specific project application.

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label



Assembly View (representative model)

Installation Instructions




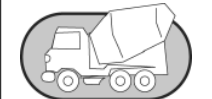
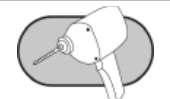

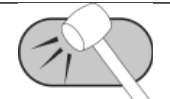
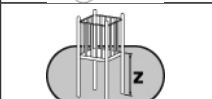
Playmakers® Models PM7080 and PM6890

6 ft. (1829 mm) and 10 ft. (3048 mm)
Catwalk

Installation Preparation

Recommended Crew: Four (4) adults
 Installation Time: 4 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

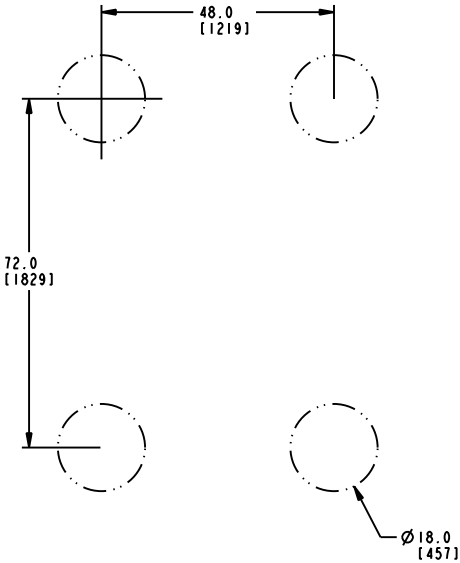
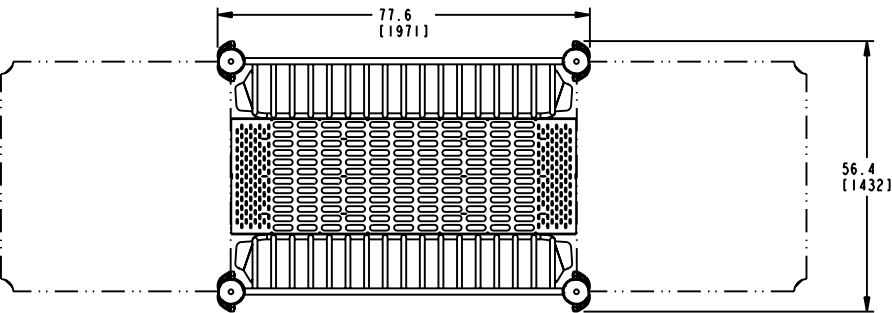
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

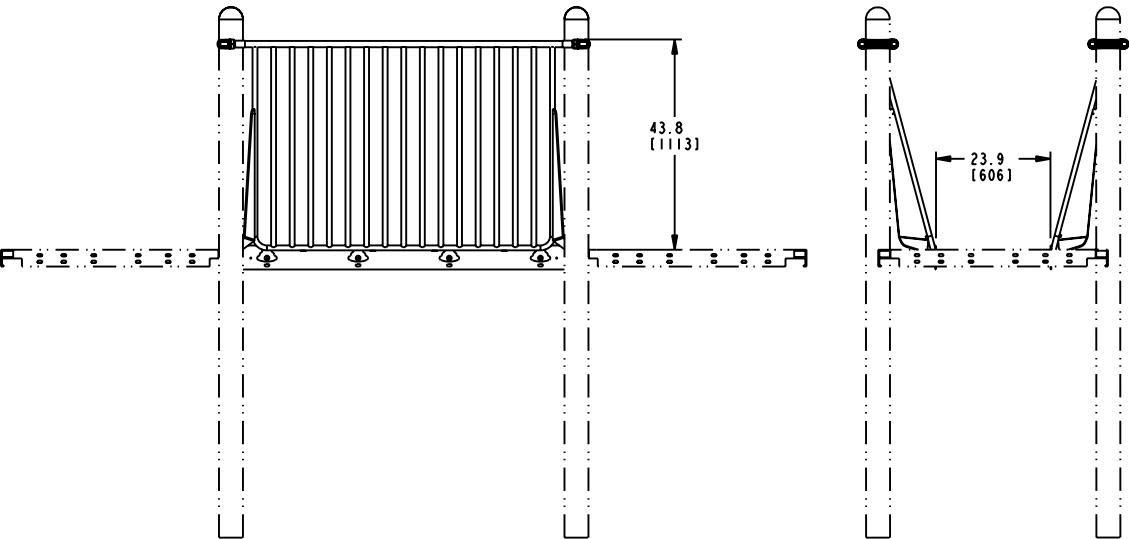
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

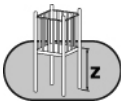
Top View



Footing Diagram



Elevation View
PM7080



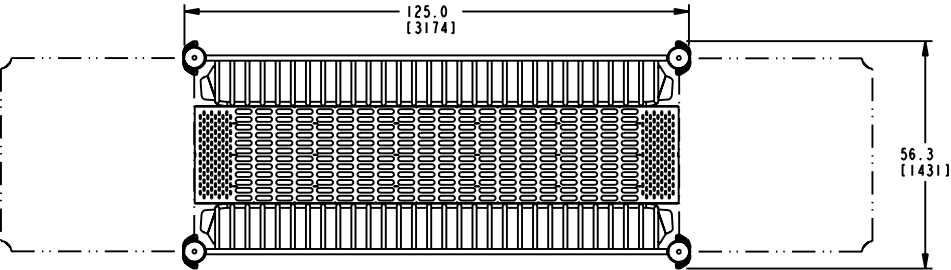
Equal to the height of the deck.



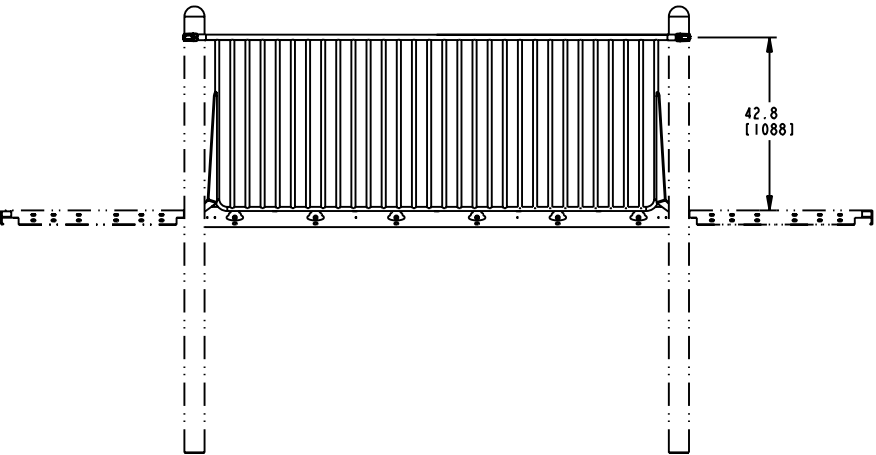
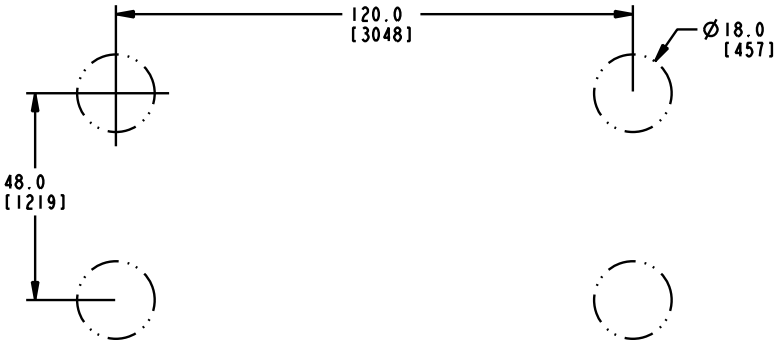
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

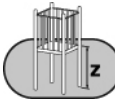
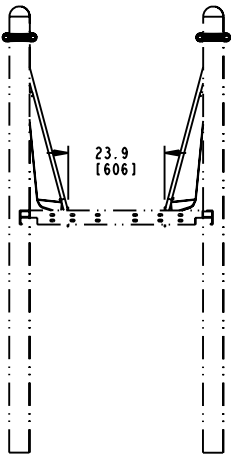
Top View



Footing Diagram



Elevation View
PM6890

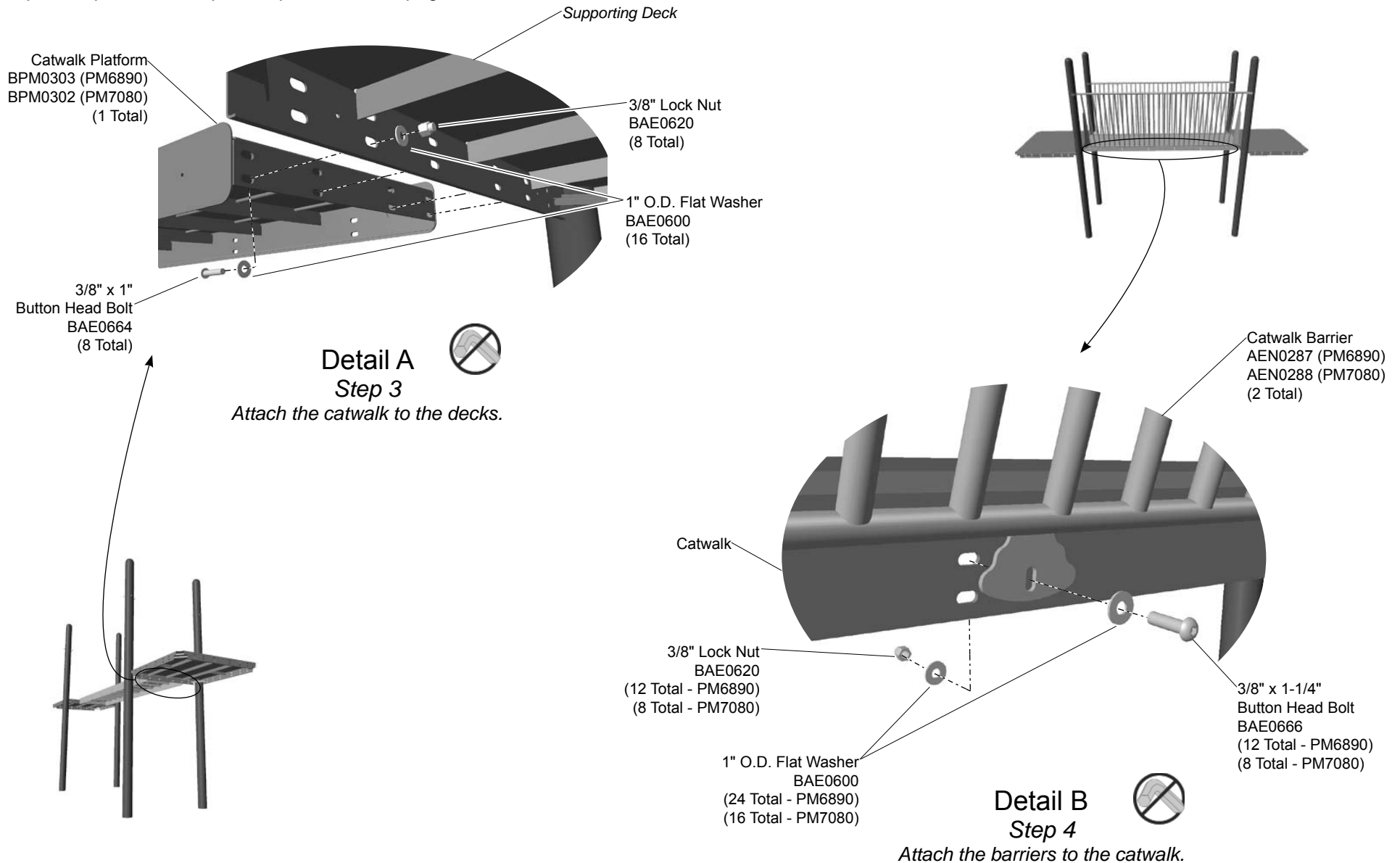


Equal to the height of the deck.

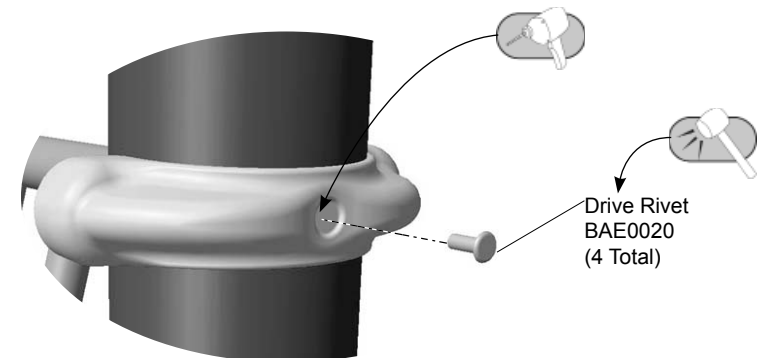
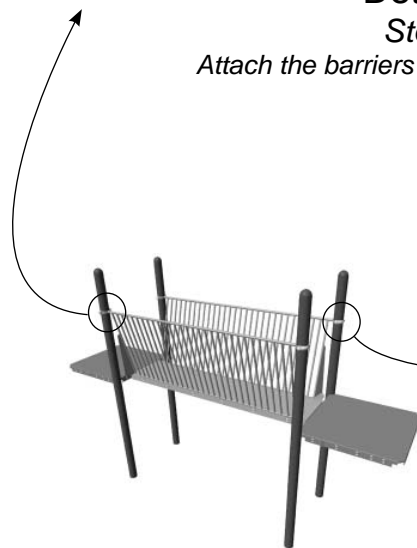
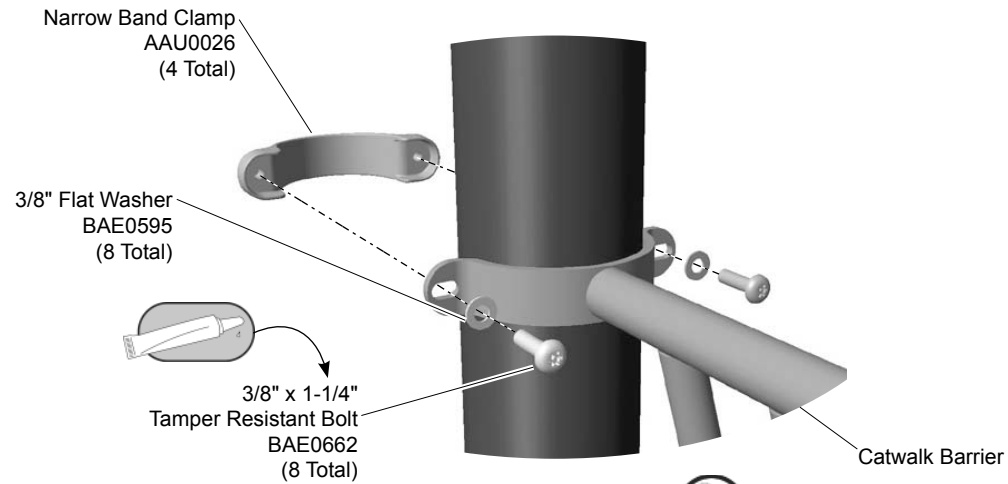


Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Attach the catwalk to the decks.

Step 3: Attach the catwalk to the decks. See **Detail A**. Using adequate manpower, position the catwalk between the decks and attach as shown.

Attach the barriers to the catwalk.

Important Note: There are upper holes (preferred) and lower holes along the side of the catwalk for barrier attachment. Choose the hole set that will avoid adjacent clamp interference. Both barriers should be mounted at the same height.

Step 4: Attach the barriers to the catwalk. See **Detail B**. Position each barrier against the side of the catwalk with the top rail clamp bands around the support posts and attach as shown. Leave the connections loose. The barriers should be supported until the narrow clamp bands are attached.

Attach the narrow clamp bands to the barriers.

Step 5: Attach the narrow clamp bands to the barriers. See **Detail C**. Position each narrow clamp band around a support post and aligned with a barrier top rail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Snug tighten the connections.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Make sure the top of the catwalk is flush to and level with the deck.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM7080 - 6 ft. (1829 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0288	BARRIER - 71-7/16" x 46-1/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BPM0302	PLATFORM - 71.88" x 24.21" x 5" CATWALK	1

PM6890 - 10 ft. (3048 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0287	BARRIER - 119-9/516 x 45-1/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0662	BOLT - 3/8"-16 x 1-1/4" TPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	12
BPM0303	PLATFORM - 119.88" x 24.21" x 5.00" CATWALK	1



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Assembly View

Installation Instructions





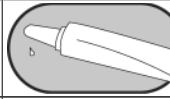


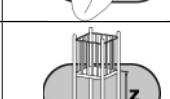
Playmakers® Model PM9858

Hex Cabana Roof

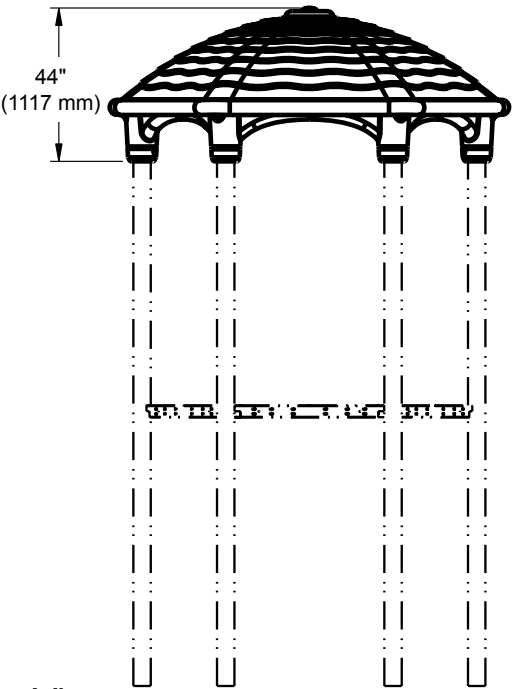
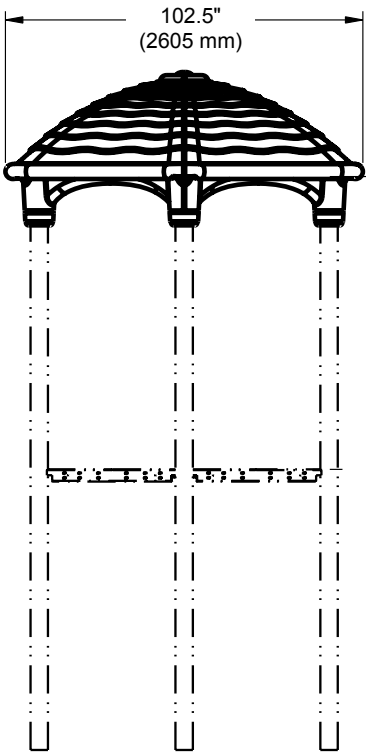
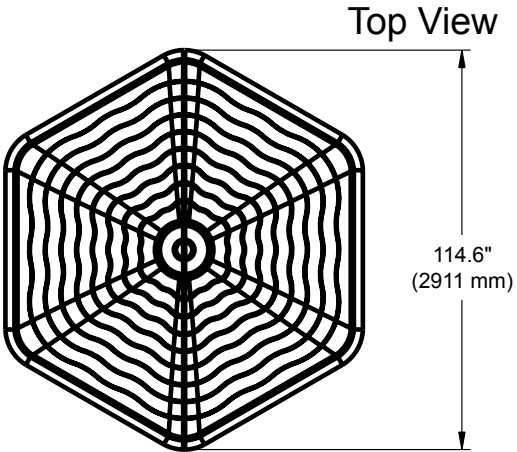
Installation Preparation

Recommended Crew: Two (2) adults

Installation Time: 1 man-hour

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

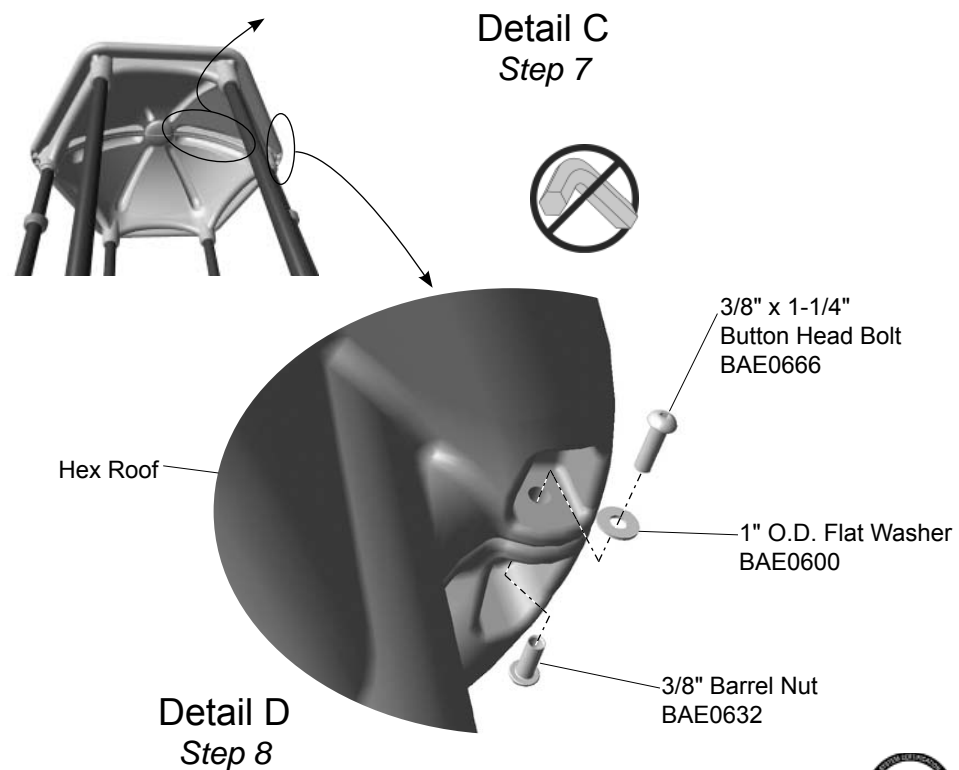
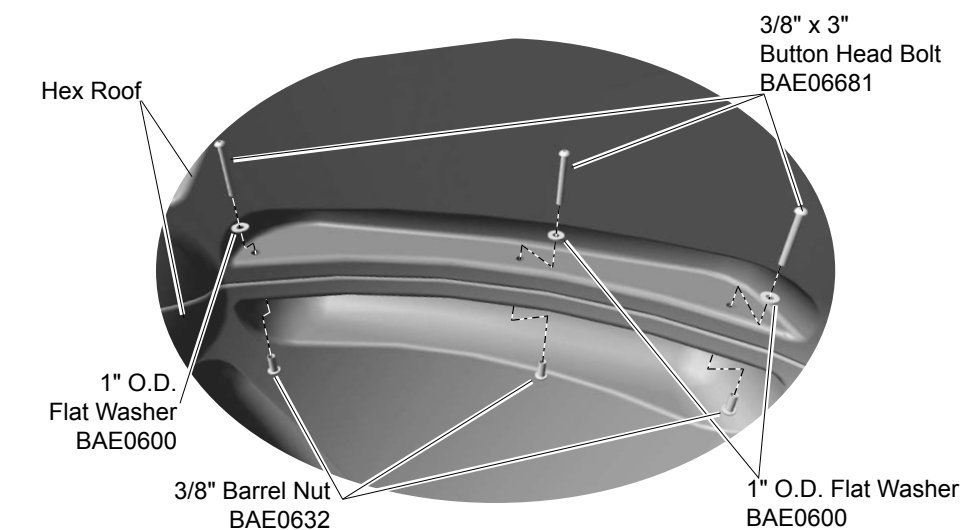
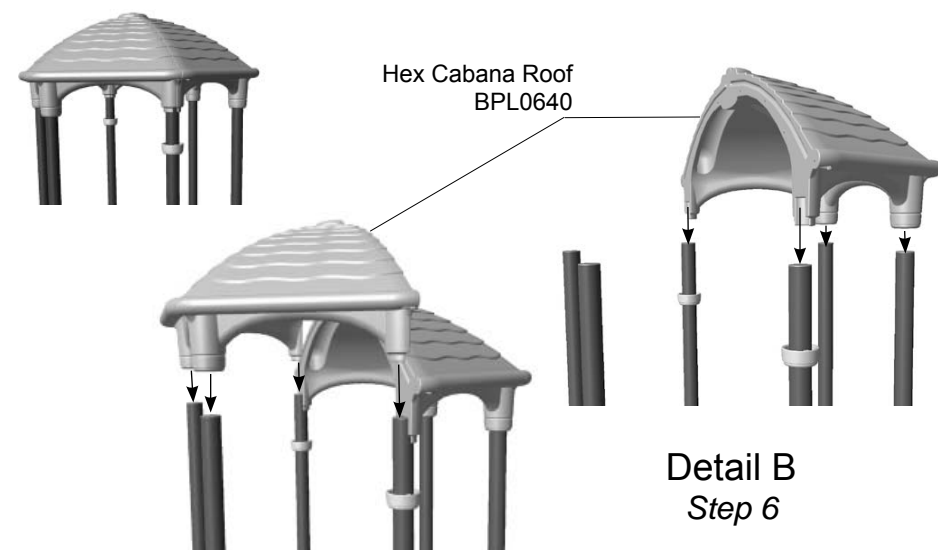
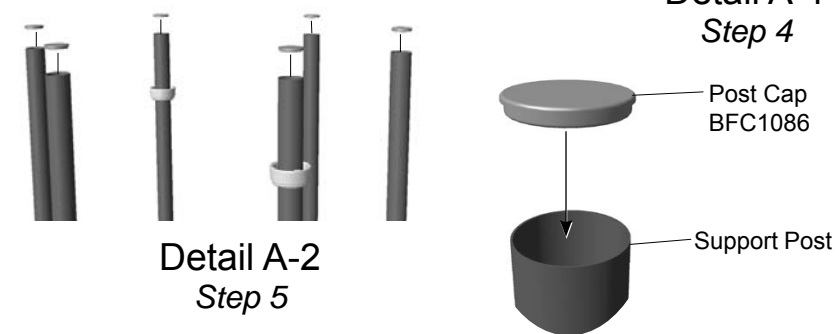
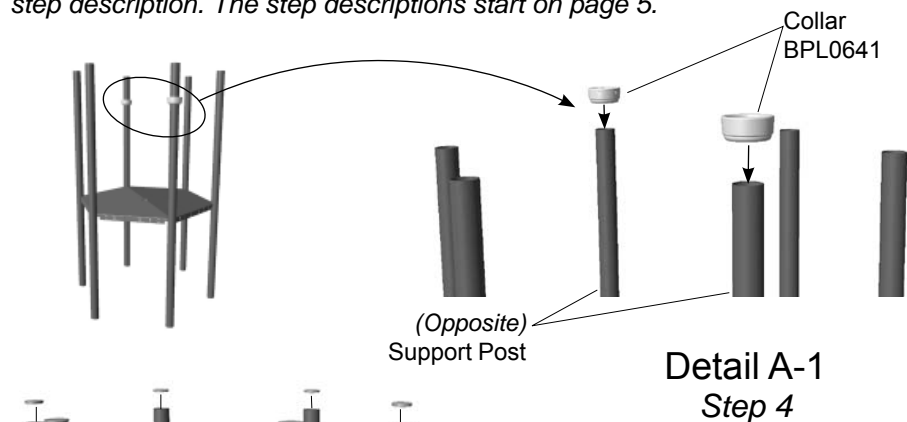
Installation Instructions



Elevation Views

Installation Instructions

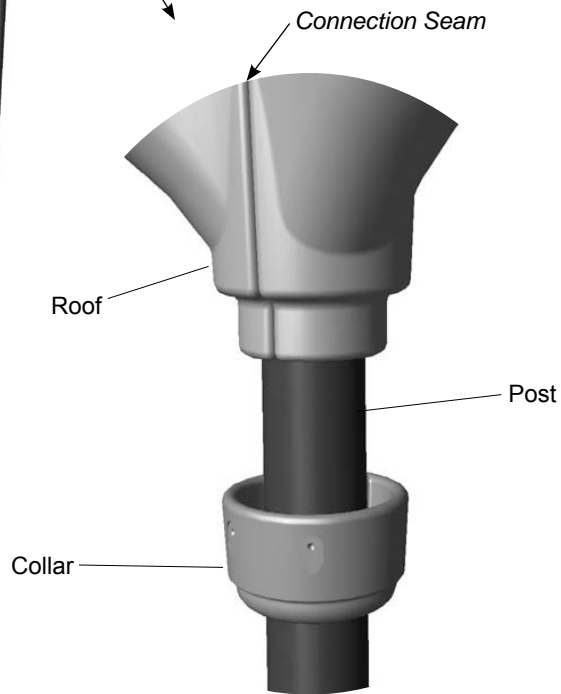
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



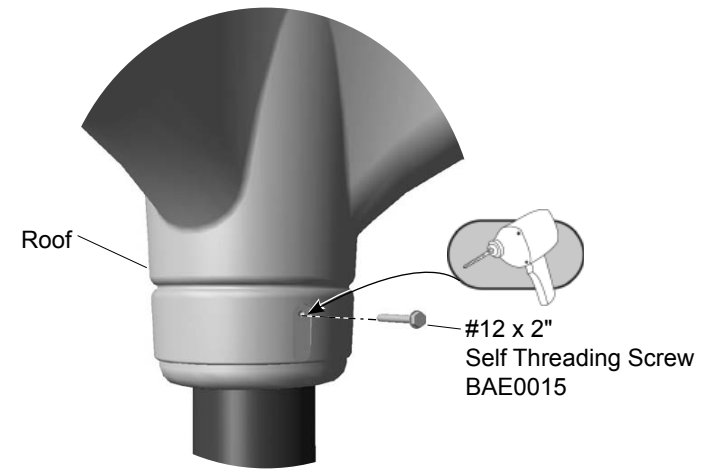
Installation Instructions



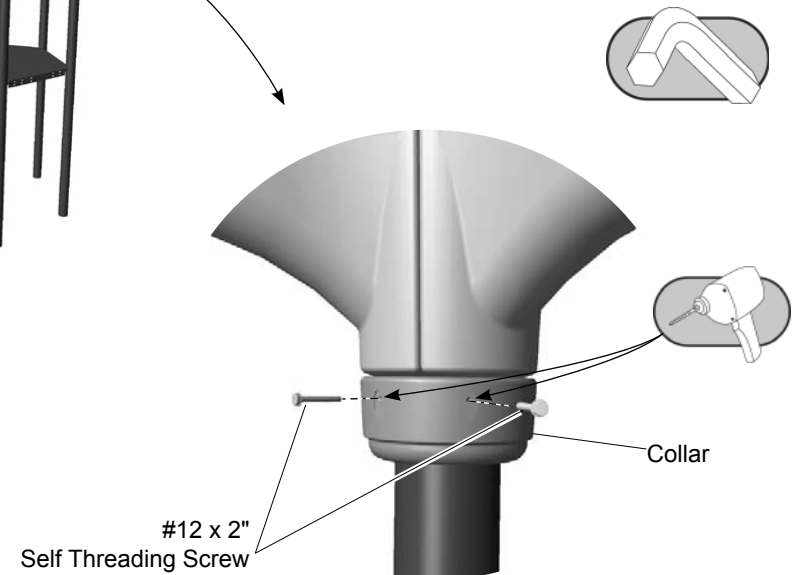
Step 9



Detail E
Step 10



Detail F-1
Step 11



Detail F-2
Step 11

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. (A pair of C-clamps or locking clamps make installation easier)

Step 3: Level the supporting deck and plumb the support posts.

Step 4: Place the collars onto opposite support posts. See **Detail A**. Select both collars, and slide them over the opposite support posts. They will serve to help lock the halves together.

Step 5: Place the post caps into the top of each post. See **Detail A-2**. Select (6) six post caps. Place them in the top of each post as shown.

Step 6: Place the roof onto the support posts. See **Detail B**. Select both halves of the hex cabana roof. Place each half onto the support posts as shown. The connection seam should be over the posts with the collars. Fully seat the roof on the posts.

Hint: Clamp the outside ends to make the hardware connections easier.

Step 7: Bolt the roof halves together. See **Detail C**. Select the appropriate hardware. There are (6) six connections across the inside of the roof. Attach as shown.

Step 8: Bolt the outside edges of the roof. See **Detail D**. Select the appropriate hardware. Unclamp the halves and make the outside connections as shown.

Final Details.

Step 9: Level the roof. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Slide collars up over the mating roof pieces. See **Detail E**. Turn the collars so that the indentations (for the screws) are facing the center of the deck, for ease of attachment.

Step 11: Screw the collars and roof to the posts. See **Details F-1 and F-2**. Drill a pilot hole using a 1/8" drill bit at each of the indentations on the collars and roof stubs. There are (2) two locations on the collars and one each on the roof stubs. Attach as shown. Fully tighten the screws.

PM9858 - HEX CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 2"	8
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/PATCH	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	2
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC1086	SHEET- 5.00" x .75" PIPE PLUG	6
BPL0640	ROOF - PM HEX CABANA	2
BPL0641	PM CABANA RING	2

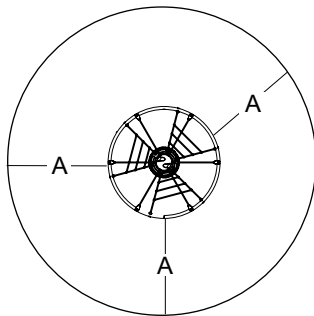


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Assembly View



Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(CSA) 1800 mm
(EN) 2000 mm

Refer to the Elevation View for the specific Critical Fall Height for the component.




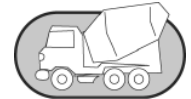



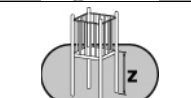
Installation Instructions

Playworld Systems® Model ZZXX0151
Spinami

Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 6 man-hours
Concrete Required: 0.33 cubic yard (0,26 cubic meters)
Use Zone:..... Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

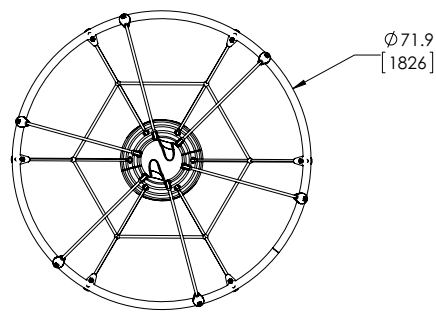
ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

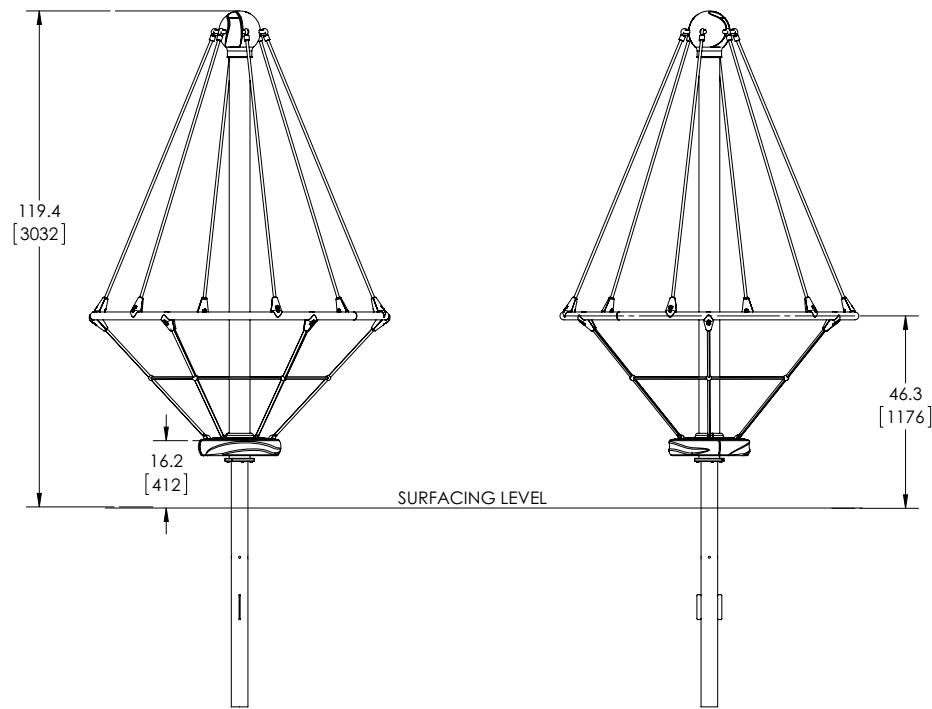
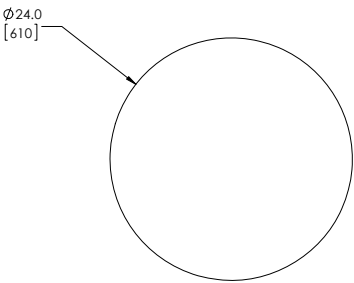
Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

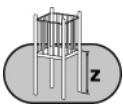
Top View



Footing Diagram



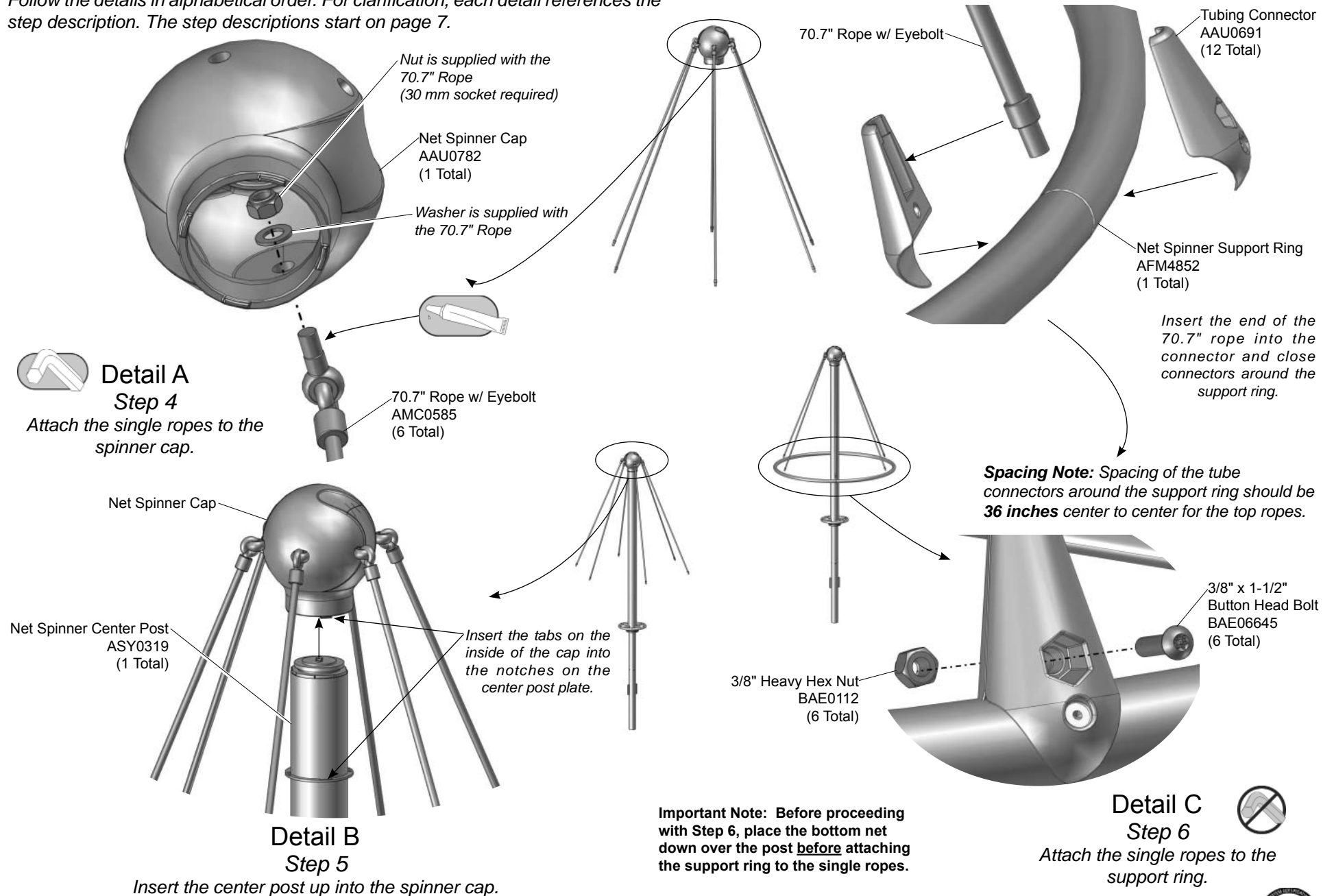
Elevation Views



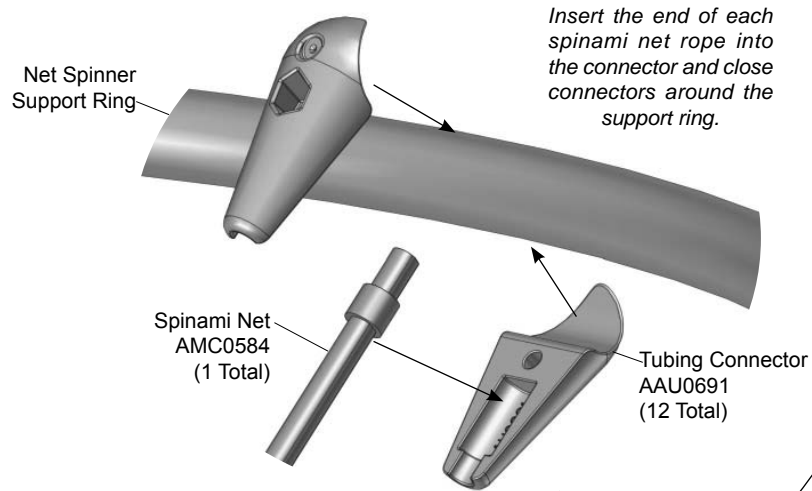
46.3" (1176 mm)

Installation Instructions

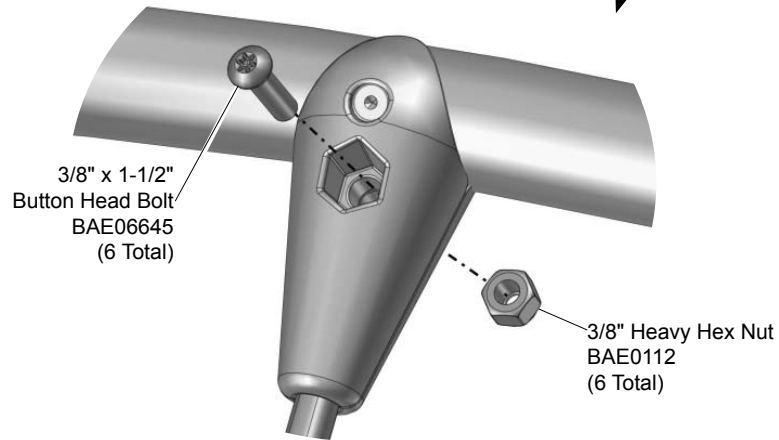
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Installation Instructions



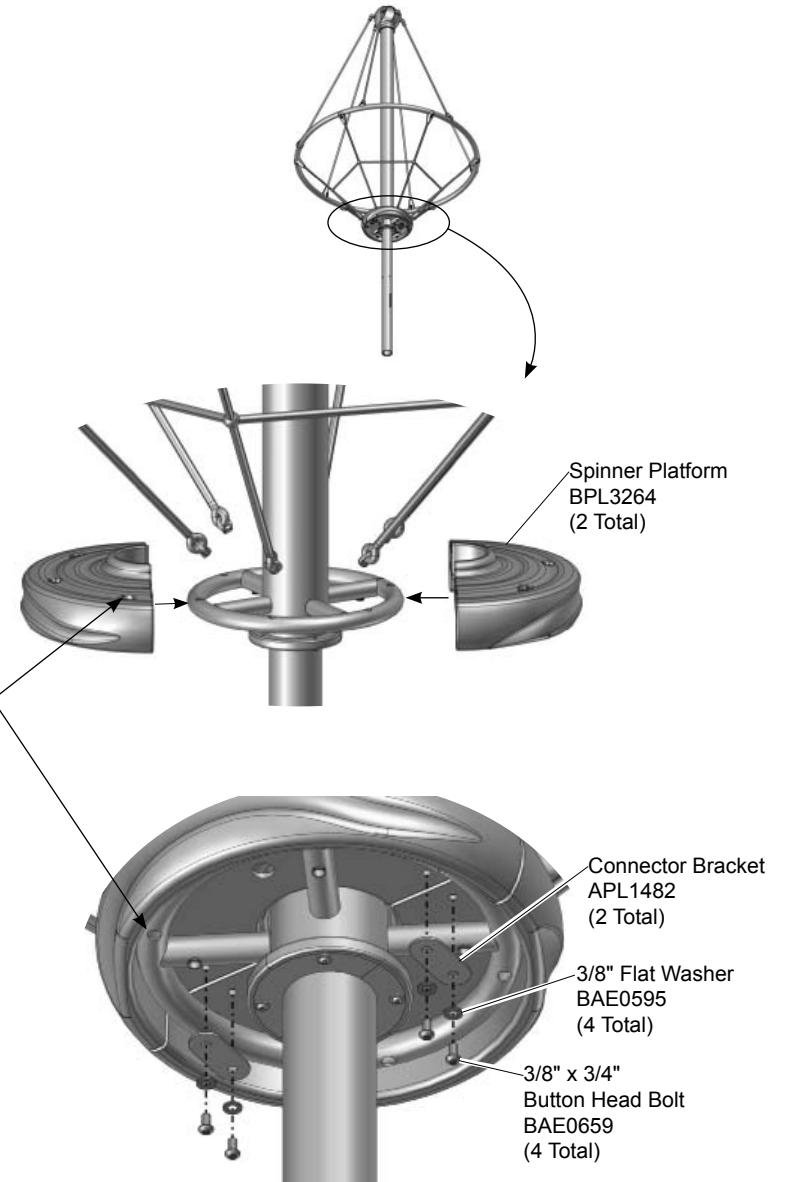
Spacing Note: Spacing of the tube connectors around the support ring should be **35.5 inches** center to center for the bottom net.



Detail D
Step 7

Attach the spinner nets to the support ring.

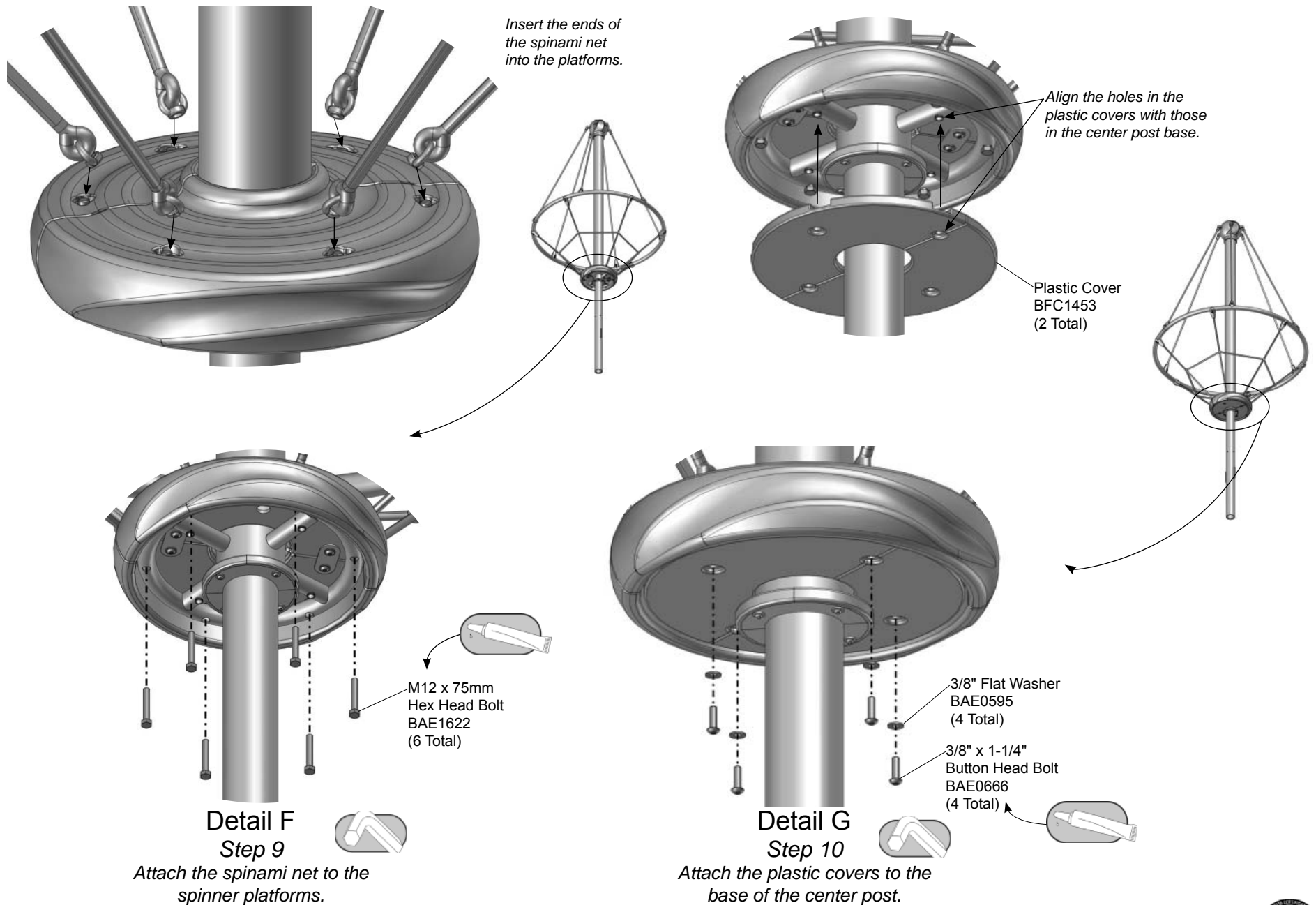
Align the holes in the platform with those in the center post base.



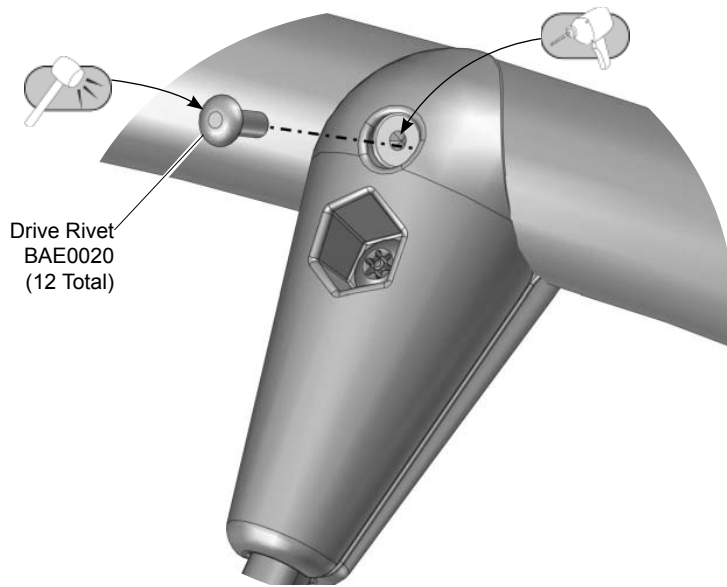
Detail E
Step 8

Attach the spinner platforms to the center post.

Installation Instructions



Installation Instructions



Drive Rivet
BAE0020
(12 Total)

Detail H Step 12

*Secure the connectors to the
support ring.*

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise specified.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Support Post Footing Detail** on the [next page](#). Place the spinner post in the footing and block and brace in place.

Step 4: Attach the single ropes to the spinner cap. See **Detail A**. Insert the eyebolt on the end of each rope into the spinner cap, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections.

Step 5: Insert the center post up into the spinner cap. See **Detail B**. Insert the post up into the cap making sure to insert the tabs on the inside of the cap into the notches on the center post plate.

Important Note: Before proceeding with the next step, place the bottom net down over the post before attaching the support ring to the ropes.

Step 6: Attach the ropes to the support ring. See **Detail C**. Place the open end of each rope into a connector, close the connectors around the support ring, and attach as shown.

Note: Spacing of the connectors around the support ring should be **36 inches** center to center for the top ropes.

Step 7: Attach the spinami net to the support ring. See **Detail D**. Place the open end of each net strand into a connector, close the connectors around the support ring, and attach as shown.

Note: Spacing of the connectors around the support ring should be **35.5 inches** center to center for the net.

Step 8: Attach the spinner platforms to the base of the center post. See **Detail E**. Position the platforms onto the base of the post, align the holes, and attach as shown. Fully tighten the connections.

Step 9: Attach the spinami net to the spinner platforms. See **Detail F**. Insert the ends of the net into the holes in the platform, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections.

Step 10: Attach the plastic covers to the base of the center post. See **Detail G**. Insert the ends of the nets into the holes in the platform, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

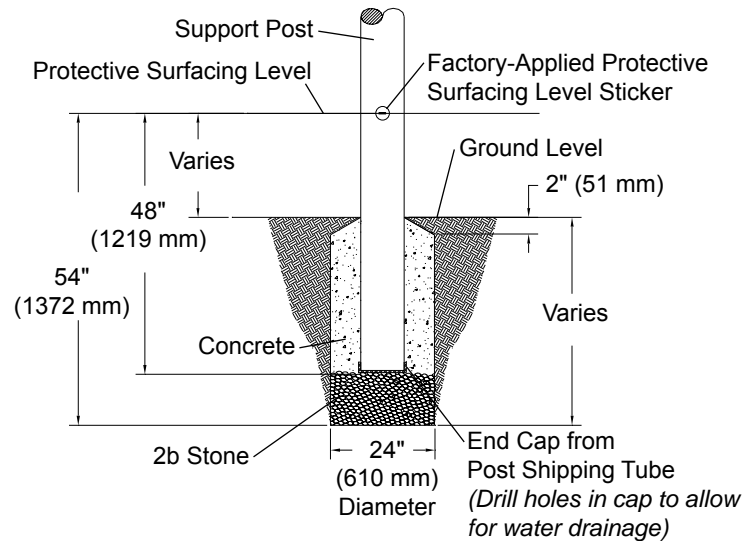
Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet on each connector to permanently secure it to the support ring. Using a 1/4" drill bit, drill through the connector and support ring. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the connector. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

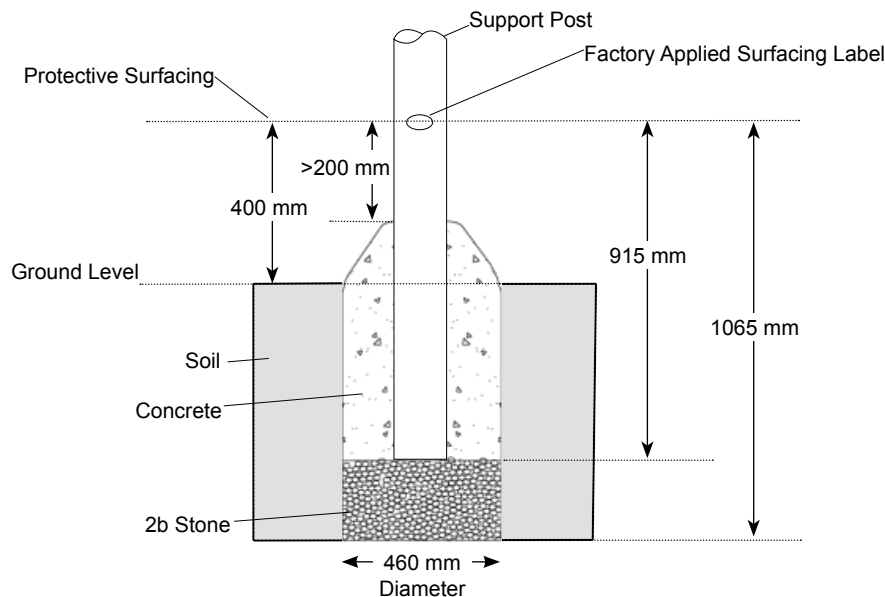
Installation Instructions



Support Post Footing Detail ASTM/CSA

FOOTING NOTES

- Support post footing depth equals 54 in. (1372 mm) less the depth of the protective surfacing material. The post is designed to have 36" (914 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 42 in. (1067 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Footing Detail Support Post (EN)

XX0151 - SPINAMI

PART NO.	DESCRIPTION	QTY.
AAU0691	CASTING - 1.90" O.D. TUBING CONNECTOR	24
AAU0782	CASTING - NET SPINNER CAP	1
AFM4852	FAB METAL - 71.90" O.D. SUPPORT RING	1
AMC0584	SPINAMI NET (LOWER)	1
AMC0585	70.7" ROPE w/EYEBOLT	6
APL1482	PLATE - 3.50" x 1.50" x 12 GA	2
ASY0319	ASSEMBLY - NET SPINNER CENTER POST	1
BAE0020	RIVET - 1/4" x 11/16" ALUMINUM DRIVE	12
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0112	NUT - 3/8"-16 HEAVY HEX	12
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0659	BOLT - 3/8"-16 x .75" BUTTON HEAD - S.S.	4
BAE06645	BOLT - 3/8"-16 x 1.50" BUTTON HEAD - S.S.	12
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - S.S.	4
BAE0922	TOOL - TT 45 L WRENCH	1
BAE1622	BOLT- M12 x 1.75 x 75mm HEX HEAD	6
BFC1453	SHEET - 16.38" x 8.19" x .75"	2
BPL3264	NET SPINNER PLATFORM	2



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Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Rope/Net

- Inspect the rope for any fraying, wear or loose connectors.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®

Model XX0151

Spinami



Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect connectors for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___



Assembly View

Model Number	Top Rail Height
ZZXX0223	7 ft. (2135 mm)
ZZXX0224	8 ft. (2440 mm)
ZZXX0225	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®




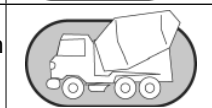
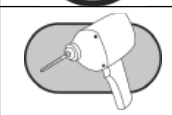

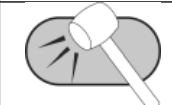
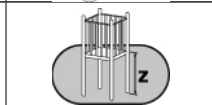
Models XX0223, XX0224, XX0225

Accessible Swing Seat w/ Galvanized Chain
to 7 ft (2134 mm), 8 ft. (2438 mm),
and 10 ft. (3048) Top Rail

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 man hour
Use Zone: Refer to swing set instructions
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

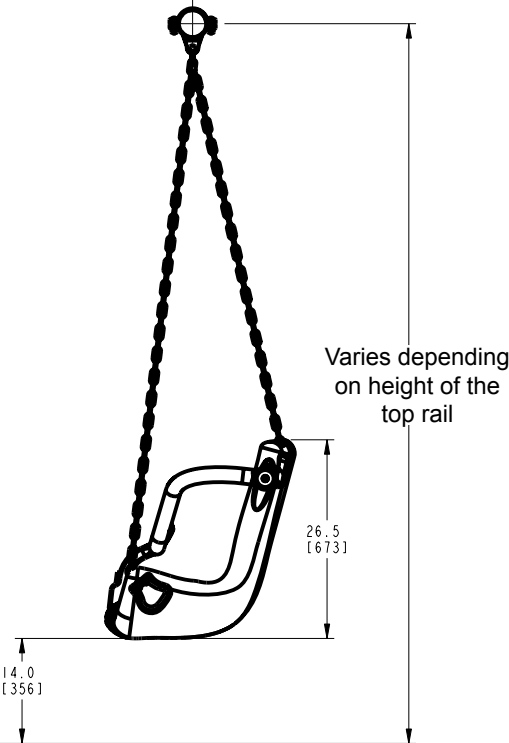
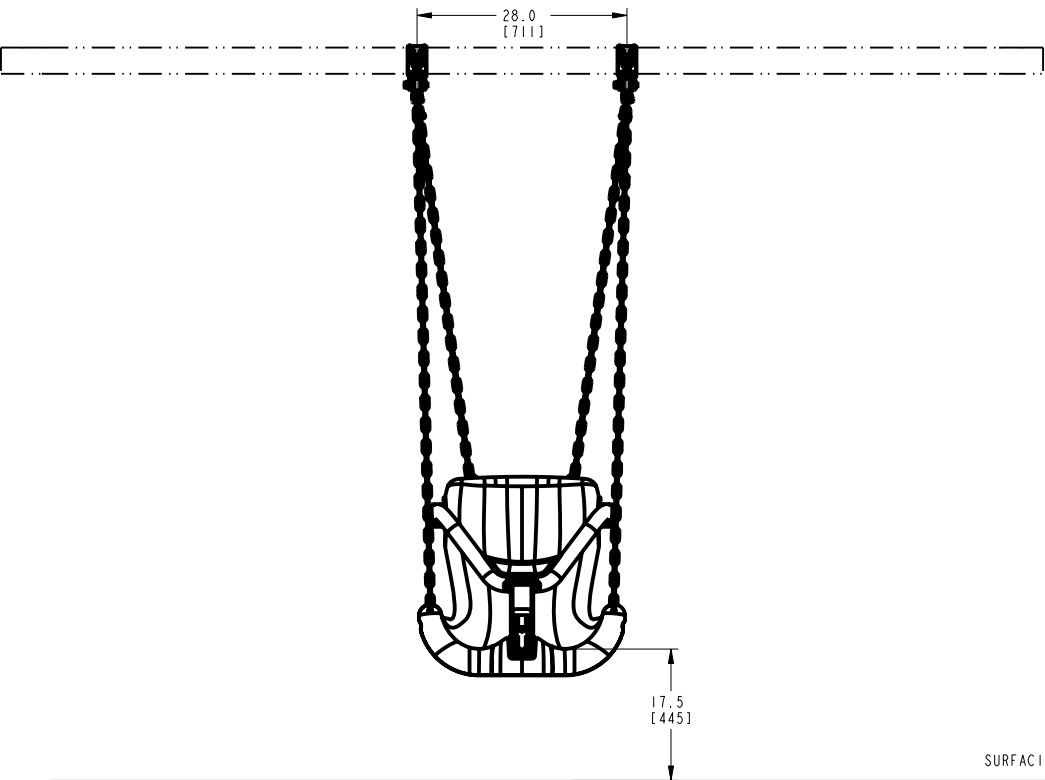
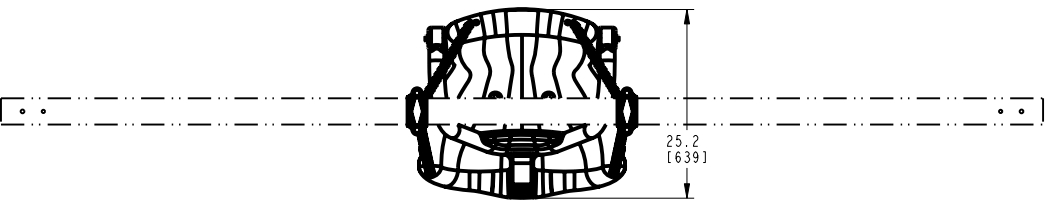
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0223	1240 mm	7 ft. (2135 mm)
ZZXX0224	1392 mm	8 ft. (2440 mm)
ZZXX0225	1697 mm	10 ft. (3050 mm)

Top View



Elevation Views

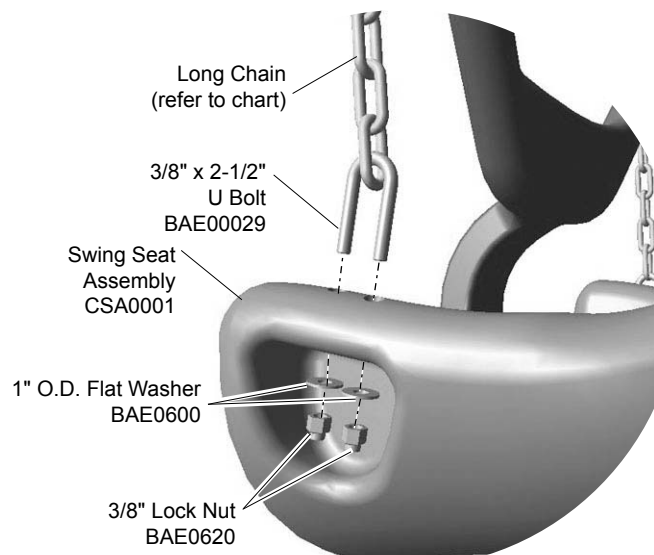


Installation Instructions

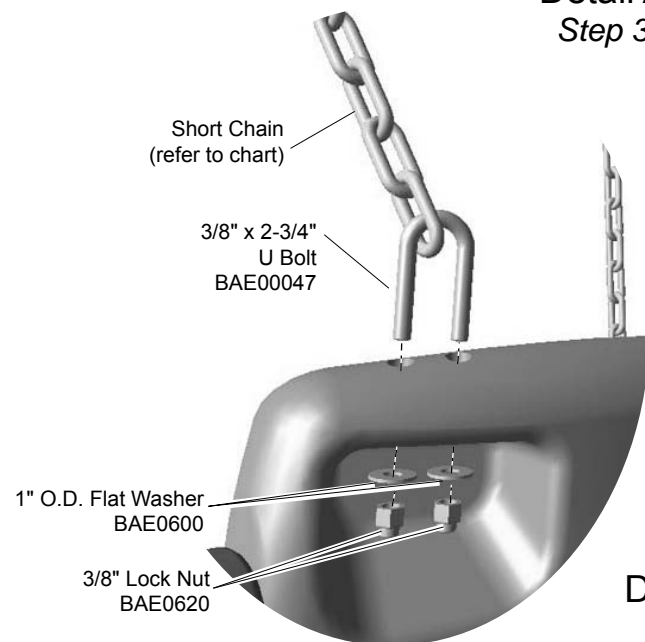
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.

Note: If using the 5" O.D. arch swing, put the shackle in the second chain link from the top.

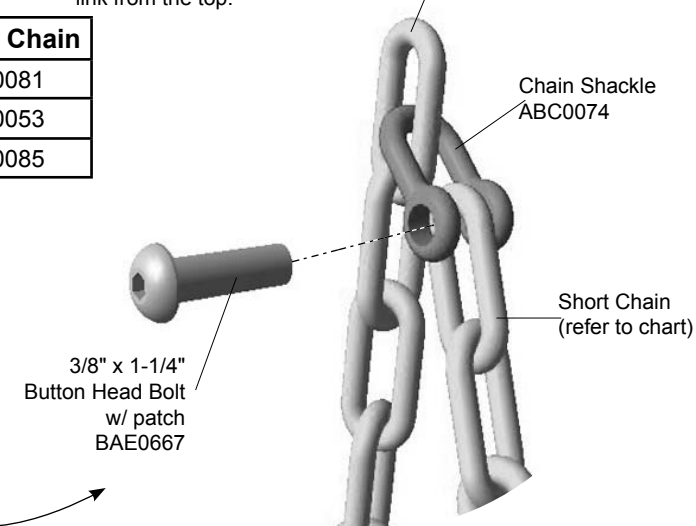
Model Number	Longer Chain	Shorter Chain
ZZXX0223	ACN0080	ACN0081
ZZXX0224	ACN0082	ACN0053
ZZXX0225	ACN0084	ACN0085



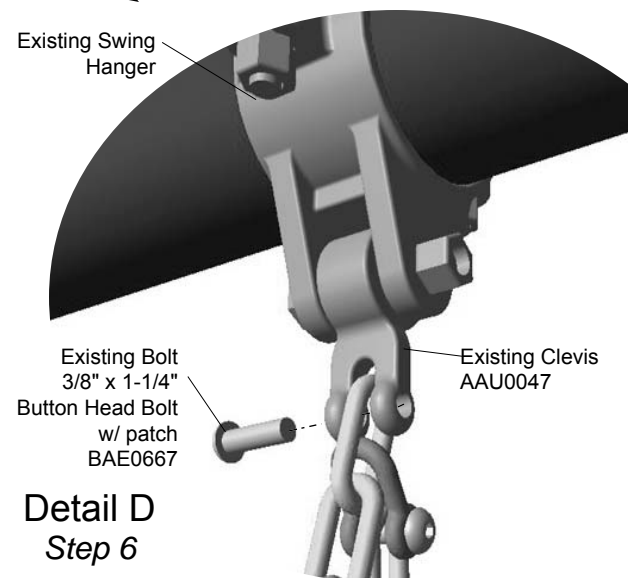
Detail A
Step 3



Detail B
Step 4



Detail C
Step 5



Detail D
Step 6

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the longer chain assembly to the accessible swing seat.

__Step 3: See **Detail A**. Select the accessible swing seat, the longer chain, and the appropriate hardware. There is (1) one connection per chain, (2) two total connections. Insert a U-bolt through the chain and into the openings on the top of each arm rest. Attach as shown.

Attach the shorter chain assembly to the accessible swing seat.

__Step 4: See **Detail B**. Select the shorter chain, and the appropriate hardware. There is (1) one connection per chain, (2) two total connections. Insert a U-bolt through the chain and into the openings on the top of the seat back. Attach as shown.

Connect the chains.

__Step 5: See **Detail C**. Select the swing seat assembly, (2) two shackles, and the appropriate hardware. There are (2) two connections. Thread a shackle through the last link of one of the longer "front" chains. Insert the last link of the shorter chain into the open end of the shackle. Insert a bolt through the unthreaded side of the shackle, *through the last link* of the shorter chain, and thread into the opposite side of the shackle. Repeat for the other set of chains.

Attach the seat assembly to the swing hangers.

__Step 6: See **Detail D**. There are (2) two connections. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex wrench. Select the swing seat and place the last link of the longer chain into the open end of the clevis. Re-insert the bolt through the unthreaded side of the clevis, *through* the chain link, and thread into the opposite side of the clevis.

Final Details.

__Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Important Note: The vertical distance between an occupied seat and the protective surface should be at least 14" (356 mm). Remove any excess chain.

Usage instructions: Place child in swing and pull the harness down around child. Pull the rubber latch up until the hole aligns with the protrusion on the harness. Press the rubber latch onto the harness to secure. To release the latch, pull the rubber up and out until the harness is released. Do **NOT** attempt to pull harness out of swing seat without disengaging the latch first.

Bill of Materials

ZZXX0223 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 7 ft. (2134 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0080	CHAIN - 57.00" 4/0 GALVANIZED	2
ACN0081	CHAIN - 40.00" 4/0 GALVANIZED	2
BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2
BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
CSA0001	ASSY - ACCESSIBLE SWING SEAT	1

ZZXX0225 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 10 ft. (3048 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0084	CHAIN - 93.00" 4/0 GALVANIZED	2
ACN0085	CHAIN - 75.00" 4/0 GALVANIZED	2
BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2
BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
CSA0001	ASSY - ACCESSIBLE SWING SEAT	1

ZZXX0224 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0053	CHAIN - 52" 4/0 GALVANIZED	2
ACN0082	CHAIN - 69.00" 4/0 GALVANIZED	2
BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2
BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
CSA0001	ASSY - ACCESSIBLE SWING SEAT	1



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Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

To repair the coating, contact the Playworld Systems' Customer Service Department for a coating repair touch-up kit.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems® Model XX0223,
XX0224, XX0225
Accessible Swing Seat
w/ Galvanized Chain
to 7 ft (2134 mm), 8 ft. (2438 mm),
and 10 ft. (3048) Top Rail



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- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect clamps for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			
Inspect surfacing to insure proper depth and distribution.	High			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems®




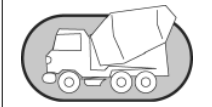
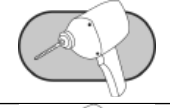

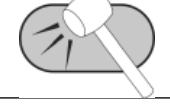
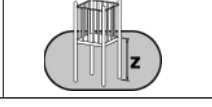
Models XX0260, XX0261, & XX0324

Belt Seat with Swing Chain

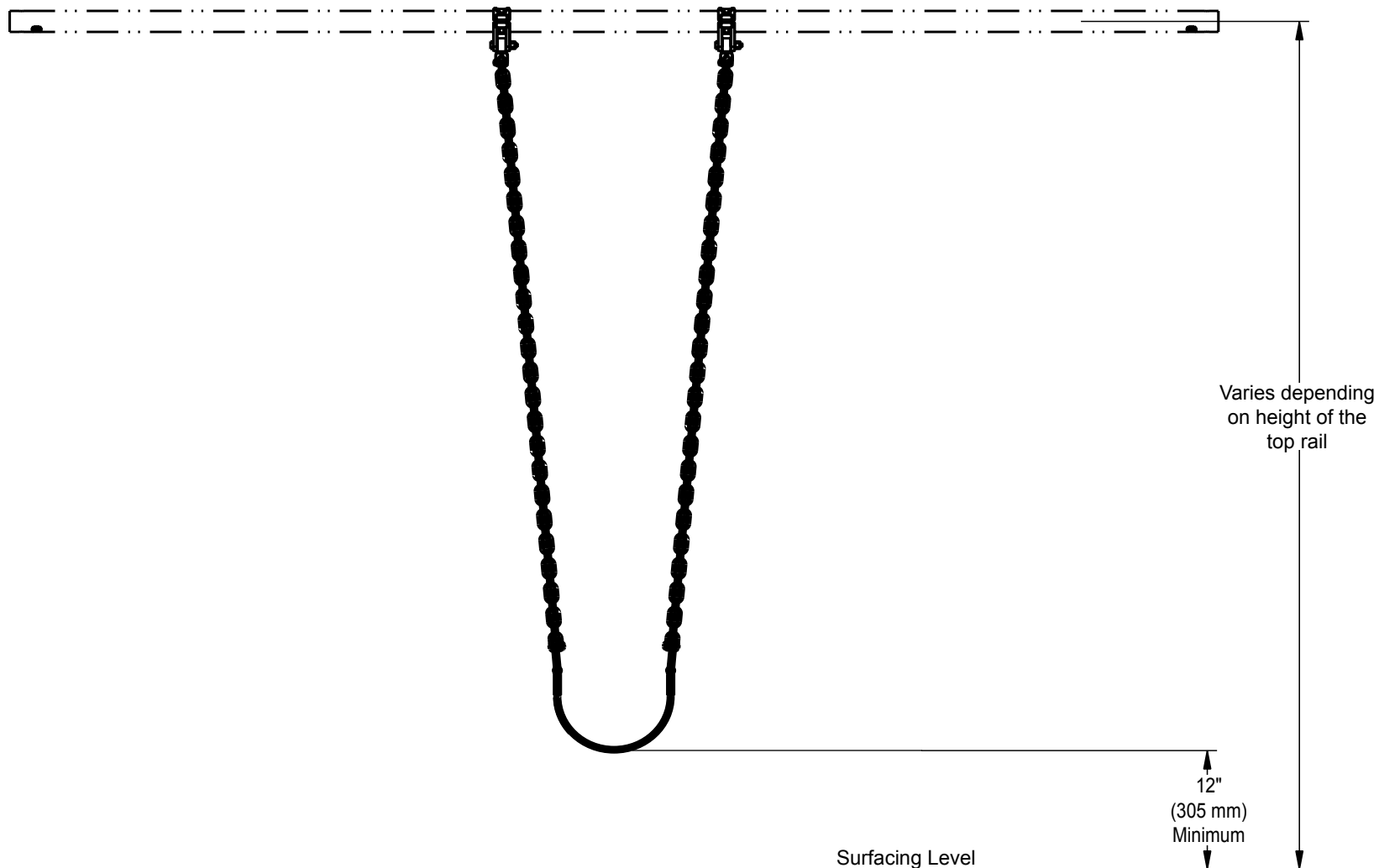
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

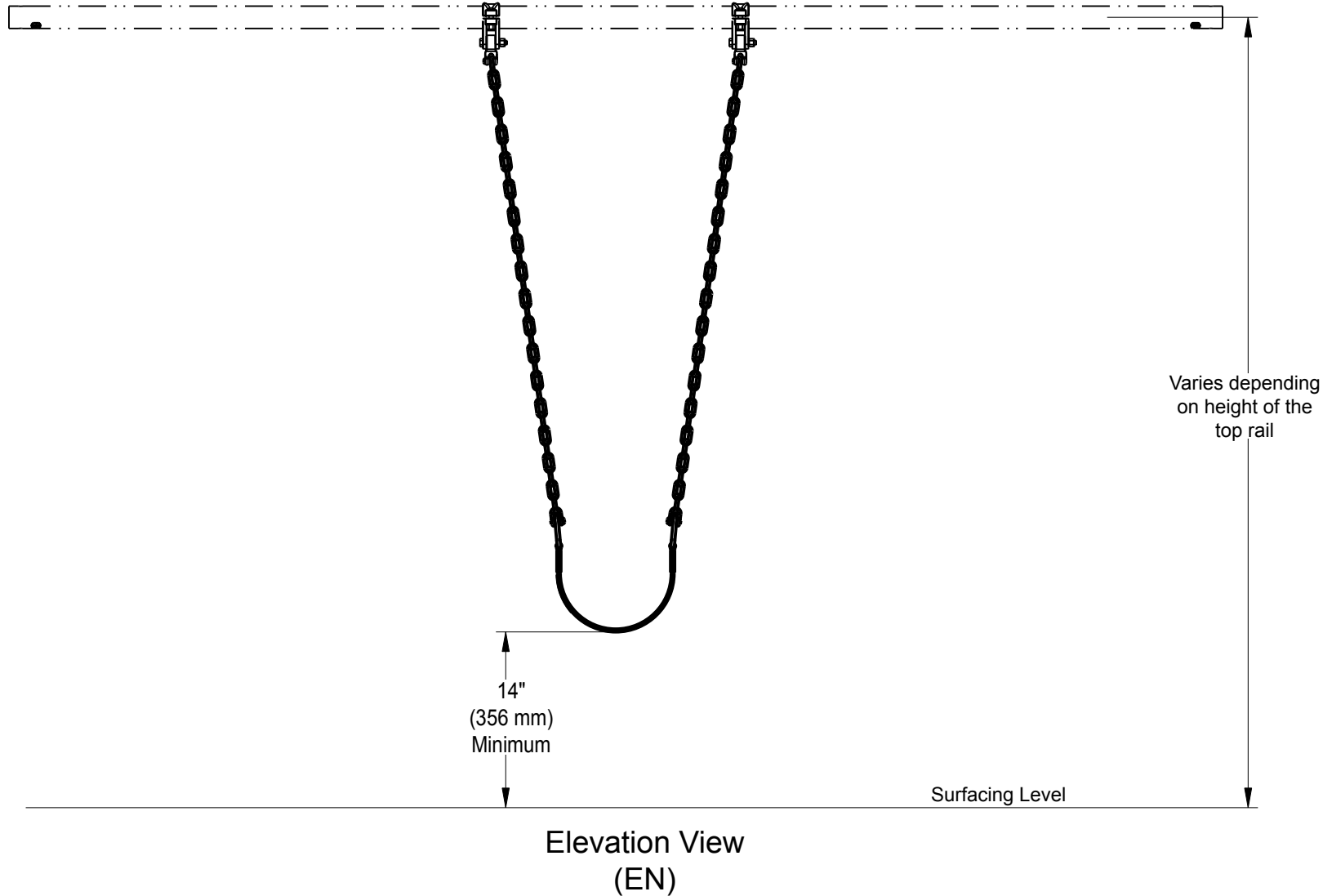
Installation Instructions



Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)

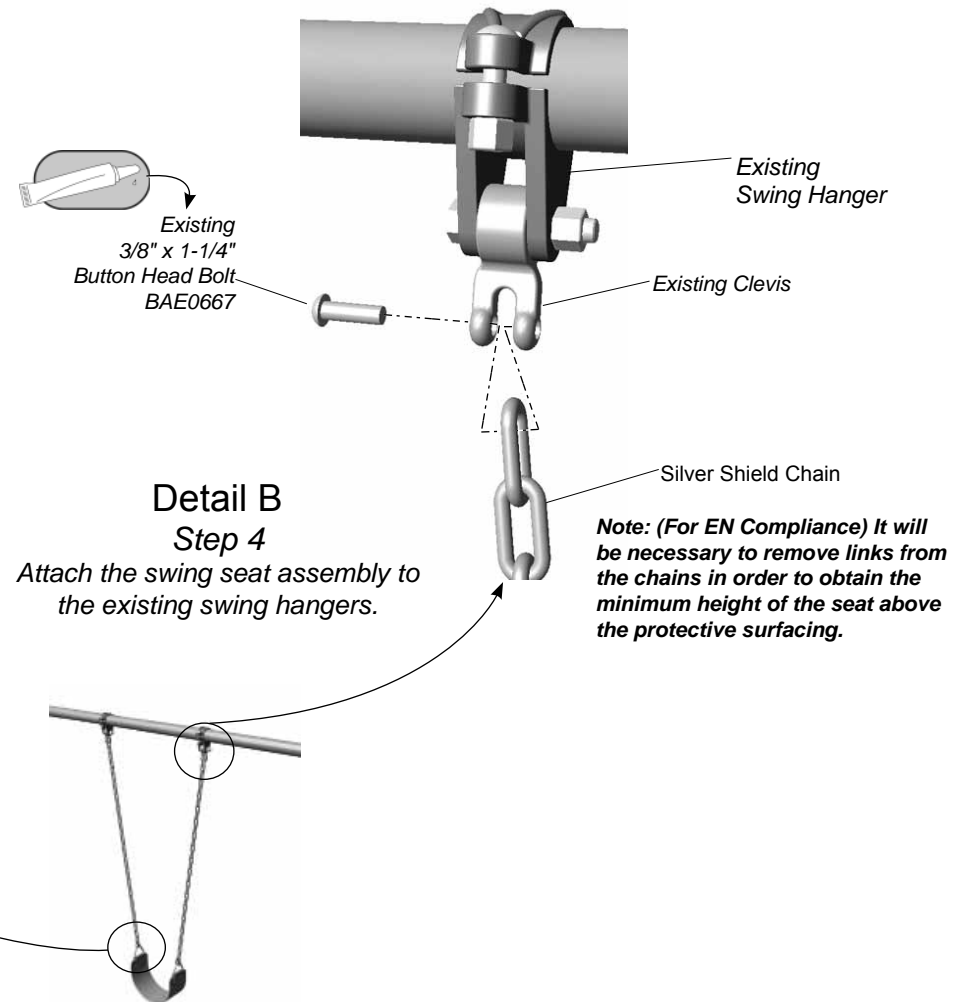
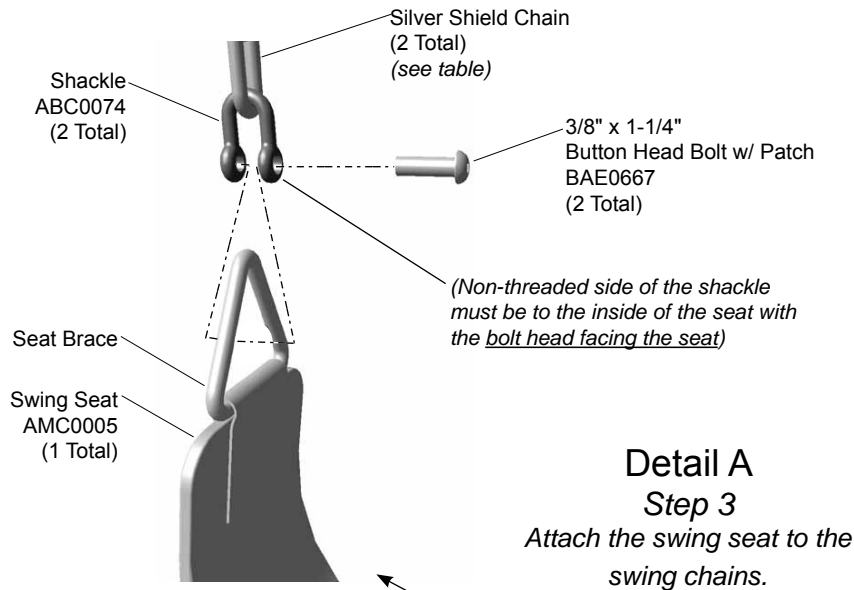
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1



Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain



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Inspection Form

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- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

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INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___





Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Top Rail Height
ZZXX0325	7 ft. (2134 mm)
ZZXX0265	8 ft. (2440 mm)
ZZXX0266	10 ft. (3050 mm)

Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Installation Preparation

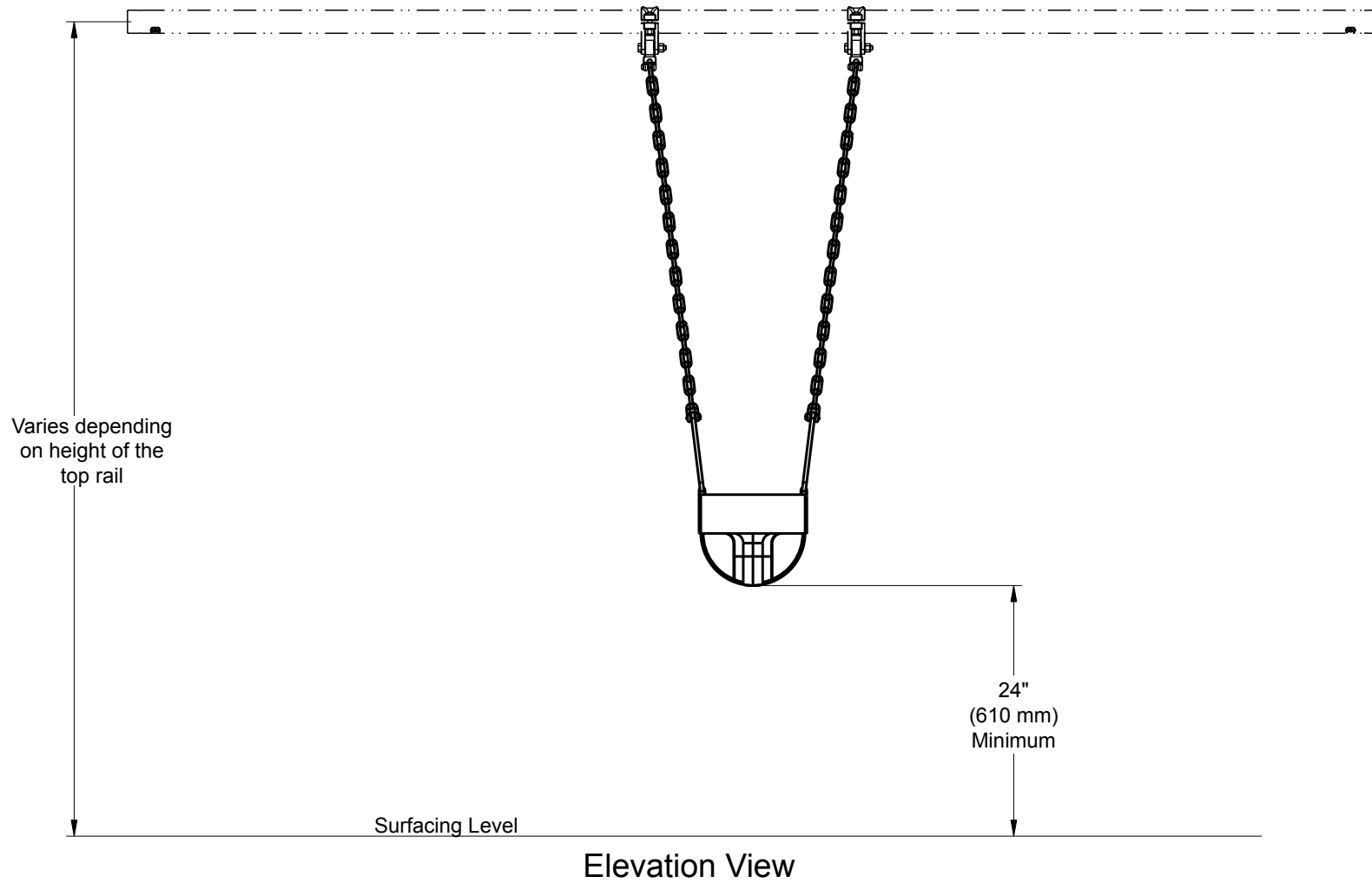
Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Use Zone: Refer to the swing frame instructions
 User Group: Ages 2 - 5 years

ICON KEY



Fully Tighten
Hardware

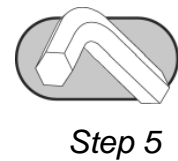
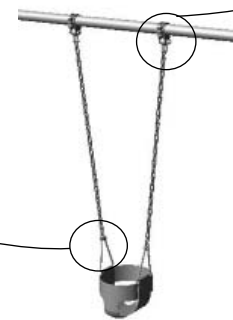
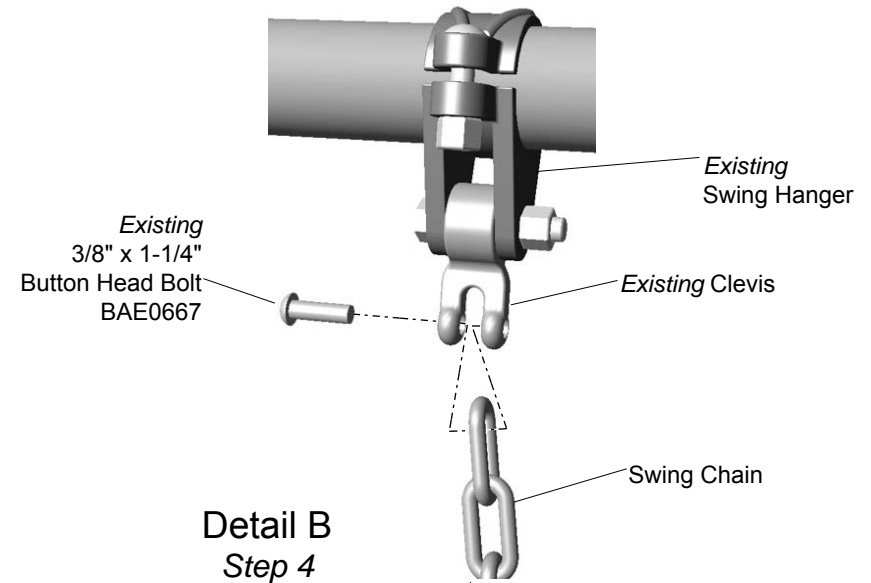
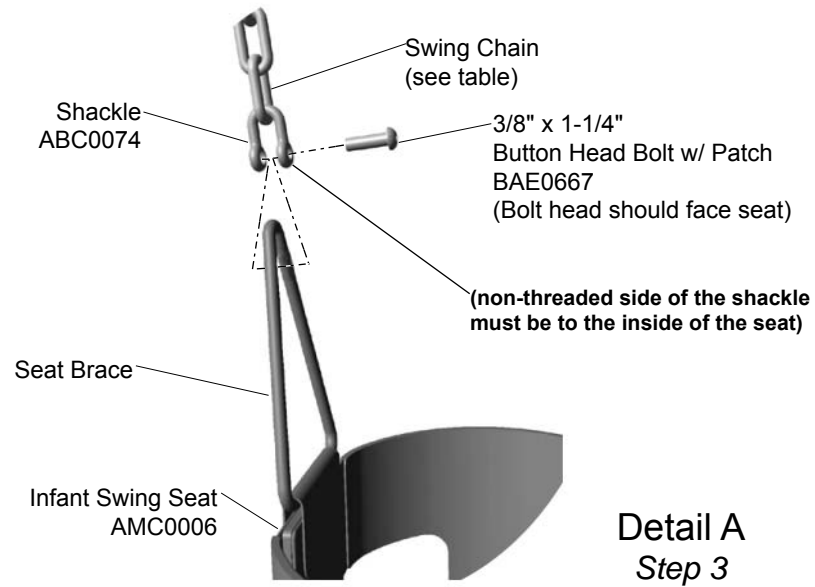
Installation Instructions



Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

Installation Instructions

__Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__Step 3: Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.

Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__Step 5: Fully tighten all fasteners according to tightening torque specifications.

Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN - 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN - 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN - 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1



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Swing Seat

- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain



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Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ____ / ____ / ____



Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

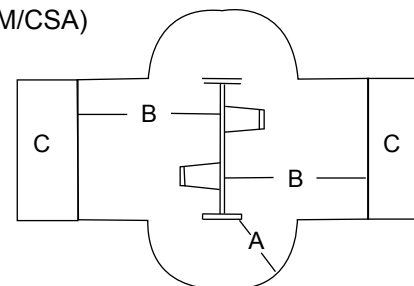
- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
- For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

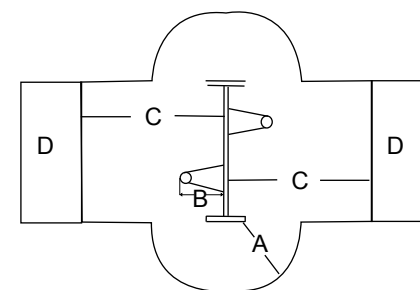
- A =** Side Use Zone
72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

- A =** Side Use Zone
72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
- D =** No-encroachment Zone
72 in. (1829 mm)



Installation Instructions

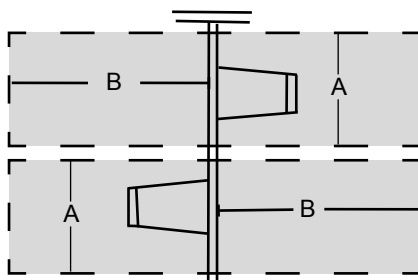
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

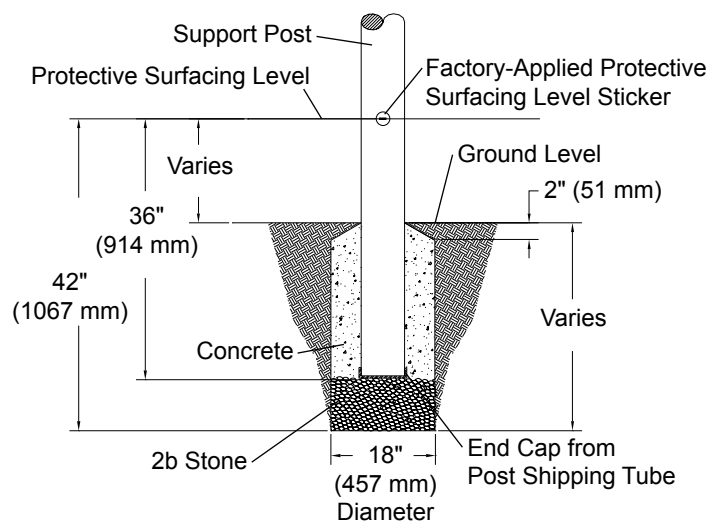
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

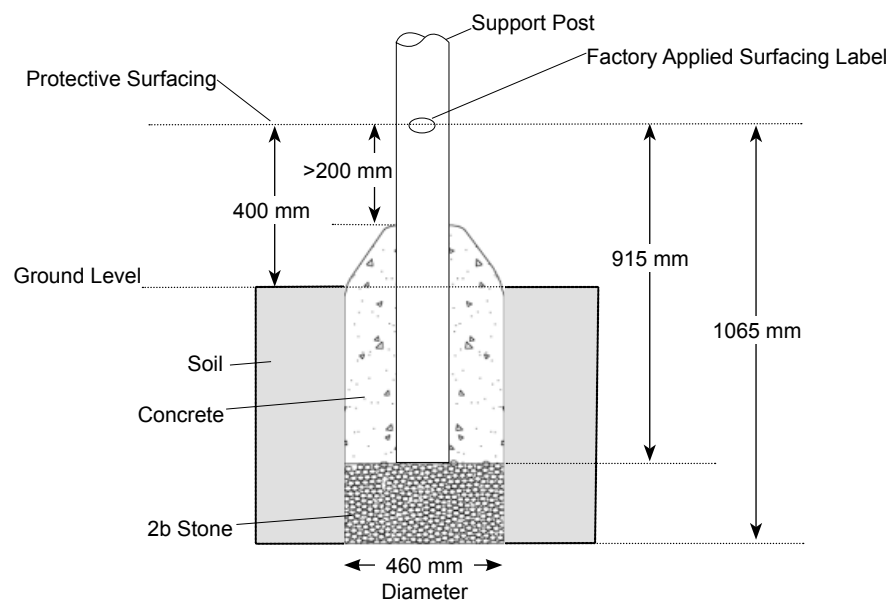
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.





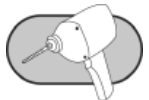
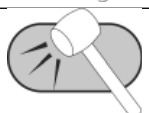

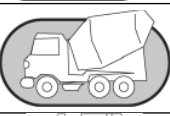

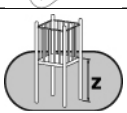
Assembly View (representative model)

Installation Instructions

Playworld Systems® Model XX0287
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

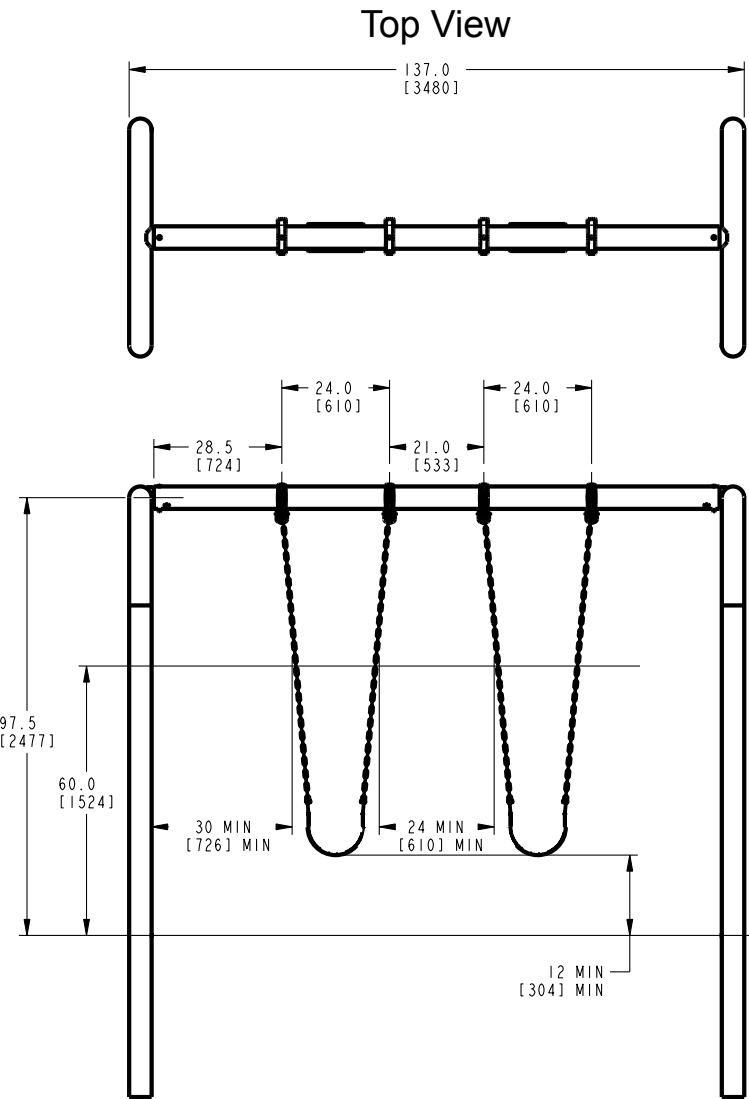
Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 3 man-hours
Concrete Required: 0.48 cubic yard (0,37 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

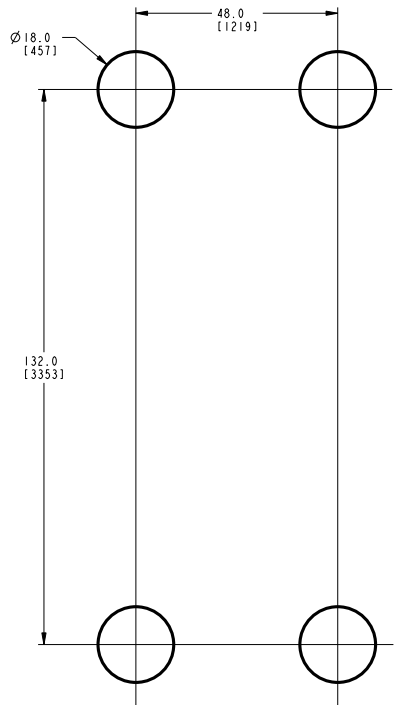
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

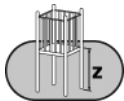
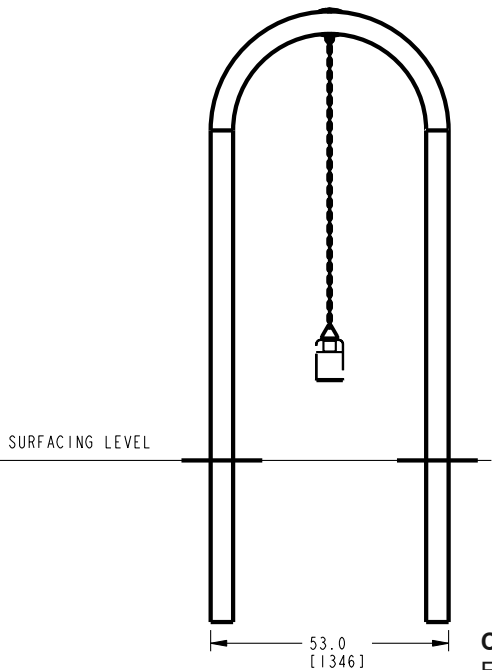


Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Footing Diagram

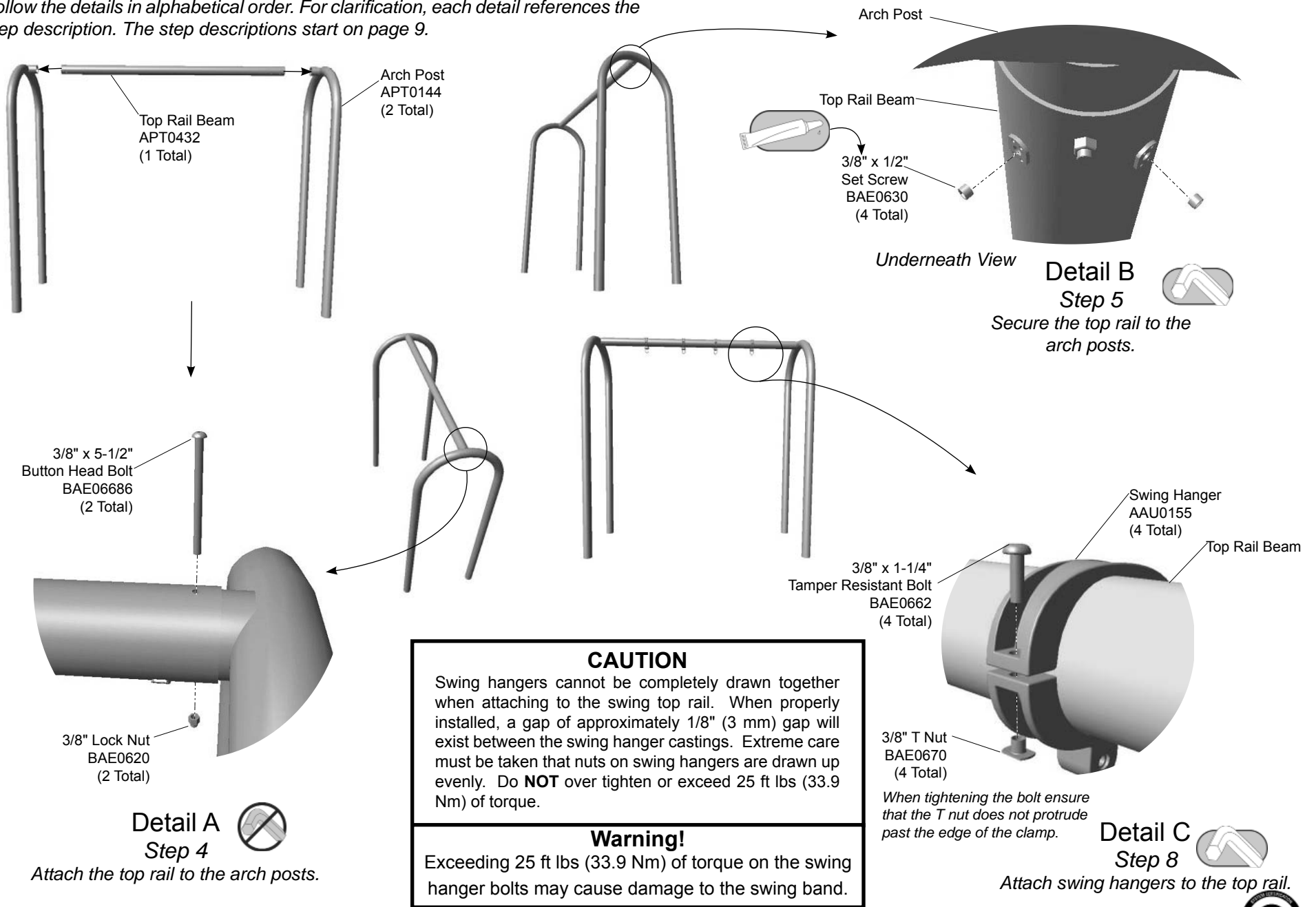
Elevation Views



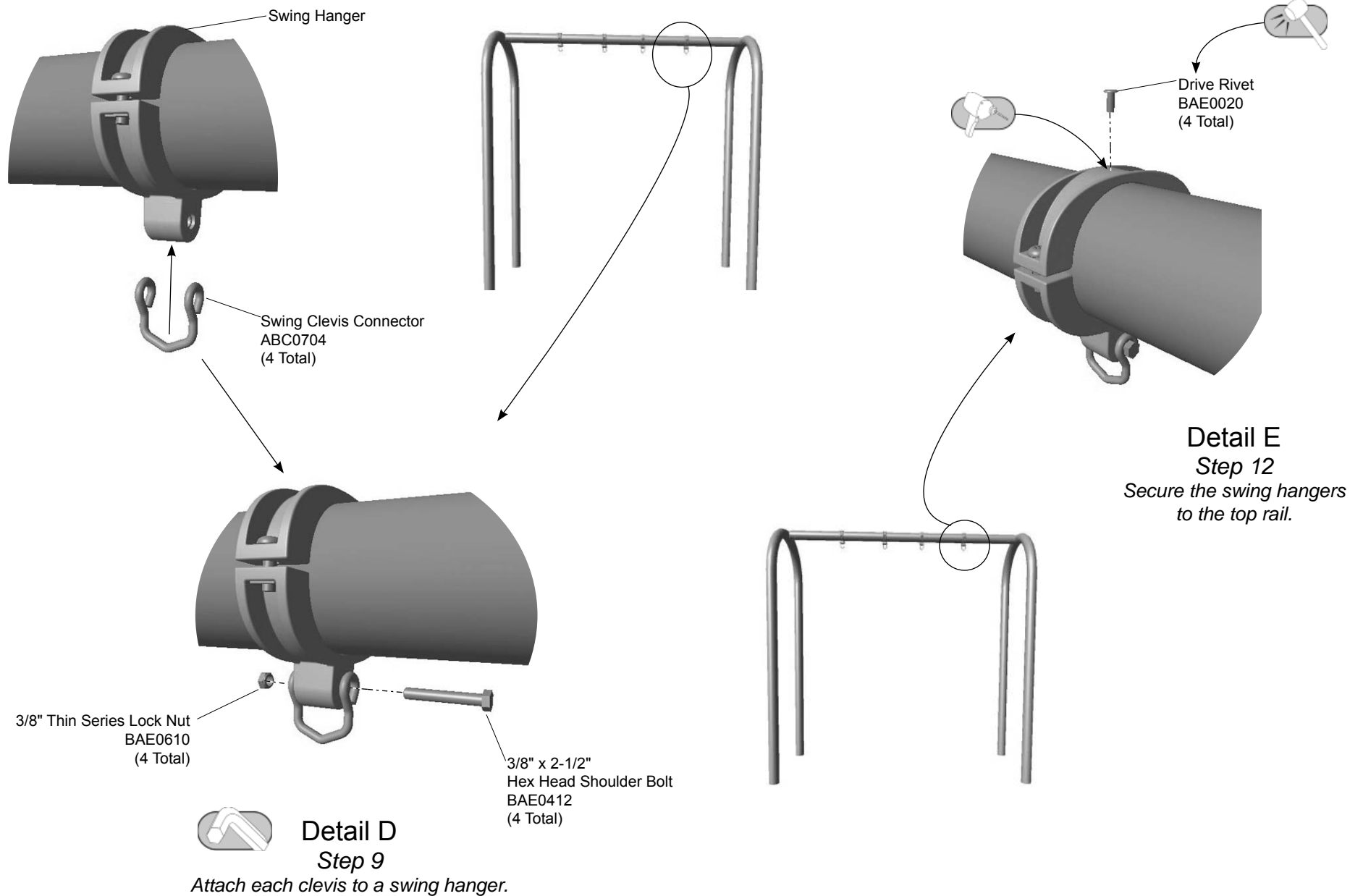
Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.

Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.

Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Installation Instructions

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133-1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1



The world needs play.™

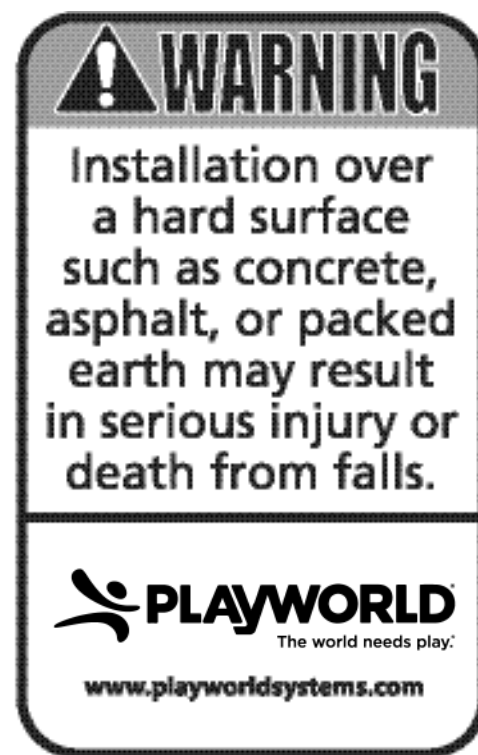
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

PLAYWORLD
The world needs play.

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **. . . for Safety's Sake!**

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__

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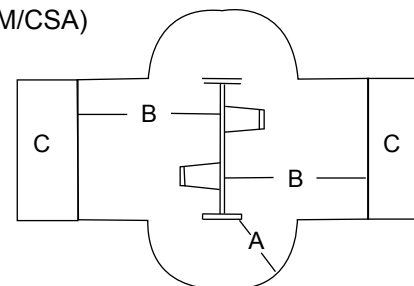
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(ASTM / CSA)

- For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.
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Belt/Rigid Seat Swing Zones (ASTM/CSA)

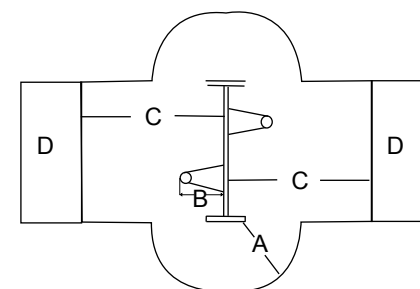
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72 in. (1829 mm)
- B =** End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail
- C =** No-encroachment Zone
72 in. (1829 mm)



- The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

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72 in. (1829 mm)
- B =** Distance from Pivot Point
to Swing Seat Surface
- C =** End Use Zone: B x 2
Both Sides of Top Rail
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72 in. (1829 mm)



Installation Instructions

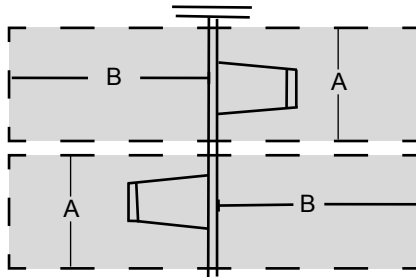
(EN)

- For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = $(0.867 \times \text{Distance from pivot point to seat}) + \text{either } 1750 \text{ mm if unitary surfacing or } 2250 \text{ mm if loose-fill surfacing is used}$. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

- A =** Width of the corridor centered on the swing seat
1750 mm
- B =** Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.
- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**
- Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.
- IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

Installation Instructions

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

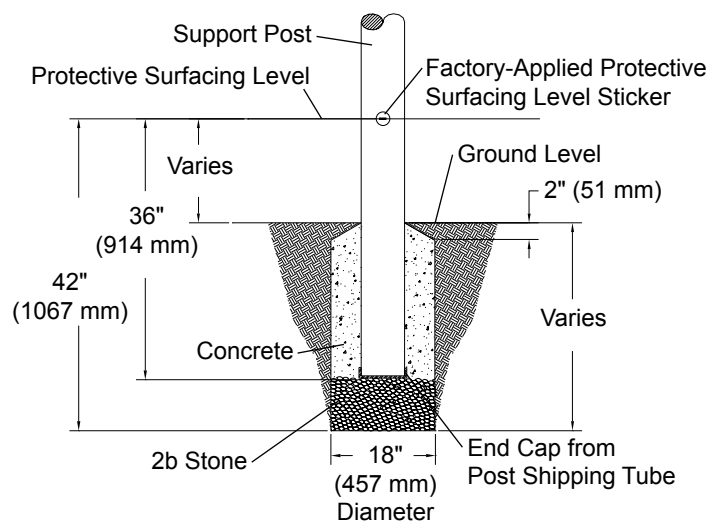
Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

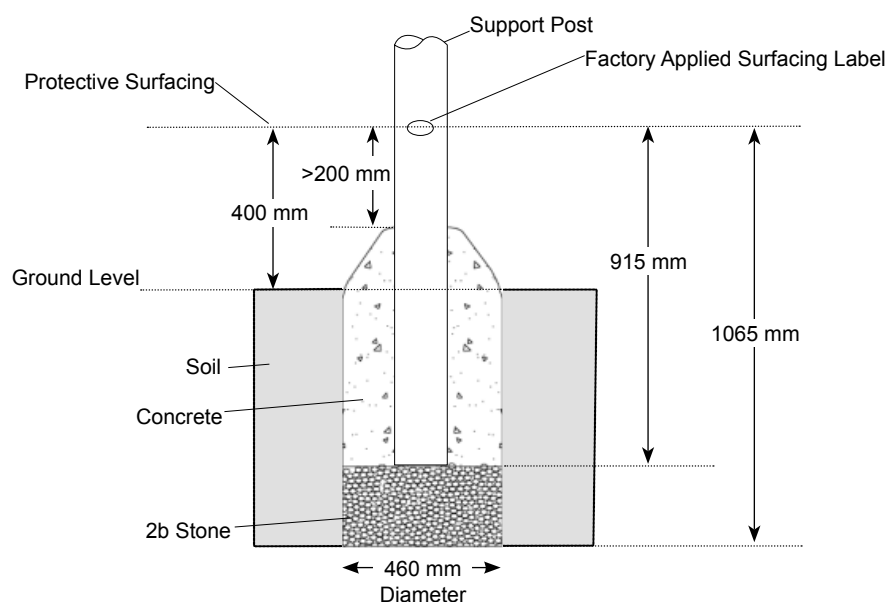
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

Installation Instructions



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



Installation Instructions

Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay



Assembly View

Installation Preparation

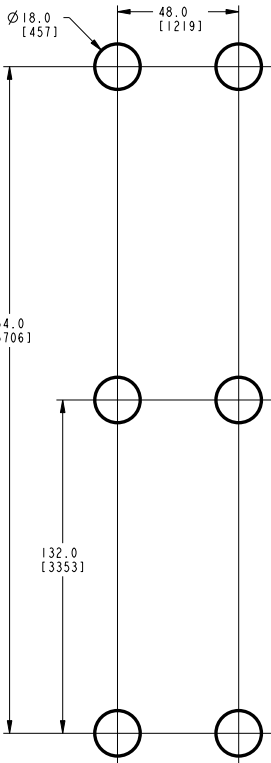
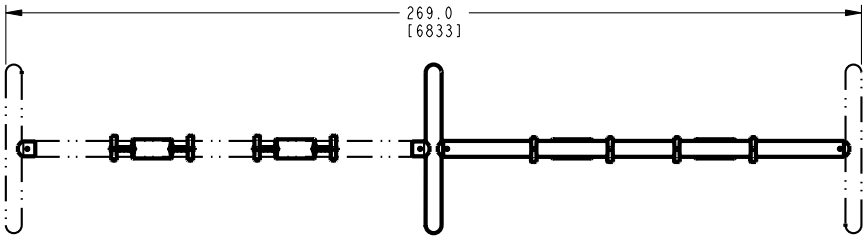
Recommended Crew: Three (3) adults
Installation Time: 2 man-hours
Concrete Required: 0.24 cubic yard (0,18 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

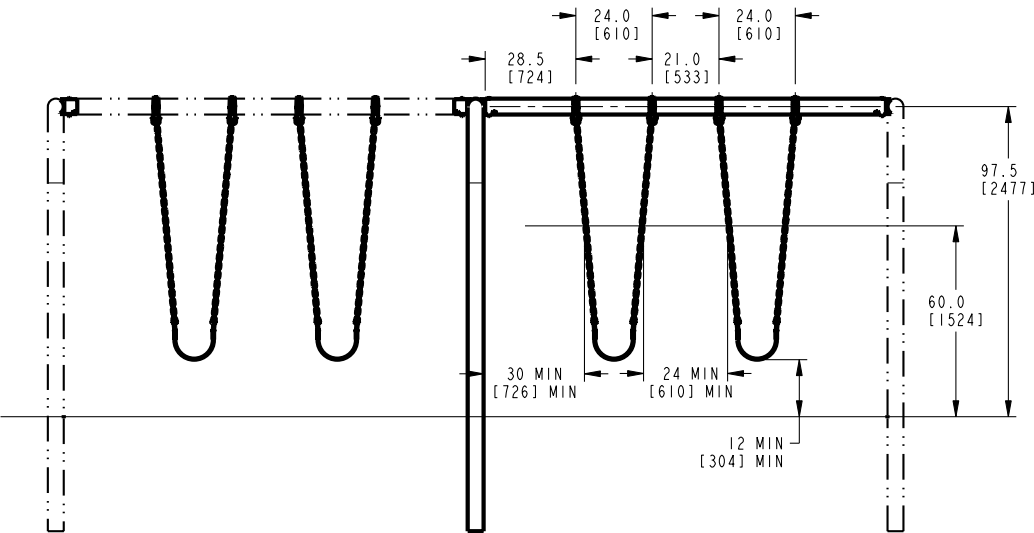
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

Top View

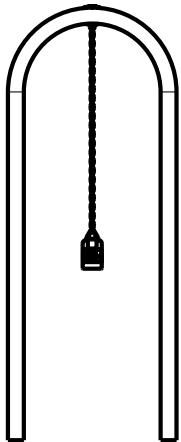


Footing Diagram

Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.

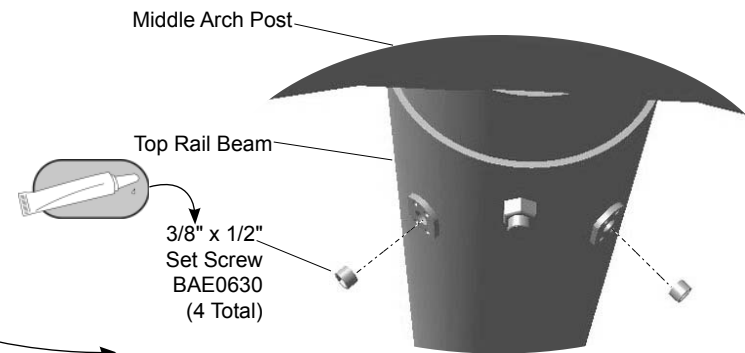
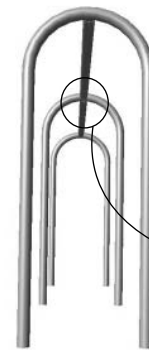
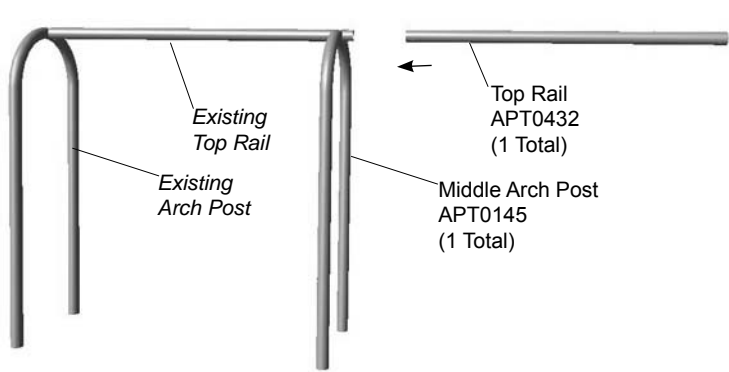


Elevation Views



Installation Instructions

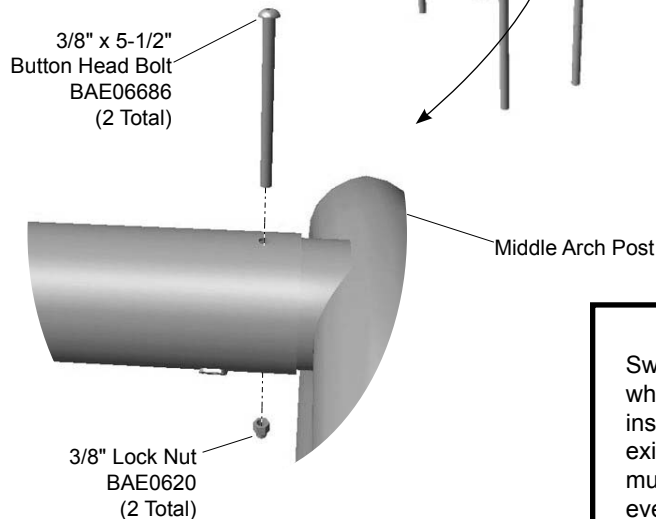
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Underneath View

Detail B Step 7

Secure the top rails to the middle arch post.



Detail A Step 5

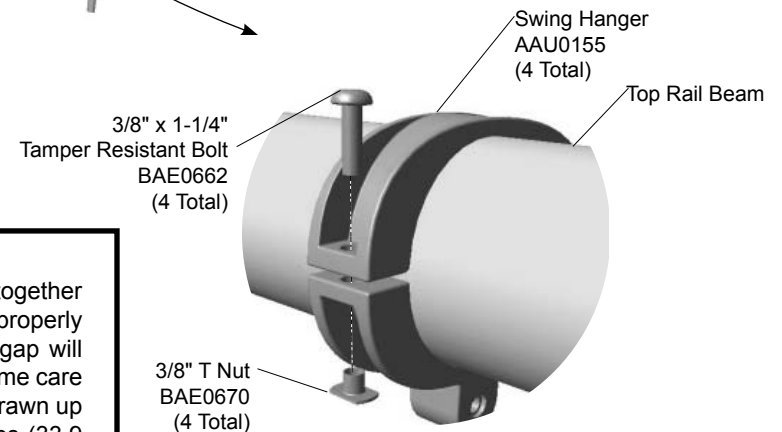
Attach both top rails (new and existing) to the middle arch support.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.



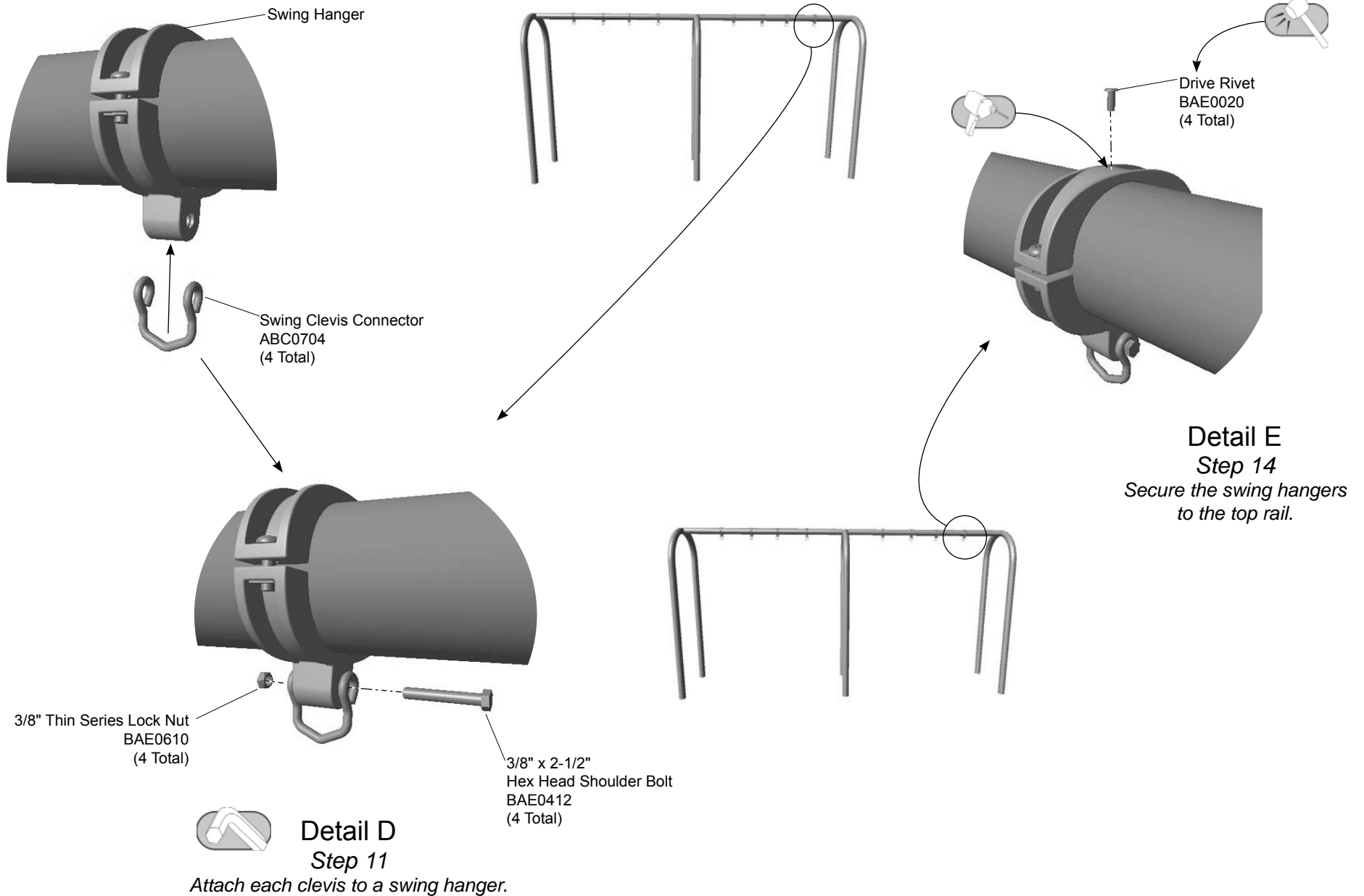
When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C Step 10

Attach swing hangers to the top rail.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing

Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation

Assemble the swing frame.

Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.

Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.

Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.

Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.**

Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.

Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.

Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - S.S.	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - S.S.	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

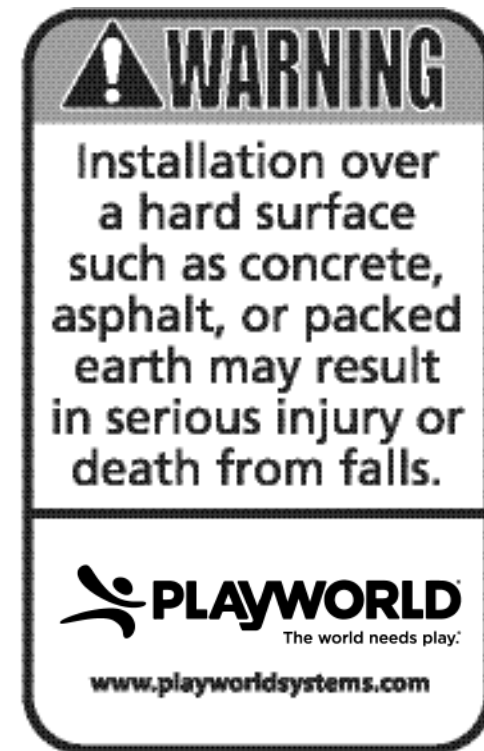


Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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intentionally left blank.

Swing Hangers

- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0370 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing Add-A-Bay



Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque
on the swing hanger bolts may
cause damage to the swing band.

PLAYWORLD
The world needs play.™

For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance **. . . for Safety's Sake!**

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass F = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature: _____ Date: __/__/__

MAINTENANCE SCHEDULE

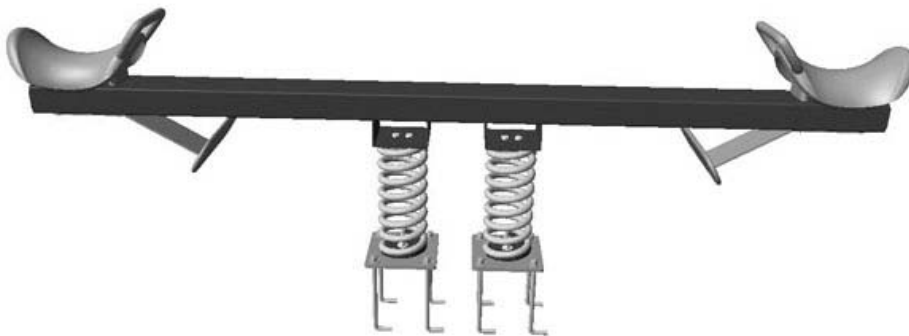
Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: __/__/__

Installation Instructions

Playworld Systems® Model XX0650

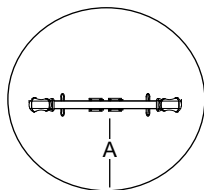
Wave Rider See-Saw



Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 installation-hours
 Concrete Required: 0.07 cubic yard (0,05 cubic meters)
 Use Zone: Refer to the information below
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14




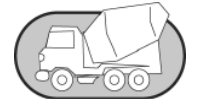
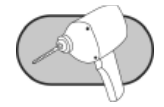


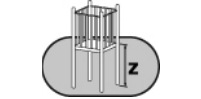
Assembly View



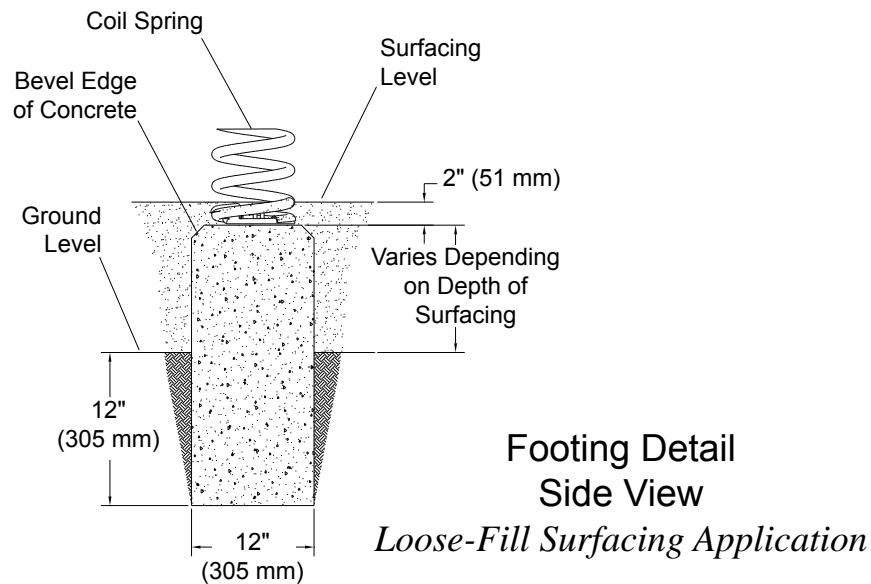
Equipment Use Zone
 A - (ASTM) at least 72 in. (1830 mm)
 (CSA) at least 1800 mm
 (EN) 1000 mm

Refer to the Elevation View for the specific Critical Fall Height for the component.

ICON KEY

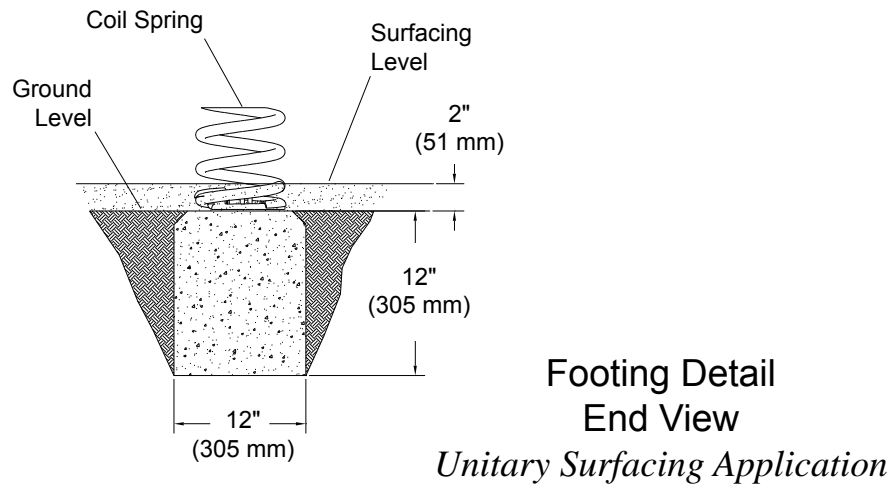
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

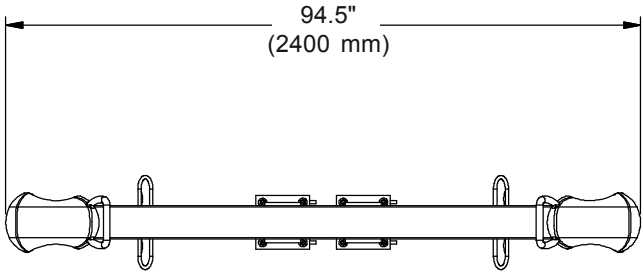


FOOTING NOTES

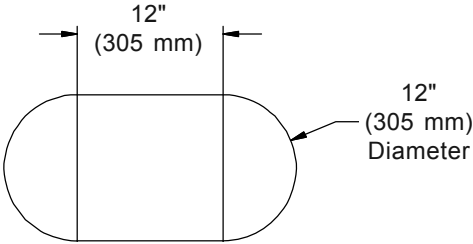
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.



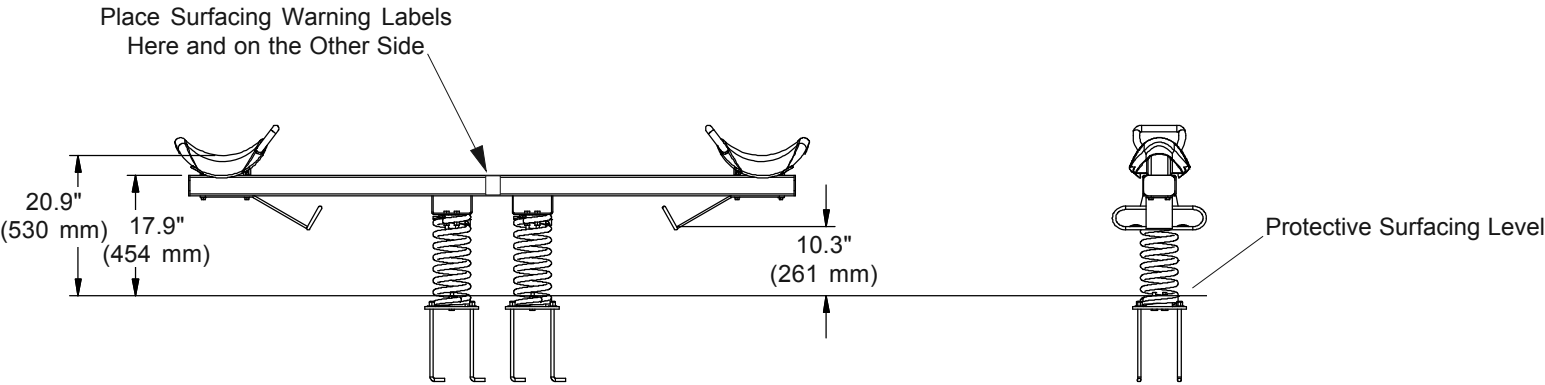
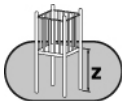
Installation Instructions



Top View



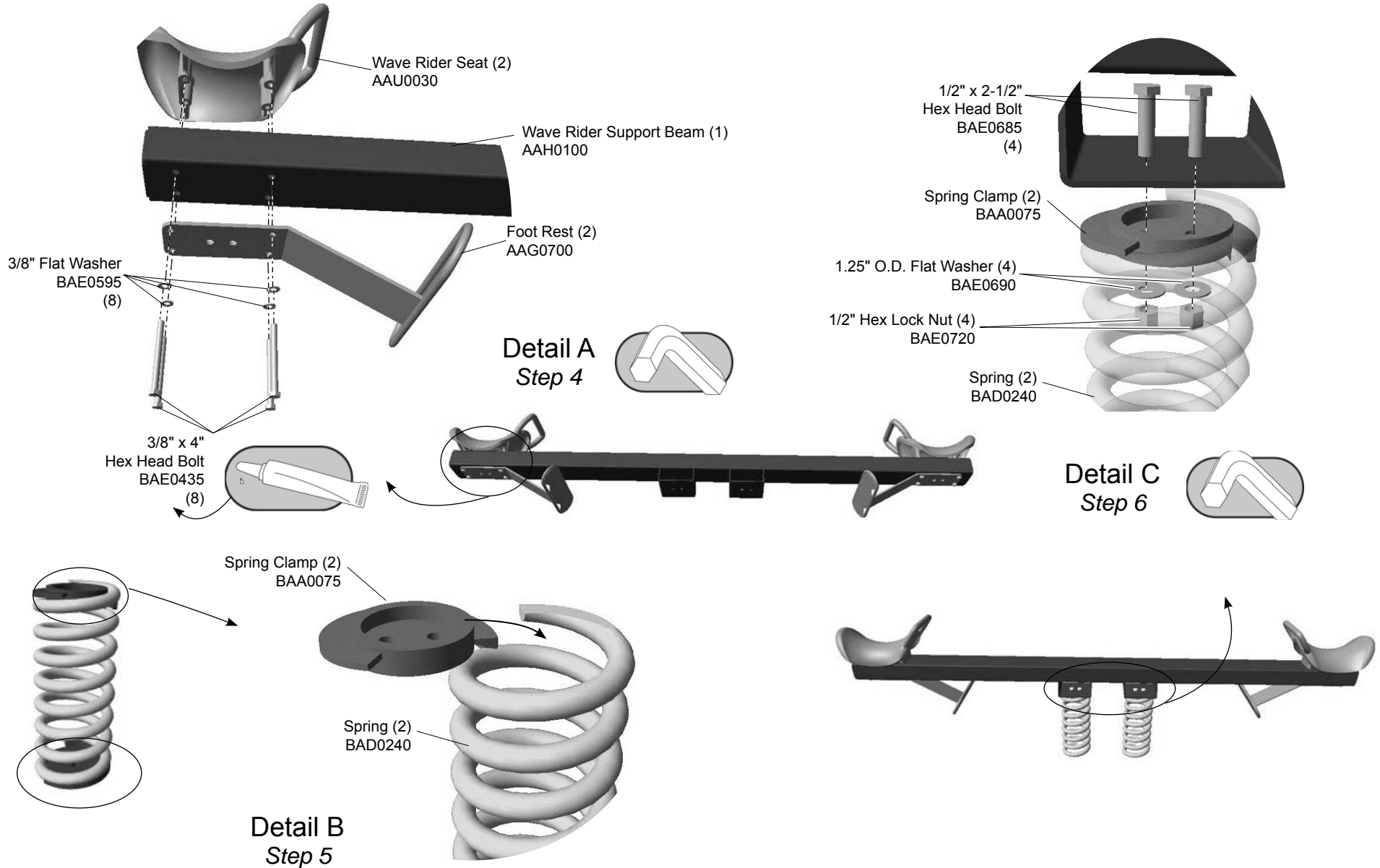
Footing Diagram



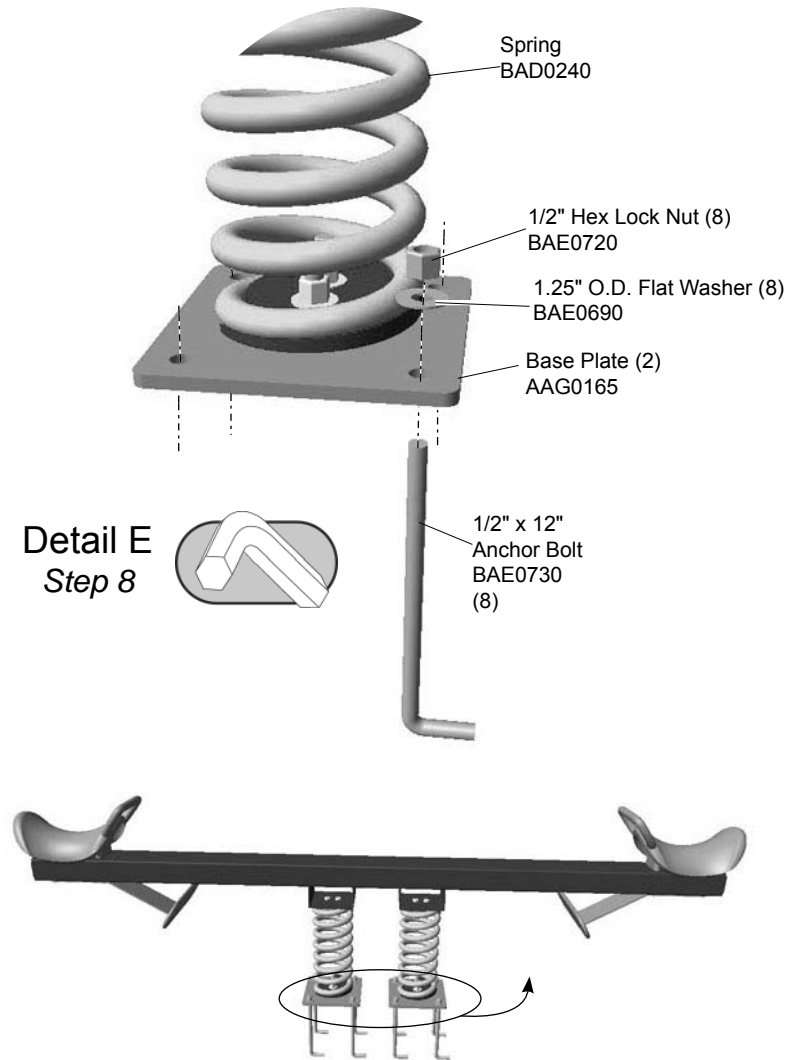
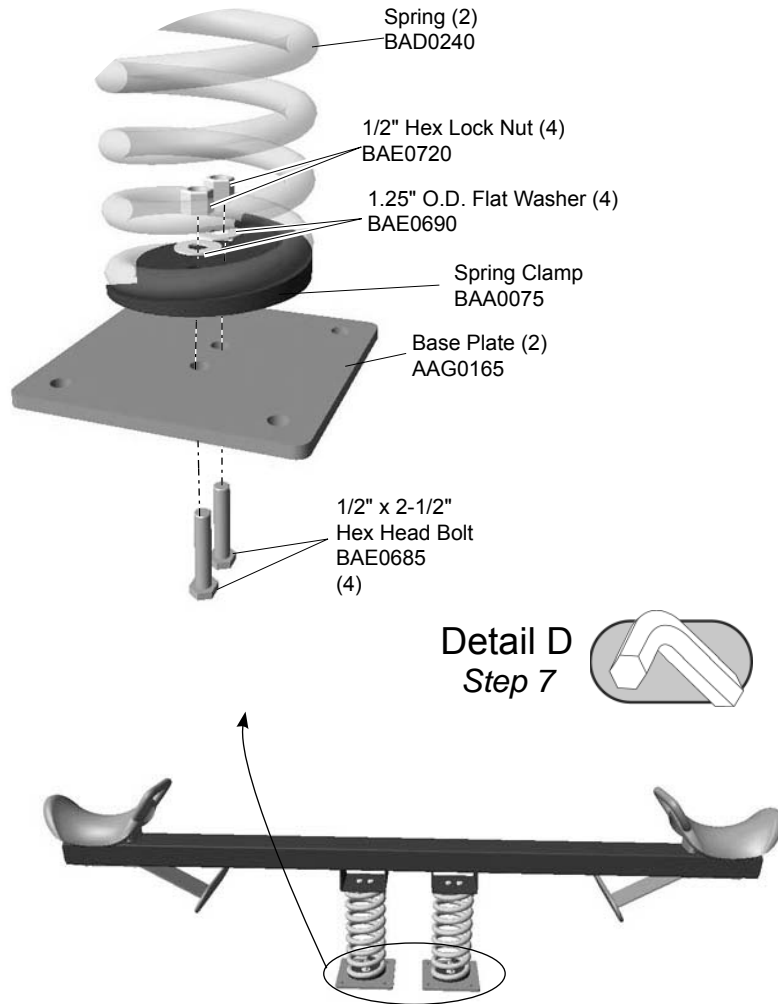
Elevation View

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



Installation Instructions



Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Footing Details** on *page 2 of this document*.

Assemble the Wave Rider.

Step 4: See **Detail A**. Orient the saddle seats on top of the support rail with the handle in towards the center. Orient the footrest mounting plate underneath with the footrest in towards the center. Apply a drop of loctite to the bolt threads and attach as shown.

Assemble the springs.

Step 5: Attach the spring clamps to the springs. See **Detail B**. Thread a clamp into each end of each coil spring. The flatter centers of the clamps must face the spring when threading them on. The clamp should be totally enclosed by the first and second coils.

Attach the springs to the beam.

Step 6: See **Detail C**. Place a spring assembly against a beam mounting plate and align the holes. Attach as shown.

Attach the springs to the plate.

Step 7: See **Detail D**. Position each base plate against the bottom of the spring and align holes. Attach as shown.

Attach the anchor bolts.

Step 8: See **Detail E**. Insert the threaded portion of each anchor bolt up through the base plate and attach as shown.

Final Details.

Step 9: Plumb and level entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Loose-Fill Surfacing Application: Excavate footing hole as shown in the **Footing Detail** for loose-fill surfacing application. The example shown depicts 12" (305 mm) of loose-fill surfacing material being used. In this condition, a concrete pillar will be constructed that extends 10" (254 mm) above the ground level. The top of the concrete pillar will be covered with at least 2" (51 mm) of loose-fill surfacing material.

Note: To create the concrete pillar, a wood form may be constructed or a heavy cardboard-type cylinder can be purchased at your local hardware store for such applications.

Unitary Surfacing Application: Excavate footing hole as shown in the **Footing Detail** for unitary surfacing application. The example shown depicts 2" (51 mm) of unitary surfacing material being used. The top of the concrete footing will be at ground level.

Step 10: Apply the Surfacing Warning labels to places shown on the **Elevation View**.

Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0650 - WAVE RIDER SEE-SAW

PART NO.	DESCRIPTION	QTY.
AAG0165	PLATE - 3/8" x 8" x 8" w/ 6 HOLES	2
AAG0700	FOOTREST - SPRING ANIMAL MOUNTING PLATE	2
AAH0100	BEAM - 3" x 5" x 90-3/8" WAVE RIDER	1
AAU0030	SEAT - WAVE RIDER SADDLE	2
BAA0075	CLAMP - SPRINGMATE COIL	4
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAD0240	SPRING - 13/16" BAR x 5-5/8" O.D. x 13-3/4" COIL	2
BAE0435	BOLT - 3/8"-16 x 4" HEX HEAD	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	8
BAE0690	WASHER - 1/2" SAE FLAT	16
BAE0720	NUT - 1/2"-13 LOCK	16
BAE0730	BOLT - 1/2"-13 x 12" ANCHOR	8
ALB0025	LABEL - ASTM AGE APPROPRIATE	1



The world needs play.

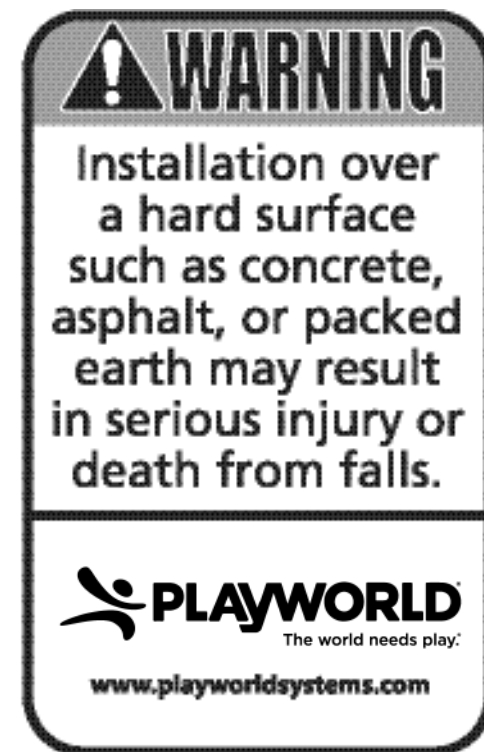
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Installation Instructions

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - ☒ Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - ☒ Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - ☒ Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - ☒ Clean dried concrete off of components and any other affected surface.
 - ☒ Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - ☒ Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - ☒ Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
 - ☒ Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- ☒ Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Fasteners

- Inspect for loose fasteners.
Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish

- Inspect metal parts for finish damage.
To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance Playworld Systems® Model XX0650 Wave Rider See-Saw



PLAYWORLD
The world needs play.™

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570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance

... for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect spring connections for tightness.	High			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes	
P = Pass	F = Fail
NA = Not Applicable	

Inspector: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature: _____ Date: ___ / ___ / ___

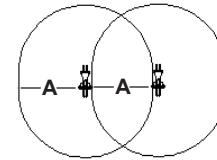
Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

- Identify all parts and thoroughly read the assembly instructions before beginning construction.
- Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.
- **ASTM compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 72 inches (1829 mm). This use zone may be overlapped by the use zone of other rocking/springing intended for sitting or stationary equipment when the seat or designated play surface is 30 inches (762 mm) or less from the protective surfacing level. See diagram.
- **CSA compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 1800 mm. The designated play surface, or seating surface must be 700 mm or less from the level of the protective surfacing. This use zone may be overlapped by the use zones of adjacent play equipment. See diagram.
- **EN Compliance:** For rocking/springing equipment intended for sitting, the use zone should extend on all sides a minimum distance of 1000 mm. This use zone may be overlapped by the use zone of other rocking/springing equipment.
- Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

Rocking/Springing Equipment
Intended for Sitting Use Zones

A = ASTM: 72 in. (1829 mm)
CSA: 1800 mm
EN: 1000 mm



Placement of multiple Spring Riders

- Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.
- After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.
- Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.
- Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**

- Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

- **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

- The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

- Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed.** All equipment must be inspected frequently for any potential hazards. Special attention must be given to moving parts and other components that can be expected to wear. Inspections must be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

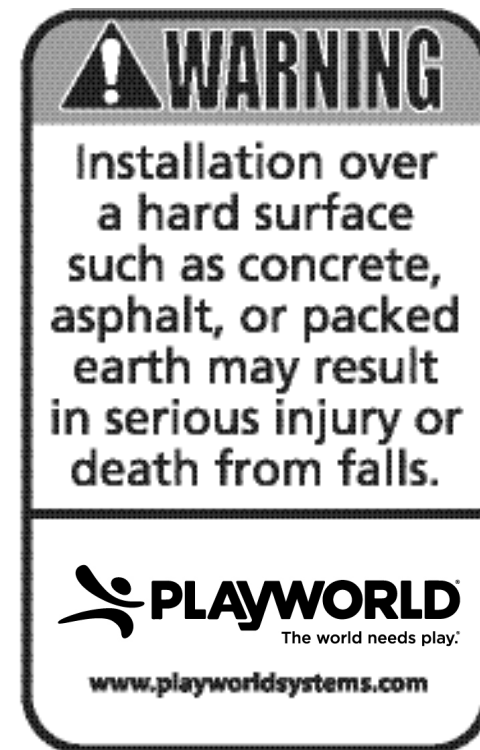
Supervision Guidelines

- Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.
- Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.
- It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.
- Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.
- Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.
- Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.

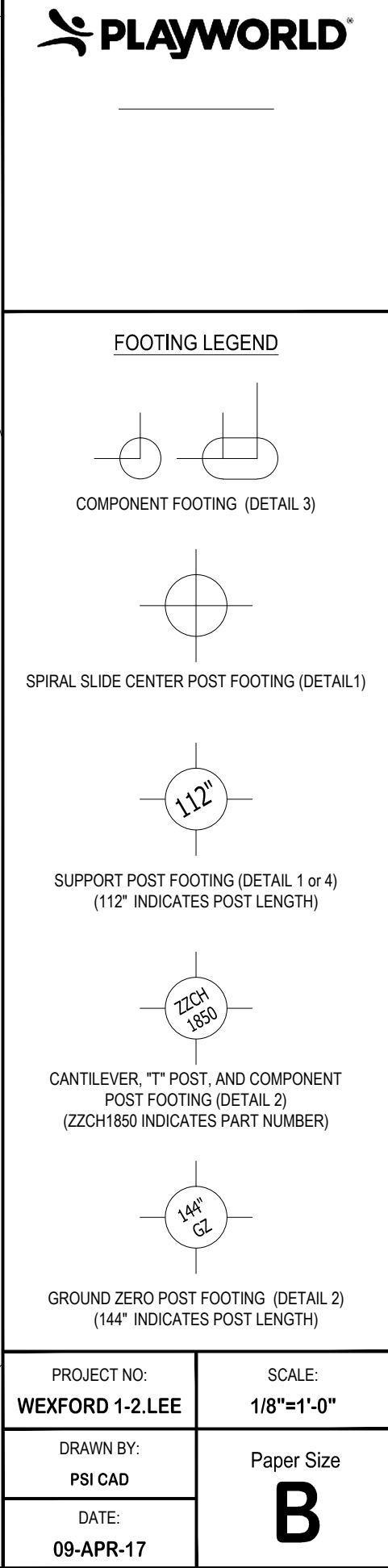
FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard or specifications appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
 - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
 - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
 - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
 - Insure all exposed pipe ends have properly installed end caps. Insure that drive rivets are secure.
 - Clean dried concrete off of components and any other affected surface.
 - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
 - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
 - Insure that protective surfacing is properly installed according to C.P.S.C. (or other appropriate body) recommendations. Footings must not be exposed.

- Insure that hard surface warning/Playworld Systems® identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.
- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



Surfacing Warning Label

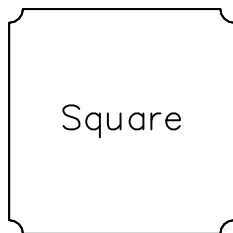


WEXFORD 1-2

DECK IDENTIFICATION

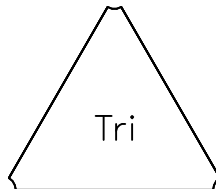
R5-1100

Page 1 of 1



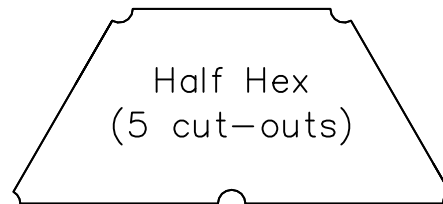
Square

R5 Deck 1



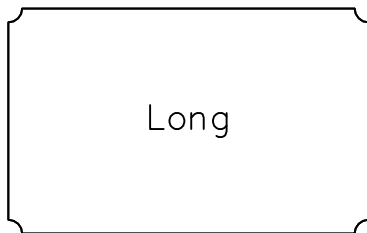
Tri

R5 Deck 2



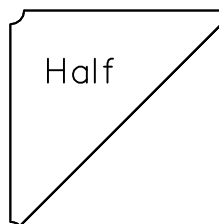
Half Hex
(5 cut-outs)

R5 Deck 4



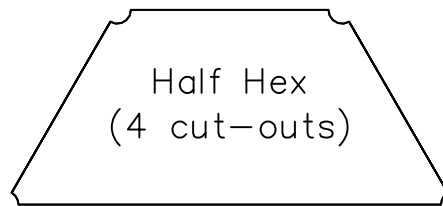
Long

R5 Deck 4



Half

R5 Deck 5

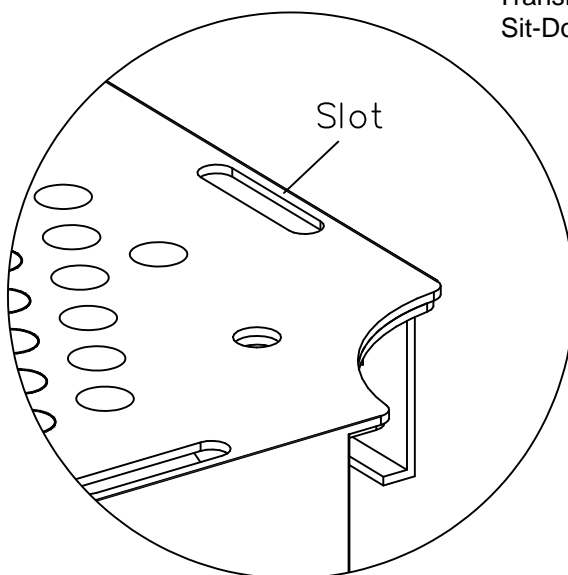


Half Hex
(4 cut-outs)

R5 Deck 6

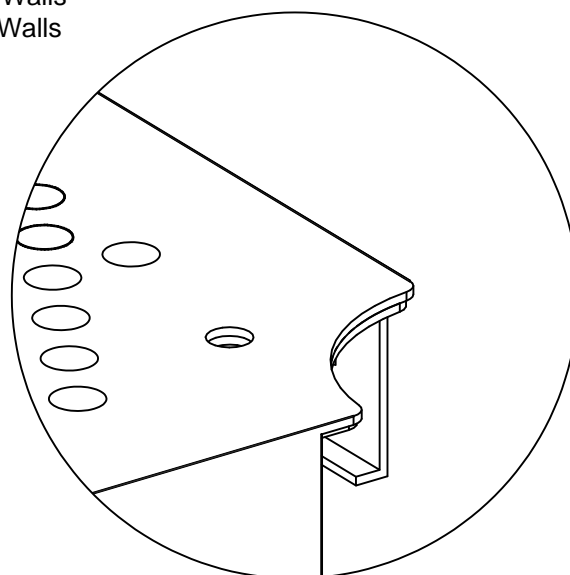
Note: Most walls
require Decks w/ slots.

Deck With Slots

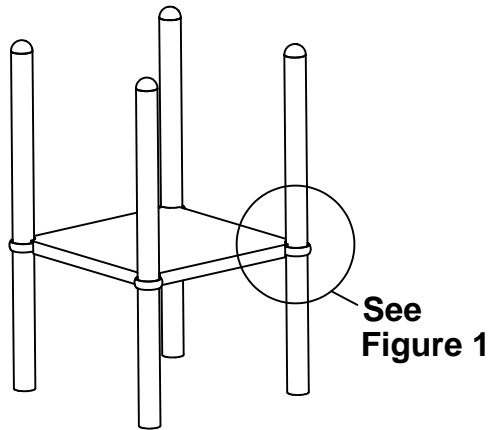


APPLIES TO:
Full Walls
Half Walls
Transition Walls
Sit-Down Walls

Deck Without Slots



Assembly View



R5 DECK 1

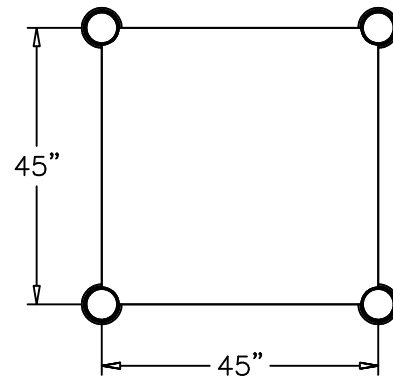
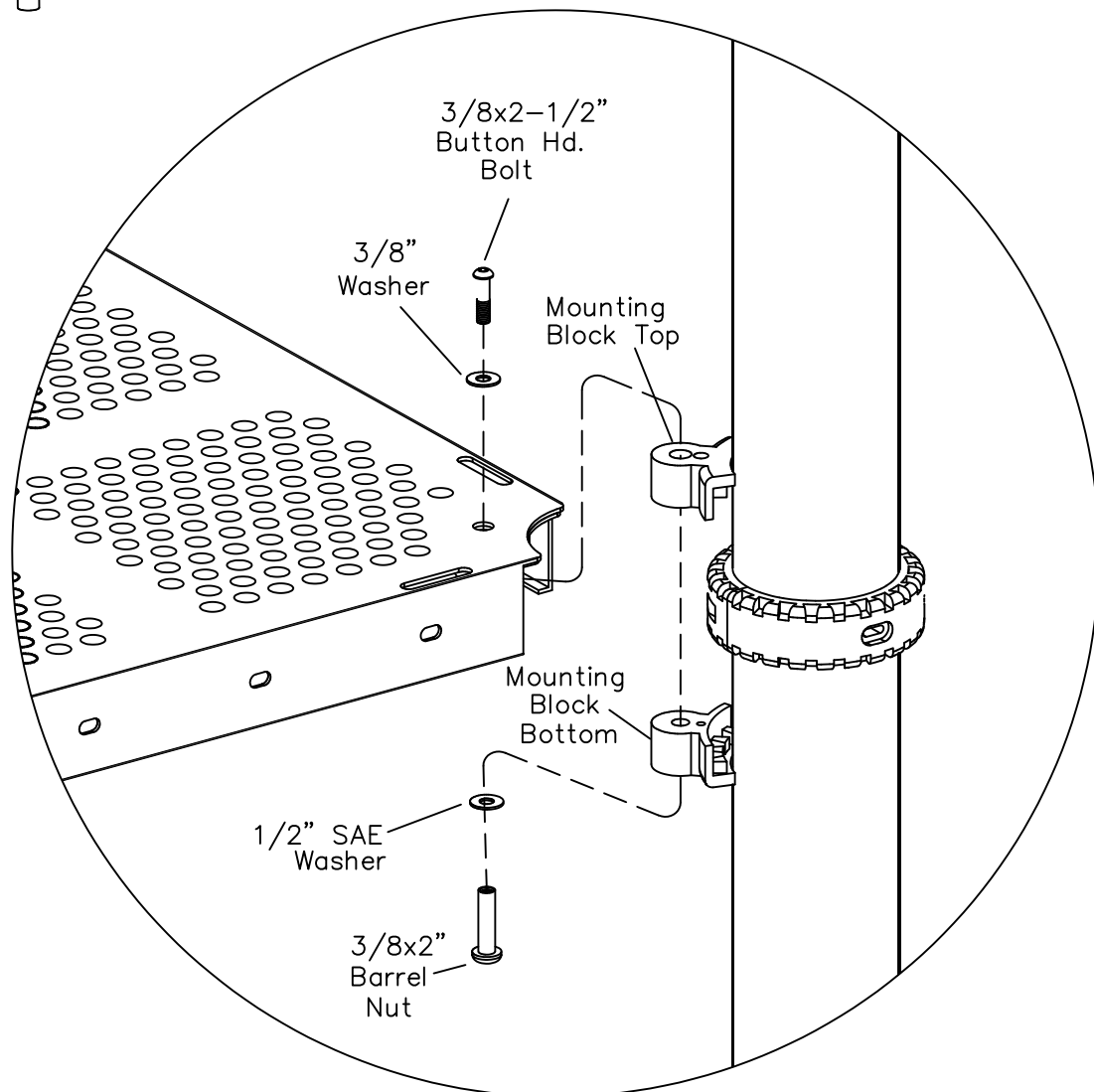


Figure 1



Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	R5 Deck 1	7008
4	Mounting Block Top	7006-T
4	Mounting Block Bottom	7006-B
4	3/8 x 2-1/2" Button Hd. Bolts	9103112-TR
4	3/8 x 2" Barrel Nuts	9443092-TR
4	3/8" Washers	9333002
4	1/2" SAE Washers	9345002

Specifications

R5 DECK 1:

Deck shall be constructed using 12 gauge sheet steel which shall be formed and fabricated into required designs. All steel decks and stepping surface shall be punched with a uniform hole pattern and be finished with slip-resistant PVC (poly-vinyl-chloride) coating.

MOUNTING BLOCKS:

Shall be two part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

Installation

Notes:

(A) All deck heights on your system's top view drawing are measured from the top of ground cover (finished grade). Post location dimensions are on centers.

(B) The collars are to be located 7/8" below the top of the deck (to the top of the collar). Refer to page R5-09 for Collar Assembly instructions.

(C) Never allow the gap between decks to be between 3-1/2" and 9". Deck fillers are provided for gaps between decks with 8" and 12" rise increments.

(D) Use liquid thread lock (such as Loctite) with all threaded hardware that does not include self-locking nuts.

Step 1.

Place Mounting Blocks on the support collars and lower Deck into place, aligning the holes with the Mounting Block holes.

Step 2.

Secure each corner of Deck to the support post's collars using hardware as shown in Figure 1 .

Step 3.

Square and level all support posts and deck assemblies. Check to ensure that all deck assemblies are at the specified heights above the ground cover level.

Step 4.

Fully tighten all fasteners.

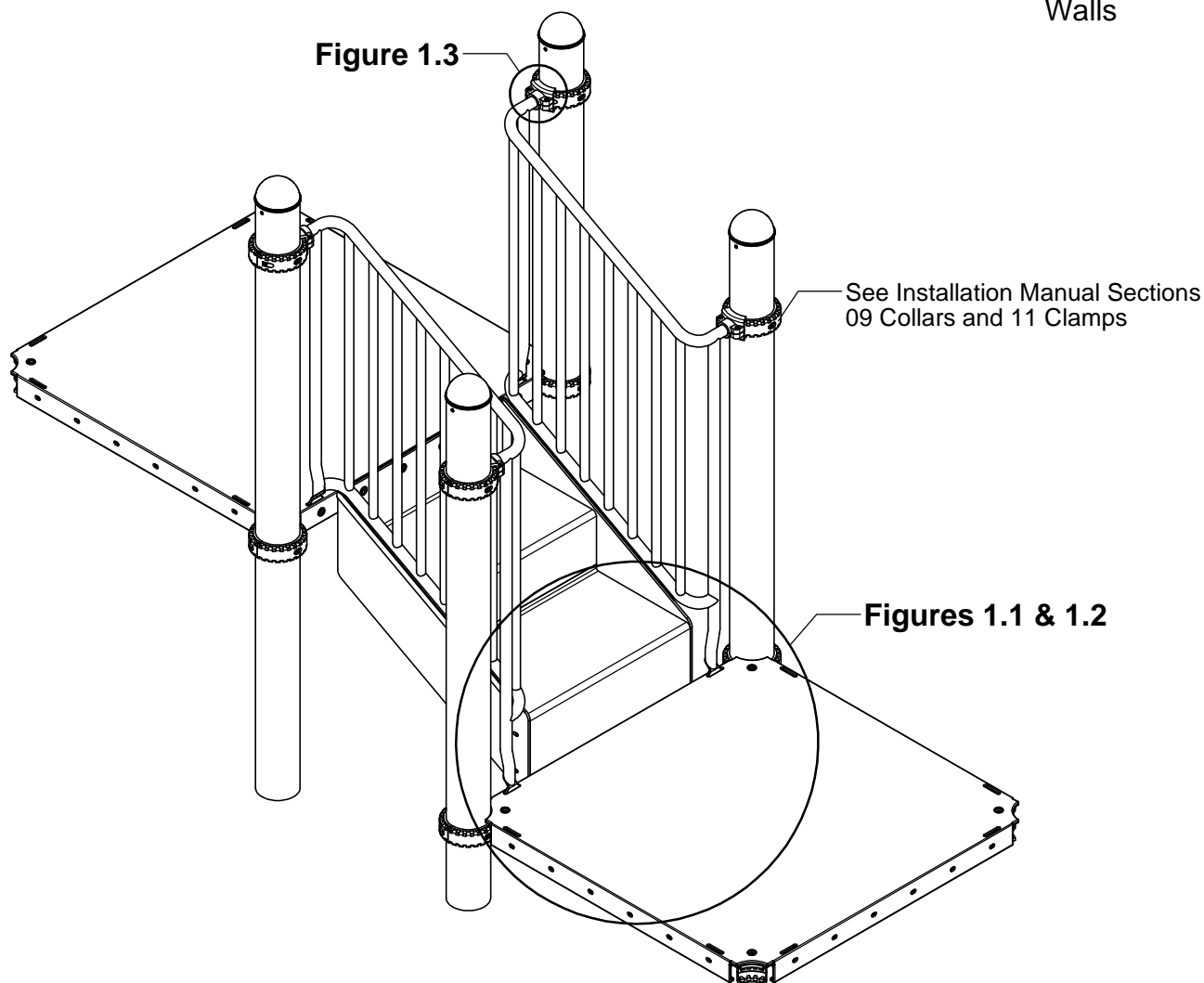
IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps installation instructions.

(C) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
24" ADA Steps w/
Walls



NOTE: R5 24" configuration shown.
Other configurations will vary slightly,
but does not affect the assembly.

Step 1

Attach ADA Steps to lower deck as shown in Figure 1.1.

Repeat for upper deck.
(See Note A)

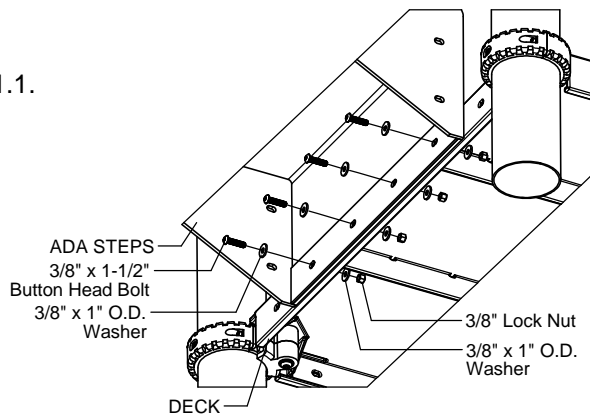


Figure 1.1

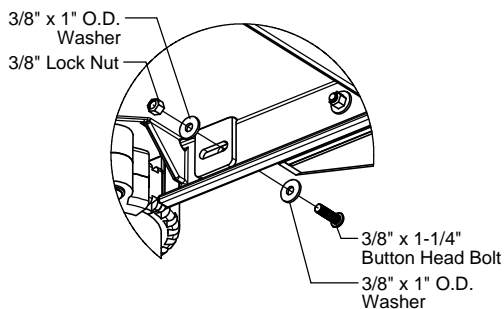


Figure 1.2

Step 3

Attach collars at height shown in Figure 2.
(See Note B)

* Height shown from top of deck to top of collar.

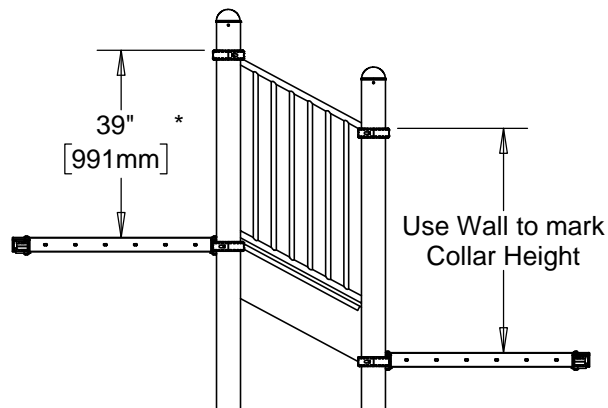


FIGURE 2

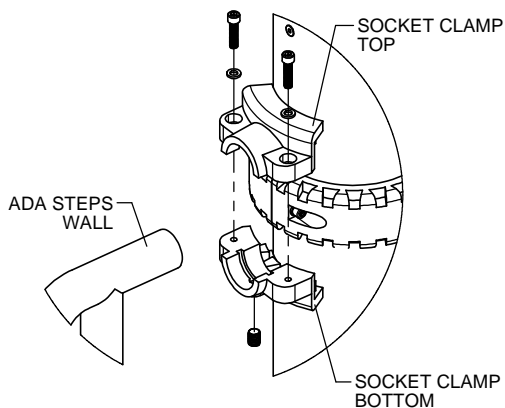


Figure 1.3

Step 4

Attach ADA Step Walls to collars as shown in Figure 1.3. (See Note B)

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Place appropriate compliant protective surfacing under and around ADA Steps.
(See Note C)

ADA STEPS w/ WALLS INSTALLATION INSTRUCTIONS

1206
Page 3 of 4

R5 Parts List

R5-1206-12 - 12" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4335	ADA Step 12-26	1
FS-1206-12R	ADA Steps 12-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-18 - 18" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4380	ADA Steps 18-26	1
FS-1206-18R	ADA Steps 18-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24 - 24" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4203	ADA Steps 24-26	1
FS-1206-24R	ADA Steps 24-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24R45 - ADA Steps w/ Walls 24"H x 45"L R5

Part #	DESCRIPTION	QTY.
CE-4911	ADA Steps 24-26-45 Run	1
FS-1206-24R45	ADA Steps 24-26-45 Wall Set	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-24RCRV - 24" Curved Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CF-0848	Curved Steps 24" Rise R5	1
FS-1206-24CRVI	Curved Steps Inner Wall 24" Rise R5	1
FS-1206-24CRVO	Curved Steps Outer Wall 24" Rise R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-30 - 30" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4194	ADA Steps 30-26	1
FS-1206-30	ADA Steps 30-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-36 - 36" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4294	ADA Steps 36-26	1
FS-1206-36R	ADA Steps 36-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-42 - 42" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-0030	ADA Steps 42-26	1
FS-1206-42R	ADA Steps 42-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R5-1206-48 - 48" ADA Steps w/ Walls R5

Part #	DESCRIPTION	QTY.
CE-4486	ADA Steps 48-26	1
FS-1206-48R	ADA Steps 48-26 Wall Set R5	1
HS-1001-R5	Socket Clamp Set R5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12



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Rev K
8/12/2016

ADA STEPS w/ WALLS INSTALLATION INSTRUCTIONS

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Page 4 of 4

R3.5 Parts List

R3.5-1206-12 - 12" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4335	ADA Step 12-26	1
FS-1206-12R35	ADA Steps 12-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-18 - 18" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4380	ADA Steps 18-26	1
FS-1206-18R35	ADA Steps 18-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-24 - 24" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4203	ADA Steps 24-26	1
FS-1206-24R35	ADA Steps 24-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-30 - 30" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4194	ADA Steps 30-26	1
FS-1206-30R35	ADA Steps 30-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-36 - 36" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4294	ADA Steps 36-26	1
FS-1206-36R35	ADA Steps 36-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-42 - 42" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-0030	ADA Steps 42-26	1
FS-1206-42R35	ADA Steps 42-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

R3.5-1206-48 - 48" ADA Steps w/ Walls R3.5		
Part #	DESCRIPTION	QTY.
CE-4486	ADA Steps 48-26	1
FS-1206-48R35	ADA Steps 48-26 Wall Set R3.5	1
HS-1001-R35	Socket Clamp Set R3.5	4
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	24
9413002	Nut Lock 3/8"	12

Specifications

ADA STEPS:

Shall be made using punched, formed, and welded 12 gauge sheet steel with reinforcing cross members and gussets. The ADA Steps shall be Play-Tuff™ coated after fabrication.

ADA STEP WALLS:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.029" O.D. 14 gauge steel rungs and 1/4" thick steel brackets. The ADA Step Walls shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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IMPORTANT NOTES: Read First

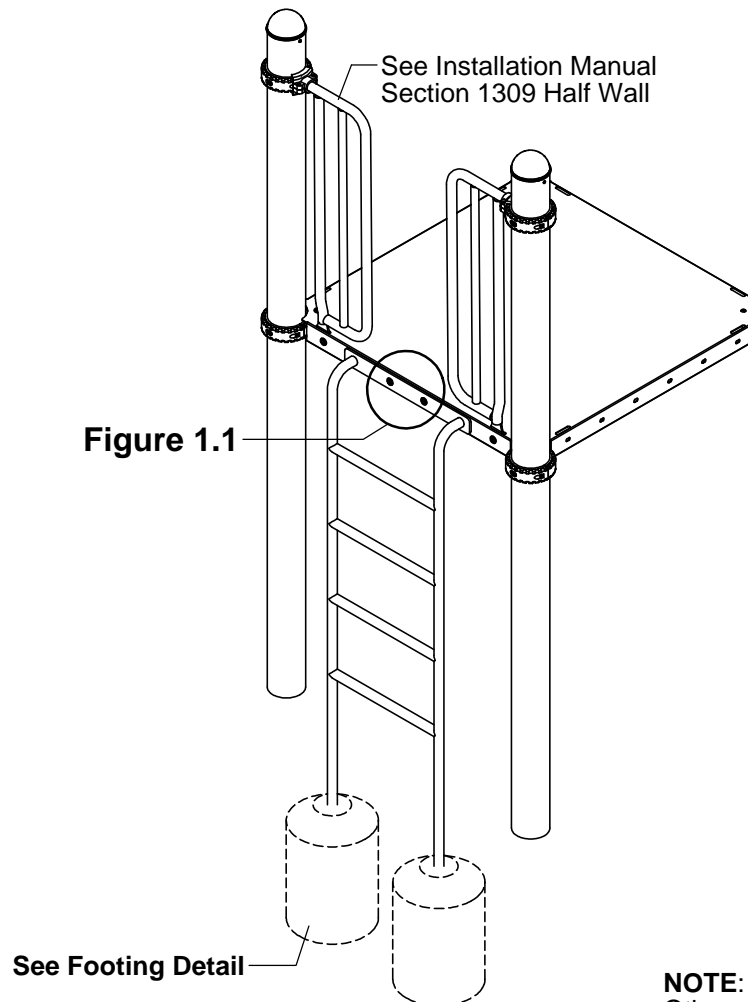
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 1309 Half Wall installation instructions.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Vertical Ladder



NOTE: R5 5' Vertical Ladder shown.
Other configurations will vary slightly,
but does not affect assembly.

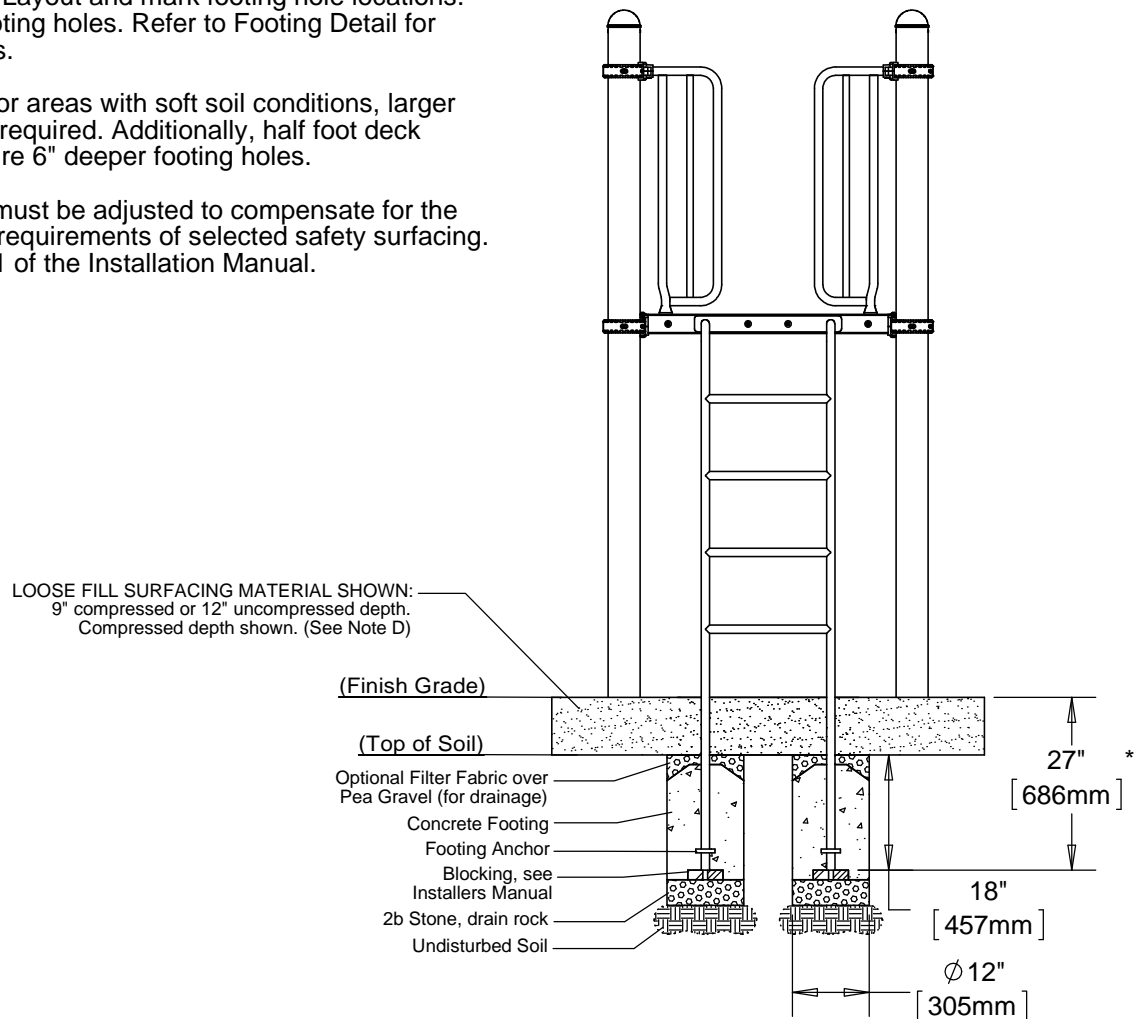
Step 1

Refer to Footing Layout and mark footing hole locations. Dig (2) Ø 12" footing holes. Refer to Footing Detail for depth and details.

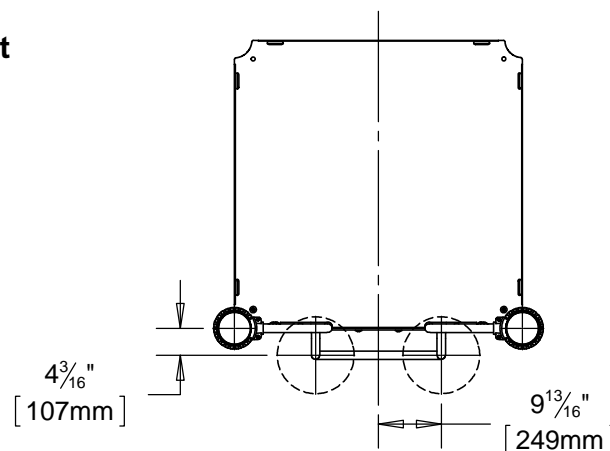
IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, half foot deck heights will require 6" deeper footing holes.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

Footing Detail



Top View - Footing Layout



Step 2

Attach Half Walls to Deck. Place Vertical Ladder into footing holes and attach to deck as shown in Figure 1.1. (See Notes A & C)

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 4

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 5

Place required protective surfacing under and around Vertical Ladder. (See Note D)

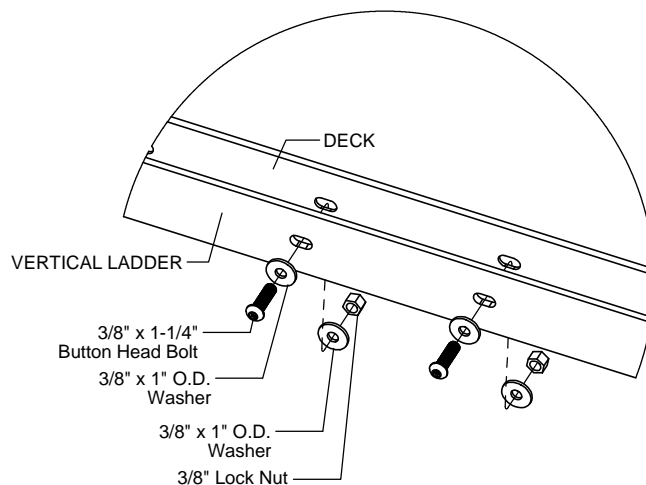


Figure 1.1

Parts List

Part #	DESCRIPTION	QTY.
Varies	Vertical Ladder	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

Specifications

VERTICAL LADDER:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.315" O.D. 12 gauge steel rungs and 1/4" thick steel mounting plate. The Vertical Ladder shall have a multi-stage baked-on powder coat finish.

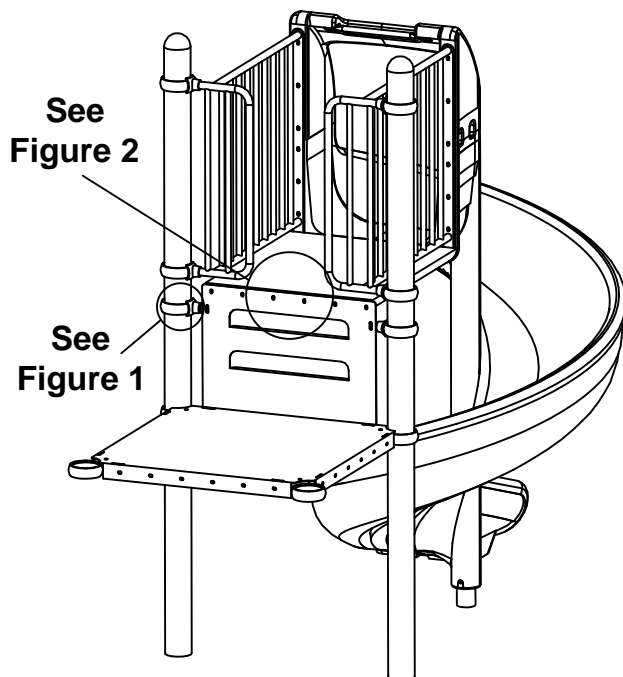
HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

Assembly View



Side View

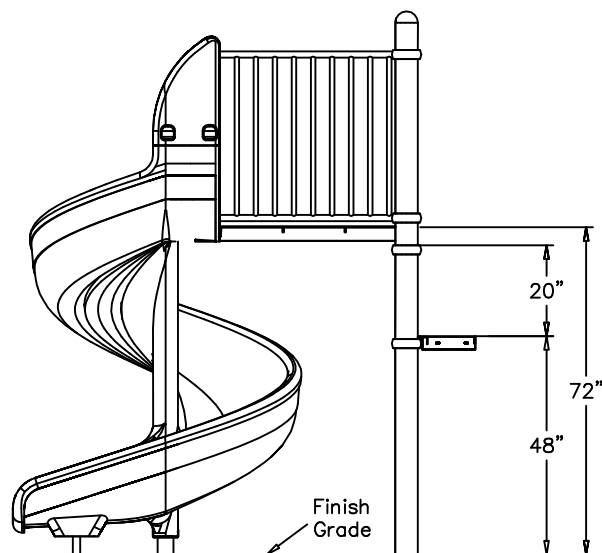


Figure 1

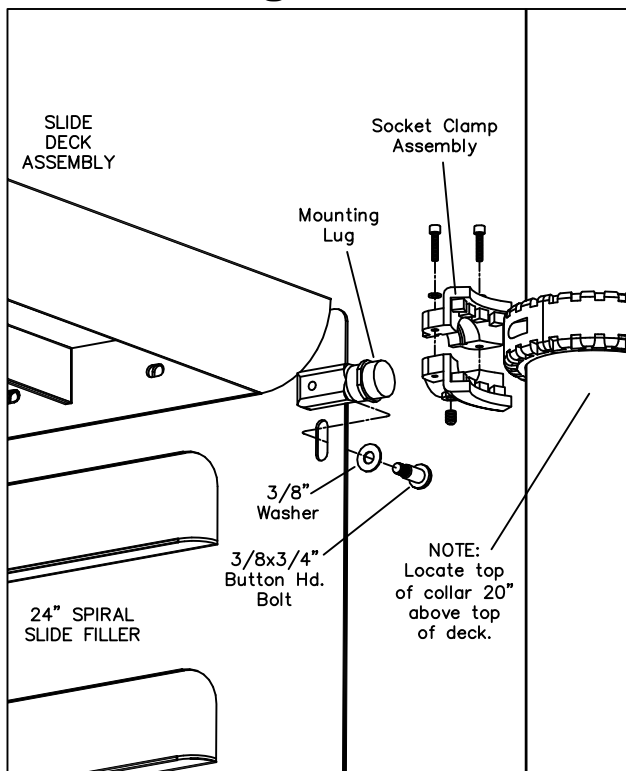
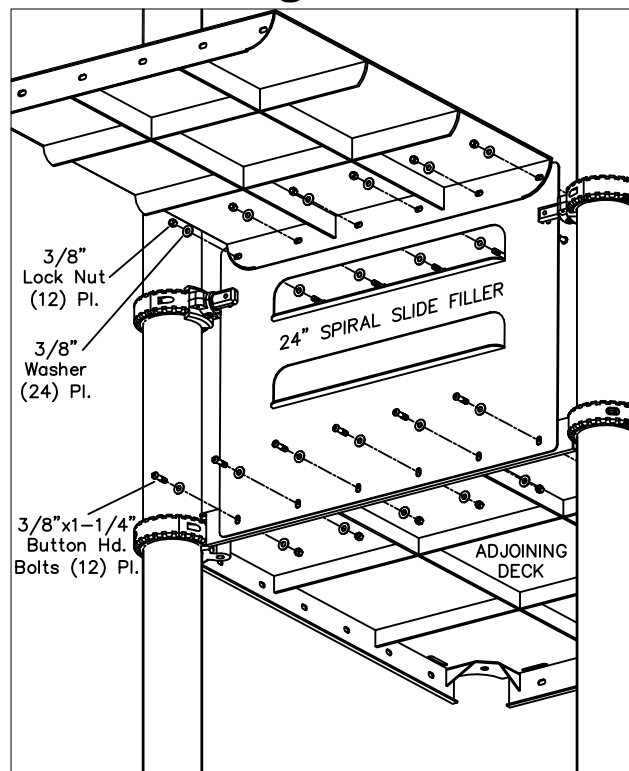


Figure 2



Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	Vert Step Spiral Slide 24"H R5	7221
2	Socket Clamp Set	See Pg. 11
2	Mounting Lugs	7007
12	3/8 x 1-1/4" Button Hd. Bolts	9103062-TR
2	3/8 x 3/4" Button Hd. Bolts	9103032-TR
26	3/8" Washers	9333002
12	3/8" Lock Nuts	9413002

Specifications

SPIRAL SLIDE FILLER:

Shall be fabricated of 10 guage steel. Designed to provide in-fill for a 24" rise between Spiral Slide and Adjoining Deck. Part is finished with a PVC Coating.

MOUNTING LUGS:

Shall be precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

Installation

Note: (C) Use liquid thread lock (such as Loctite) with all threaded hardware.

Important: Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Step 1.

Locate Collars as shown in Side View. Refer to Pg. R5-09 for collar assembly to post.

Step 2.

Attach Filler to Socket Clamps as shown in Figure 1. Refer to Pg. 11 for typical Socket Clamp set assembly.

Step 3.

Attach Filler to Spiral Slide Deck and Adjoining Deck as shown in Figure 2.

Step 4.

Fully tighten all fasteners.

IMPORTANT NOTES: Read First

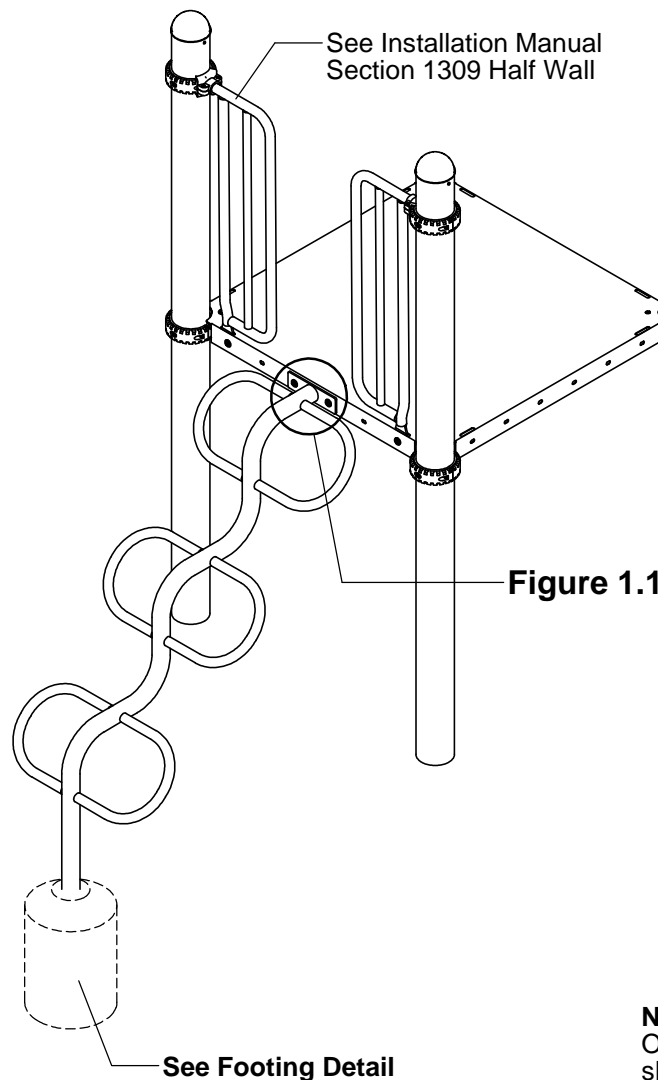
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 09 Collars, 11 Socket Clamps, and 1309 Half Wall installation instructions.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Centipede Climber



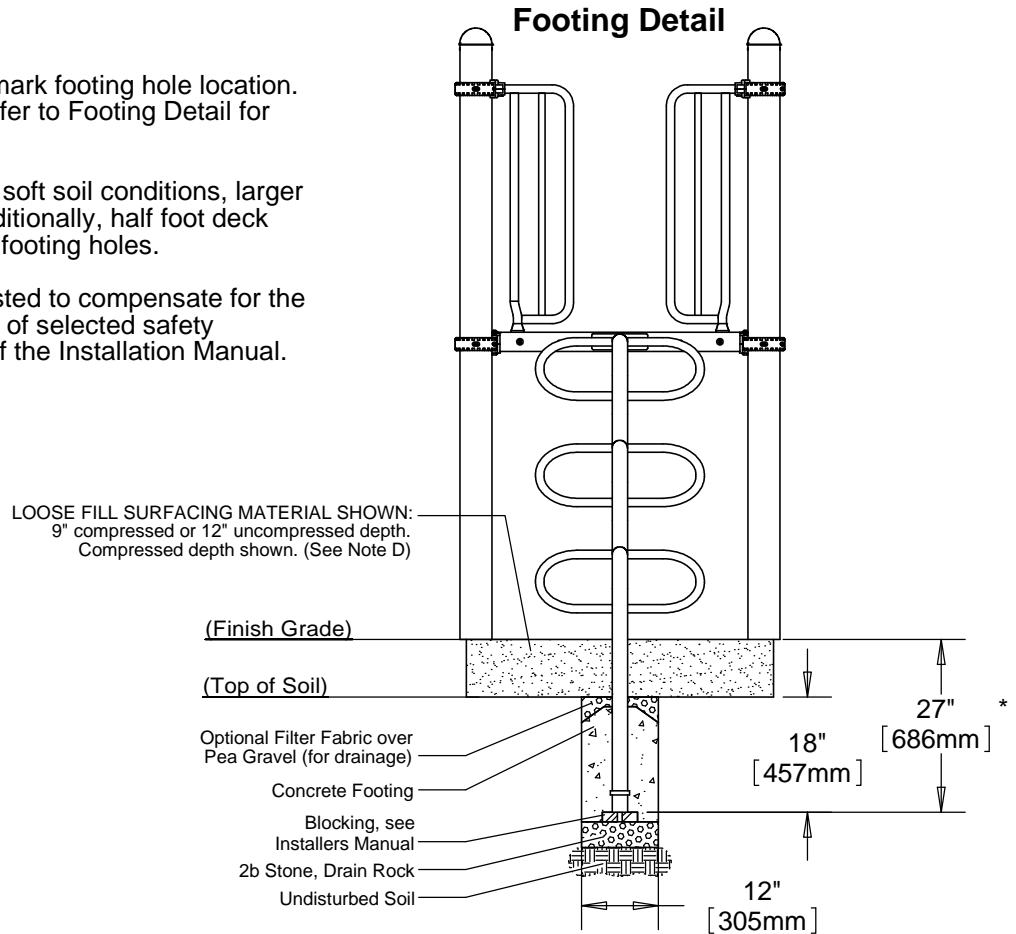
NOTE: R5 4' deck height shown.
Other configurations will vary slightly, but does not affect assembly.

Step 1

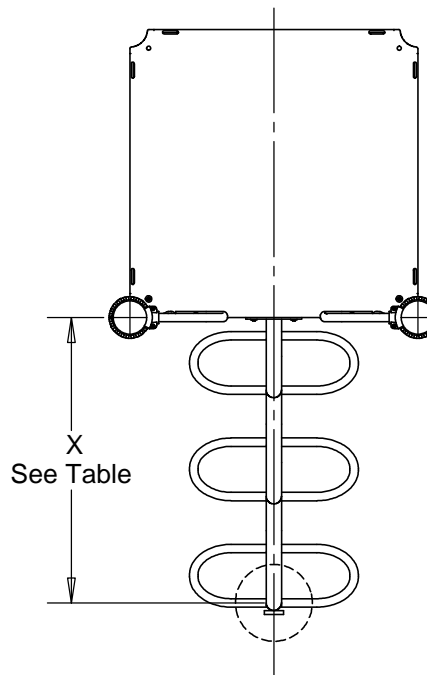
Refer to Footing Layout and mark footing hole location. Dig (1) Ø 12" footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, half foot deck heights will require 6" deeper footing holes.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.



Top View - Footing Layout



Footing Distance Table

Center of Post to Center of Footing (Approx.)

Deck Height	x (in.)	x (mm)
30", 36"	28	710
42", 48", 54"	44-9/16	1133
60", 72"	61-3/16	1555

Step 2

Attach Half Walls to deck. Place Centipede Climber into footing hole and attach to deck as shown in Figure 1.1. (See Notes A & C)

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 4

Plumb and level entire component. Pour concrete into footing hole(s). Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 5

Place required protective surfacing under and around Centipede Climber. (See Note D)

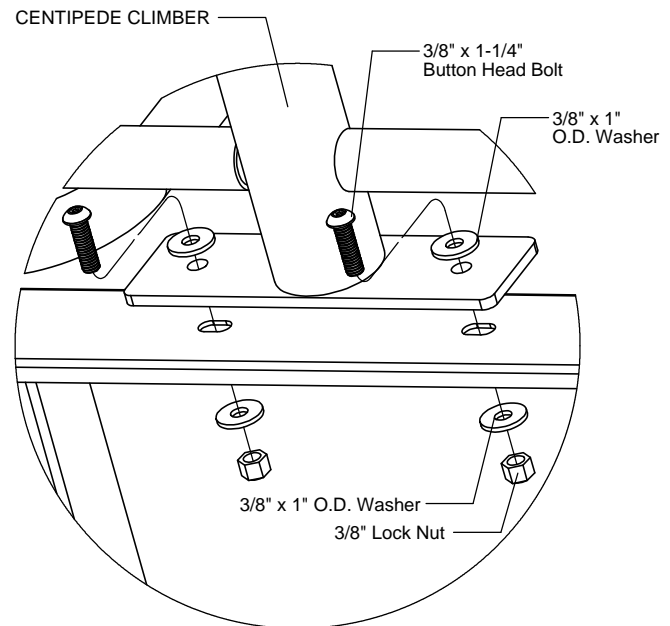


Figure 1.1

Parts List

Part #	DESCRIPTION	QTY
Varies	Centipede Climber	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413002	Nut Lock 3/8"	2

Specifications

CENTIPEDE CLIMBER:

Shall be fabricated from 2.375" O.D. 10 gauge steel tubing center rail with 1.315" O.D. 12 gauge steel tubing loops welded on. Centipede Climber shall have multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

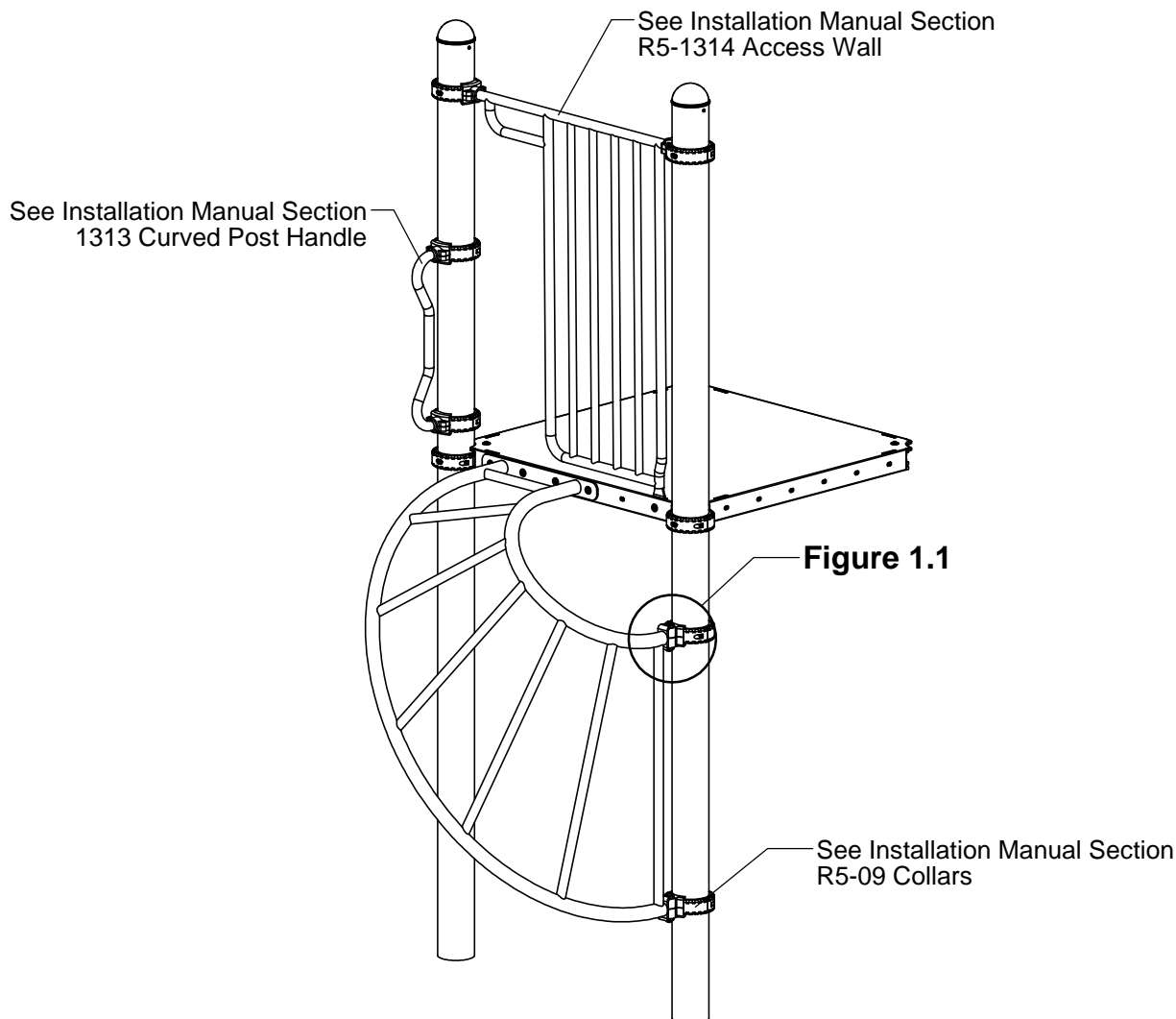
IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for R5-09 Collars, 1313 Curved Post Handle and R5-1314 Access Wall installation instructions.

(C) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Sunrise Climber



NOTE: R5 5' deck height Sunrise Climber right side shown. Other configurations will vary slightly, but does not affect assembly.

Step 1

Locate and attach collars at height shown in Elevation View. (See Note B)

* Height shown from top of deck to top of collar.

** Height shown from top of collar to top of collar.

*** Height shown from finish grade to top of collar.

Elevation View

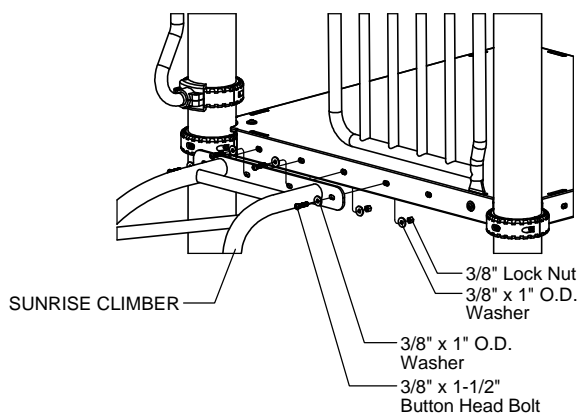
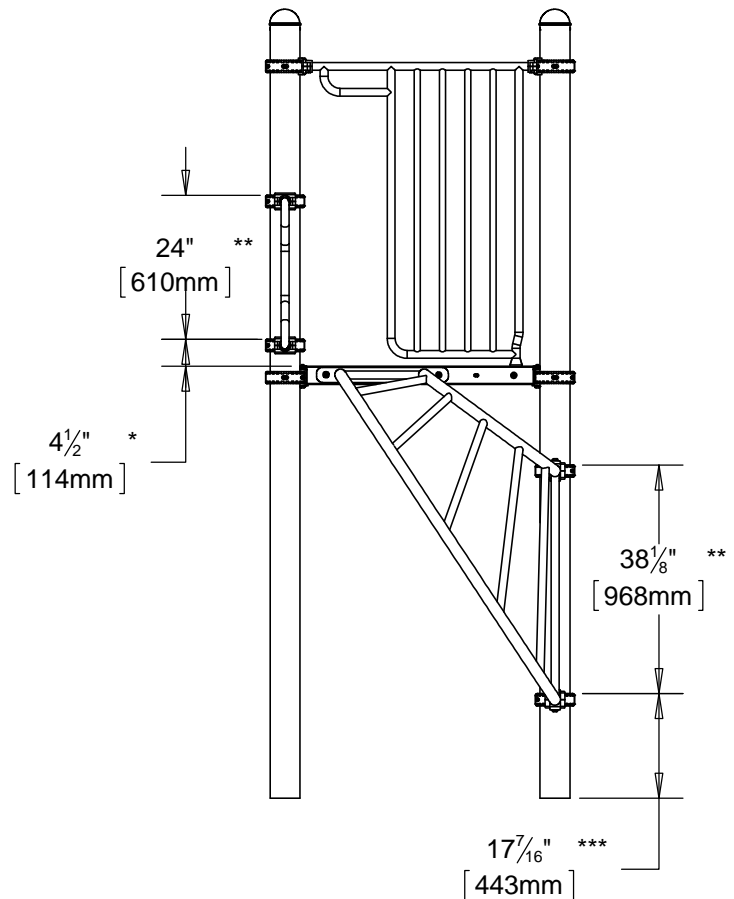


FIGURE 2

Step 2

Attach Sunrise Climber to deck as shown in Figure 2. (See Note A)

Step 3

Attach Sunrise Climber to collars as shown in Figure 1.1. (See Note A)

Step 4

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 5

Place required protective surfacing under and around Sunrise Climber. (See Note C)

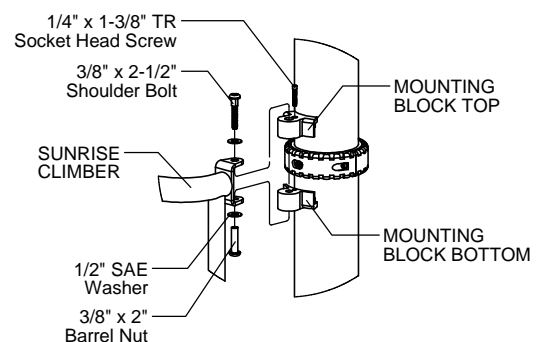


Figure 1.1

SUNRISE CLIMBER R5 INSTALLATION INSTRUCTIONS

R5-12801
Page 3 of 3

Parts List

Part #	DESCRIPTION	QTY.
FS-12801-R5	Sunrise Climber R5	1
GF-7006-B	Mounting Block R5 Bottom	2
GF-7006-T	Mounting Block R5 Top	2
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	2
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	8
9345002	Washer Flat SAE 1/2"	4
9413002	Nut Lock 3/8"	4
9443092-TR	Nut Barrel 3/8" x 2" BH	2

Specifications

SUNRISE CLIMBER R5:

Shall be fabricated using 1.315" O.D. 12 gauge steel rungs with welded 1.900" O.D. 11 gauge steel frame, 1/4" thick steel mounting plate and clevises. The Sunrise Climber R5 shall have a multi-stage baked-on powder coat finish.

MOUNTING BLOCKS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Mounting Blocks have a multi-stage baked-on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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IMPORTANT NOTES: Read First

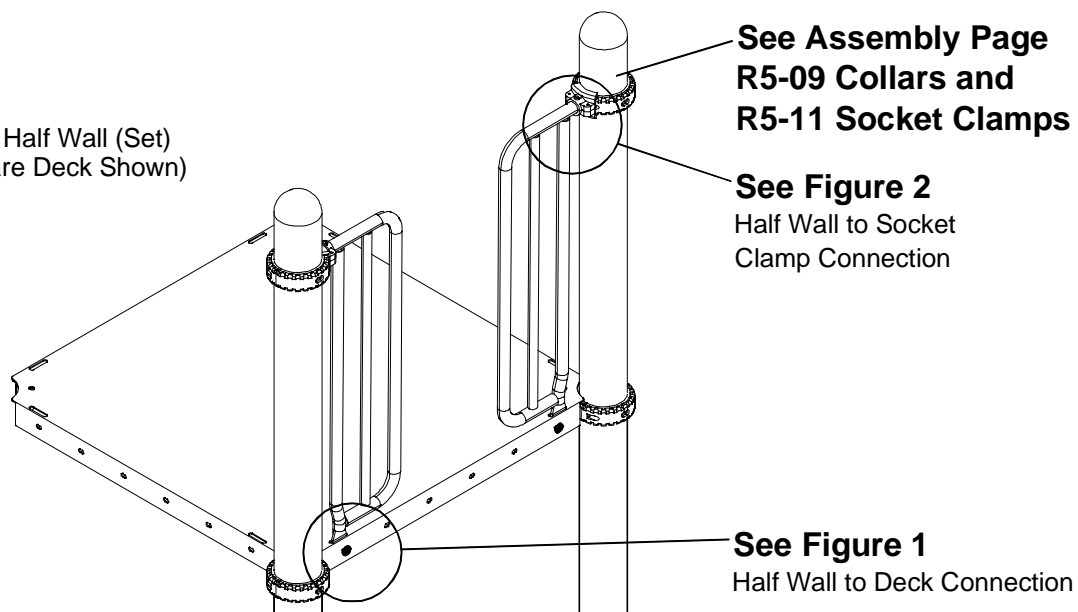
(A) Use liquid thread lock (such as Loctite[®]) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars and R5-11 Socket Clamps.

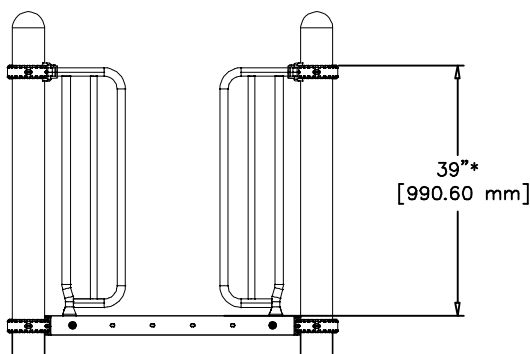
(C) Collar Locations: The Collar is to be placed 39" from top of the collar to top of the deck.

Assembly Views

Standard Half Wall (Set)
and Square Deck Shown)

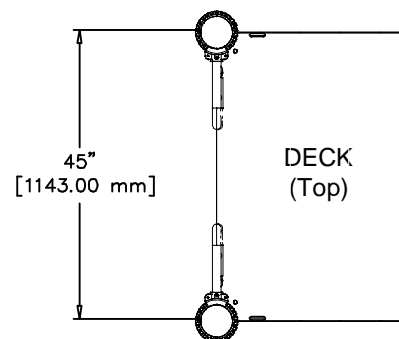


*Dimension
given is
from Top of
Deck to Top
of Collar.



Elevation

Front View



Footing Layout

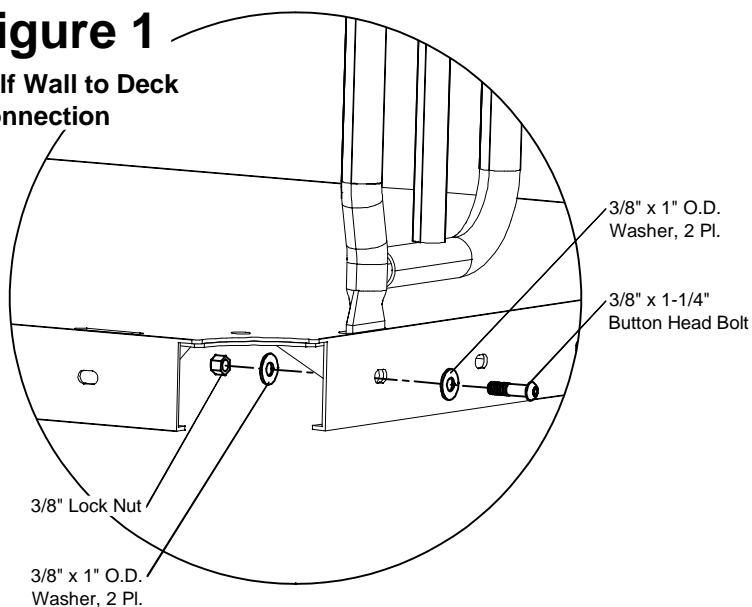
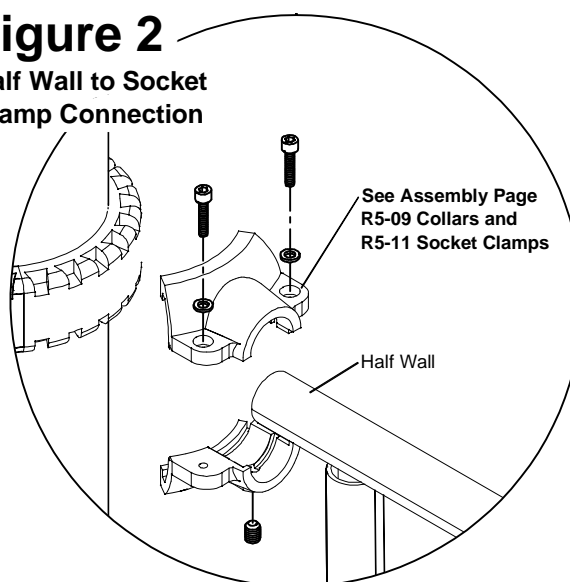
Top View



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Rev G

Figure 1**Half Wall to Deck
Connection****Figure 2****Half Wall to Socket
Clamp Connection**

Parts List

(1) Half Wall (Handle)

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
-VARIES-	Half Wall	1
See Pg. R5-11	Socket Clamp Assembly	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	1
9333002	Washer Flat 3/8" x 1" x .100 thick	2
9413002	Nut Lock 3/8"	1

Half Wall Options

<u>PART #</u>	<u>DESCRIPTION</u>
FS-1309-R	Half Wall R5
FS-1309-R-TRNFR	Half Wall Transfer R5
FS-1309-RADA	Half Wall ADA Steps R5

Installation

Step 1.

Locate and mark the position of the Collars on the Support Posts. Refer to Elevation View for Collar locations. See Note C. See also Assembly Page R5 - 09 Collars for hardware type and orientation.

Step 2.

Loosely attach the Half Wall to the Deck. Verify left or right hand location on Top View of structure prior to installation. Refer to Figure 1 for hardware type and orientation.

Step 3.

Loosely attach the Half Wall to the Post Collars using the Socket Clamps. Refer to Figure 2 for hardware type and orientation. See also Assembly Page R5-11 Socket Clamps for additional hardware details.

Step 4.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Specifications

HALF WALL R5:

Shall be constructed of 1.315" O.D., 12 gauge steel tubing outer rails with 1.029" O.D., 14 gauge steel tubing welded vertically. The Half Wall may also have welded mounting tabs and/or plates. The Half Wall R5 has a multi-stage baked on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

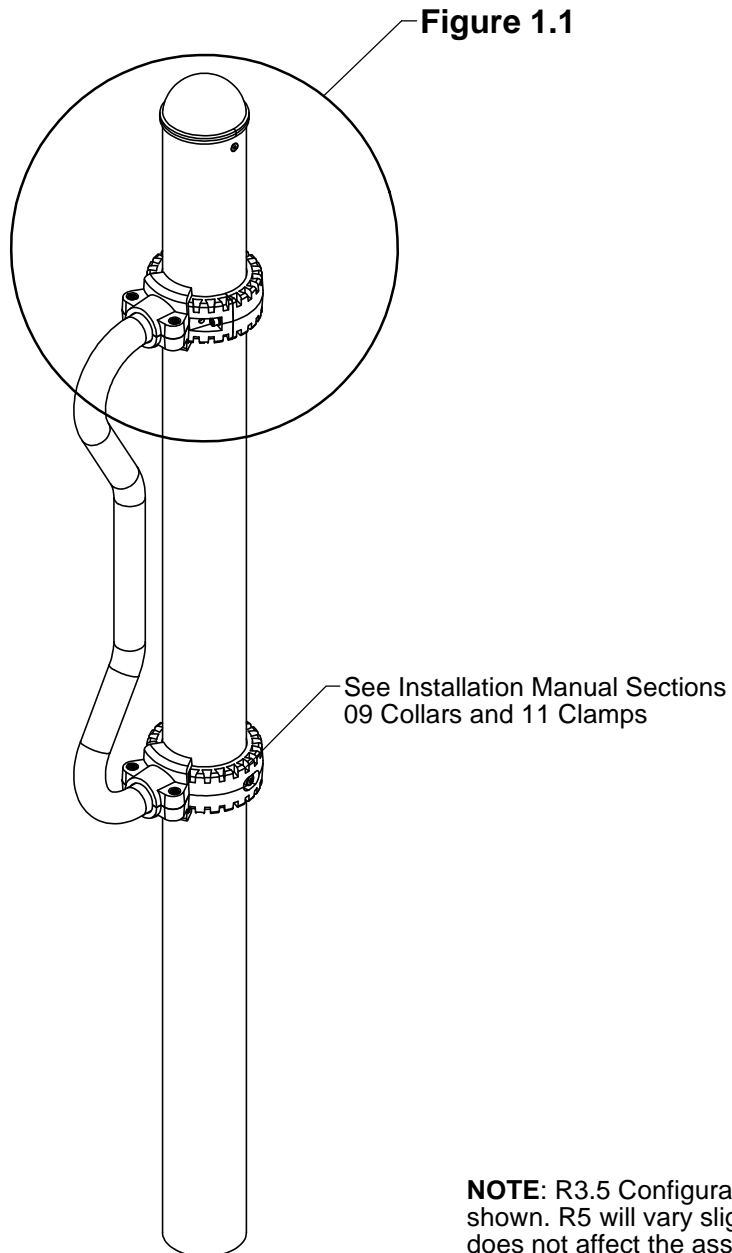


IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps assembly instructions.

FIGURE 1
Curved Post Handle



NOTE: R3.5 Configuration shown. R5 will vary slightly, but does not affect the assembly.

Step 1

Locate collars at height shown in Side Elevation.
(See Note B).

Step 2

Attach Curved Post Handle to collars as shown in Figure 1.1. (See Notes A & B)

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

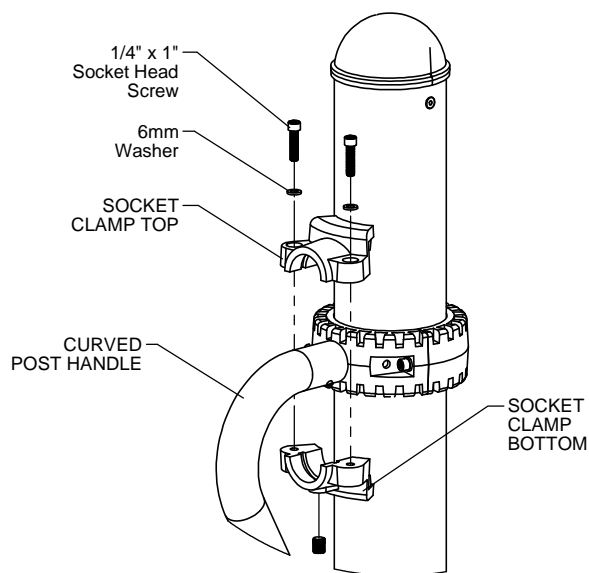
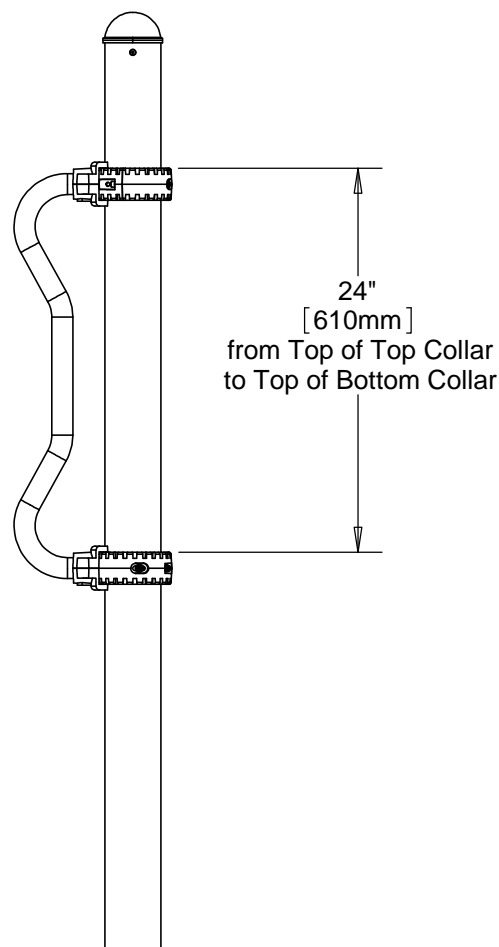


Figure 1.1



SIDE ELEVATION

R3.5 Parts List

Part #	DESCRIPTION	QTY.
HS-1001-R35	Socket Clamp Set R3.5	2
FS-1313	Curved Post Handle	1

R5 Parts List

Part #	DESCRIPTION	QTY.
HS-1001-R5	Socket Clamp Set R5	2
FS-1313	Curved Post Handle	1

Specifications

CURVED POST HANDLE:

Shall be 1.315" O.D. 12 gauge steel tubing. Handle shall have a multi-stage baked-on powder coat finish.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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Assembly View

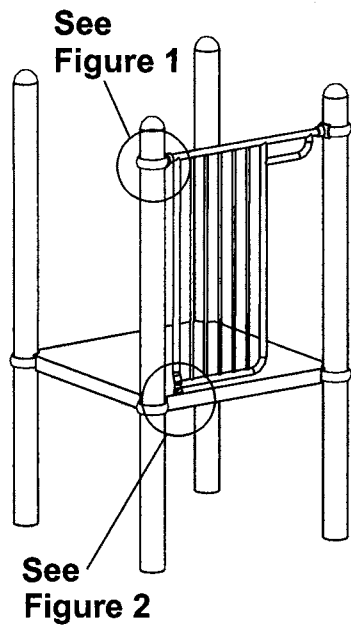


Figure 1

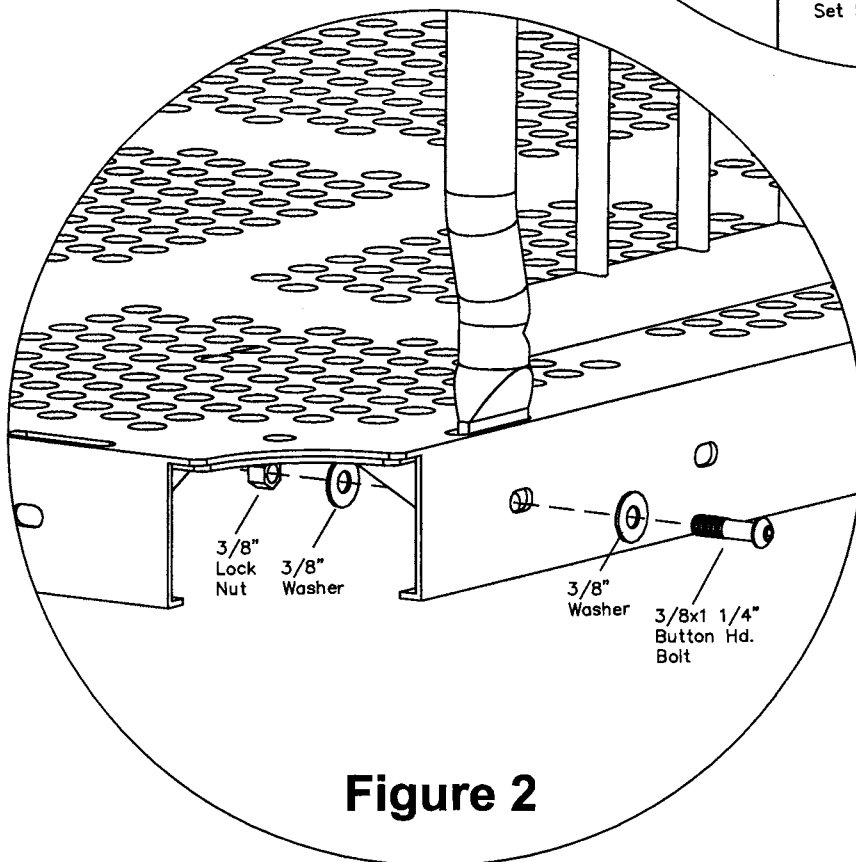
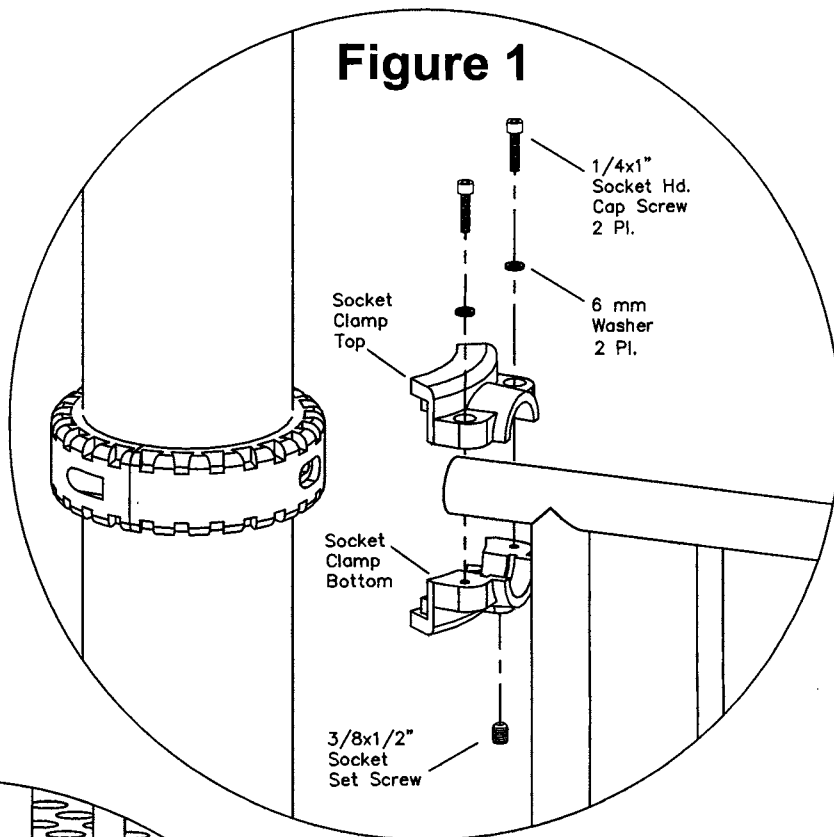


Figure 2

Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	Wall	1314-R
2	Socket Clamp Tops	7004
2	Socket Clamp Bottoms	7005
1	3/8 x 1 1/4" Button Hd Bolts	9103062-TR
4	1/4 x 1" Socket Hd. Cap Screws	9281052
2	3/8 x 1/2" Socket Set Screw	9263012
4	6 mm Washers	9333602
2	3/8" Washers	9333002
1	3/8" Lock Nuts	9413002

Installation

Notes:

(A) Locate the top of collars 39" up from the top of the deck.

Step 1.

Mark the position of the collars on the support post and attach to the support posts using the hardware shown on the collar assembly page R5-09.

Step 2.

Attach the Socket Clamps to the collars and the Access Wall using the hardware shown in Figure 1.

Step 3.

Attach the base of the Wall using the hardware shown in Figure 2.

Step 4.

Fully tighten all fasteners.

Specifications

WALL:

Shall be fabricated of 5/8" round bar stock welded vertically between the top and bottom 1" Sch. 40 pipe rails.

SOCKET CLAMPS:

Shall be two part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

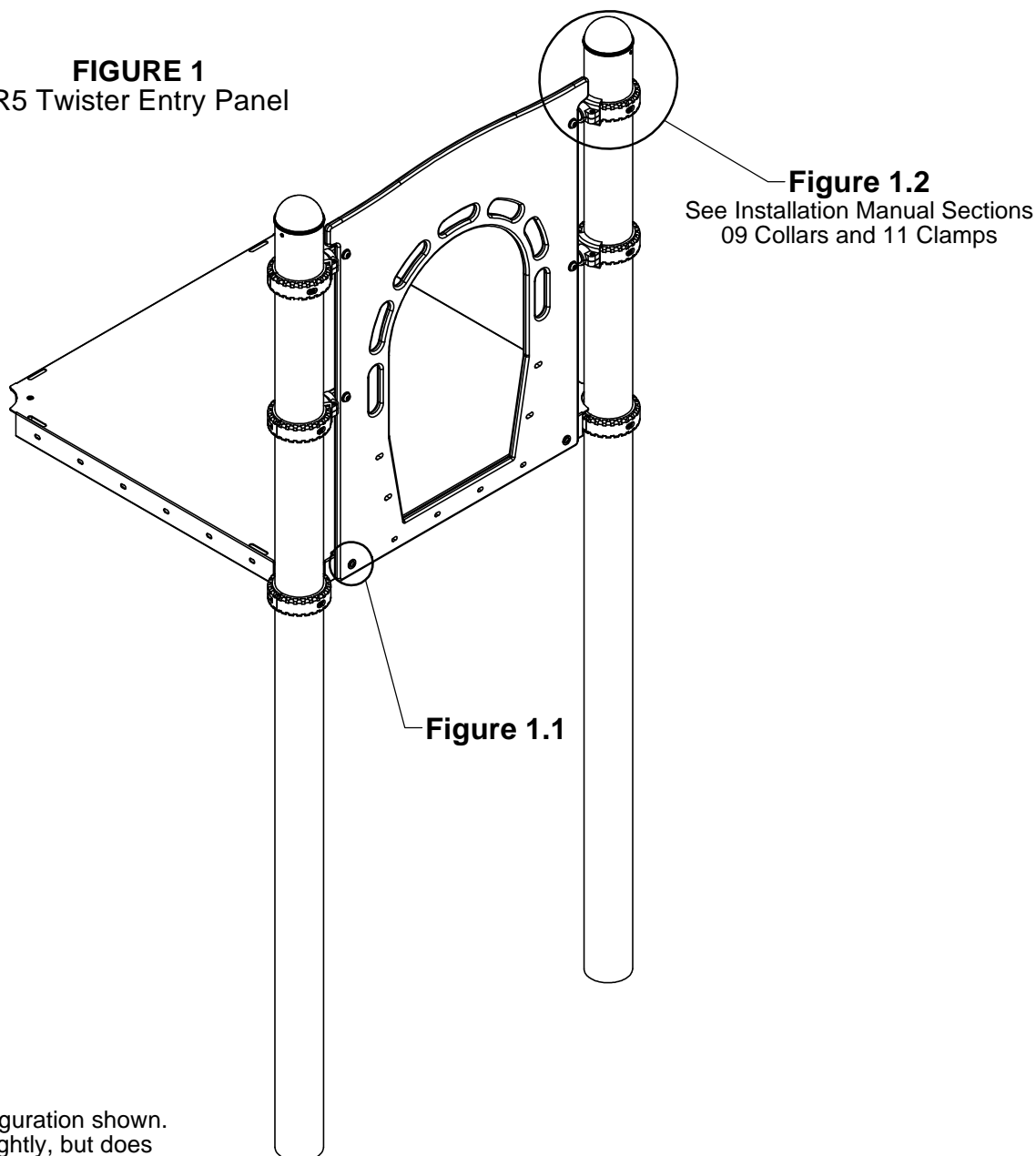
Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and 11 Socket Clamps assembly instructions.

FIGURE 1
R5 Twister Entry Panel



NOTE: R5 Configuration shown.
R3.5 will vary slightly, but does
not affect the assembly.

Step 1

Attach collars at heights shown in Figure 2.
(See Note B)

* Height shown from top of deck to top of collar.

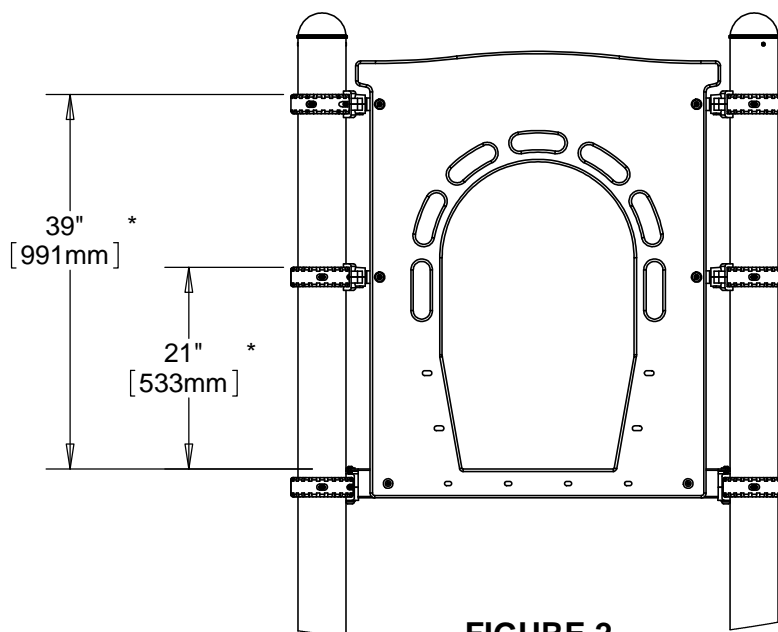


FIGURE 2

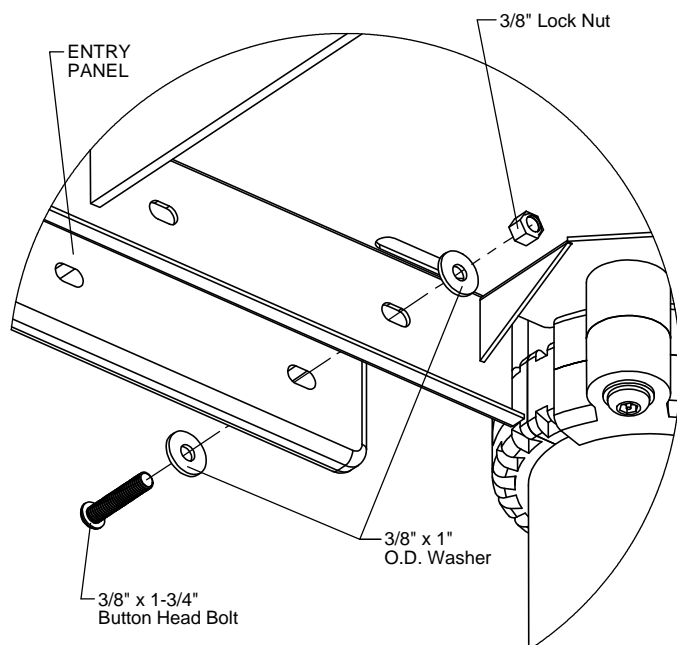


Figure 1.1

Step 2

Attach Entry Panel to deck as shown in Figure 1.1.
(See Note A)

Step 3

Attach Entry Panel to collars as shown in Figure 1.2.
(See Notes A and B)

Step 4

Fully tighten all fasteners according to the
"TIGHTENING TORQUE FOR HARDWARE" section
of the Installation Manual.

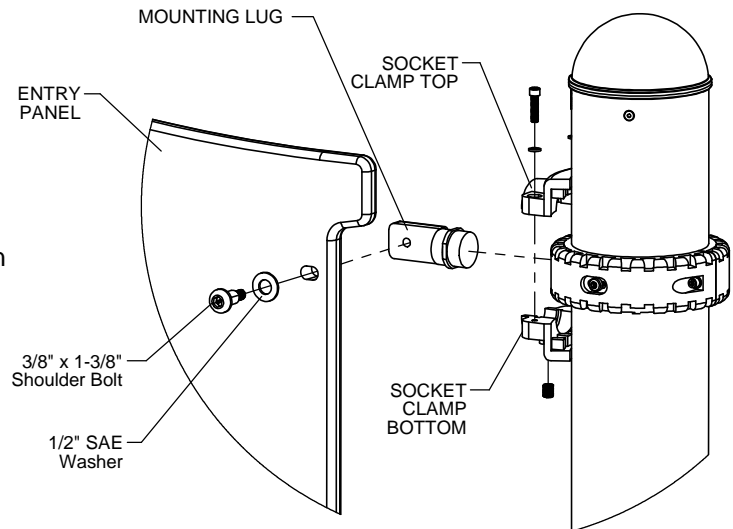


Figure 1.2

Parts List

R5-1316 - Twister Entry Panel R5		
Part #	DESCRIPTION	QTY.
EF-7091	Twister Entry Panel	1
GF-7007	Mounting Lug R5	4
HS-1001-R5	Socket Clamp Set R5	4
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	2
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9345002	Washer Flat SAE 1/2"	4
9413002	Nut Lock 3/8"	2

R3.5-1316 - Twister Entry Panel R3.5		
Part #	DESCRIPTION	QTY.
EG-8196	Twister Sit Down Panel R3.5	1
GG-8113	Mounting Lug R3.5	4
HS-1001-R35	R3.5 Socket Clamp Set	4
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	2
9143062-TR	Bolt Shoulder 3/8" x 1-3/8" BH	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9345002	Washer Flat SAE 1/2"	4
9413002	Nut Lock 3/8"	2

Specifications

TWISTER ENTRY PANEL:

Shall be made from high density 3/4" thick hot extruded polyethylene sheet plastic specially formulated for optimum UV stability and color retention.

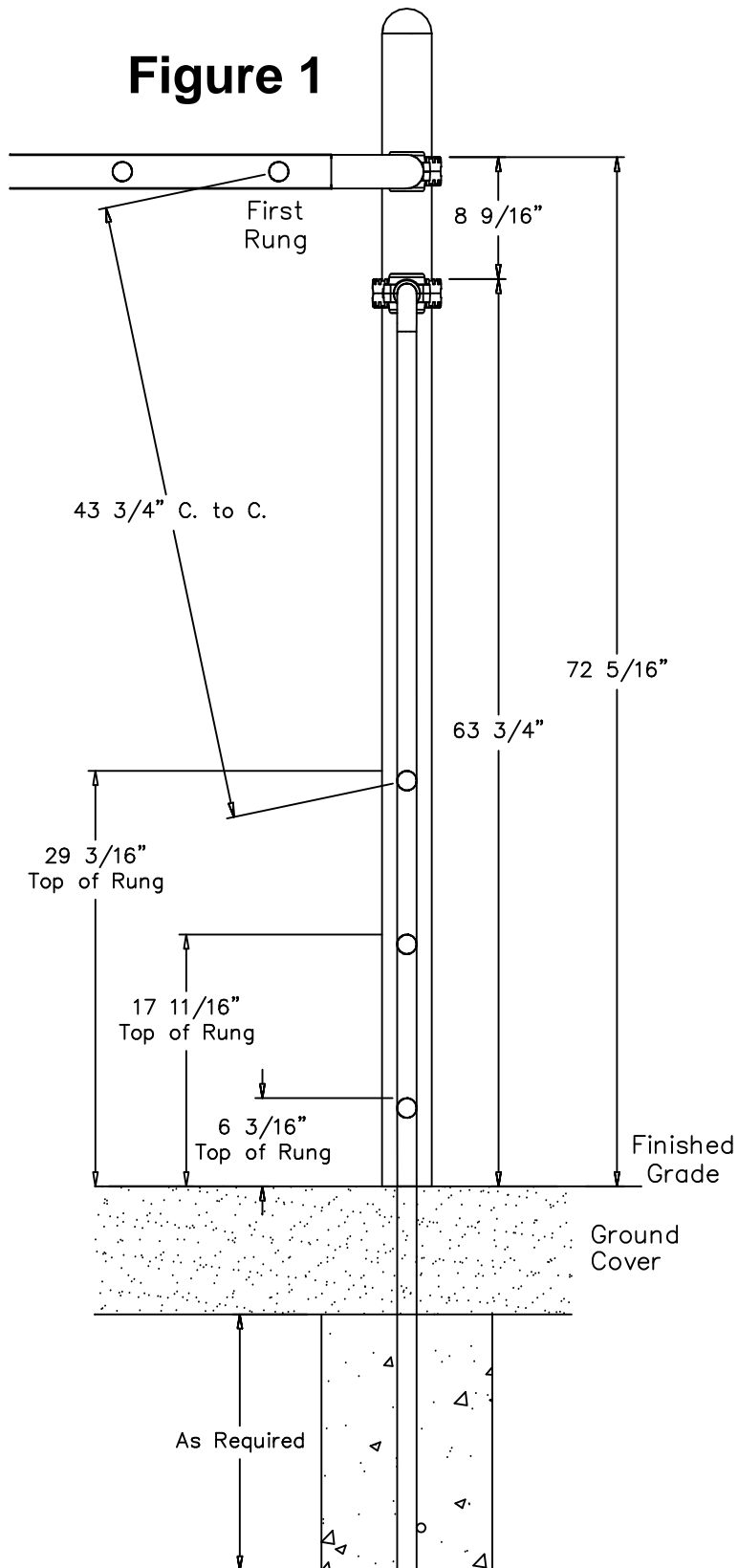
HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

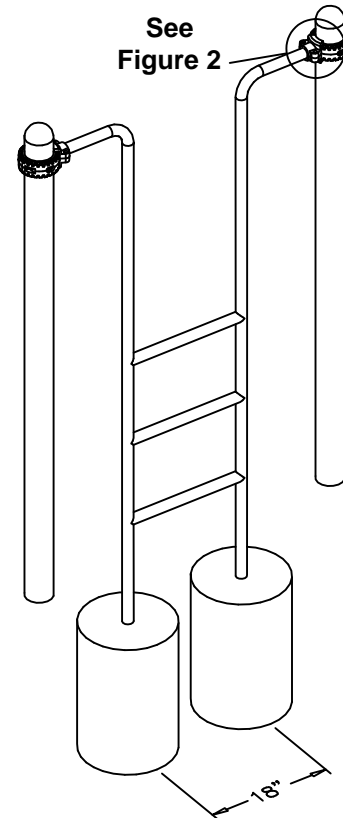
Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

Figure 1

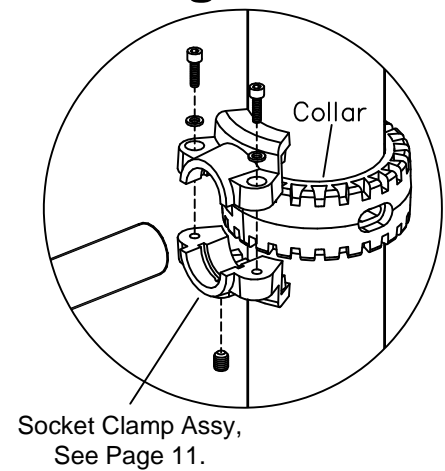


Assembly View



Concrete Footings
See Figure 1

Figure 2



Parts List

QTY.	DESCRIPTION	PART #
1	End Access Ladder	FS-1403-RLA512
2	R5 Socket Clamp Assy.	See Page 11

Specifications

END ACCESS LADDER:

Shall be constructed of 1.315" OD, 12 gage steel tube and finished with a baked on powder coating.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

Instructions

Notes:

(A) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Step 1.

Dig (2) 12" dia. footing holes approx. 18" deep.
See Assembly View for locations.

Step 2.

Locate and mark the locations of the collars and attach to the support posts as shown on Collar Assembly Page 09.

Step 3.

Place the ladder into the footing holes and attach to the support collars as shown in Figure 2. See Socket Clamp Assembly Page 11.

Step 4.

Fully tighten all fasteners.

Step 5.

Pour concrete footings. Allow 72 hours for concrete to cure before continuing.

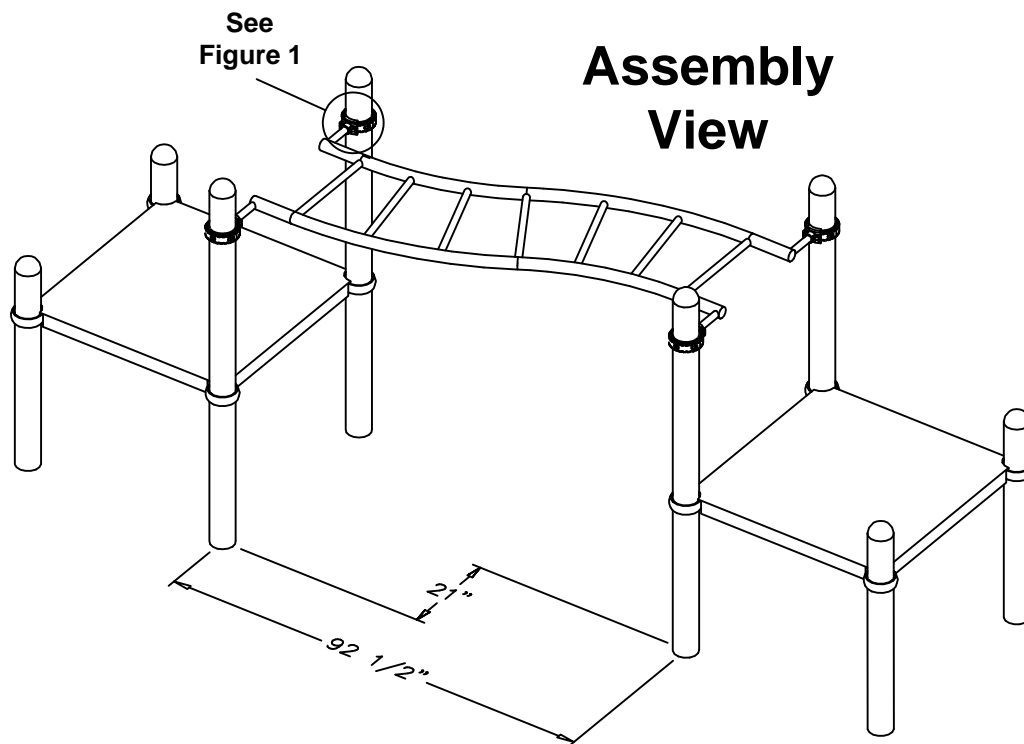
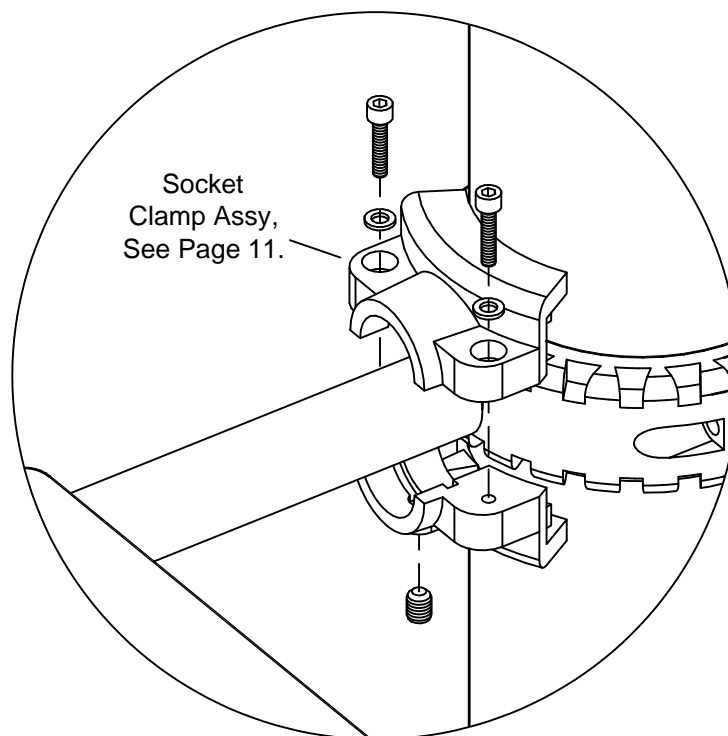


Figure 1



Parts List

QTY.	DESCRIPTION	PART #
1	Horizontal Ladder Curved	FS-1405-R
4	Socket Clamp Assembly	See Pg. 11

Instructions

Notes:

(A) The height of the rungs (at grasping point) from the top of ground cover varies by age group:
Ages 2-5: 60" above ground cover.
Ages 5-12: 84" above ground cover.

(B) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Specifications

HORIZONTAL LADDER:

Support beams shall be constructed of 2.375" OD steel tube with 1.315" OD steel tube rungs uniformly spaced and welded in place. Finished with a baked on powder coating.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Step 1.

Locate and mark collar positions as shown in the Assembly View, and attach as shown on Collar Assembly Page 09.

Step 2.

Attach the Horizontal Ladder to the support collars as shown in Figure 1. See Socket Clamp Assembly Page 11.

Step 3.

Check to ensure that the Horizontal Ladder has been installed square, level and plumb at the age-appropriate height (See Note A) and make any adjustments if necessary.

Step 4.

Fully tighten all fasteners.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

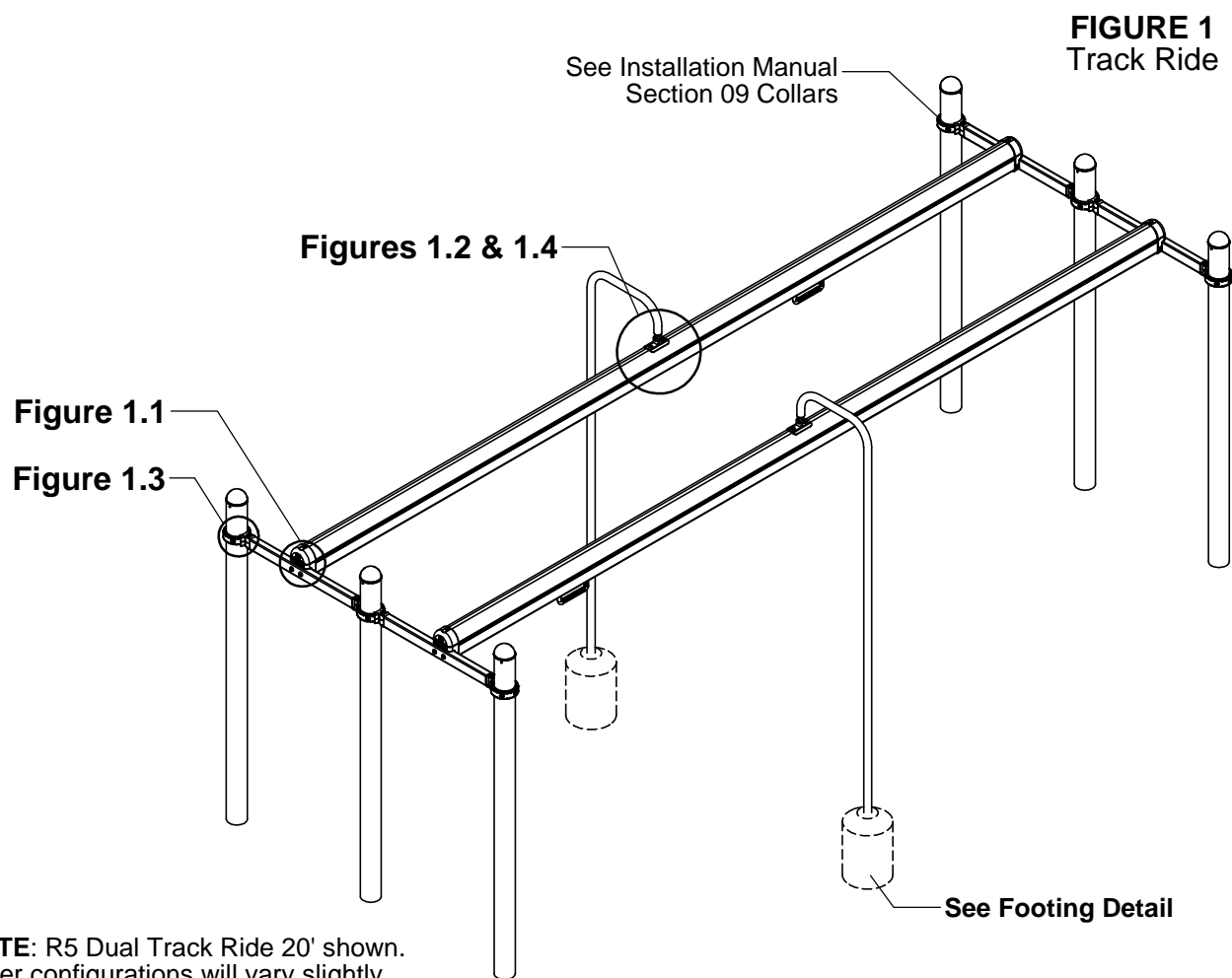
(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 09 Collars installation instructions.

(D) The distance between Dual Track Rides from the center of the handles must be 48" [1219mm]. The Center supports must be installed on the outside of the event.

(E) The maximum height of the Track Ride Handle (at grasping point) from the top of the protective surfacing shall be between 64" [1626mm] and 78" [1981mm].

(F) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.



NOTE: R5 Dual Track Ride 20' shown.
Other configurations will vary slightly,
but does not affect assembly.



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Step 3

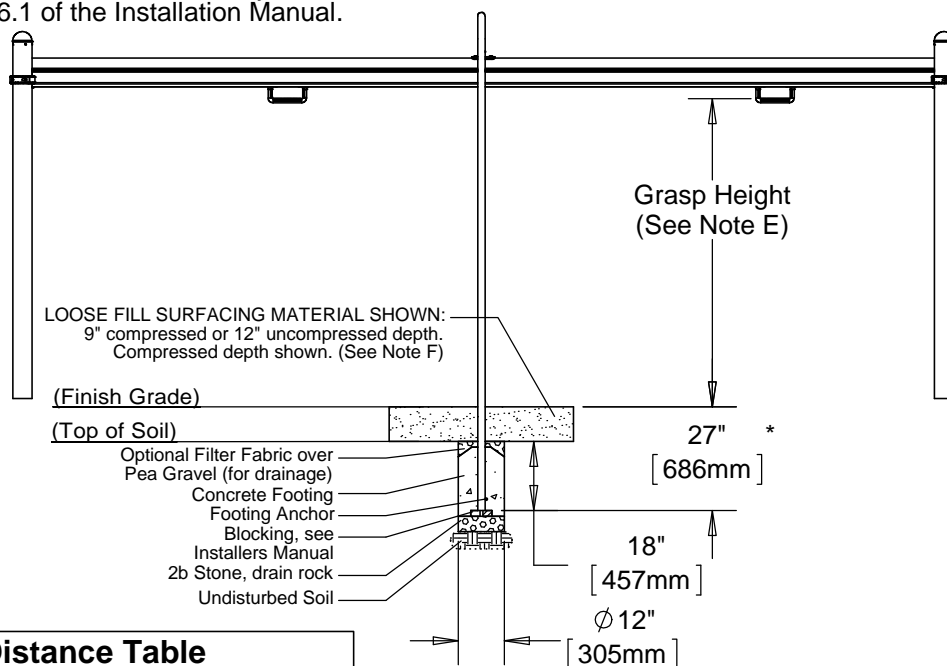
For 20' Track Ride Only

Refer to Footing Layout and mark footing hole locations.
Dig (1) Ø 12" footing hole for each support required.
Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

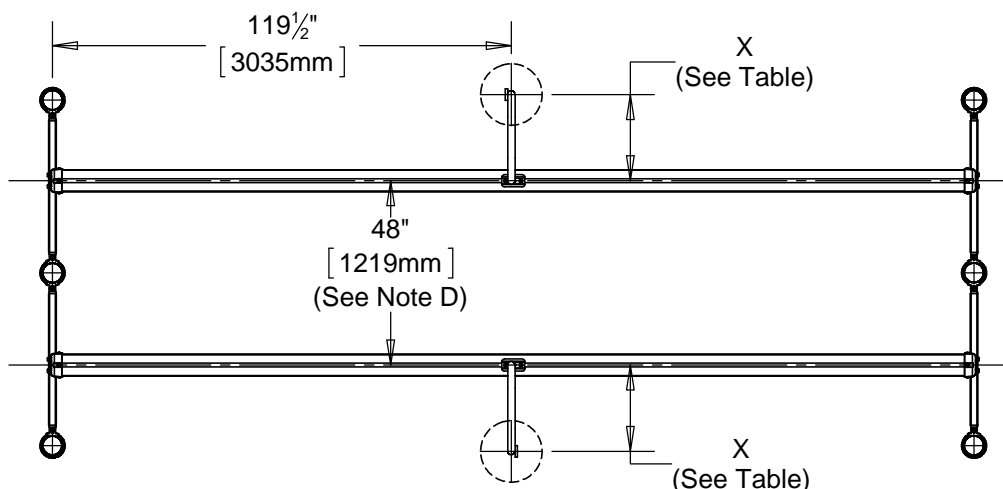
Footing Detail



Footing Distance Table		
Center of Beam to Center of Footing		
Assembly	X (in.)	X (mm)
Standard	22-1/2"	572
Canada	39-3/4"	1010

Top View - Footing Layout

NOTE: R5 Dual Track Ride 20' shown. Other configurations will vary slightly, but does not affect assembly.



Step 2 (Factory Assembled)

Assemble Track Ride Handle components as shown in Figure 2. (See Note A)

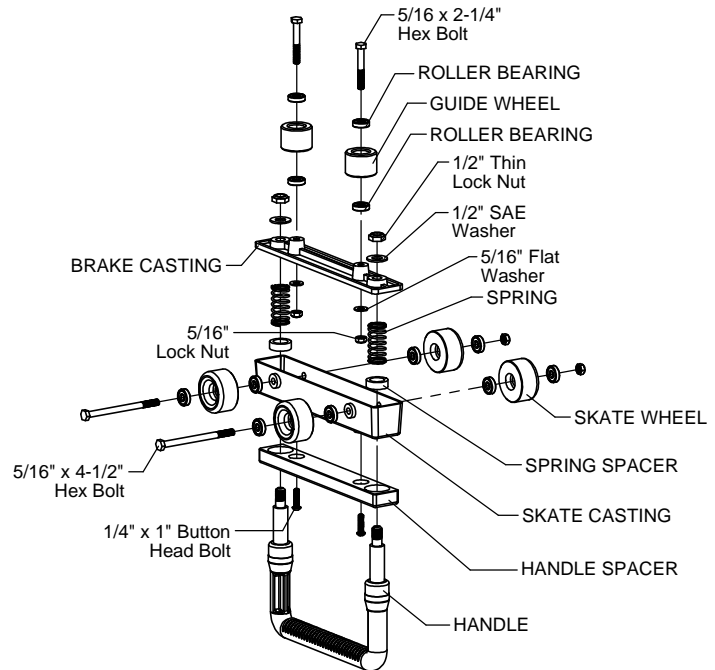


FIGURE 2

Step 3 (Factory Assembled)

Drill 5/64" hole through Hex Bolts and insert Cotter Pins. Insert Track Ride Handle into Track Ride Beam as shown in Figure 3.

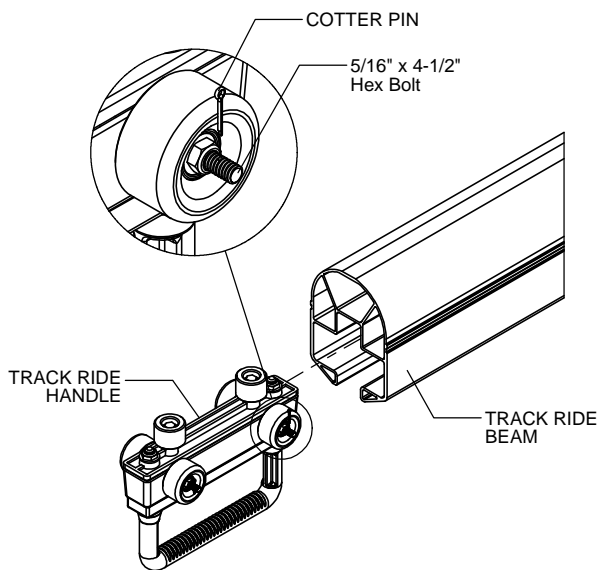


FIGURE 3

Step 4 (Factory Assembled)

Attach Bumpers to End Castings as shown in Figure 4. (See Note A)

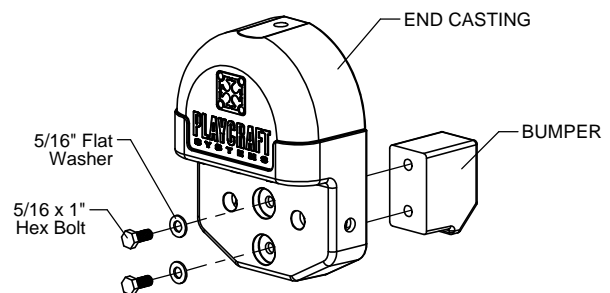


FIGURE 4

Step 5 (Factory Assembled)

Install Nutserts into Track Ride Supports and attach End Castings to End Supports as shown in Figure 5. (See Note A)

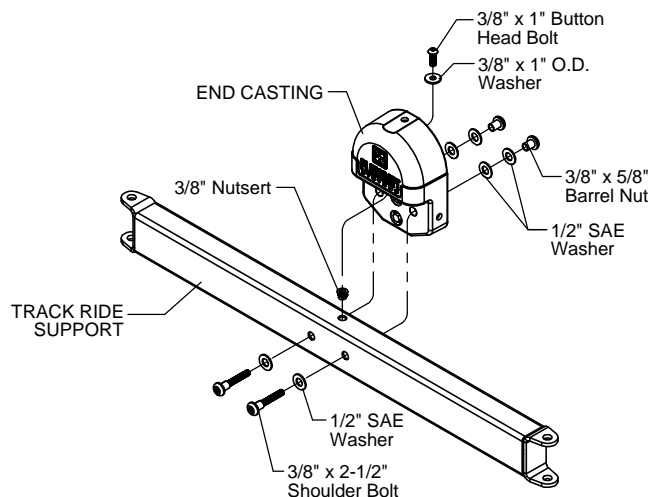


FIGURE 5

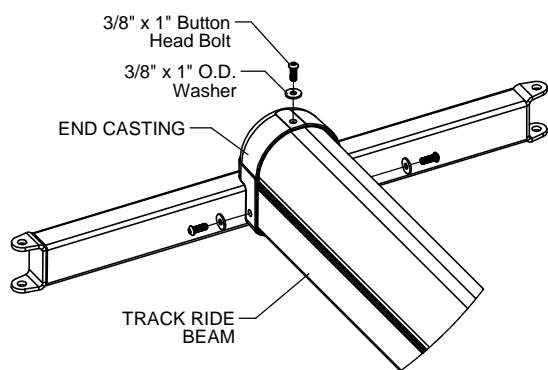


Figure 1.1

Step 6 (Factory Assembled)

Using End Casting as a template, mark and drill (3) 25/64" holes into Track Ride Beam at each end. Attach Track Ride Beam to End Castings as shown in Figure 1.1. (See Note A)

Step 7 (Factory Assembled)

For 20' Track Ride Only

Drill (2) 17/32" holes spaced 4" apart centered on Track Ride Beam. Install Nutserts into Track Ride Beam and attach Support Plate as shown in Figure 1.2. (See Note A)

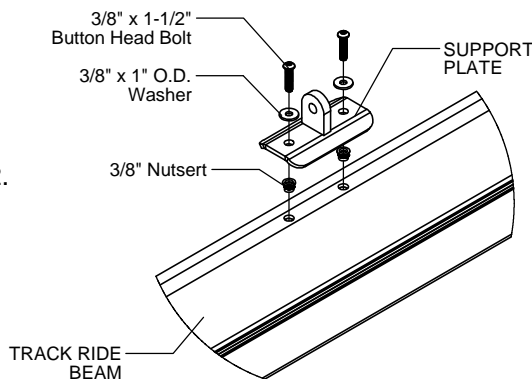


Figure 1.2

Step 8

Locate and attach collars as shown in Footing Detail.
(See Notes C & E)

Step 9

Attach Track Ride Support to collars as shown
in Figure 1.3. (See Notes A & C)

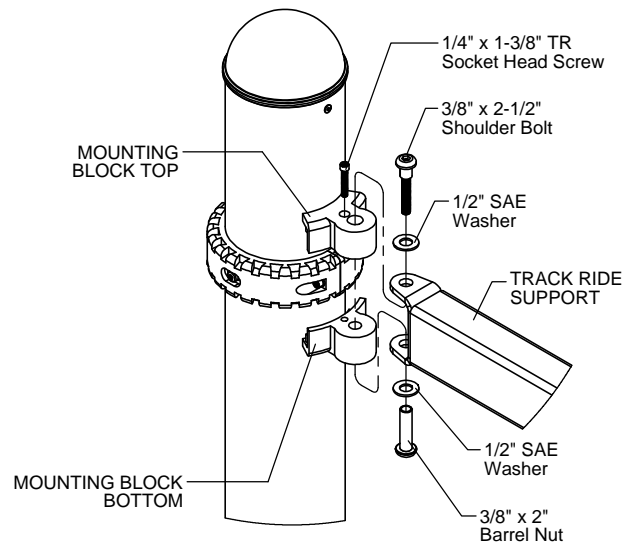


Figure 1.3

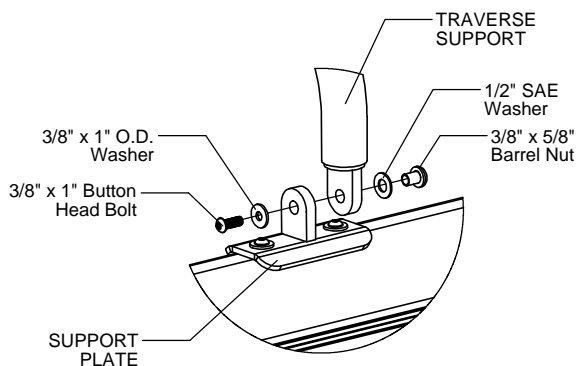


Figure 1.4

Step 10

For 20' Track Ride Only

Place Traverse Support into footing hole and
attach to Support Plate as shown in Figure 1.4.
(See Notes A & B)

Step 11

Plumb and level entire component. Pour concrete
into footing hole(s). Allow at least 72 hours to cure
before using this equipment. (See Note B)

Step 12

Fully tighten all fasteners according to the
"TIGHTENING TORQUE FOR HARDWARE"
section of the Installation Manual.

Step 13

Place required protective surfacing under and
around Track Ride. (See Note F)

TRACK RIDE INSTALLATION INSTRUCTIONS

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Parts List

R3.5 Single Track Ride

Part #	DESCRIPTION	QTY.
GG-8125	Mounting Block 6 Top R3.5	4
GG-8127	Mounting Block 6 Bottom R3.5	4
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9345002	Washer Flat SAE 1/2"	8
9443092-TR	Nut Barrel 3/8" x 2" BH	4

R3.5 Single Track Ride with Support

Part #	DESCRIPTION	QTY.
FS-1411-90A	Loop Traverse 90° Support	1
GG-8125	Mounting Block 6 Top R3.5	4
GG-8127	Mounting Block 6 Bottom R3.5	4
9103052-TR	Bolt Button Head 3/8" x 1"	1
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	1
9345002	Washer Flat SAE 1/2"	9
9443022-TR	Nut Barrel 3/8" x 5/8" BH	1
9443092-TR	Nut Barrel 3/8" x 2" BH	4

R3.5 Dual Track Ride with Support

Part #	DESCRIPTION	QTY.
FS-1411-90A	Loop Traverse 90° Support	2
GG-8125	Mounting Block 6 Top R3.5	8
GG-8127	Mounting Block 6 Bottom R3.5	8
9103052-TR	Bolt Button Head 3/8" x 1"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	8
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	2
9345002	Washer Flat SAE 1/2"	18
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2
9443092-TR	Nut Barrel 3/8" x 2" BH	8



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Parts List

R5 Single Track Ride		
Part #	DESCRIPTION	QTY.
GF-7006-B	Mounting Block R5 Bottom	4
GF-7006-T	Mounting Block R5 Top	4
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9345002	Washer Flat SAE 1/2"	8
9443092-TR	Nut Barrel 3/8" x 2" BH	4

R5 Single Track Ride with Support		
Part #	DESCRIPTION	QTY.
FS-1411-90A	Loop Traverse 90° Support	1
GF-7006-B	Mounting Block R5 Bottom	4
GF-7006-T	Mounting Block R5 Top	4
9103052-TR	Bolt Button Head 3/8" x 1"	1
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	1
9345002	Washer Flat SAE 1/2"	9
9443022-TR	Nut Barrel 3/8" x 5/8" BH	1
9443092-TR	Nut Barrel 3/8" x 2" BH	4

R5 Dual Track Ride		
Part #	DESCRIPTION	QTY.
GF-7006-B	Mounting Block R5 Bottom	8
GF-7006-T	Mounting Block R5 Top	8
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	8
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	8
9345002	Washer Flat SAE 1/2"	16
9443092-TR	Nut Barrel 3/8" x 2" BH	8

R5 Dual Track Ride with Support		
Part #	DESCRIPTION	QTY.
FS-1411-90A	Loop Traverse 90° Support	2
GF-7006-B	Mounting Block R5 Bottom	8
GF-7006-T	Mounting Block R5 Top	8
9103052-TR	Bolt Button Head 3/8" x 1"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	8
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	2
9345002	Washer Flat SAE 1/2"	18
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2
9443092-TR	Nut Barrel 3/8" x 2" BH	8

R5 Single Track Ride with Support CAN		
Part #	DESCRIPTION	QTY.
FS-1413-SUP	Track Ride Support Canada	1
GF-7006-B	Mounting Block R5 Bottom	4
GF-7006-T	Mounting Block R5 Top	4
9103052-TR	Bolt Button Head 3/8" x 1"	1
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	1
9345002	Washer Flat SAE 1/2"	9
9443022-TR	Nut Barrel 3/8" x 5/8" BH	1
9443092-TR	Nut Barrel 3/8" x 2" BH	4



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Assembled Parts List

R3.5 Single Track Ride		
Part #	DESCRIPTION	QTY.
EE-4748-A	Track Ride Handle Spacer	1
EE-4748-B	Track Ride Spring Spacer	2
FE-4325	Track Ride Bumper	2
FS-1413-R35-48R	Track Ride Support R35 - Right	2
GE-4312	Track Ride End Casting	2
GE-4724	Track Ride Handle	1
GE-4725	Track Ride Skate Casting	1
GE-4726	Track Ride Brake Casting	1
LG-4159-10	Short Track Ride Beam R35	1
440002	Roller Bearing 5/16"x7/8"x1/4"thick	12
440003	Track Ride Skate Wheel	4
440004	Track Ride Guide Wheel	2
455111	Nutsert 3/8 x .805	2
564002	Track Ride Spring	2
9101052-TR	Bolt Button Head 1/4" x 1"	2
9103052-TR	Bolt Button Head 3/8" x 1"	8
9122052	Bolt Hex 5/16" x 1"	4
9122101	Bolt Hex 5/16" x 2-1/4"	2
9122191	Bolt Hex 5/16" x 4-1/2"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9332032	Washer Flat 5/16"	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	8
9345002	Washer Flat SAE 1/2"	14
9412182	Nut Lock 5/16	4
9425002	Nut Lock 1/2" Thin	2
9443022-TR	Nut Barrel 3/8" x 5/8" BH	4
9661634	Cotter Pin	2

R3.5 Single Track Ride with Support		
Part #	DESCRIPTION	QTY.
EE-4748-A	Track Ride Handle Spacer	1
EE-4748-B	Track Ride Spring Spacer	2
FE-4325	Track Ride Bumper	2
FS-1413-C	Track Ride Center Support Bracket	1
FS-1413-R35-48R	Track Ride Support R35 - Right	2
GE-4312	Track Ride End Casting	2
GE-4724	Track Ride Handle	1
GE-4725	Track Ride Skate Casting	1
GE-4726	Track Ride Brake Casting	1
Varies	Long Track Ride Beam R35	1
440002	Roller Bearing 5/16"x7/8"x1/4"thick	12
440003	Track Ride Skate Wheel	4
440004	Track Ride Guide Wheel	2
455111	Nutsert 3/8 x .805	4
564002	Track Ride Spring	2
9101052-TR	Bolt Button Head 1/4" x 1"	2
9103052-TR	Bolt Button Head 3/8" x 1"	8
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	2
9122052	Bolt Hex 5/16" x 1"	4
9122101	Bolt Hex 5/16" x 2-1/4"	2
9122191	Bolt Hex 5/16" x 4-1/2"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9332032	Washer Flat 5/16"	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	10
9345002	Washer Flat SAE 1/2"	14
9412182	Nut Lock 5/16	4
9425002	Nut Lock 1/2" Thin	2
9443022-TR	Nut Barrel 3/8" x 5/8" BH	4
9661634	Cotter Pin	2



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Assembled Parts List

R5 Single Track Ride		
Part #	DESCRIPTION	QTY.
EE-4748-A	Track Ride Handle Spacer	1
EE-4748-B	Track Ride Spring Spacer	2
FE-4325	Track Ride Bumper	2
FS-1413-R	Track Ride Support R5	2
GE-4312	Track Ride End Casting	2
GE-4724	Track Ride Handle	1
GE-4725	Track Ride Skate Casting	1
GE-4726	Track Ride Brake Casting	1
Varies	Track Ride Beam R5	1
440002	Roller Bearing 5/16"x7/8"x1/4"thick	12
440003	Track Ride Skate Wheel	4
440004	Track Ride Guide Wheel	2
455111	Nutsert 3/8 x .805	2
564002	Track Ride Spring	2
9101052-TR	Bolt Button Head 1/4" x 1"	2
9103052-TR	Bolt Button Head 3/8" x 1"	8
9122052	Bolt Hex 5/16" x 1"	4
9122101	Bolt Hex 5/16" x 2-1/4"	2
9122191	Bolt Hex 5/16" x 4-1/2"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9332032	Washer Flat 5/16"	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	8
9345002	Washer Flat SAE 1/2"	14
9412182	Nut Lock 5/16	4
9425002	Nut Lock 1/2" Thin	2
9443022-TR	Nut Barrel 3/8" x 5/8" BH	4
9661634	Cotter Pin	2

R5 Single Track Ride with Support		
Part #	DESCRIPTION	QTY.
EE-4748-A	Track Ride Handle Spacer	1
EE-4748-B	Track Ride Spring Spacer	2
FE-4325	Track Ride Bumper	2
FS-1413-C	Track Ride Center Support Bracket	1
FS-1413-R	Track Ride Support R5	2
GE-4312	Track Ride End Casting	2
GE-4724	Track Ride Handle	1
GE-4725	Track Ride Skate Casting	1
GE-4726	Track Ride Brake Casting	1
Varies	Long Track Ride Beam R5	1
440002	Roller Bearing 5/16"x7/8"x1/4"thick	12
440003	Track Ride Skate Wheel	4
440004	Track Ride Guide Wheel	2
455111	Nutsert 3/8 x .805	4
564002	Track Ride Spring	2
9101052-TR	Bolt Button Head 1/4" x 1"	2
9103052-TR	Bolt Button Head 3/8" x 1"	8
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	2
9122052	Bolt Hex 5/16" x 1"	4
9122101	Bolt Hex 5/16" x 2-1/4"	2
9122191	Bolt Hex 5/16" x 4-1/2"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9332032	Washer Flat 5/16"	6
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	10
9345002	Washer Flat SAE 1/2"	14
9412182	Nut Lock 5/16	4
9425002	Nut Lock 1/2" Thin	2
9443022-TR	Nut Barrel 3/8" x 5/8" BH	4
9661634	Cotter Pin	2



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Assembled Parts List

R3.5 Dual Track Ride with Support		
Part #	DESCRIPTION	QTY.
EE-4748-A	Track Ride Handle Spacer	2
EE-4748-B	Track Ride Spring Spacer	4
FE-4325	Track Ride Bumper	4
FS-1413-C	Track Ride Center Support Bracket	2
FS-1413-R35-48L	Track Ride Support R35 - Left	2
FS-1413-R35-48R	Track Ride Support R35 - Right	2
GE-4312	Track Ride End Casting	4
GE-4724	Track Ride Handle	2
GE-4725	Track Ride Skate Casting	2
GE-4726	Track Ride Brake Casting	2
LG-4159-20	Long Track Ride Beam R35	2
440002	Roller Bearing 5/16"x7/8"x1/4"thick	24
440003	Track Ride Skate Wheel	8
440004	Track Ride Guide Wheel	4
455111	Nutsert 3/8 x .805	8
564002	Track Ride Spring	4
9101052-TR	Bolt Button Head 1/4" x 1"	4
9103052-TR	Bolt Button Head 3/8" x 1"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9122052	Bolt Hex 5/16" x 1"	8
9122101	Bolt Hex 5/16" x 2-1/4"	4
9122191	Bolt Hex 5/16" x 4-1/2"	4
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	8
9332032	Washer Flat 5/16"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	20
9345002	Washer Flat SAE 1/2"	28
9412182	Nut Lock 5/16	8
9425002	Nut Lock 1/2" Thin	4
9443022-TR	Nut Barrel 3/8" x 5/8" BH	8
9661634	Cotter Pin	4



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Assembled Parts List

R5 Dual Track Ride		
Part #	DESCRIPTION	QTY.
EE-4748-A	Track Ride Handle Spacer	2
EE-4748-B	Track Ride Spring Spacer	4
FE-4325	Track Ride Bumper	4
Varies	Track Ride Support 48 R5	4
GE-4312	Track Ride End Casting	4
GE-4724	Track Ride Handle	2
GE-4725	Track Ride Skate Casting	2
GE-4726	Track Ride Brake Casting	2
Varies	Track Ride Beam R5	2
440002	Roller Bearing 5/16"x7/8"x1/4"thick	24
440003	Track Ride Skate Wheel	8
440004	Track Ride Guide Wheel	4
455111	Nutsert 3/8 x .805	4
564002	Track Ride Spring	4
9101052-TR	Bolt Button Head 1/4" x 1"	4
9103052-TR	Bolt Button Head 3/8" x 1"	16
9122052	Bolt Hex 5/16" x 1"	8
9122101	Bolt Hex 5/16" x 2-1/4"	4
9122191	Bolt Hex 5/16" x 4-1/2"	4
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	8
9332032	Washer Flat 5/16"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	16
9345002	Washer Flat SAE 1/2"	28
9412182	Nut Lock 5/16	8
9425002	Nut Lock 1/2" Thin	4
9443022-TR	Nut Barrel 3/8" x 5/8" BH	8
9661634	Cotter Pin	4

R5 Dual Track Ride with Support		
Part #	DESCRIPTION	QTY.
EE-4748-A	Track Ride Handle Spacer	2
EE-4748-B	Track Ride Spring Spacer	4
FE-4325	Track Ride Bumper	4
FS-1413-C	Track Ride Center Support Bracket	2
Varies	Track Ride Support 48 R5	4
GE-4312	Track Ride End Casting	4
GE-4724	Track Ride Handle	2
GE-4725	Track Ride Skate Casting	2
GE-4726	Track Ride Brake Casting	2
Varies	Long Track Ride Beam R5	2
440002	Roller Bearing 5/16"x7/8"x1/4"thick	24
440003	Track Ride Skate Wheel	8
440004	Track Ride Guide Wheel	4
455111	Nutsert 3/8 x .805	8
564002	Track Ride Spring	4
9101052-TR	Bolt Button Head 1/4" x 1"	4
9103052-TR	Bolt Button Head 3/8" x 1"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9122052	Bolt Hex 5/16" x 1"	8
9122101	Bolt Hex 5/16" x 2-1/4"	4
9122191	Bolt Hex 5/16" x 4-1/2"	4
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	8
9332032	Washer Flat 5/16"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	20
9345002	Washer Flat SAE 1/2"	28
9412182	Nut Lock 5/16	8
9425002	Nut Lock 1/2" Thin	4
9443022-TR	Nut Barrel 3/8" x 5/8" BH	8
9661634	Cotter Pin	4



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Specifications

TRACK RIDE BEAM:

Shall be hot-extruded from a high strength aluminum alloy. The Track Ride Beam shall have a multi-stage baked-on powder coat finish.

LOOP TRAVERSE 90° SUPPORT:

Shall be fabricated using 1.900" O.D. 11 gauge steel tubing with welded 1/2" thick steel mounting tab. The Loop Traverse 90° Support shall have a multi-stage baked-on powder coat finish.

TRACK RIDE SUPPORT CANADA:

Shall be fabricated using 1.900" O.D. 11 gauge steel tubing with welded 1/2" thick steel mounting tab. The Track Ride Support Canada shall have a multi-stage baked-on powder coat finish.

TRACK RIDE SUPPORT:

Shall be fabricated using 2" x 3" x .120" Rec T.S. with welded 1/4" thick steel clevises. The Track Ride Support shall have a multi-stage baked-on powder coat finish.

TRACK RIDE CENTER SUPPORT BRACKET

Shall be fabricated using 1/4" thick sheet steel with welded 1/2" thick steel mounting tab. The Track Ride Center Support Bracket shall have a multi-stage baked-on powder coat finish.

TRACK RIDE END CASTING, HANDLE, BRAKE CASTING & SKATE CASTING:

Shall be precision die-cast from a high strength aluminum alloy. Castings shall have a multi-stage baked-on powder coat finish.

TRACK RIDE BUMPER:

Shall be injection-molded from commercial grade rubber.

TRACK RIDE SPACERS:

Shall be made from high density 3/4" thick hot extruded polyethylene sheet plastic specially formulated for optimum UV stability and color retention.

TRACK RIDE SKATE WHEEL:

Shall be machined from high-density urethane.

TRACK RIDE GUIDE WHEEL:

Shall be machined from nylon.

MOUNTING BLOCKS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Mounting Blocks have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

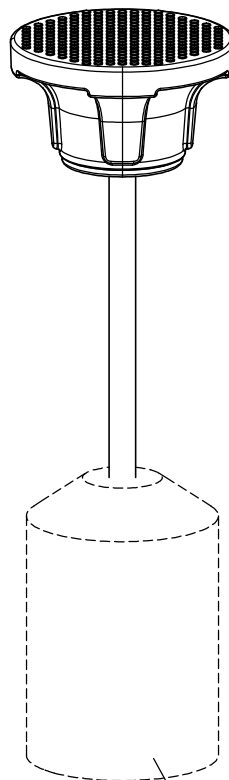
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) When installing multiple steps, the distance between steps varies by age group: Ages 2-5: 12" [305mm] apart. Ages 5-12: 18" [457mm] apart.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Lily Pad Seat-Step



See Footing Detail

Step 1

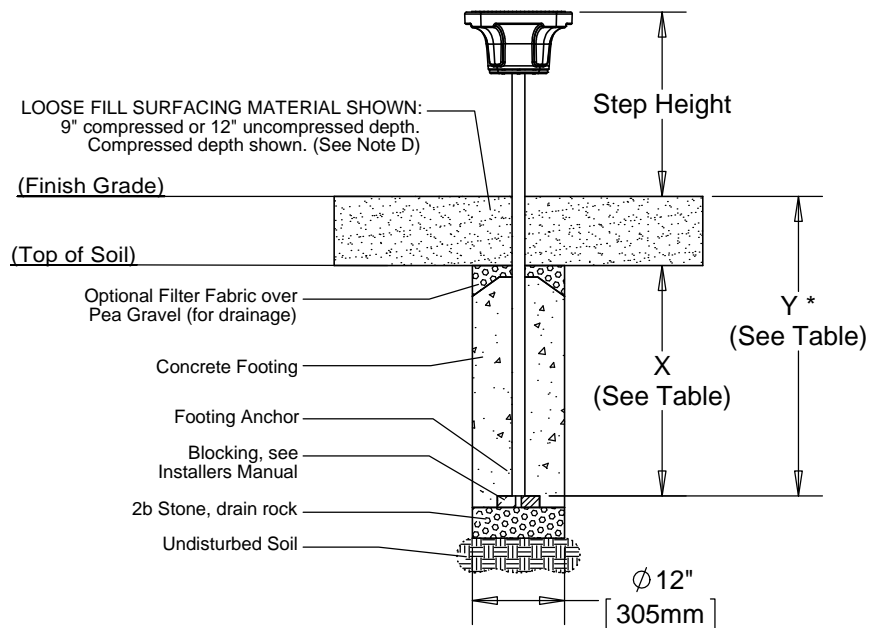
Refer to Post Footings Layout in the Playground Equipment Manual and mark footing hole location.

Dig (1) Ø 12" footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

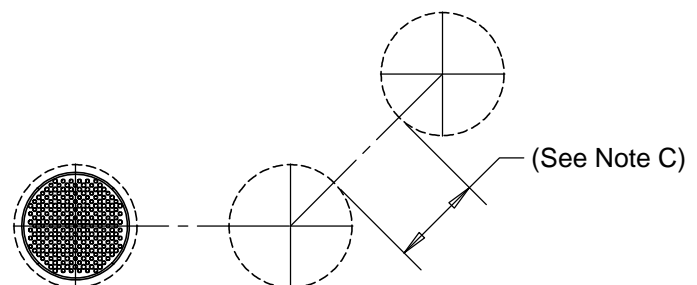
* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

Footing Detail



Footing Depth Table Top of Soil to Top of Blocking				
Step Height	X (in.)	X (mm)	Y (in.) *	Y (mm) *
12"	18"	457	27"	686
18"	18"	457	27"	686
24"	30"	762	39"	991

Top View Lily Pad Seat-Step Orientation



Step 2

Attach Lily Pad to Step Pad Leg as shown in Figure 2. (See Note A)

Step 3

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 4

Place Lily Pad Seat-Step into footing hole. Plumb and level entire component. Pour concrete into footing hole. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 5

Place required protective surfacing under and around Lily Pad Seat-Step. (See Note D)

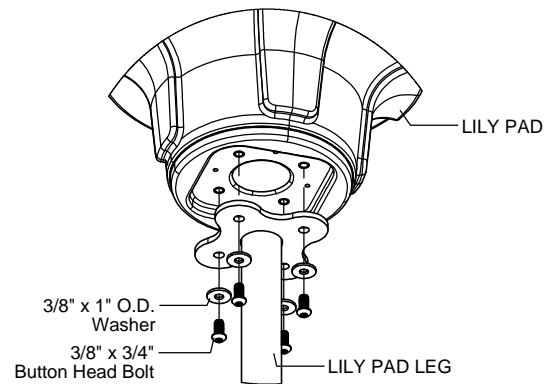


FIGURE 2

Parts List

Part #	DESCRIPTION	QTY
DE-4367	Lily Pad No Hole	1
Varies	Lily Pad Step Leg	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4

Specifications

LILY PAD NO HOLE:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250".

STEP PAD STEP LEG:

Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 1/4" thick steel mounting plate. The Step Pad Step Leg shall have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

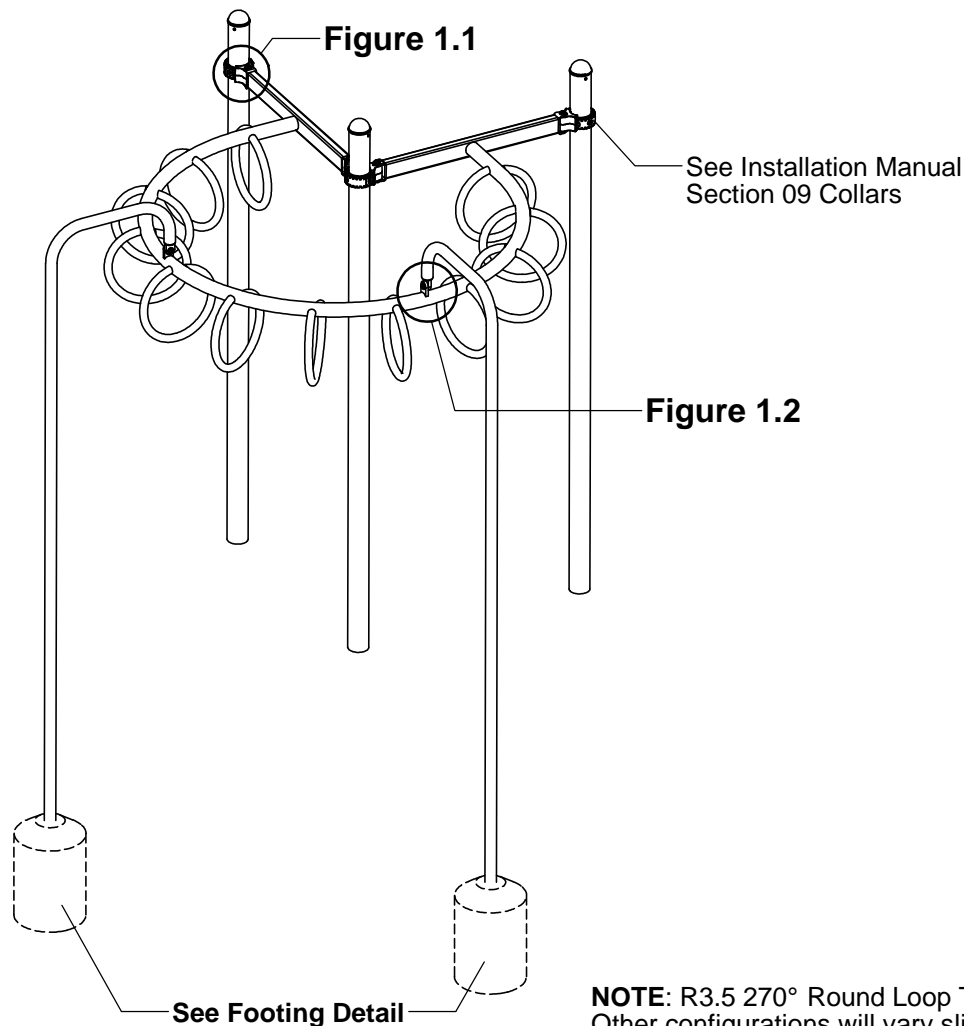
(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 09 Collars installation instructions.

(D) The maximum height of the rungs (at grasping point) from the top of the ground cover varies by age group: Ages 2-5: 60" [1524 mm] above ground cover. Ages 5-12: 84" [2130 mm] above ground cover.

(E) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
270° Round Loop Traverse



NOTE: R3.5 270° Round Loop Traverse shown. Other configurations will vary slightly, but does not affect assembly.

Step 1

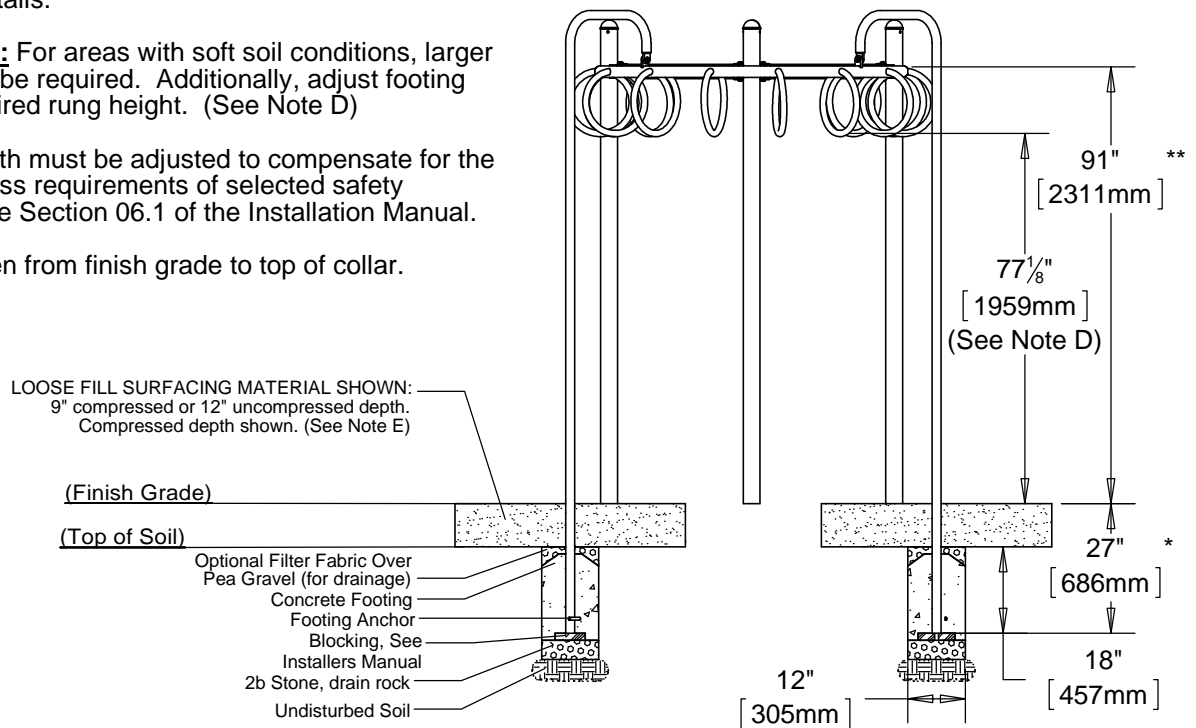
Refer to Footing Layout and mark footing hole locations. Dig (2) Ø 12" footing holes. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required. Additionally, adjust footing depth for desired rung height. (See Note D)

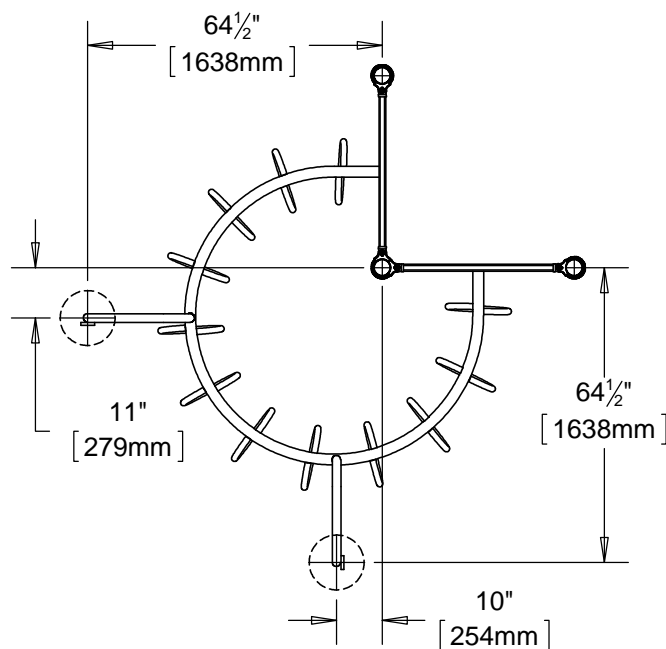
* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** Height given from finish grade to top of collar.

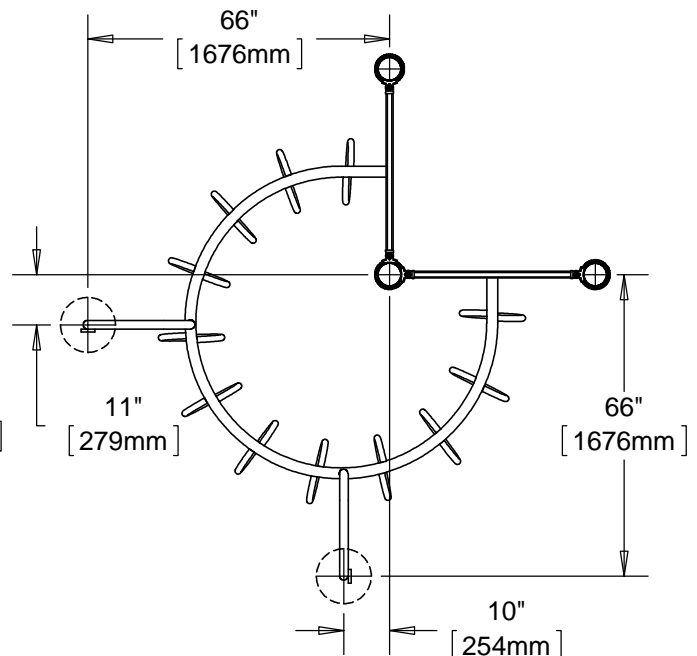
Footing Detail



R3.5 Top View - Footing Layout



R5 Top View - Footing Layout



Step 2

Locate and attach collars at height shown in Footing Detail. Adjust for desired rung height. (See Notes C & D)

Step 3

Attach Traverse Beam to collars as shown in Figure 1.1. (See Note A)

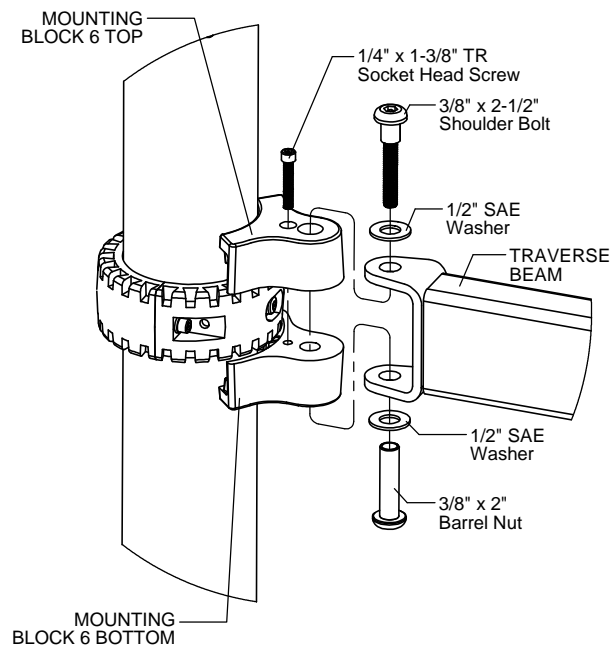


Figure 1.1

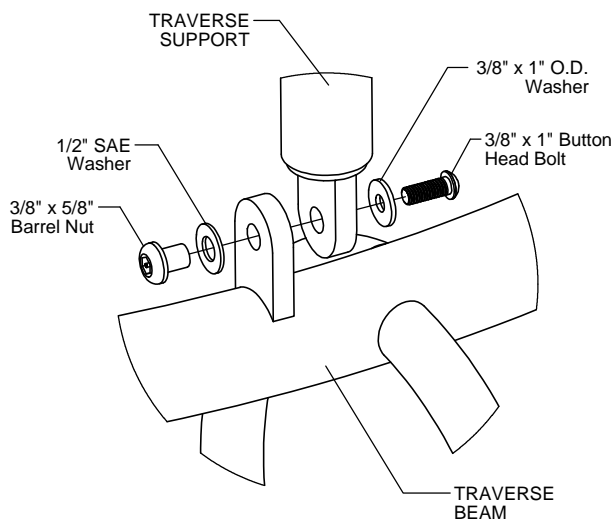


Figure 1.2

Step 4

Place Traverse Supports into footing holes and attach to Traverse Beam as shown in Figure 1.2. (See Notes A & B)

Step 5

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 6

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 7

Place appropriate compliant protective surfacing under and around 270° Round Loop Traverse. (See Note E)

270° ROUND LOOP TRAVERSE INSTALLATION INSTRUCTIONS

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Parts List R3.5

Part #	DESCRIPTION	QTY.
GG-8125	Mounting Block 6 Top R3.5	4
GG-8127	Mounting Block 6 Bottom R3.5	4
FS-1411-90A	Loop Traverse 90° Support	2
FS-1426-270R35	Round Loop Traverse 270° R3.5	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	2
9345002	Washer Flat SAE 1/2"	10
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2
9443092-TR	Nut Barrel 3/8" x 2" BH	4

Parts List R5

Part #	DESCRIPTION	QTY.
GF-7006-B	Mounting Block R5 Bottom	4
GF-7006-T	Mounting Block R5 Top	4
FS-1411-90A	Loop Traverse 90° Support	2
FS-1426-R270	Round Loop Traverse 270° R5	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	2
9345002	Washer Flat SAE 1/2"	10
9443022-TR	Nut Barrel 3/8" x 5/8" BH	2
9443092-TR	Nut Barrel 3/8" x 2" BH	4

Specifications

LOOP TRAVERSE 90° SUPPORT:

Shall be fabricated using 1.900" O.D. 11 gauge steel tubing with welded 1/2" thick steel mounting tab. The Loop Traverse 90° Support shall have a multi-stage baked-on powder coat finish.

270° ROUND LOOP TRAVERSE:

Shall be fabricated using 2.375" O.D. 10 gauge steel tubing with welded 1.5" x 3" 11 gauge steel end supports, 1.315" O.D. 11 gauge steel loops, 1/2" thick steel tabs and 1/4" thick steel clevises. The 270° Round Loop Traverse shall have a multi-stage baked-on powder coat finish.

MOUNTING BLOCKS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Mounting Blocks have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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Rev C
2/5/2013

Assembly View

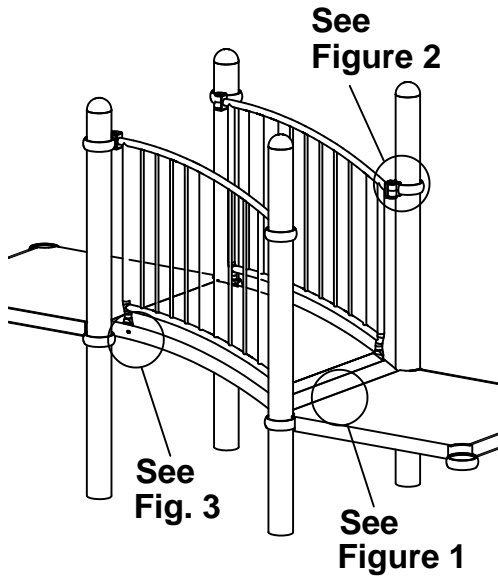


Figure 1

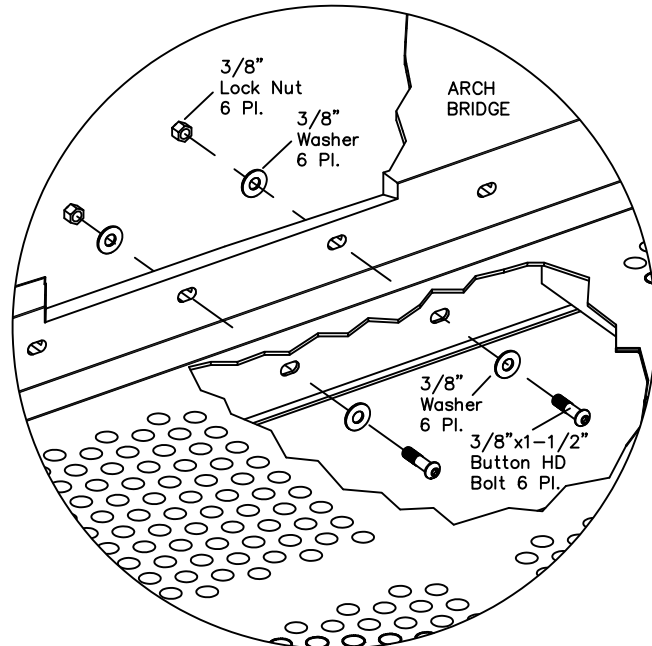


Figure 2

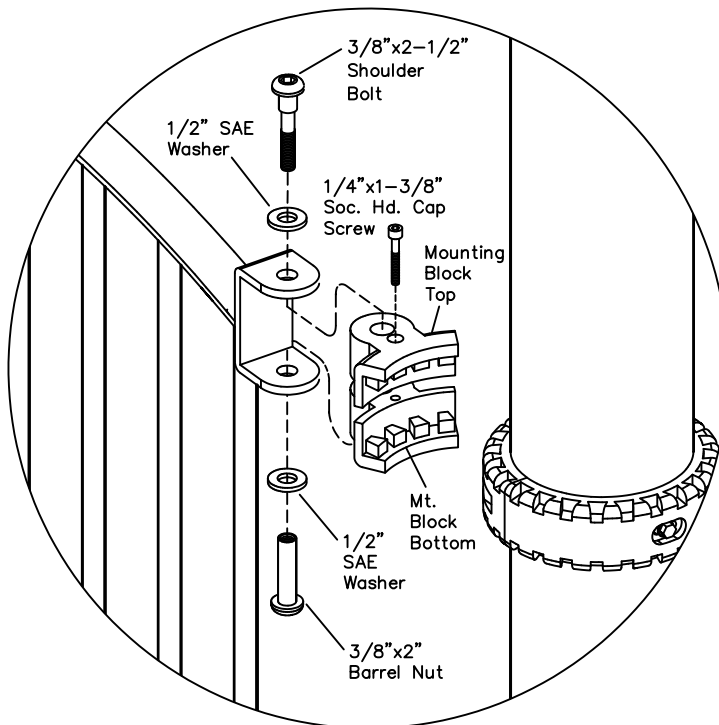
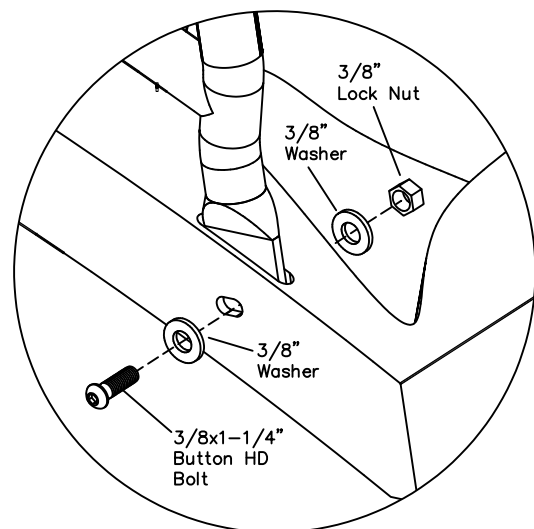


Figure 3



Parts List

QTY.	DESCRIPTION	PART #
1	Arch Bridge 45 (Inclined)	7112
2	Inclined Arch Bridge Wall	FS-1514-R
4	Mounting Block Top	7006-T
4	Mounting Block Bottom	7006-B
4	3/8" x 1-1/4" Button Head Bolts	9103062-TR
12	3/8" x 1-1/2" Button Head Bolts	9103072-TR
4	3/8" x 2-1/2" Shoulder Bolts	9143111
4	1/4" x 1-3/8" Soc. Hd. Cap Screw	9281062-5
32	3/8" Washers	9333052
8	1/2" SAE Washers	9345002
16	3/8" Lock Nuts	9413002
4	3/8" x 2" Barrel Nuts	9443092-TR

Specifications

ARCH BRIDGE:

Walking surface shall be fabricated using 12 gauge punched sheet steel with reinforcing cross members and gussets. Each Arch Bridge will be PVC coated after fabrication and railed by contoured pipe style wall barriers.

ARCH BRIDGE WALL:

Shall be fabricated using 5/8" solid round bar stock welded vertically on 3" centers between 1" standard pipe horizontal rails. Finished with a baked on powder coating.

MOUNTING BLOCKS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.

Installation

Notes:

(A) Never allow more than 3½" between the top of the Bridge and the lower Arch Bridge Wall rail.

(B) Collar Locations: The top collar will be placed 39" up from the top of the deck to the top of the collar.

(C) Use liquid thread lock (such as Loctite) with all threaded hardware that does not include self-locking nuts.

Step 1. - Arch Bridge to Decks

Attach each face of the Arch Bridge to the adjacent deck faces using the hardware shown in Fig. 1. Snug tighten all fasteners.

Step 2.

Check to ensure that the Arch Bridge is square to the adjacent decks and flush to the top. Make any adjustments if necessary and fully tighten all fasteners.

Step 3. - Arch Bridge Walls to Posts

Locate and mark the positions of the collars on the support post (Note B) and attach using the hardware shown on the Collar Assembly page 09.

Step 4.

Attach the Mounting Blocks to the post Collars and secure with the Socket Head Cap Screw.

Step 5.

Attach the Arch Bridge Wall to the Mounting Blocks using the hardware shown in Figure 2. Snug tighten all fasteners.

Step 6.

Check to ensure that the Arch Bridge Wall is properly installed (see Note A), and then fully tighten all fasteners.

IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

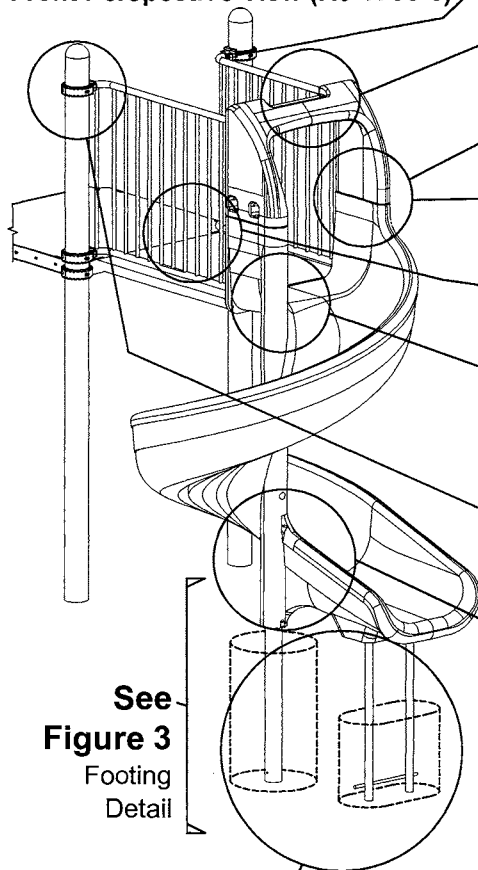
(B) Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) This Assembly requires additional Assembly Pages. See also Assembly Page R5-09 Collars, and R5-11 Socket Clamps.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.

Assembly View

Front Perspective View (R5-1706-6)



See
Figure 3
Footing
Detail

See Figure 2
Center Support, Slide
Leg and Footing Pin
Connection

See Assembly Page R5-09 Collars and
R5-11 Socket Clamps

See Figure 1

Sit-Down Bar to Slide Hood Connection

See Figure 6

Spiral Slide Hood to Spiral Slide Connection

See Figure 7

Spiral Slide Wall to Spiral Slide Assembly Connection

See Figure 4

Spiral Slide Deck to Adjoining Deck Connection

See Figure 8

Spiral Slide Assembly to Spiral
Slide Deck Connection

See Figure 9a

Spiral Slide Wall to Socket
Clamp and Collar Connection

See Figure 9b

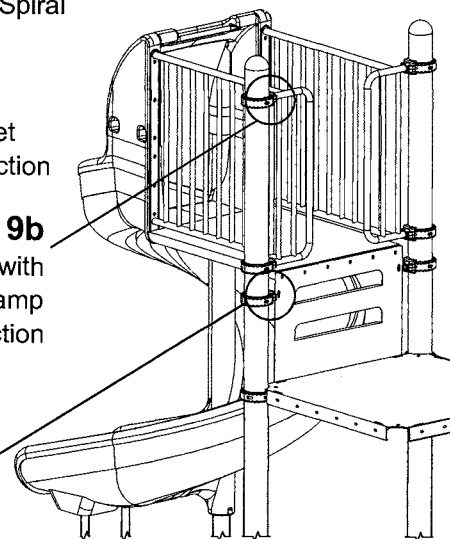
Spiral Slide Wall with
Handle to Socket Clamp
and Collar Connection

See Figure 10

Bottom Collar and Tek
Screw Connection

See Figure 5b

8" Filler, Filler Support 12
and 24" Step Filler Options
Mounting Lug Connection



Assembly View

Rear Perspective View (R5-1706-6-HW)



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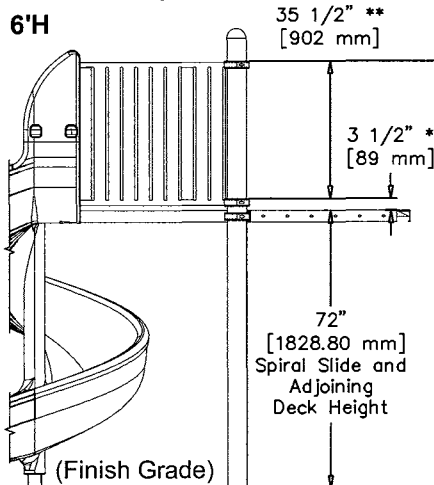
Elevation Views - Side Views

* Dimension given is from Top of Deck to Top of Collar

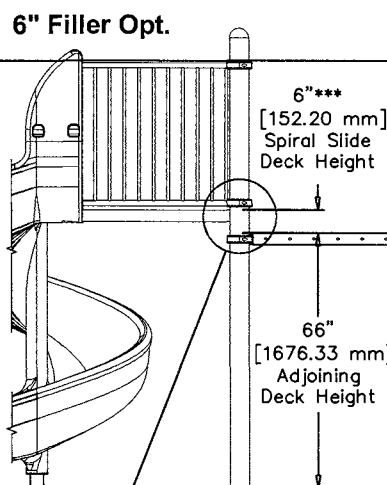
** Dimension given is from Top of Lower Collar to Top of Upper Collar

*** Dimension given is from Top of Deck to Top of Deck

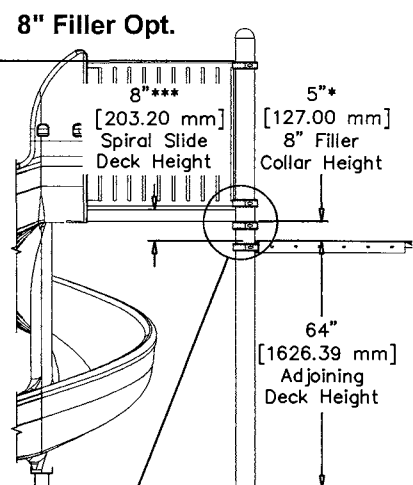
R5-1706-6 Spiral Slide 6'H



Spiral Slide 6'H w/ 6" Filler Opt.



Spiral Slide 6'H w/ 8" Filler Opt.



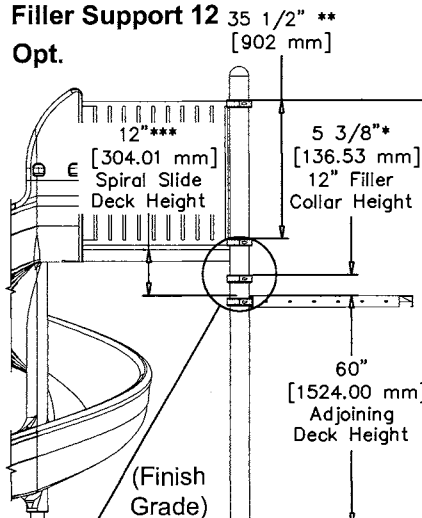
See Figure 5a

Spiral Slide Deck to Adjoining Deck Filler Option Connection

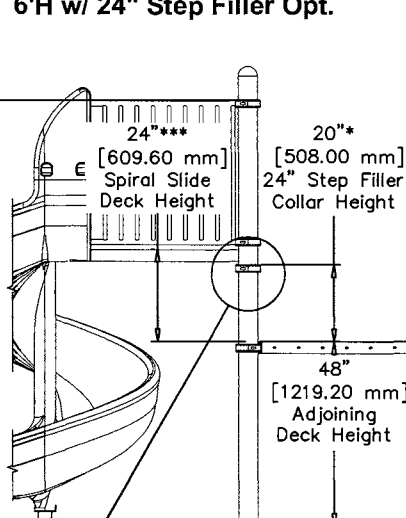
See Figure 5b

8" Filler Option Mounting Lug Connection

Spiral Slide 6'H w/ Filler Support 12" Opt.



R5-1706-6-HW Spiral Slide 6'H w/ 24" Step Filler Opt.

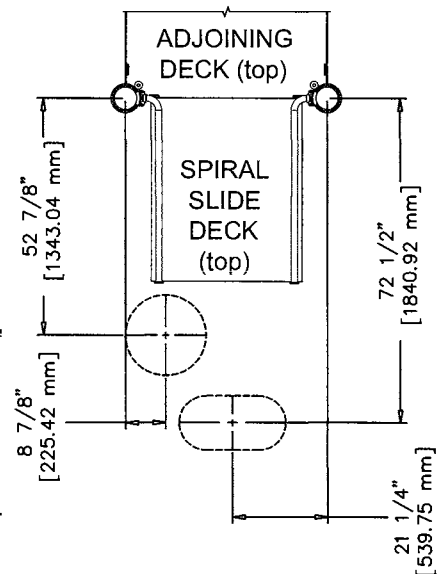


See Figure 5b

12" Filler Option Mounting Lug Connection

See Figure 5b

24" Step Filler Option Mounting Lug Connection



Footings Layout

Top View (Spiral Slide Assembly hidden for clarity)

Figure 1

Sit-Down Bar to Spiral Slide Hood Connection

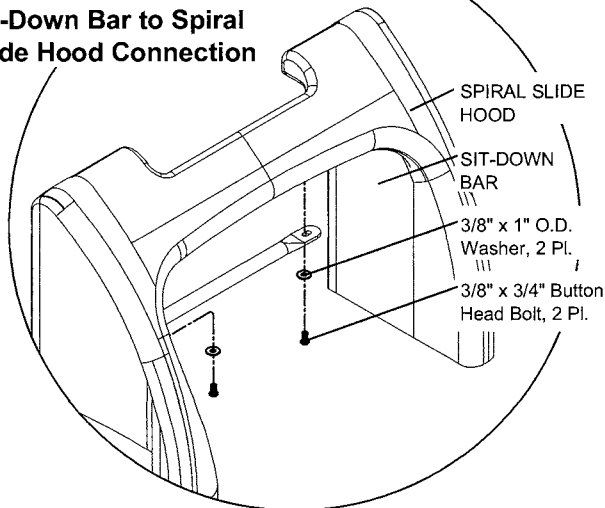


Figure 2

Center Support, Slide Leg and Footing Pin Connection

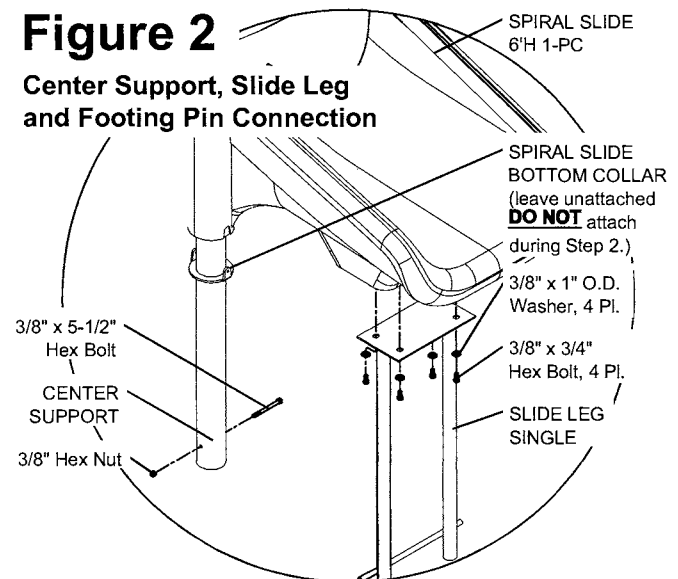
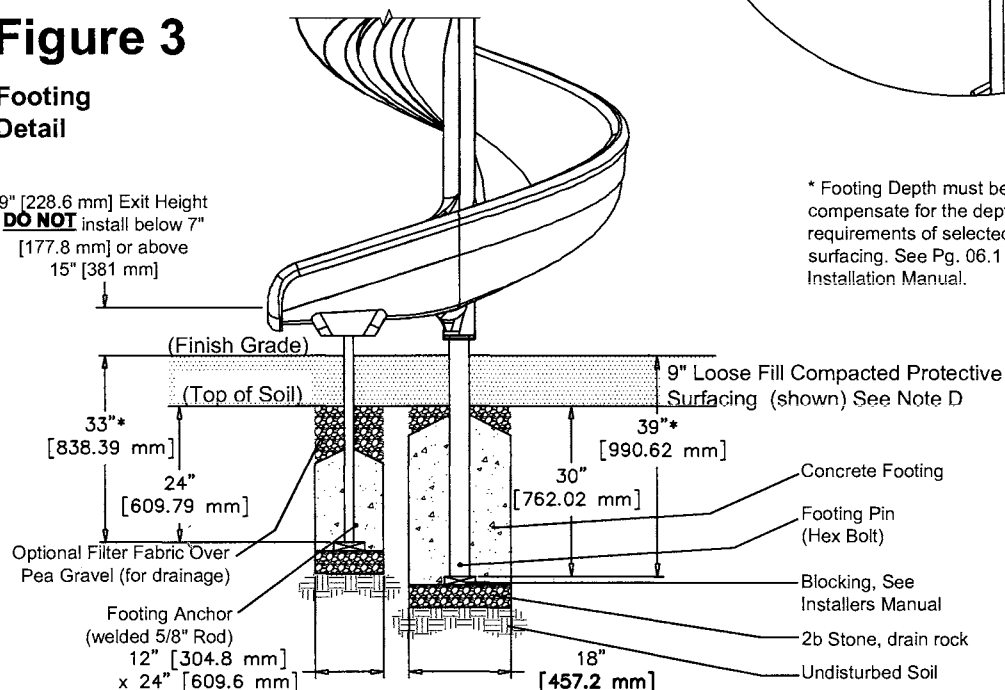


Figure 3

Footing Detail

9" [228.6 mm] Exit Height
DO NOT install below 7"
[177.8 mm] or above
15" [381 mm]



* Footing Depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Pg. 06.1 of the Installation Manual.

Figure 4

Spiral Slide Deck to
Adjoining Deck Connection

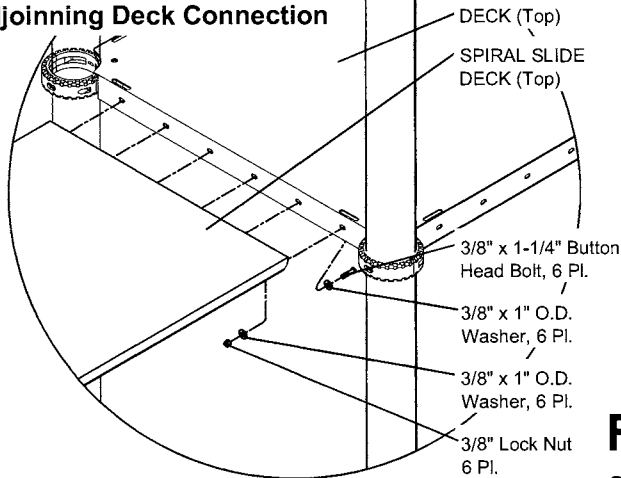


Figure 5a

Spiral Slide Deck to Adjoining
Deck Filler Option Connection

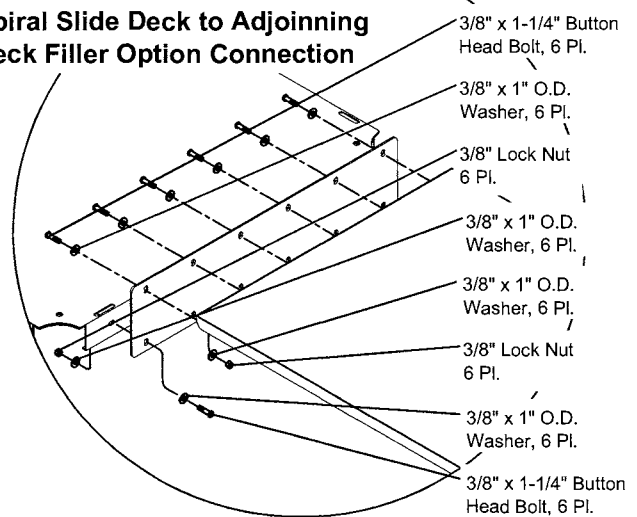
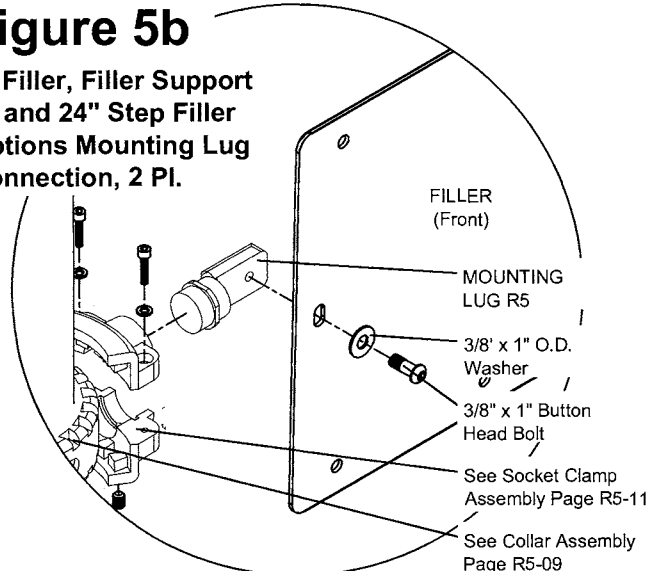


Figure 5b

8" Filler, Filler Support
12 and 24" Step Filler
Options Mounting Lug
Connection, 2 Pl.



NOTE: For Filler Options Refer to Page 2 for Collar Locations	
6" Filler Part# 007085	Filler Support 12 Part# 007047
8" Filler Part# 007272	24" Step Filler (Half Walls Required) Part# 007221

Figure 6

**Spiral Slide Hood to
Spiral Slide Connection**

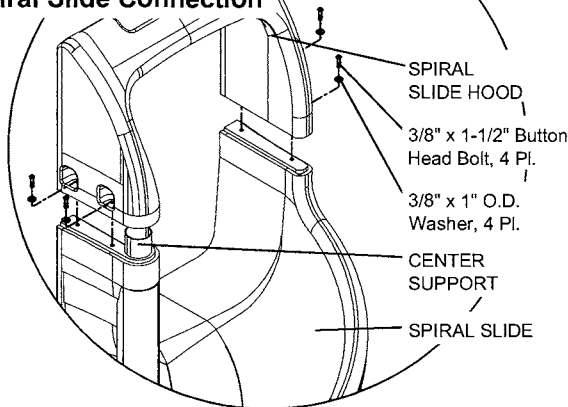


Figure 7

**Spiral Slide Wall to Spiral
Slide Assembly Connection**

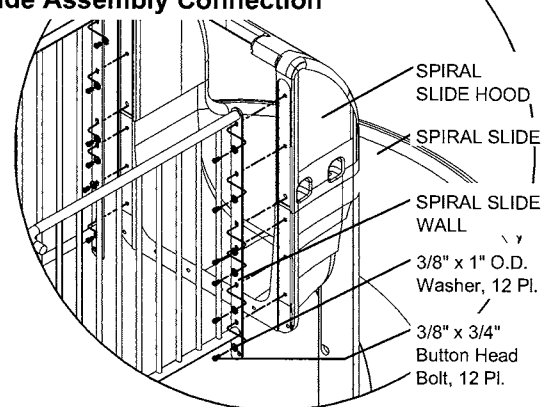


Figure 8

**Spiral Slide Assembly to
Spiral Slide Deck Connection**

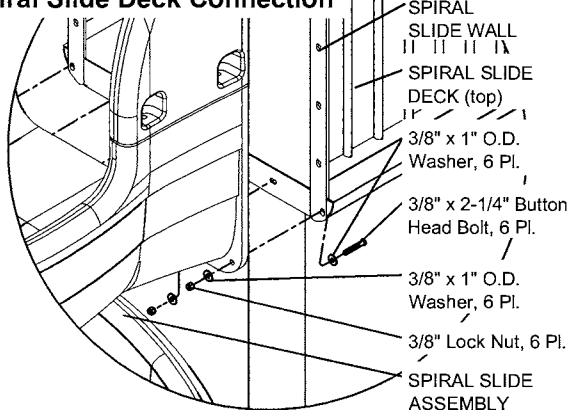


Figure 9a

**Spiral Slide Wall to Socket Clamp
and Collar Connection, 4 Pl.**

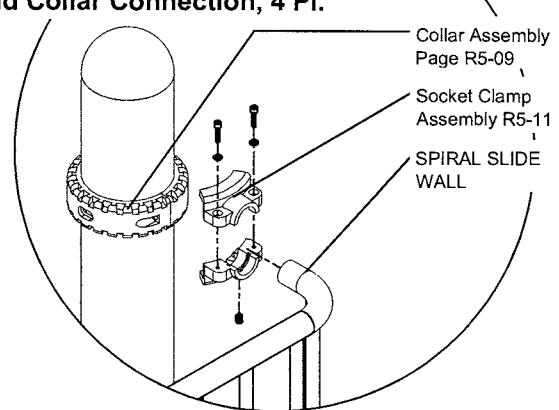


Figure 9b

**Spiral Slide Wall with Handle to Socket
Clamp and Collar Connection, 4 Pl.**

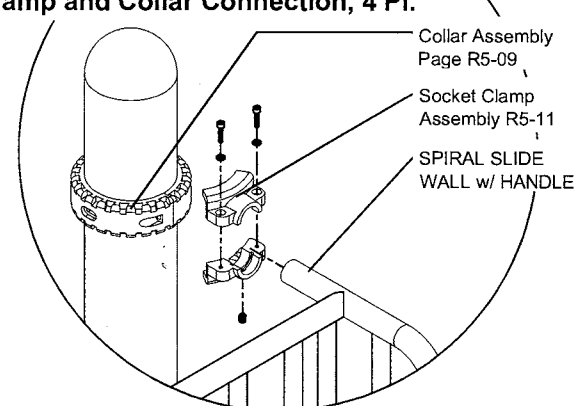
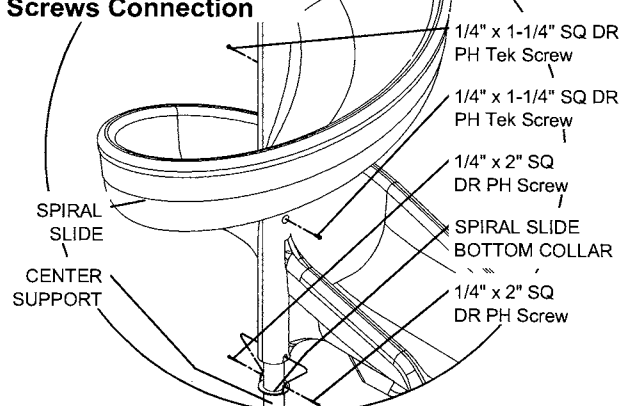


Figure 10

**Bottom Collar and Tek
Screws Connection**



Parts List - R5-1706-6

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
004487	Spiral Slide Deck #3	1
004490	Spiral Slide Bottom Collar	1
116704	Slide Spiral Hood	1
116724	Slide Spiral 6'H 1-PC	1
672611-11	Support Post 3.5" O.D. x 132"	1
See Pg. R5-11	Socket Clamp Assy.	4
FS-1701	Slide Leg Single	1
FS-1706-R	Spiral Slide Wall R5	1 Set
9103032-TR	Bolt Button Head 3/8" x 3/4"	12
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	6
9123032	Bolt Hex 3/8" x 3/4"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9221092	Screw 1/4" x 2" SQ DR PH	2
9271060	Screw Tek 1/4" x 1-1/4" PH SQ DR	2
9333002	Washer Flat 3/8" x 1" x .100 thick	44
9413002	Nut Lock 3/8"	12
9483602	Nut Hex 3/8"	1

Specifications

SLIDE SPIRAL 6'H 1-PC with HOOD:

Shall be constructed of UV-stabilized, rotationally molded, Linear Low Density Polyethylene with an average single wall thickness of 1/4" with a molded-in footing base. The Slide Spiral 6'H 1-PC with Hood shall have a slide way bed average of approximately 23" wide with 13" high side walls. One-Piece Spiral Slides are designed to attach to a 6'H deck or with a filler option to a lower height deck up to 24" below the Slide deck height of 6'H.

SPIRAL SIT-DOWN BAR KC:

Shall be made from Ø 1.029", 14 gauge steel tubing. The Spiral Sit-Down Bar KC has a multi-stage baked-on powder coat finish.

SPIRAL SLIDE BOTTOM COLLAR:

Shall be precision laser-cut from 1/4" thick sheet steel. The Spiral Slide Bottom Collar shall be zinc coated and have a multi-stage baked-on powder coat finish.

SPIRAL SLIDE WALL R5:

Shall be constructed of Ø 1.315", 12 gauge steel tubing top and bottom rails with welded Ø 1.029", 14 gauge steel tubing vertical rungs. A 1/4" steel wall bracket is welded to the outer rails for mounting wall to Spiral Slide. The Spiral Wall has a multi-stage baked on powder coat finish.

SPIRAL SLIDE DECK #3:

Walking surface shall be fabricated using 12 gauge sheet steel punched and formed with reinforcing cross members and gussets. The Spiral Slide Deck #3 shall be Play-Tuff™ coated after fabrication.

POST R35:

Shall be made from Ø 3.5", 11 gauge galvanized steel tubing.

SLIDE LEG SINGLE:

Shall be constructed of a 3/16" flat plate with (2) Ø 1.660", 11 gauge steel tubing (legs) welded vertically onto the base of the plate. There shall also be a 5/8" Round Bar footing anchor welded to the bottom of the legs to increase support in the footing. The Slide Leg Single has a multi-stage baked on powder coat finish.

MOUNTING LUGS:

Shall be precision die-cast from a high-strength aluminum alloy. The Mounting Lugs have a multi-stage baked-on powder coat finish.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Assembled Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
FS-1706-SB	Spiral Slide Sit-Down Bar KC	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2



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Rev E

Additional Parts List - 6"H Filler Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
007085	Slide Spiral R5 Filler 6"H	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	12
9413002	Nut Lock 3/8"	6

Additional Parts List - 8"H Filler Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
See Pg. R5-11	Socket Clamp Assy.	2
007007	Mounting Lug R5	2
007272	Spiral Slide Filler 8"H	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	14
9413002	Nut Lock 3/8"	6

Additional Parts List - Filler Support 12 Opt.

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
See Pg. R5-11	Socket Clamp Assy.	2
007007	Mounting Lug R5	2
007047	Filler Support 12 R5	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	6
9333002	Washer Flat 3/8" x 1" x .100 thick	14
9413002	Nut Lock 3/8"	6

Parts List - R5-1706-6-HW 24" Step Filler w/ Half Walls

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
004487	Spiral Slide Deck #3	1
004490	Spiral Slide Bottom Collar	1
007007	Mounting Lug R5	2
007221	Vertical Step Slide Spiral	1
116704	Slide Spiral Hood	1
116724	Slide Spiral 6'H 1-PC	1
672611-11	Support Post 3.5" O.D. x 132"	1
See Pg. R5-11	Socket Clamp Assy.	6
FS-1701	Slide Leg Single	1
FS-1706-R2HW	Spiral Slide Wall w/ Handle R5	1 Set
9103032-TR	Bolt Button Head 3/8" x 3/4"	12
9103052-TR	Bolt Button head 3/8" x 1"	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	4
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	6
9123032	Bolt Hex 3/8" x 3/4"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9221092	Screw 1/4" x 2" SQ DR PH	2
9271060	Screw Tek 1/4" x 1-1/4" PH SQ DR	2
9333002	Washer Flat 3/8" x 1" x .100 thk	58
9413002	Nut Lock 3/8"	18
9483602	Nut Hex 3/8"	1

Assembled Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
FS-1706-SB	Spiral Slide Sit-Down Bar KC	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	2

Additional Specifications

SPIRAL SLIDE FILLERS:

Shall be punch from 10 gauge HR Sheet Steel. The Spiral Slide Fillers have a multi-stage baked-on powder coat finish.

VERTICAL STEP SLIDE FILLER:

Shall be punch and formed from 10 gauge HR Sheet Steel. The Vertical Step Slide Filler shall be Play-Tuff™ coated after fabrication.

SPIRAL SLIDE WALL WITH HANDLE R5:

Shall be constructed of Ø 1.315", 12 gauge steel tubing outer rails with welded Ø 1.029" O.D., 14 gauge steel tubing vertical rungs. A 1/4" steel wall bracket is welded to the outer rails for mounting wall to Spiral Slide. The Spiral Wall has a multi-stage baked on powder coat finish.



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Rev E

Installation

Step 1. - This Step is Pre-Assembled.

Attach Spiral Slide Sit-Down Bar to Spiral Slide Hood. Refer to Figure 1 for hardware type and orientation.

Step 2.

Insert Center Support into Bottom Collar with Tabs/Ears pointed away from Footing Pin hole. Attach Footing Pin to Center Support. Insert Center Support into Spiral Slide. Leave Bottom Collar unattached to Center Support during this step. Attach Slide Leg Single to base of Spiral Slide. Refer to Figure 2 for hardware type and orientation.

Step 3.

Attach Collars to Support Posts. Refer to Elevation Views for Collar Location. See also Assembly Page R5-09 for hardware type and orientation.

Step 4.

Refer to Footing Layout and mark footing hole locations. Dig (1) 12" x 24" and (1) Ø 18" footing holes. Refer to Figure 3 for depth and details. **IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

Step 5a.*** For Spiral Slide 6'H 1-PC attached to 72"H Adjoining Decks Only ***

Attach Spiral Slide Deck #3 to Adjoining 6'H Deck. Refer to Figure 4 for hardware type and orientation. Place temporary support under free end of Spiral Slide Deck #3, to hold it in a level position.

Step 5b.*** For Spiral Slides 6'H 1-PC attached to Adjoining Decks of less than 72"H***

Attach Filler to Adjoining Deck and to Spiral Slide Deck. Refer to Figure 5a for hardware type and orientation. For Fillers and Vertical Step Fillers additional mounting is required. Refer to Elevation Views for Collar Placement and See also Assembly Page R5-09 Collars and R5-11 Socket Clamps for hardware type and orientation Refer to Figure 5b for hardware type and orientation for attaching Fillers to Mounting Lugs and Socket Clamps. Place temporary support under free end of Spiral Slide Deck #3, to hold it in a level position.

Step 6.

Attach Spiral Slide Hood to Spiral Slide. Refer to Figure 6 for hardware type and orientation.

Step 7a.*** For Spiral Slide 6'H 1-PC attached to 60" - 72"H Adjoining Decks Only ***

Attach Spiral Slide Wall to Spiral Slide Assembly. Refer to Figure 7 for hardware type and orientation.

Step 7b.*** For Spiral Slide 6'H 1-PC attached with 24" Step Filler to 48"H Adjoining Decks Only ***

Attach Spiral Slide Wall with Handle to Spiral Slide Assembly. Refer to Figure 7 for hardware type and orientation.

Step 8.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 9.

Place Spiral Slide Assembly with Walls attached into place. Attach Spiral Slide to Spiral Slide Deck. Refer to Figure 8 for hardware type and orientation. Remove temporary support.

Step 10a.*** For Spiral Slide 6'H 1-PC attached to 60" - 72"H Adjoining Decks Only ***

Attach Spiral Slide Wall to Collar using Socket Clamp Assembly and orientation. Refer to Figure 9a for wall orientation. See also Assembly Page R5-11 for hardware type and orientation.

Step 10b.*** For Spiral Slide 6'H 1-PC attached with 24" Step Filler to 48"H Adjoining Decks Only ***

Attach Spiral Slide Wall with Handle to Collar using Socket Clamp Assembly and orientation. Refer to Figure 9b for wall orientation. See also Assembly Page R5-11 for hardware type and orientation.

Step 11.

Verify Exit Height. Refer to Figure 3 for details. Plumb and level Spiral Slide and Spiral Slide Deck. Block and Brace. Attach Spiral Slide Assembly to Center Support using Spiral Slide Bottom Collar. Refer to Figure 10 for hardware type and orientation.

Step 12.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

Step 13.

Verify Spiral Slide and Deck are plumb and level. Block and brace prior to pouring concrete into footing holes. Pour concrete into footing holes. Refer to Figure 3 for details. Allow a minimum of 72 hours to cure before using this equipment. See Note B.

Step 14.

Place compliant protective surfacing under and around Center Support and Slide Leg Single. See Note D.

Maintenance

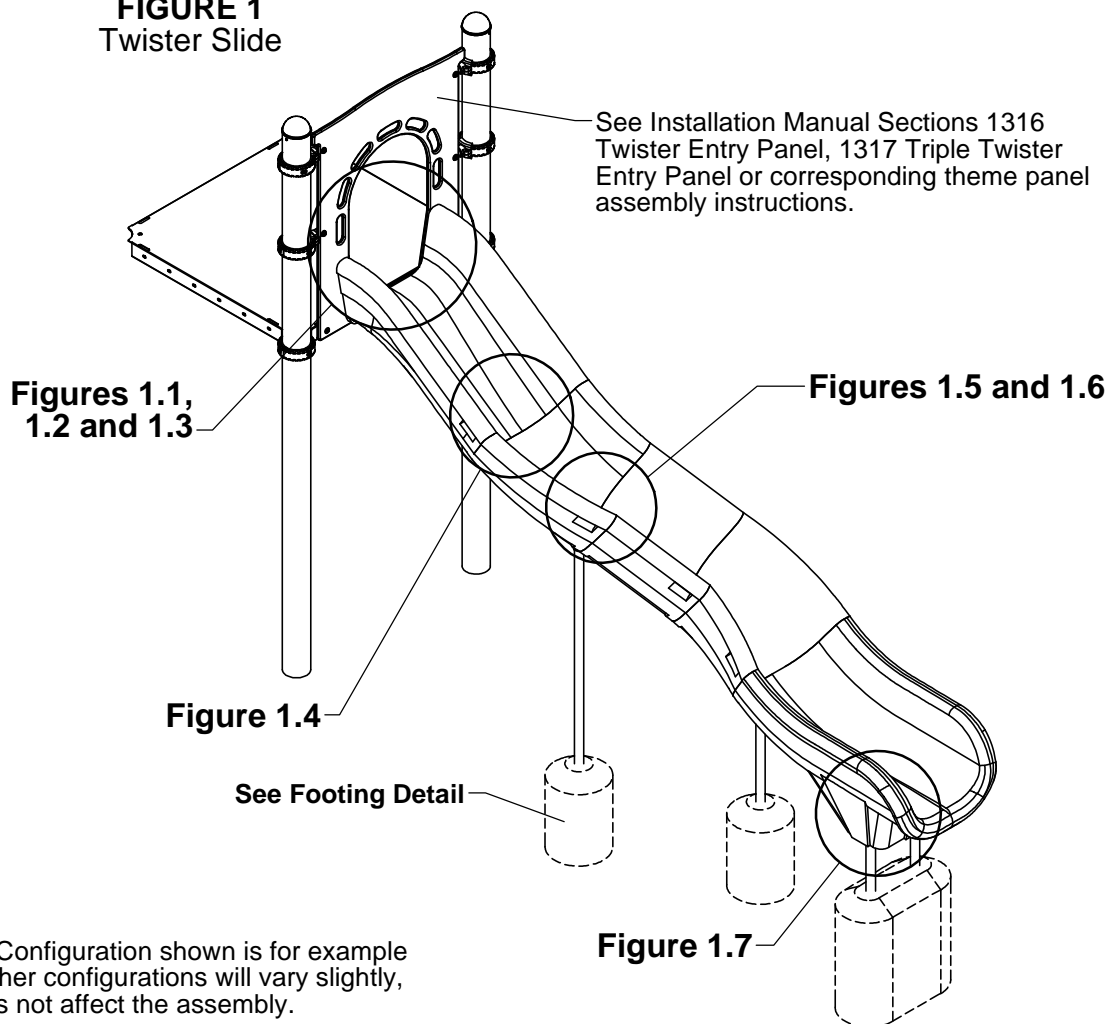
Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



IMPORTANT NOTES: Read First

- (A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.
- (B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).
- (C) Refer to Installation Manual for 1316 Twister Entry Panel, 1317 Triple Twister Entry Panel assembly instructions or corresponding theme panel assembly instructions.
- (D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.CPSC.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.
- (E) Exit height must be between 7" [180mm] and 15" [380mm] from finish grade for slides with an elevation greater than 48". For slide elevations no greater than 48", the exit height shall be no greater than 11". Exit region must also have a downward slope of 0 to 4°.

FIGURE 1
Twister Slide



NOTE: Configuration shown is for example only. Other configurations will vary slightly, but does not affect the assembly.

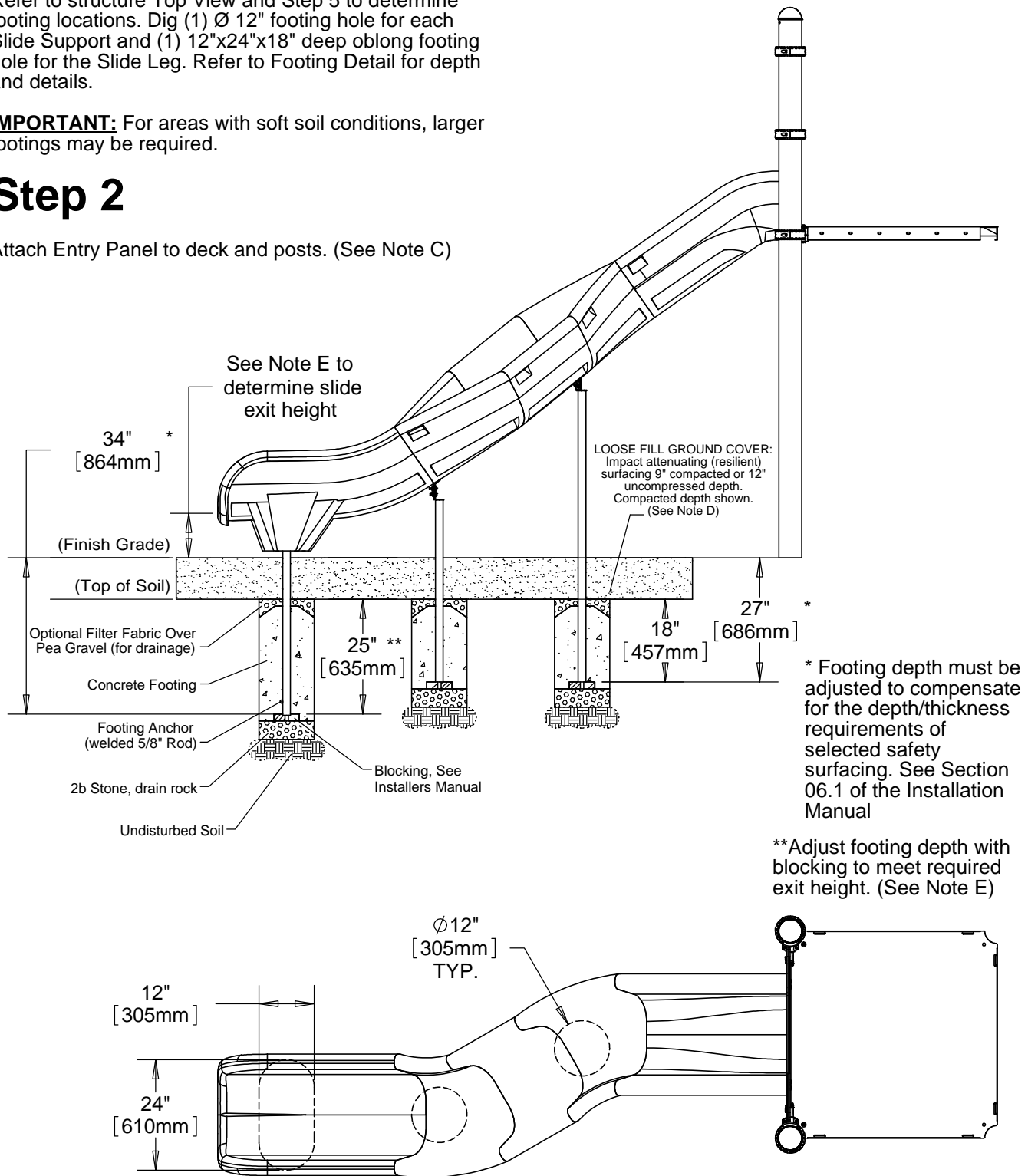
Step 1

Refer to structure Top View and Step 5 to determine footing locations. Dig (1) Ø 12" footing hole for each Slide Support and (1) 12"x24"x18" deep oblong footing hole for the Slide Leg. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

Step 2

Attach Entry Panel to deck and posts. (See Note C)



Step 3

Attach Entry Section(s) to Entry Panel as shown in Figure 1.1. (See Note A)

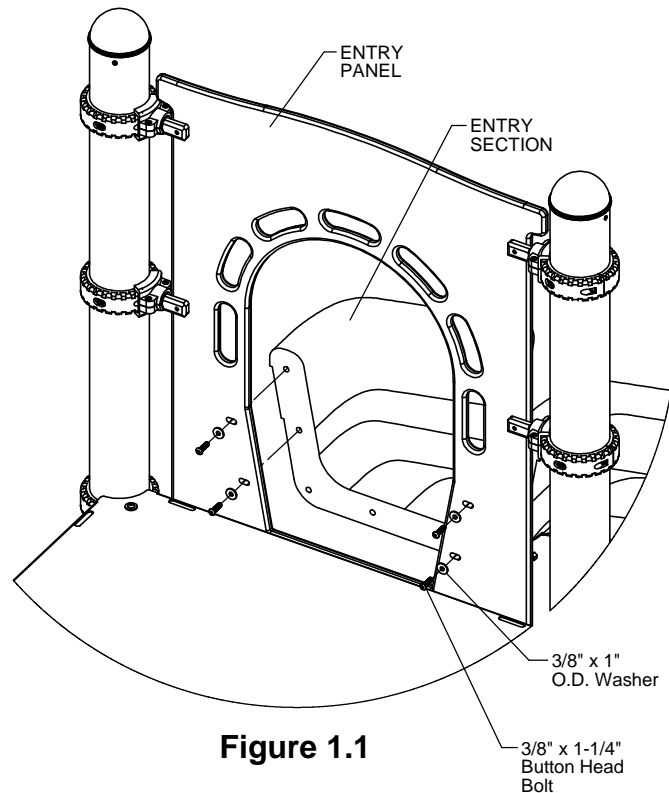


Figure 1.1

Step 4

For Entry Sections including all Triple Twister Entry Panels use the hardware shown in Figure 1.2. (See Note A)

For Single Canada Entry Panels, attach Entry Section to deck as shown in Figure 1.3. (See Note A)

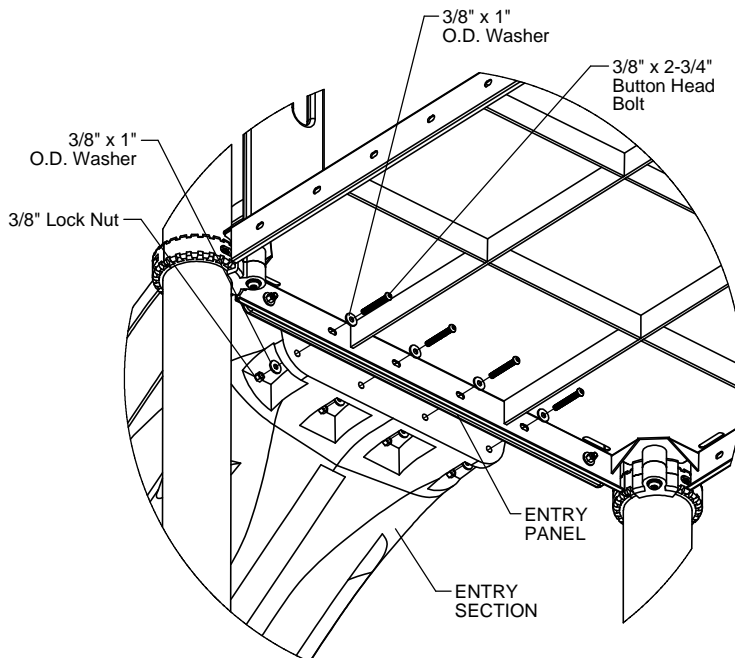


Figure 1.2

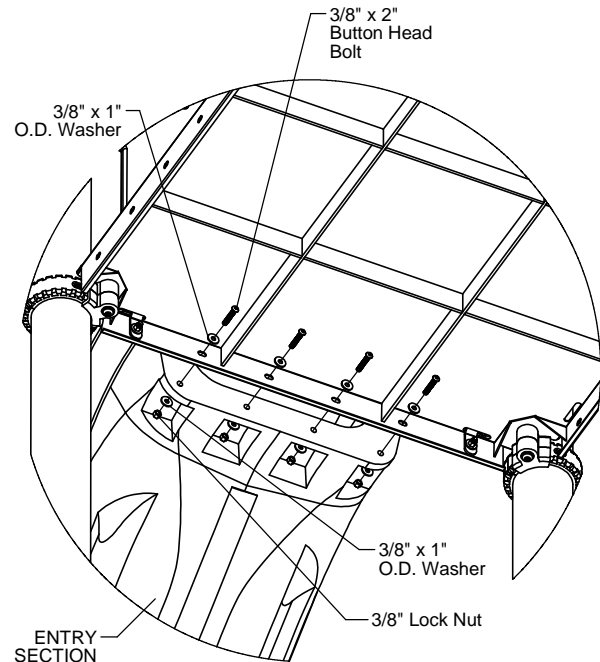


Figure 1.3

Step 5

Attach sections together as shown in Figure 1.4. Refer to structure Top View for configuration and support locations. For section joints where Support Bracket is attached, see Figure 1.5. (See Note A)

Determine footing center location by dropping plumb bob from Support Bracket(s).

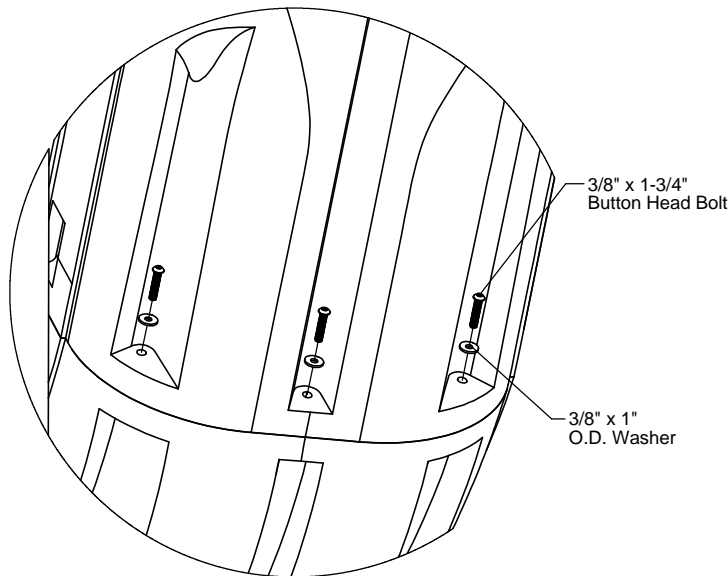


Figure 1.4

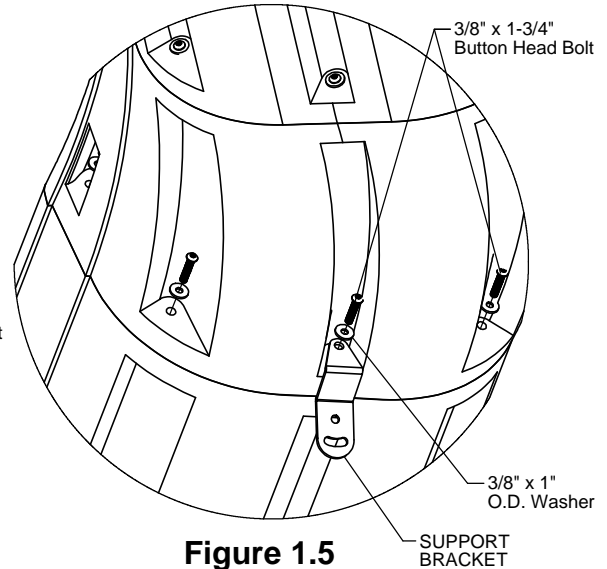


Figure 1.5

Step 6

Place Slide Support in footing hole and attach to Support Bracket as shown in Figure 1.6. (See Note A)

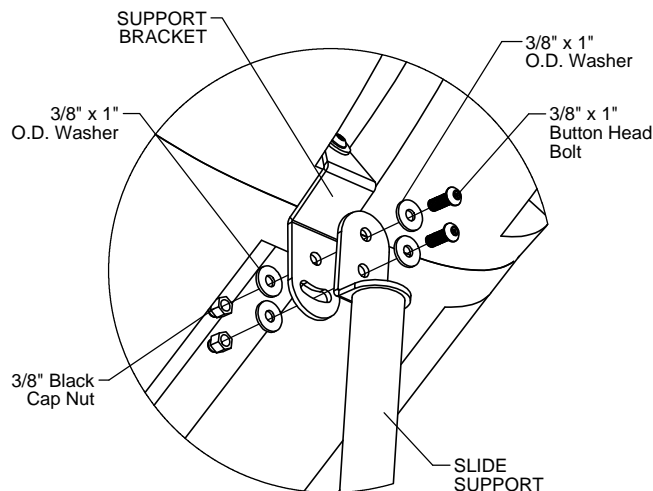


Figure 1.6

Step 7

Place Slide Leg in footing hole and attach to Exit Section as shown in Figure 1.7. (See Note A)

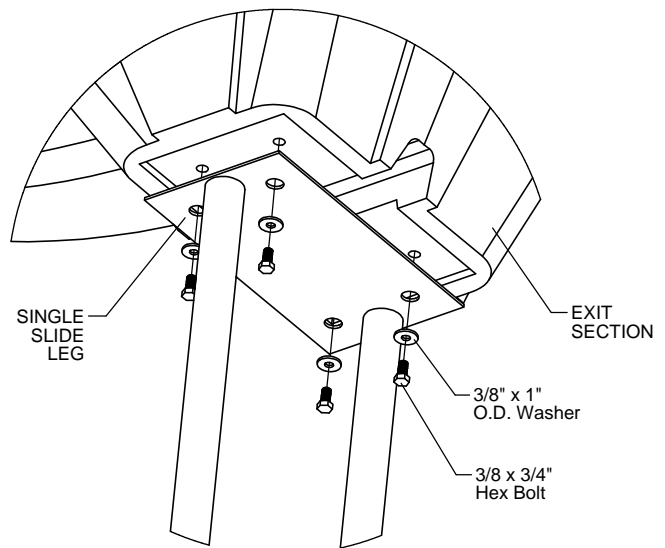


Figure 1.7

Step 8

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 9

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Notes B and E)

Step 10

Place appropriate compliant protective surfacing under and around Twister Slide. (See Note D)

Specifications

TWISTER SLIDE SECTIONS:

Shall be constructed of UV-stabilized rotationally molded linear low density polyethylene with an average wall thickness of .250".

TWISTER SLIDE SUPPORT:

Shall be fabricated of 1.660" O.D. 11 gauge steel tubing welded to a 3/16" formed and punched steel plate. Twister Slide Support has a multi-stage baked-on powder coat finish.

SINGLE SLIDE LEG:

Shall be fabricated of 1.660" O.D. 11 gauge steel tubing welded to a 10 gauge steel plate. The Single Slide Leg has a multi-stage baked-on powder coat finish.

HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

TWISTER SLIDE - TRIPLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	3
DE-4339-EXT	Twister Slide - Exit	3
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	3
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	12
9103122-TR	Bolt Button Head 3/8" x 2-3/4"	12
9123032	Bolt Hex 3/8" x 3/4"	12
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	48
9413002	Nut Lock 3/8"	12

Parts List

TWISTER SLIDE - SINGLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	1
DE-4339-EXT	Twister Slide - Exit	1
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103122-TR	Bolt Button Head 3/8" x 2-3/4"	4
9123032	Bolt Hex 3/8" x 3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	16
9413002	Nut Lock 3/8"	4

TWISTER SLIDE - CANADA SINGLE		
Part #	DESCRIPTION	QTY.
DE-4339-ENT	Twister Slide - Entry	1
DE-4339-EXT	Twister Slide - Exit	1
DE-4339-L	Twister Slide - Left	Varies
DE-4339-R	Twister Slide - Right	Varies
DE-4339-S	Twister Slide - Straight	Varies
FS-1701	Single Slide Leg	1
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103092-TR	Bolt Button Head 3/8" x 2"	4
9123032	Bolt Hex 3/8" x 3/4"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	16
9413002	Nut Lock 3/8"	4

EACH MID-SUPPORT		
Part #	DESCRIPTION	QTY.
BE-4500	Sectional Slide Support Bracket #2	1
FS-1710-S	Sectional Slide Support	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	4
9413162-BLK	Nut Lock 3/8" w/ Black Cap	2

EACH SECTION JOINT		
Part #	DESCRIPTION	QTY.
9103082-TR	Bolt Button Head 3/8" x 1-3/4"	5
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	5

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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Rev F
9/17/2009

Assembly View

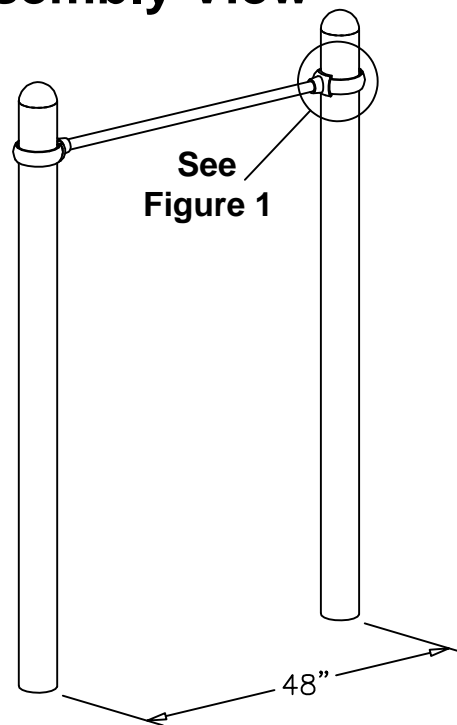
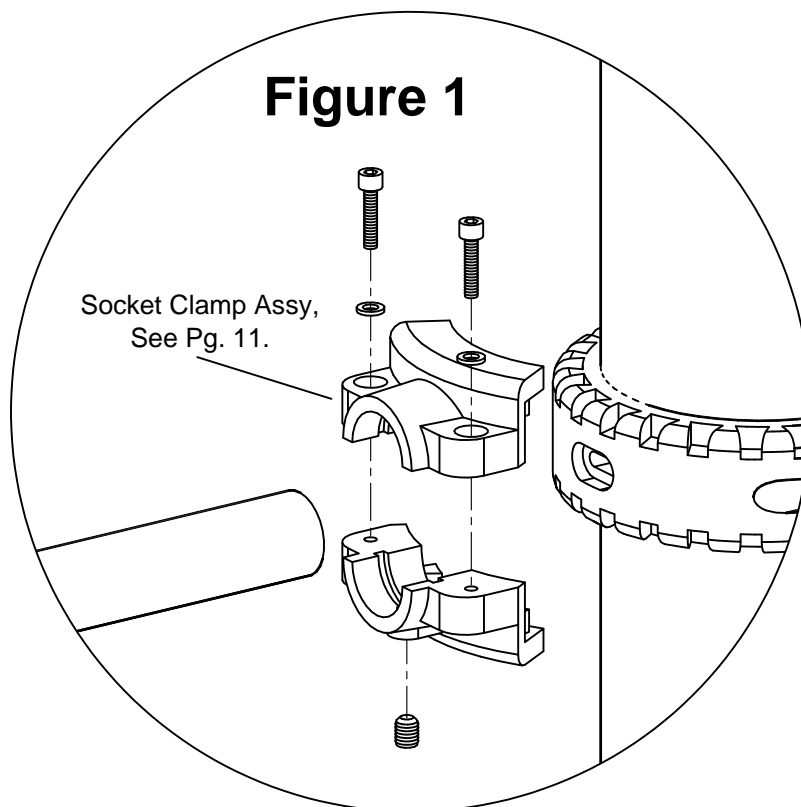


Figure 1



CHINNING BAR ASSEMBLY

R5-1930

Page 2 of 2

Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	Chinning Bar	FS-1930
2	R5 Socket Clamp Assy.	See Pg. 11

Instructions

Notes:

(A) The height of the Chinning Bar from the top of ground cover varies by age group.

Ages 2-5: 60" Max. above ground cover.

Ages 5-12: 84" Max. above ground cover.

(B) Use liquid thread lock (such as Loctite) with all threaded hardware. ***Important:*** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

Step 1.

Locate and mark collar positions as shown in the Assembly View, and attach as shown on Collar Assembly Page 09.

Step 2.

Attach the Chinning Bar to the support collars as shown in Figure 1. See Socket Clamp Assembly Page 11.

Step 3.

Fully tighten all fasteners.

Specifications

CHINNING BAR:

Shall be 1.315" O.D. round steel tubing and finished with a baked on powder-coat.

SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. Finished with a baked on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.

A periodic inspection of all parts is necessary.

If a part is broken or worn, replace immediately.

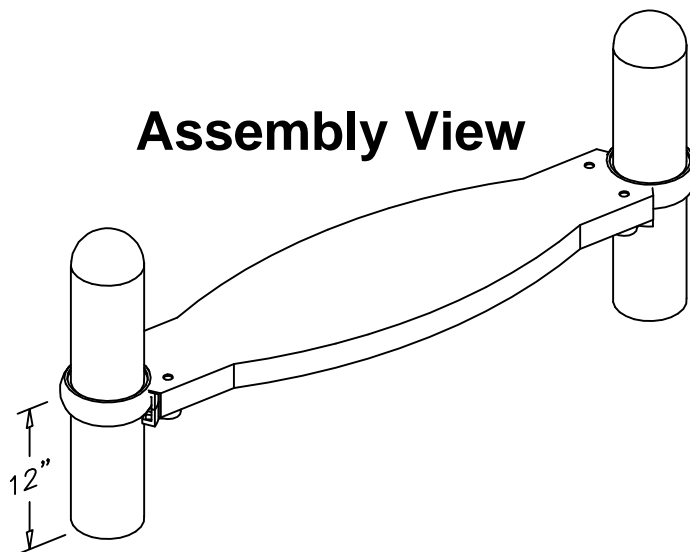
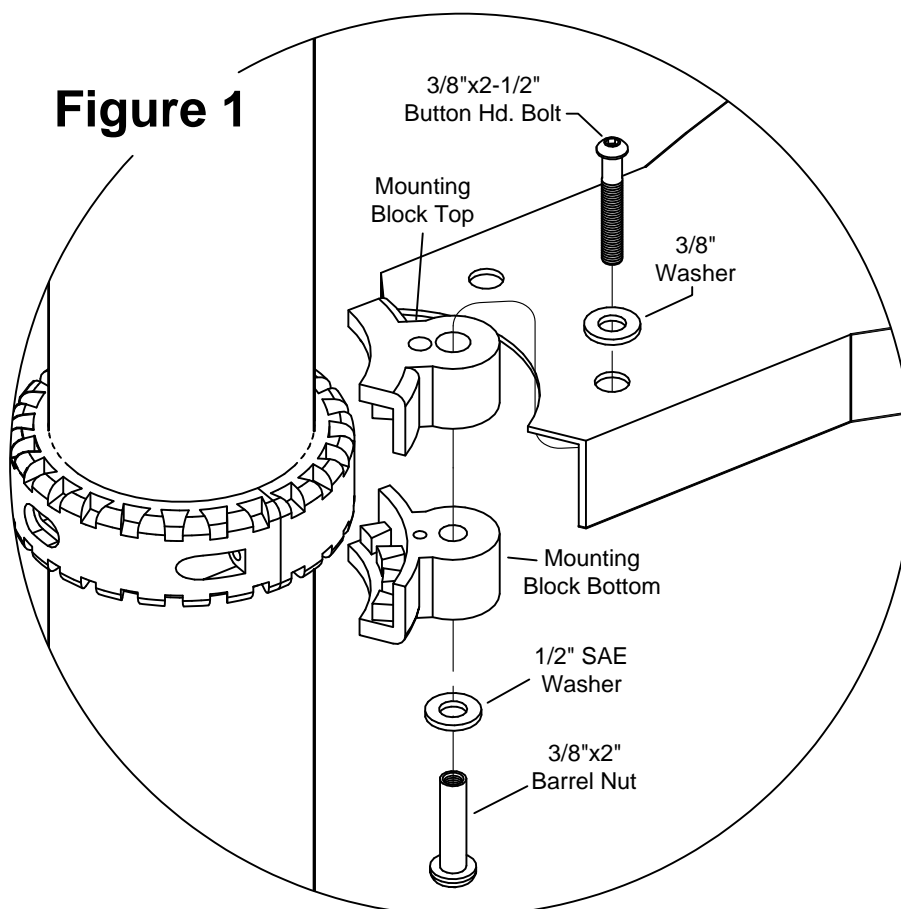


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Assembly View

**Figure 1**

Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	Play Seat R5	7077
4	Mounting Block Top	7006-T
4	Mounting Block Bottom	7006-B
4	3/8x2-1/2" Button Hd. Bolts	9103112-TR
4	3/8" Washers	9333002
4	1/2 SAE Washers	9345002
4	3/8x2" Barrel Nuts	9443092-TR

Installation

Notes:

(A) Locate the collars 12" above ground cover (finish grade) or Deck, to the top of the collar.

(B) Use liquid thread lock (such as Loctite) with all threaded hardware not including self-locking nuts.

Step 1.

Mark the position of the Collars on the supporting posts and attach using the hardware shown on the collar assembly page R35-09.

Step 2.

Attach the Play Seat to the supporting posts as shown in Figure 1.

Step 3.

Fully tighten all fasteners.

Specifications

PLAY SEAT:

Shall be punched and formed of 12 gage, PVC coated steel.

MOUNTING BLOCKS:

Shall be two part and precision die-cast from a high strength aluminum alloy. Finished with a baked-on powder coating.

HARDWARE:

Shall be zinc/nickel plated, galvanized or stainless steel as required to resist rust and corrosion.

Maintenance

Periodically tighten all screws, bolts and nuts.
A periodic inspection of all parts is necessary.
If a part is broken or worn, replace immediately.



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