

Contract 9398

Appendix A

Playground Installation Instructions

Page No.	Park
2	Hiestand Park
125	Lake View Heights Park
313	Penn Park
581	Sherman Village Park
814	Sherry (OB) Park

Playground Installation Instructions: Hiestand Park



PROPOSAL: 142-114494-1

HIESTAND PARK



INFORMATION
MINIMUM FALL ZONE
SURFACED WITH
RESILIENT MATERIAL
AREA

3715 SQ.FT.

PERIMETER
567 FT.

STRUCTURE SIZE
65' 9" x 85' 5"

STRUCTURE IS DESIGNED
FOR CHILDREN AGES:

- 6-23 MONTH OLDS
- 2-5 YEAR OLDS
- 5-12 YEAR OLDS
- 13 + YEAR OLDS



Registered
to ISO 9001

Registered
to ISO 14001

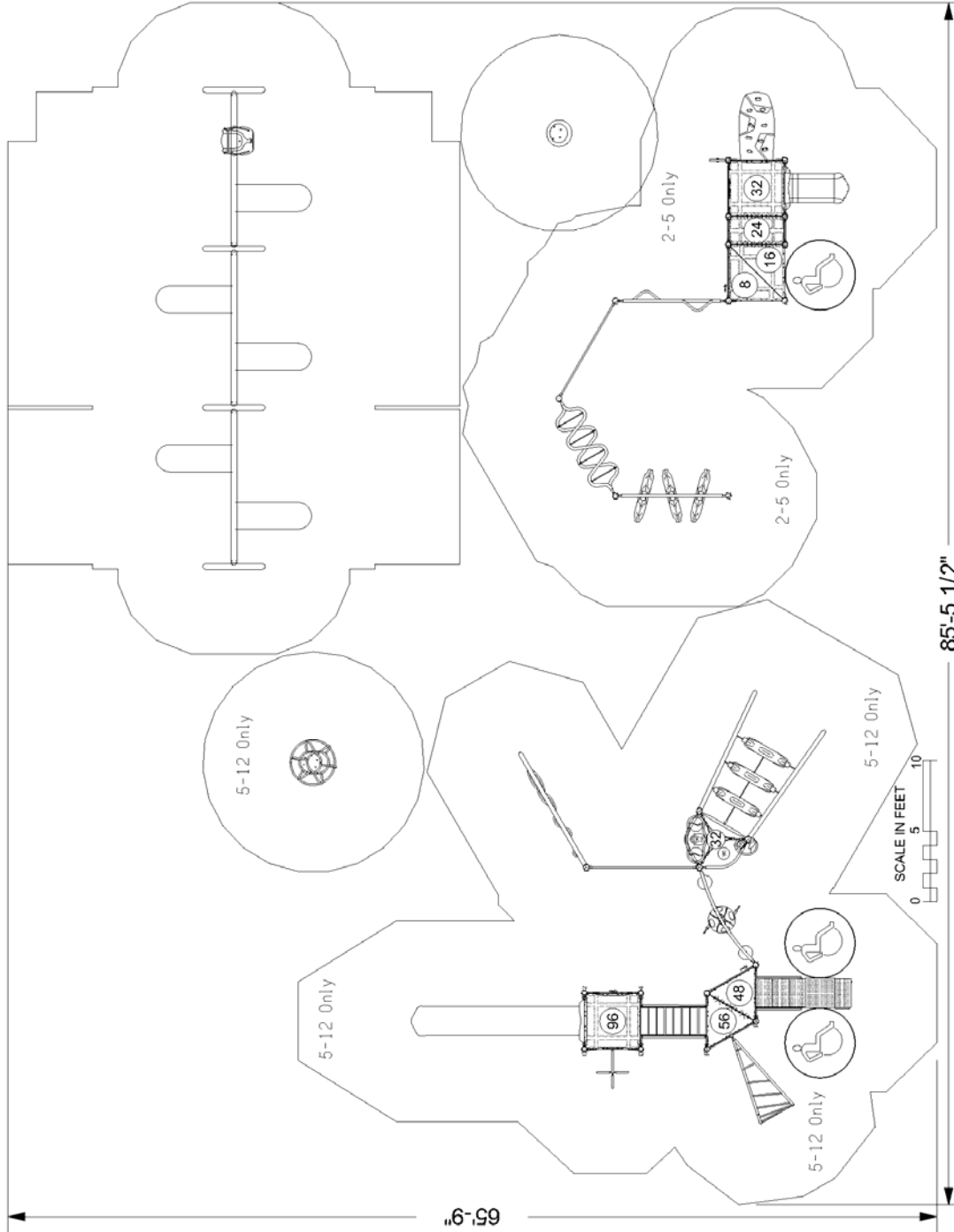


To verify product certification,
visit www.ipema.org

The play components identified
in this plan are IPEMA
certified. The use and layout of
these components conform to the
requirements of ASTM F1487.
To verify product certification,
visit www.ipema.org

The space requirements shown
here are to ASTM standards.
Requirements for other standards
may be different.

The use and layout of play
components identified in this plan
conform to the CPSC guidelines.
U.S. CPSC recommends the
separation of age groups in
playground layouts.



WARNING!

ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH
AND AROUND THIS EQUIPMENT.
FOR SLIDE FALL ZONE SURFACING AREA SEE CPSC's Handbook for
Public Playground Safety.
PLATFORM HEIGHTS ARE IN INCHES ABOVE RESILIENT MATERIAL.

ADA ACCESSIBILITY GUIDELINE (ADAAG CONFORMANCE)

NUMBER OF PLAY EVENTS:	25
NUMBER OF ELEVATED PLAY EVENTS:	9
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP:	PROVIDED: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY TRANSFER SYSTEM:	PROVIDED: 9
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP OR TRANSFER SYSTEM:	PROVIDED: 16
NUMBER OF GROUND LEVEL PLAY EVENTS:	RECD: 3
NUMBER OF TYPES OF GROUND LEVEL PLAY EVENTS:	RECD: 5
NUMBER OF PLAY EVENTS:	RECD: 0
NUMBER OF ELEVATED PLAY EVENTS:	RECD: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP:	RECD: 5
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY TRANSFER SYSTEM:	RECD: 3
NUMBER OF GROUND LEVEL PLAY EVENTS:	RECD: 3
NUMBER OF TYPES OF GROUND LEVEL PLAY EVENTS:	RECD: 5

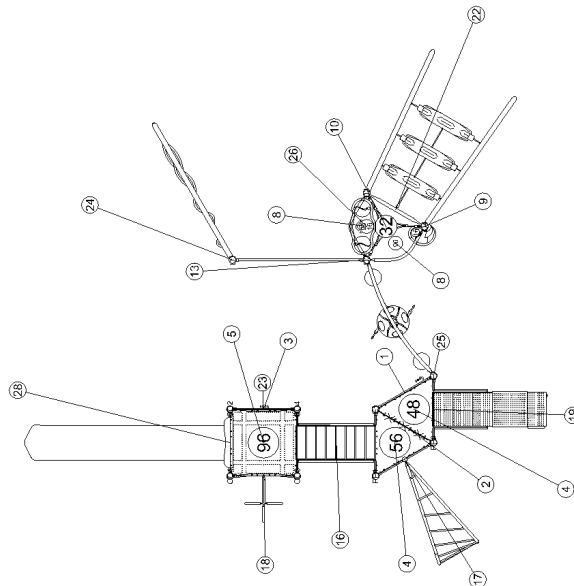
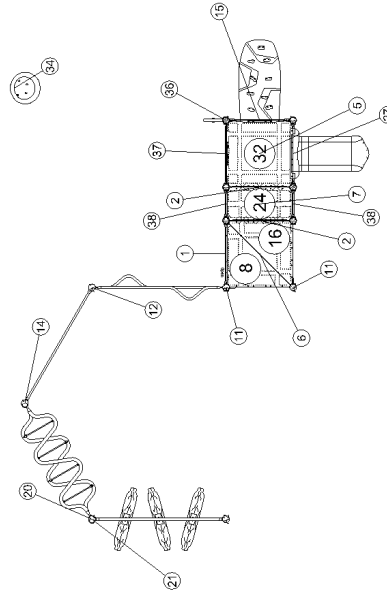
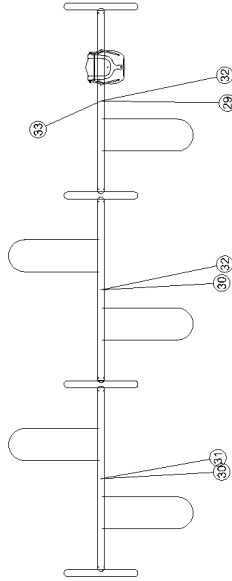


SERIES: Basics, Intensity, Nucleus
SITE PLAN
DRAWN BY: John Uelmen

Hiestand Park
4302 Milwaukee St
Madison, WI 53714

January 02, 2019
Lee Recreation, LLC
142-114494-1

ITEM	COMP.	DESCRIPTION
1	270-0001	OFFSET ENCLOSURE
2	270-0050	8" CLOSURE PLATE
3	270-0112	UNITARY ENCLOSURE
4	270-0129	TRIANGLE PLATFORM
5	270-0130	SQUARE PLATFORM
6	270-0136	SPLIT SQUARE PLATFORM
7	270-0290	HALF PLATFORM
8	370-0001	AGILITY ARC
9	370-0002	PEP STEP
10	370-0009	HEALTHY HAMMOCK
11	370-0016	GRAB BAR ASSEMBLY
12	370-0031	POWER PIPES CLIMBER 2-5
13	370-0033	ODYSSEY POST LINK DOUBLE
14	370-0034	ODYSSEY POST LINK SINGLE
15	370-0037	ASCEND ROCK CLIMBER, 32" - 40"
16	370-0469	40" TRANSITION STAIR W/BARRI
17	370-0552	CENTER MOUNT TWIST N' TUR
18	370-0557	LINKING RING CLIMBER 80"-96"
19	370-0720	TRANSFER STATION, HANDRAIL
20	370-0815	TWISTING TRAVERSE 2-5
21	370-0835	TRIGON ARCH, GL
22	370-0836	TRIGON ARCH CLIMBER, INTENS
23	370-0870	TREE BRANCH CLIMBER 96"
24	370-1584	APEX WAVE CLIMBER
25	370-1620	TAKTIKS BOW CLIMBER
26	470-0101	DYNAMIC PAD
27	470-0514	ROCKN ROLL SLIDE, 24" - 32"
28	470-0757	VELO XL SLIDE, 88" - 96"
29	550-0111	BELT SEAT, 8" SINGLE, STD CHA
30	550-0112	BELT SEAT, 8" PAIR, STD CHAIN
31	550-0135	5" OD ARCH SWING
32	550-0136	5" OD ARCH SWING ADD-ON
33	550-0171	FREEDOM SWING SEAT, 8" BEA
34	560-2573	KIDFORCE SPINNER
35	560-2586	COMET I
36	570-0718	HYPNO ACTIVITY PANEL
37	570-1863	RAIN WHEEL PANEL
38	570-2624	HALF PIPE WALL



Burke

SERIES: Basics, Intensity, Nucleus
 COMPONENT PLAN
 DRAWN BY: John Uelmen

Hiestand Park
 4302 Milwaukee St
 Madison, WI 53714

January 02, 2019
 Lee Recreation, LLC
 142-114494-1

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

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SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) A Handbook for Public Playground Safety** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-Children's Playspaces and Equipment A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

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PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

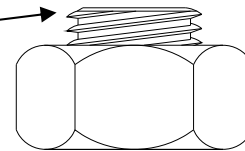


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. **NOTE:** *In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets. See typical mount bracket assembly drawings located in the installation instructions section.*

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

GENERAL INSTALLATION GUIDELINES

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

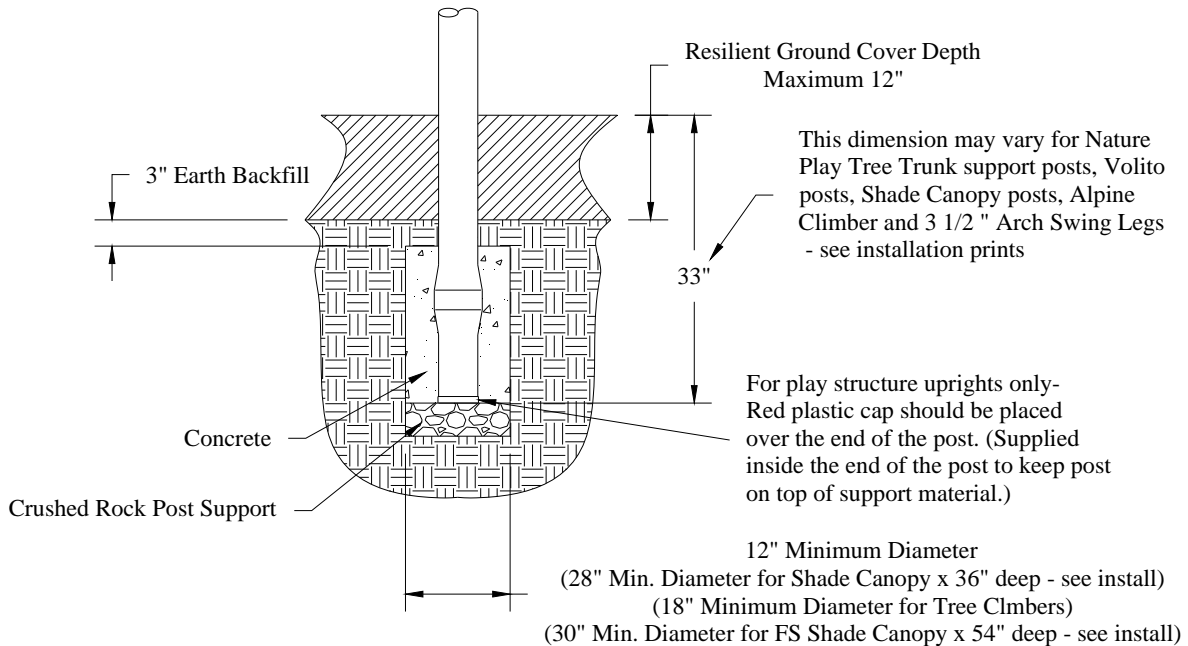


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

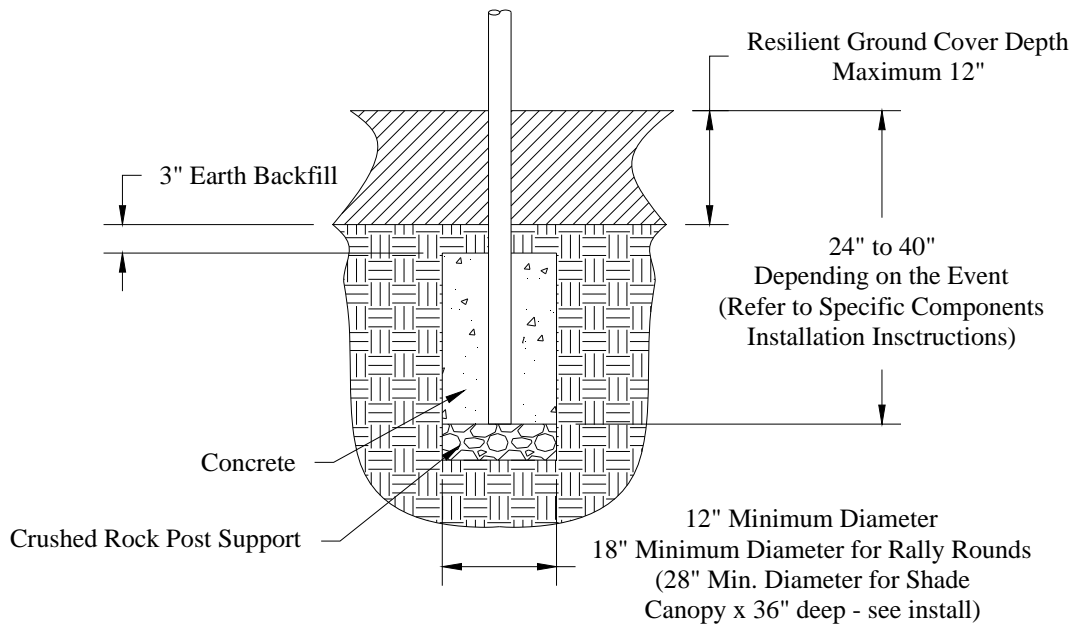


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

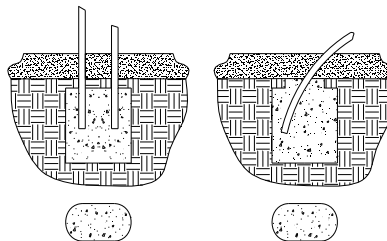


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

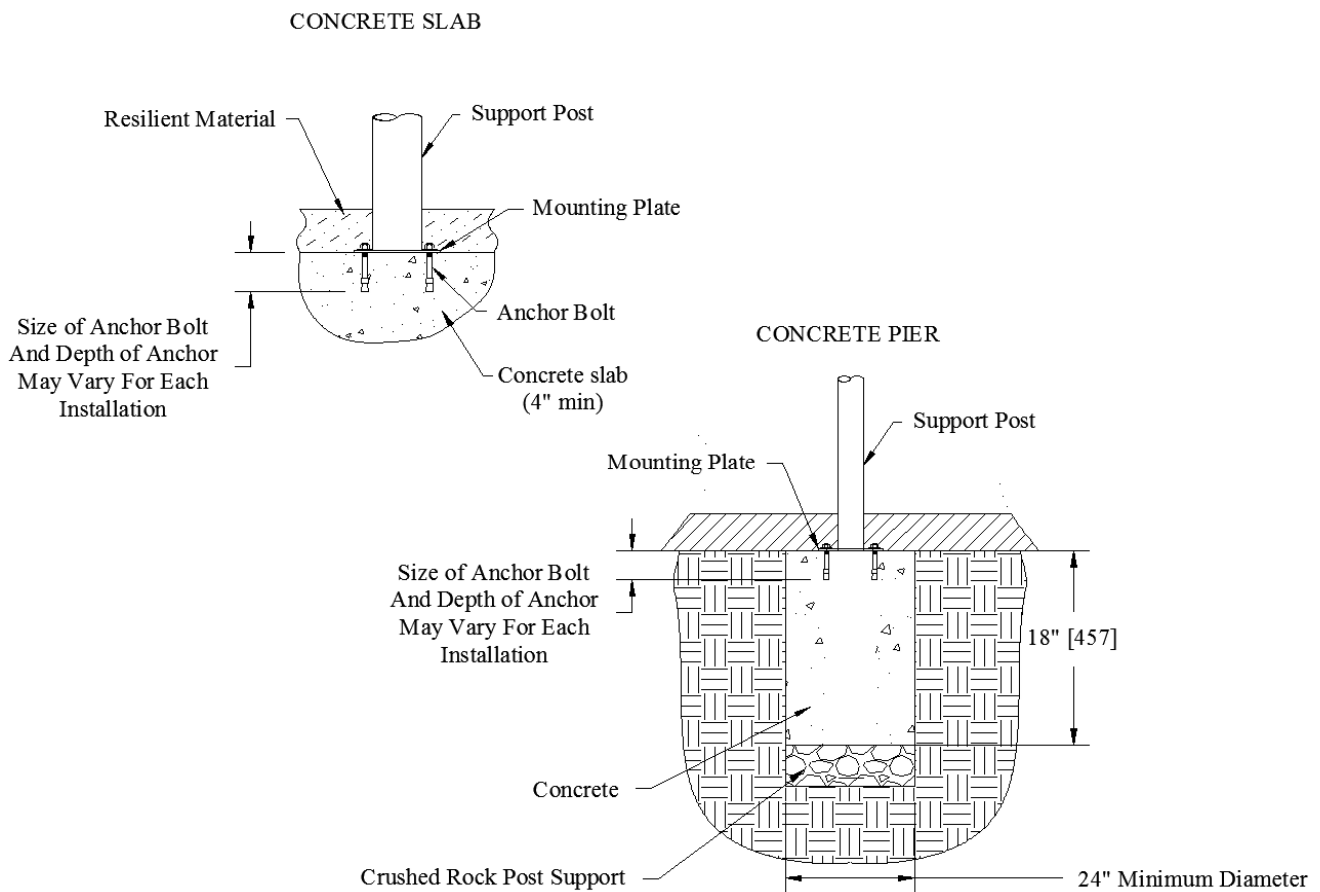


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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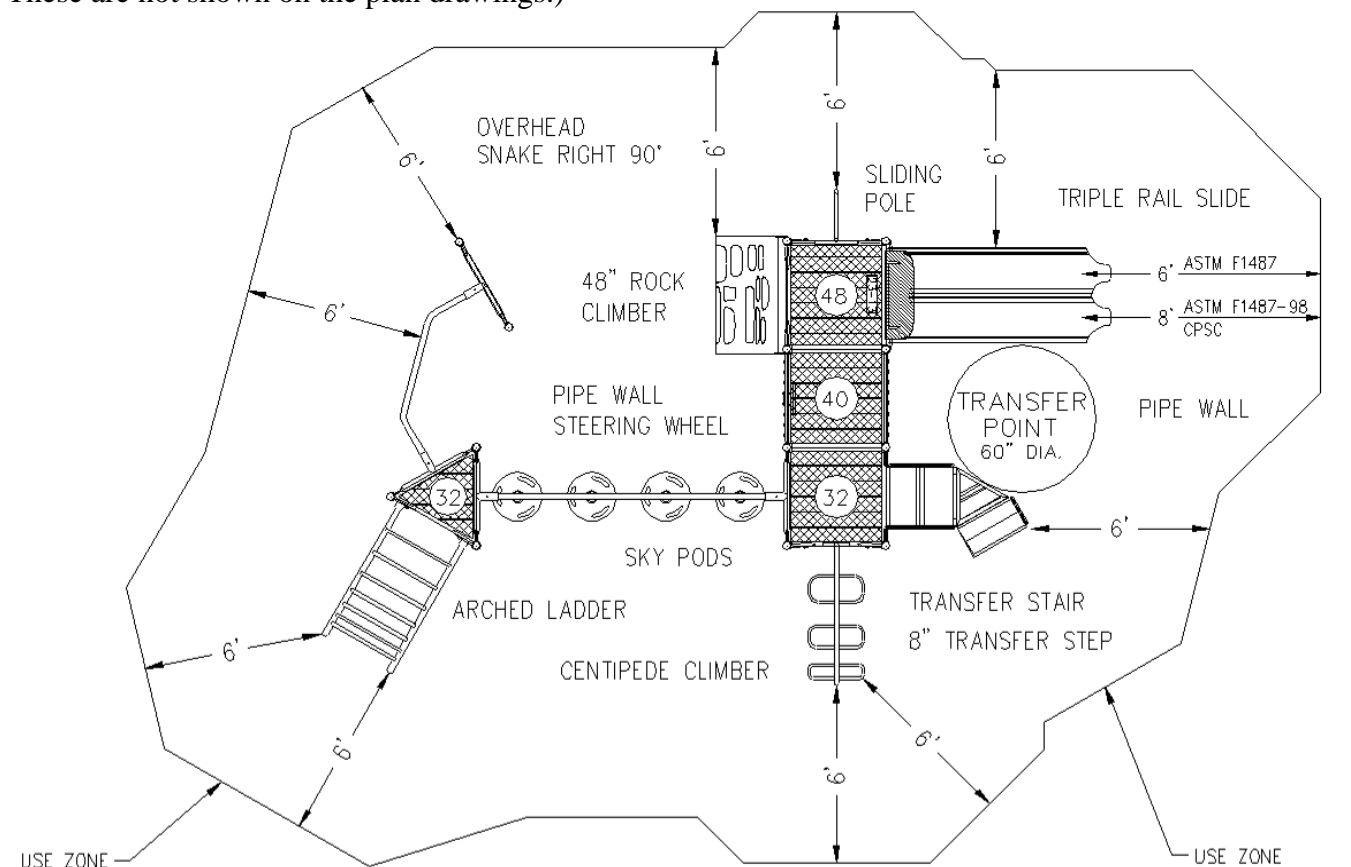
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

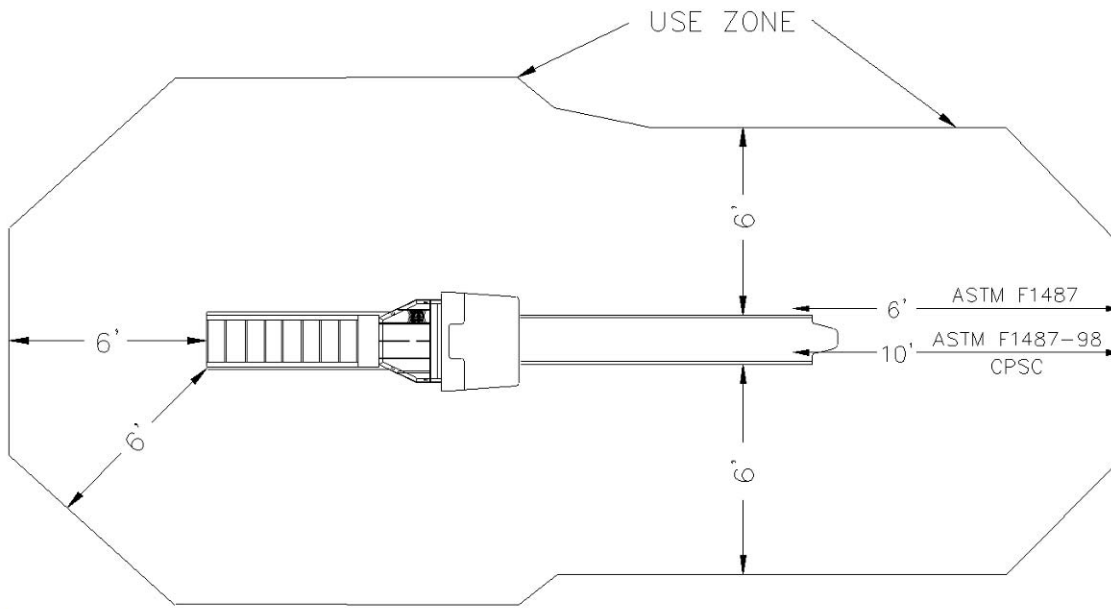


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of Y + 72 in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

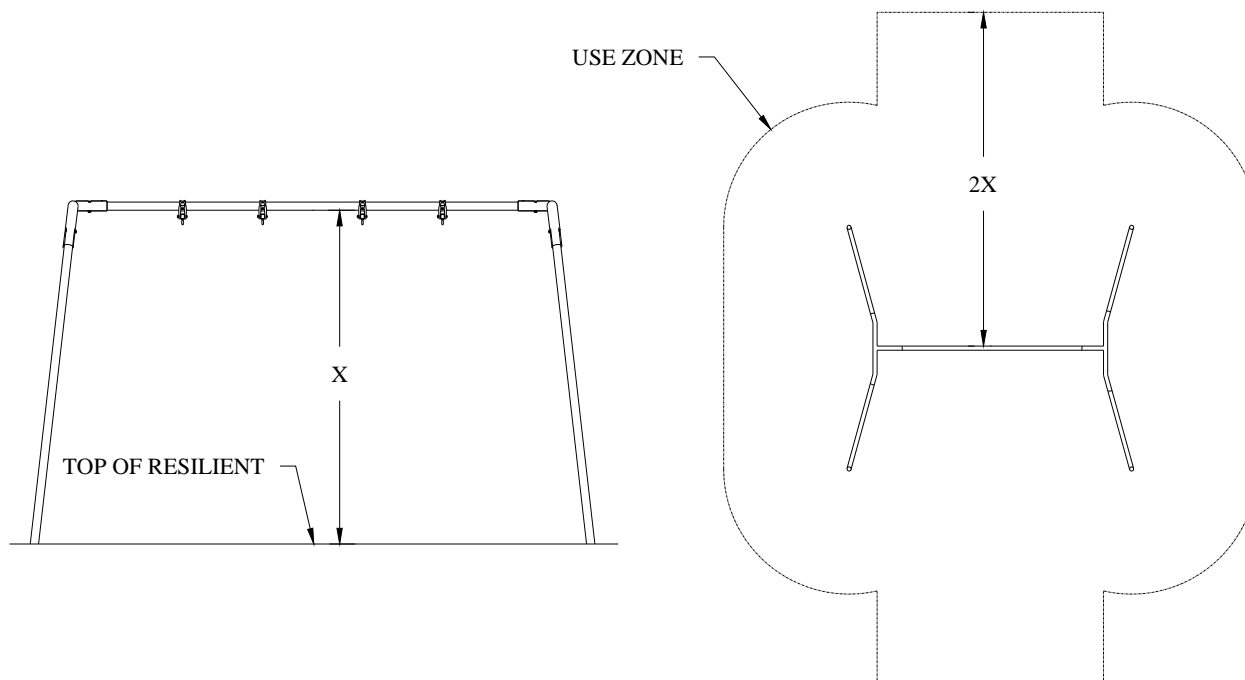


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

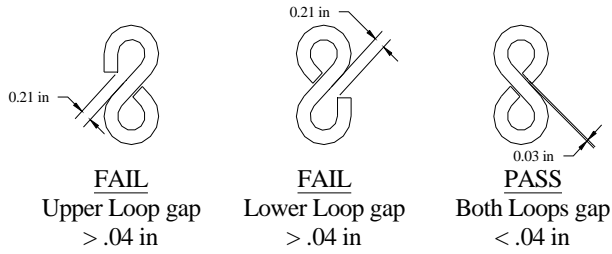


Figure 9: Check loops for .04" gap

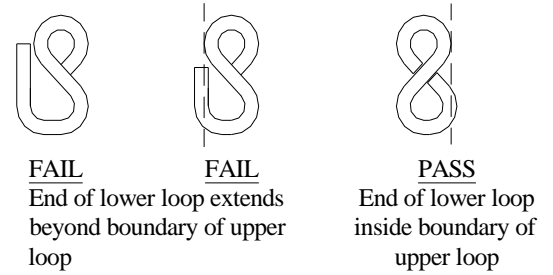


Figure 10: Check lower loop projection

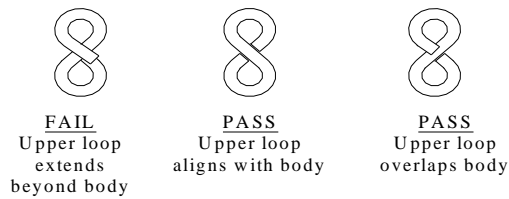


Figure 11: Check upper loop projection

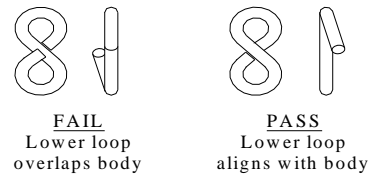


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

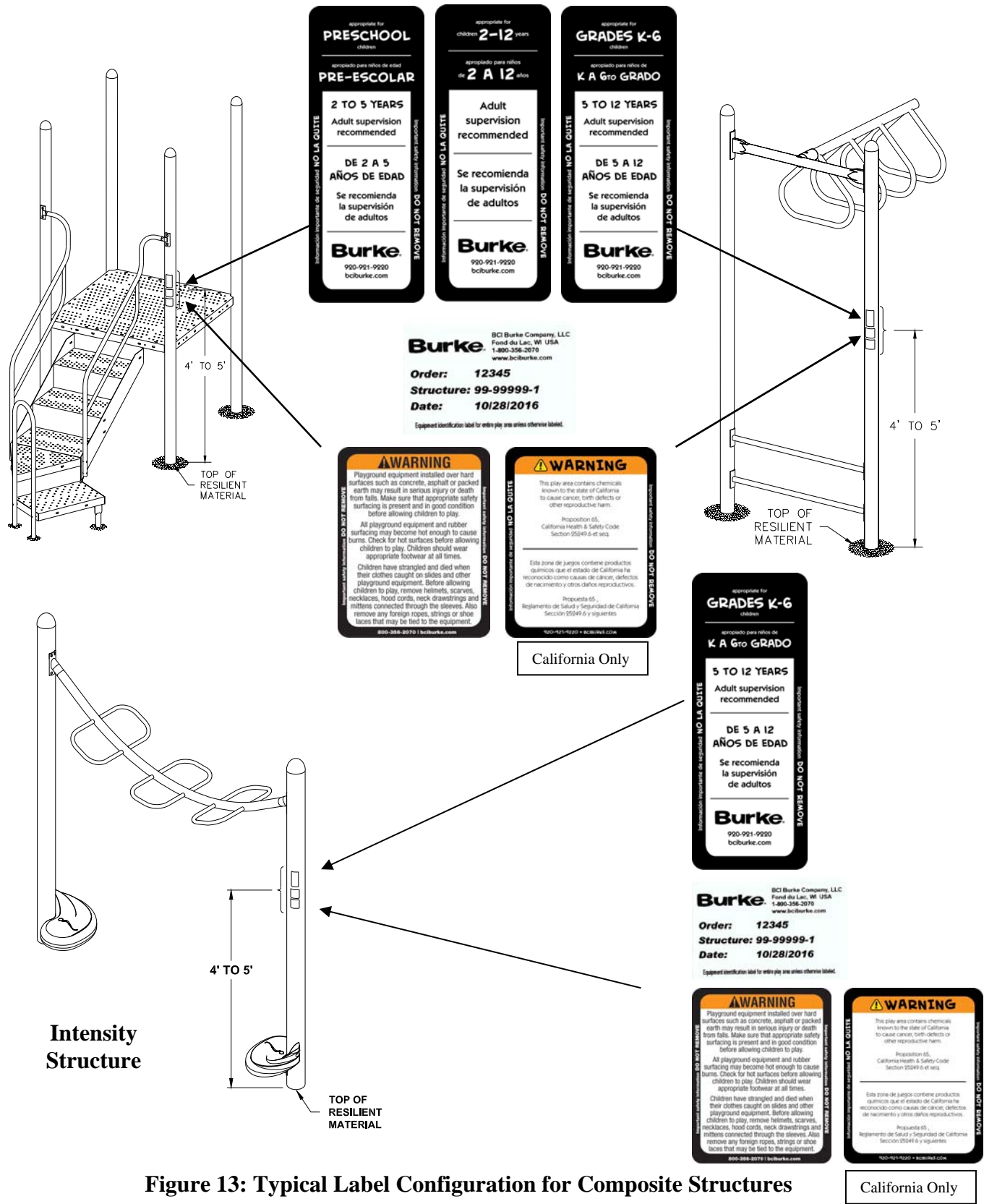


Figure 13: Typical Label Configuration for Composite Structures

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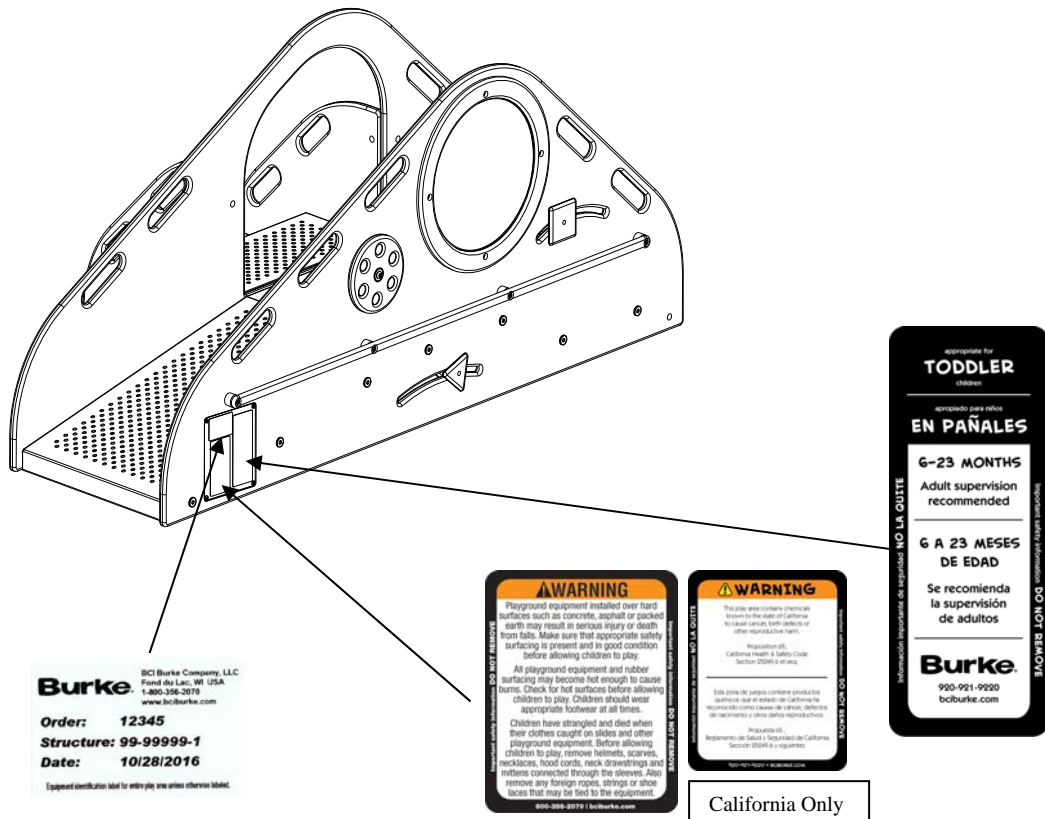


Figure 14: Typical Label Configuration for Composite Structures

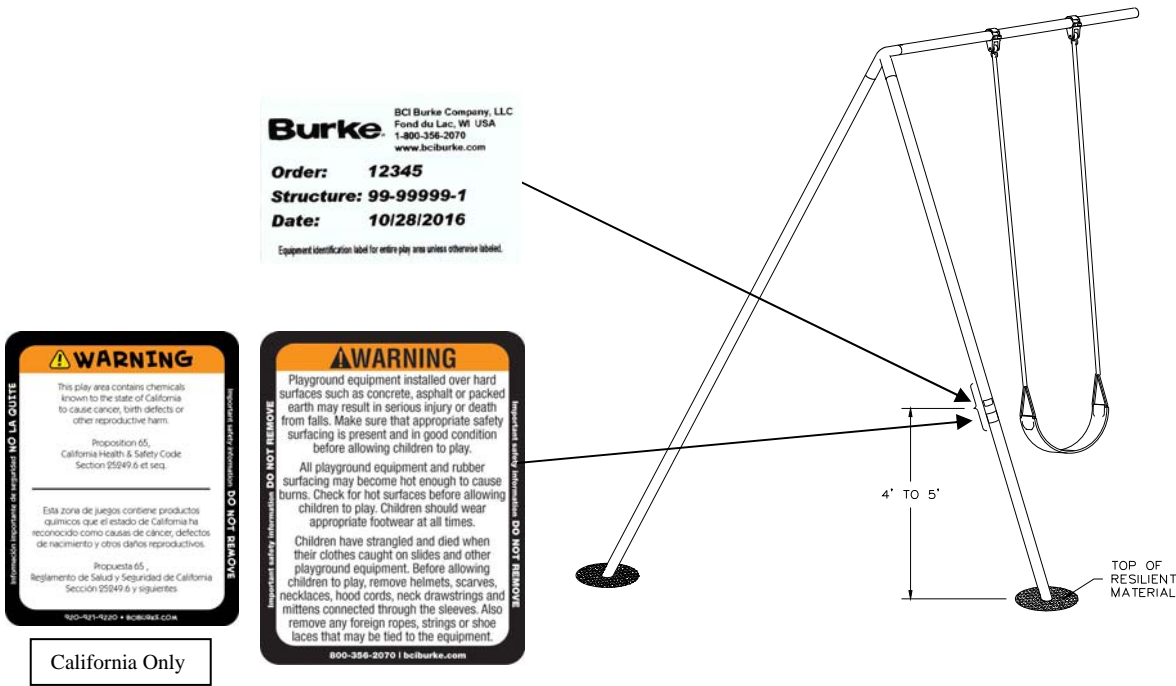


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- | | |
|--|--|
| <p>Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.</p> | <p><input type="checkbox"/> Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.</p> |
| <p><input type="checkbox"/> Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.</p> | <p><input type="checkbox"/> Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.</p> |
| <p><input type="checkbox"/> Clean dried concrete off support posts and any other affected components</p> | <p><input type="checkbox"/> Touch up any exposed metal on coated parts following the instructions in the Maintenance section.</p> |
| <p><input type="checkbox"/> Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.</p> | <p><input type="checkbox"/> Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.</p> |
| <p><input type="checkbox"/> Insure all post ends have properly installed post caps. Insure the drive rivets are secure.</p> | <p><input type="checkbox"/> Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.</p> |
| <p><input type="checkbox"/> Insure all fasteners are tightened according to specifications listed on your installation instructions.</p> | <p><input type="checkbox"/> Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.</p> |
| <p><input type="checkbox"/> Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.</p> | <p><input type="checkbox"/> Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.</p> |

Inspected by: _____

Inspection Date: _____

BCI Burke Company, LLC
For questions, call us at:
1-800-356-2070

MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris. **DO NOT** use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

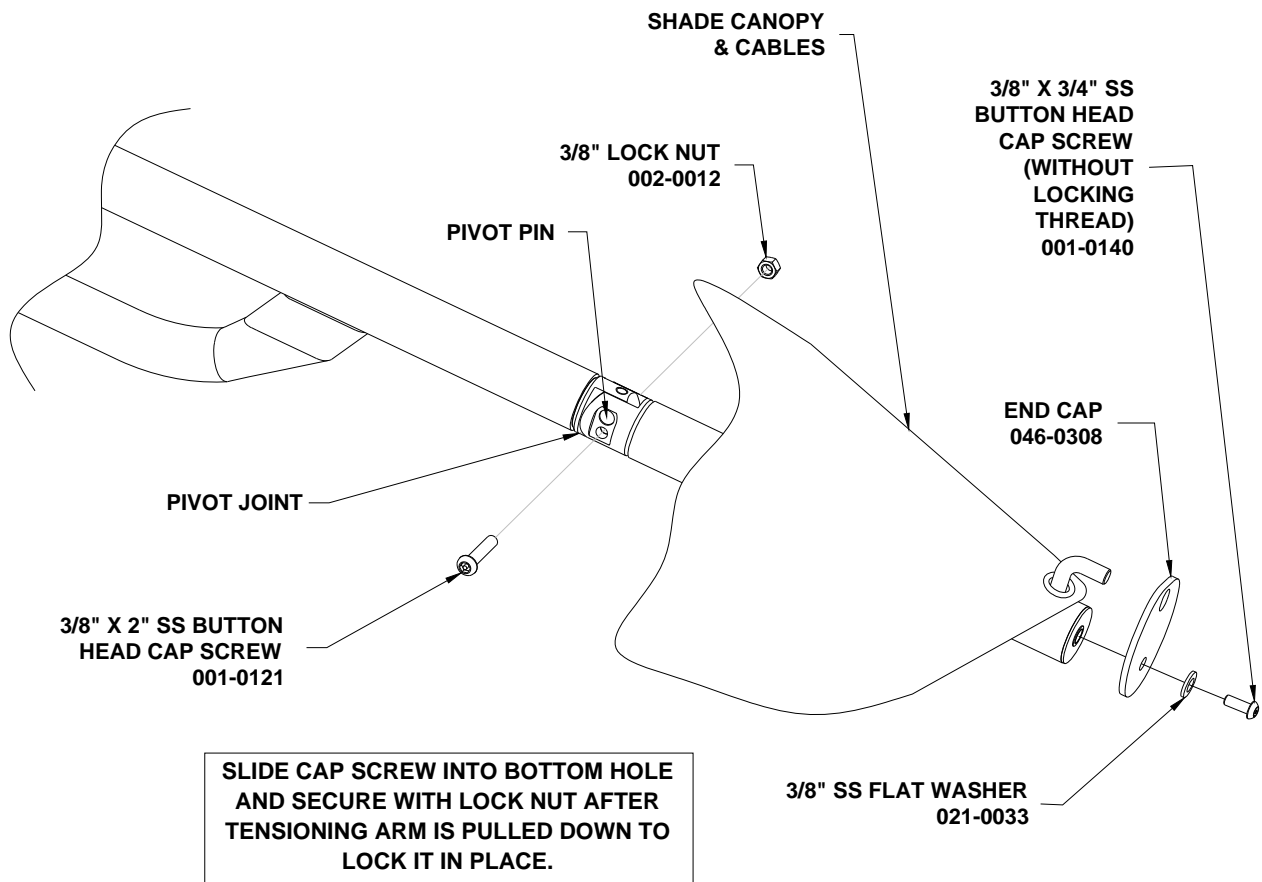


Figure 16: Tensioning Arm in 'Closed Position'

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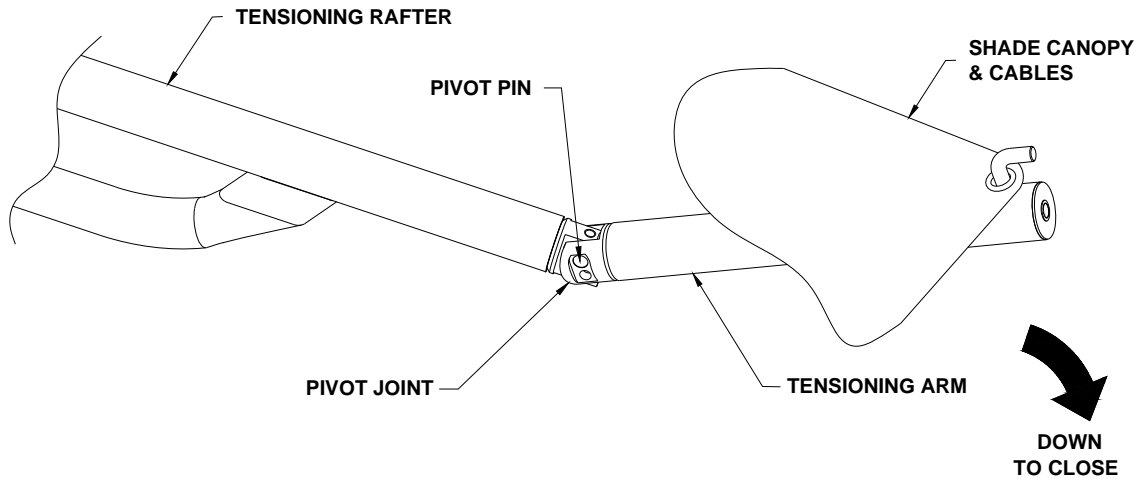


Figure 17: Tensioning Arm in 'Open Position'

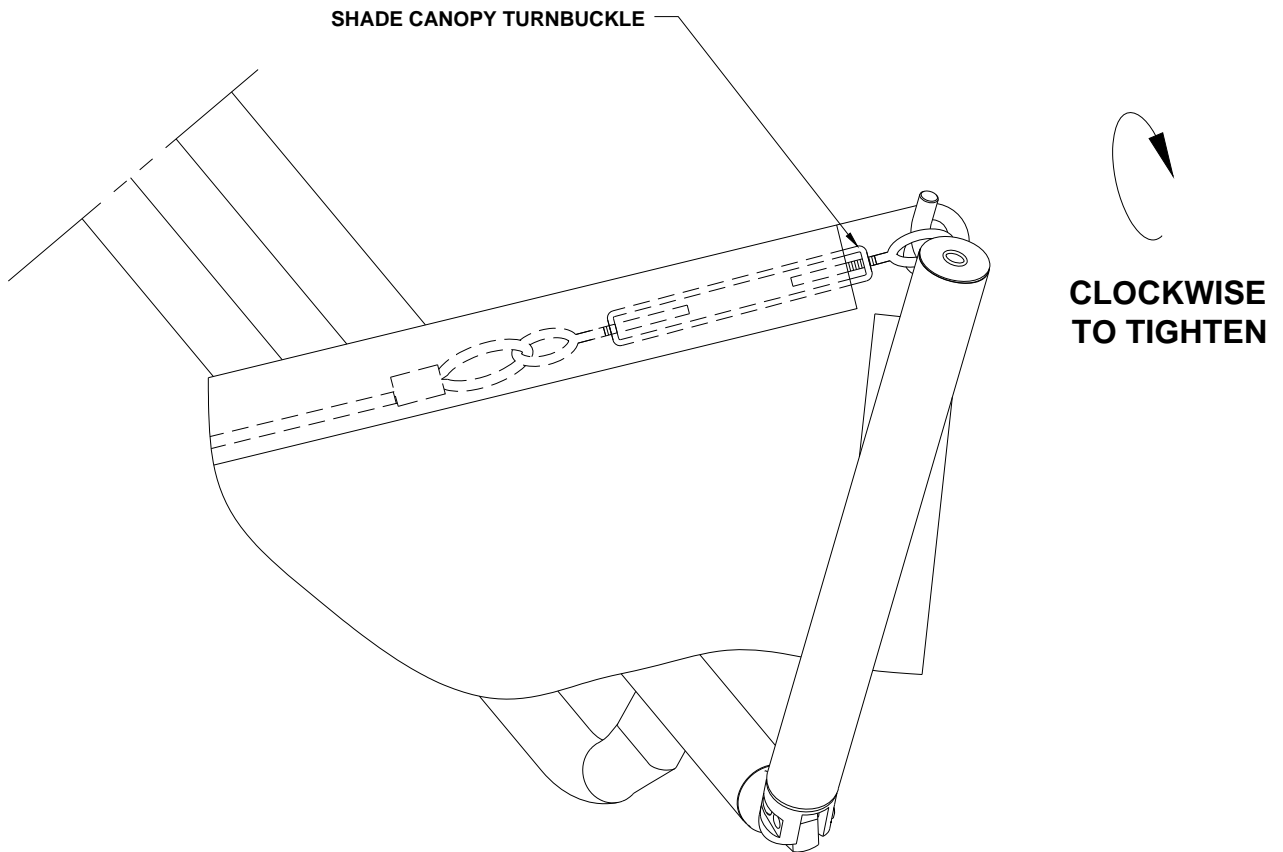


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope AFTER flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																			
Visible cracks, bending, warping																			
Accessible sharp edges or points																			
Rusted metal surfaces																			
Rusting of metal and corrosion on aluminum																			
Deformation of open hooks, rings, links, etc.																			
Worn swing hangers and chain																			
Missing or damaged swing seats																			
Heavy swing seats with sharp corners or edges																			
Broken supports/anchors																			
Jagged, exposed or cracked and loose concrete footing																			
Inadequate surfacing material under equipment																			
Exposed ends of pipe. Missing caps or plugs																			
Protruding bolt ends																			
Chipped or peeling paint																			
Cuts or fraying in rope with exposed steel reinforcement strands																			
Vandalism, broken glass, trash, etc.																			
Broken or missing rails, steps, rungs, seats																			
Loose or missing hardware																			
Pinch or crush points																			
Moving components, etc.																			
Lack of lubrication on moving parts																			
Worn bearings																			
Poor drainage areas at footings, slide exits, etc																			
Vandalized or cracked PVC coating																			

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

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For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnnect[®] clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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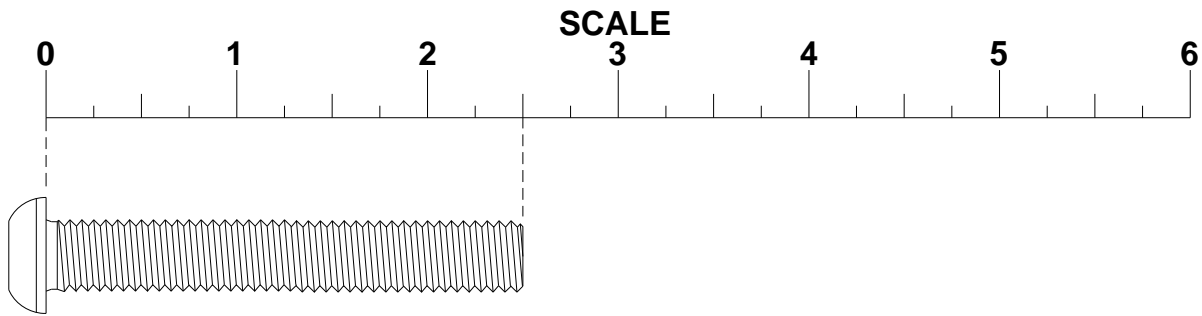
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APPENDIX

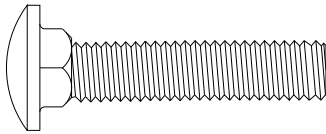
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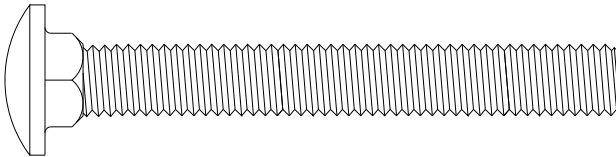


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

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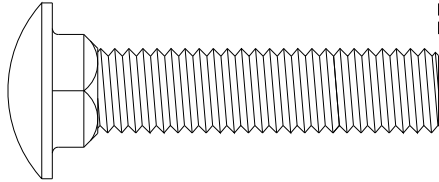
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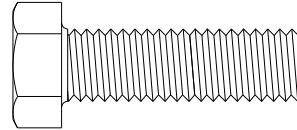
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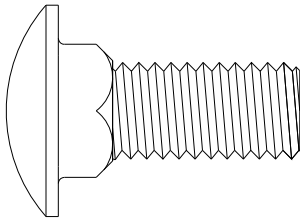
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



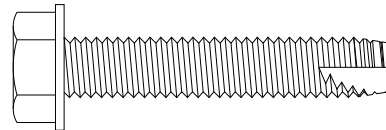
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4" SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4" SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

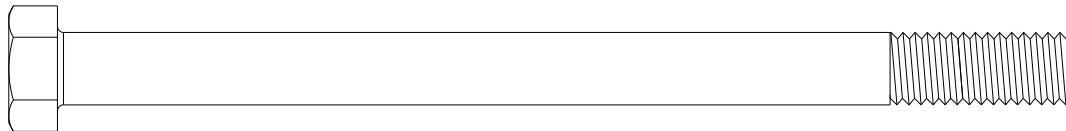


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

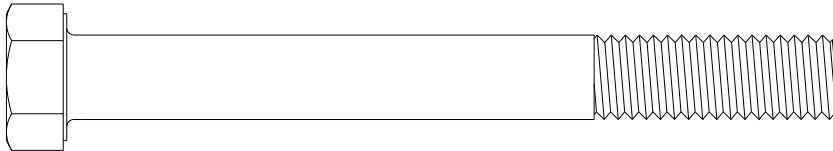
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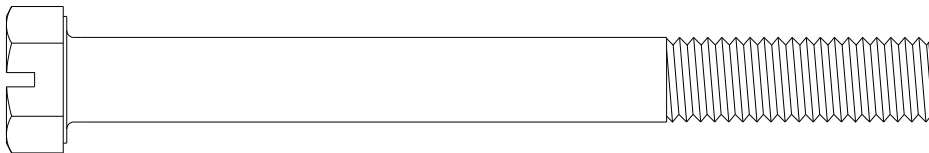
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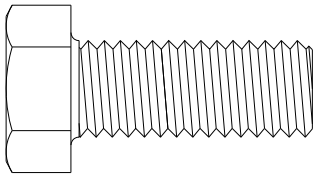
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

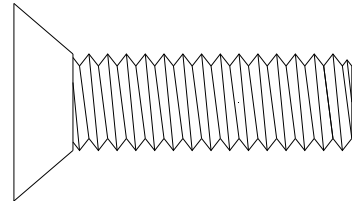


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

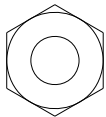
001-0186 - 3/8" X 1 1/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



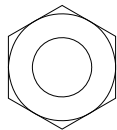
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



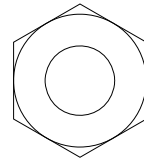
001-0139 - 1/2" X 1 3/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



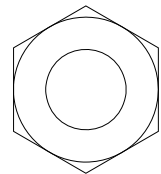
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

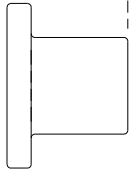
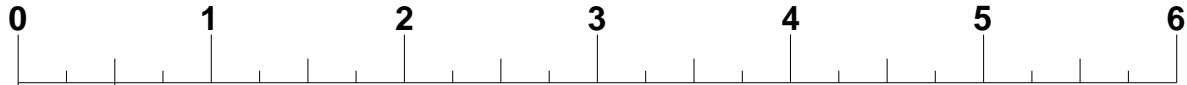
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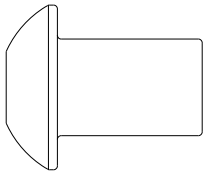
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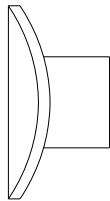
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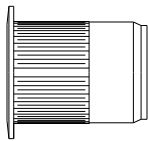
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



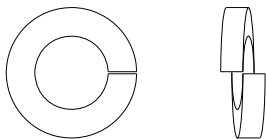
002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



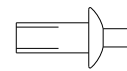
002-0042 - 3/8" NUT INSERT



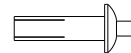
021-0022 - 3/8" LOCK WASHER



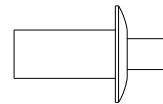
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



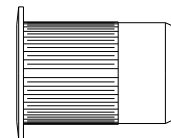
019-0010 - 5/32" X 3/8" DRIVE RIVET



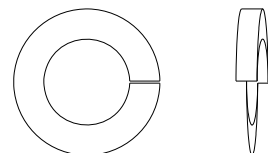
019-0016 - 1/8" X 15/32" DRIVE RIVET



019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0027 - 7/16" LOCK WASHER

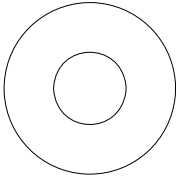
BCI Burke Company, LLC

660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566

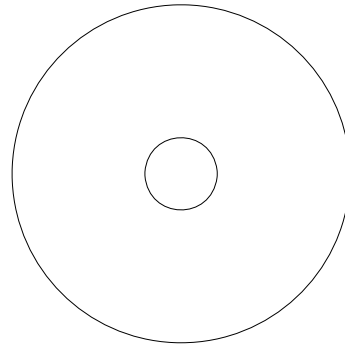
www.bciburke.com

BCI BURKE HARDWARE

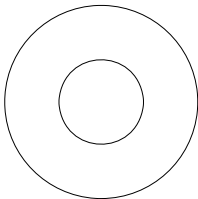
SCALE



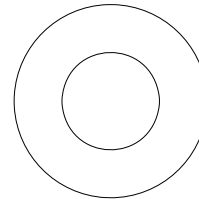
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



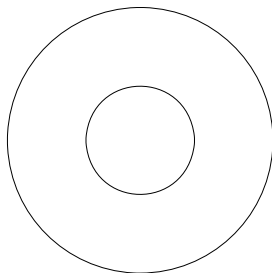
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



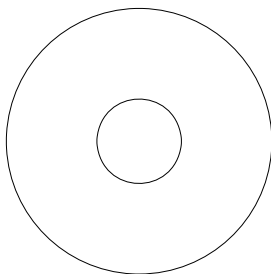
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



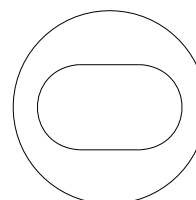
021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

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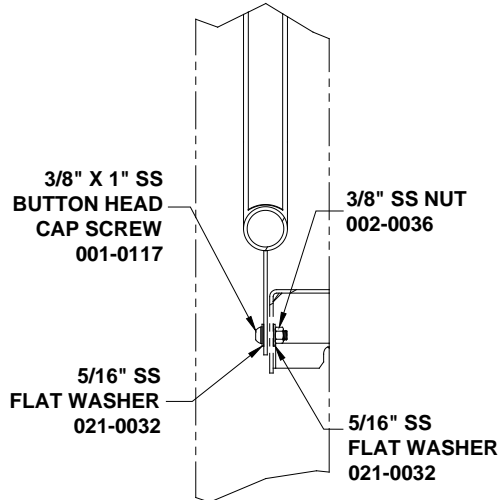
www.bciburke.com

Installation Instructions

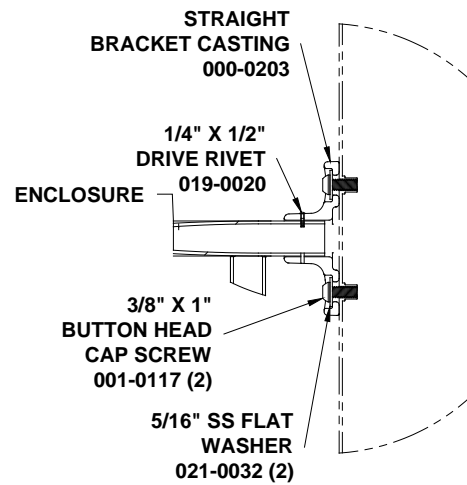
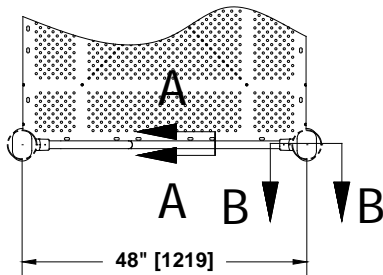
BCI Burke Company, LLC

660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566

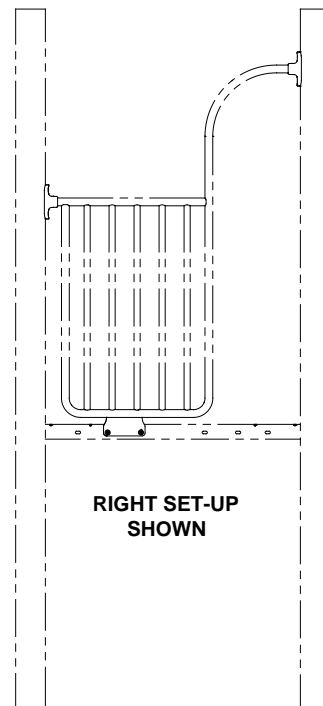
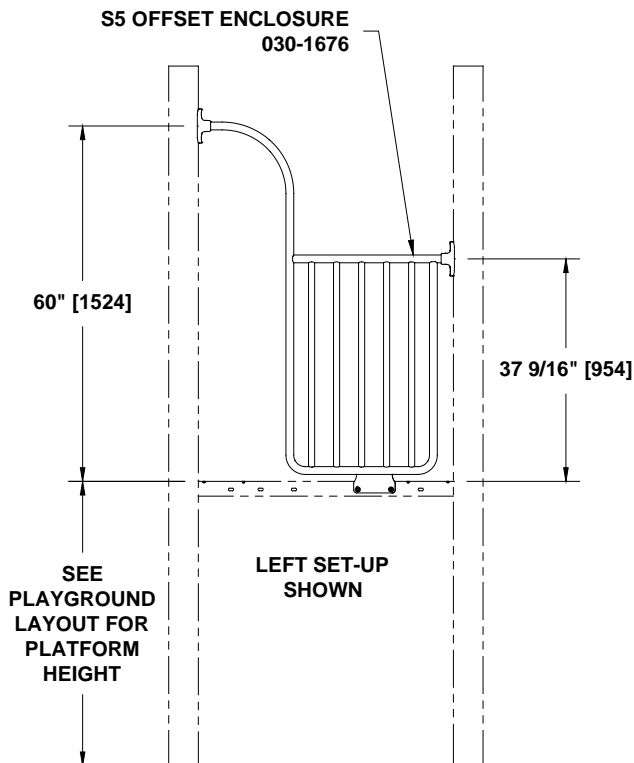
www.bciburke.com



SECTION A-A
(2 PLACES)



SECTION B-B
(2 PLACES)



270-0001 OFFSET ENCLOSURE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1676	S5 OFFSET ENCLOSURE	1
036-1284	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 OFFSET ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and 10 GA sheet steel. Finished with a baked on powder coating.

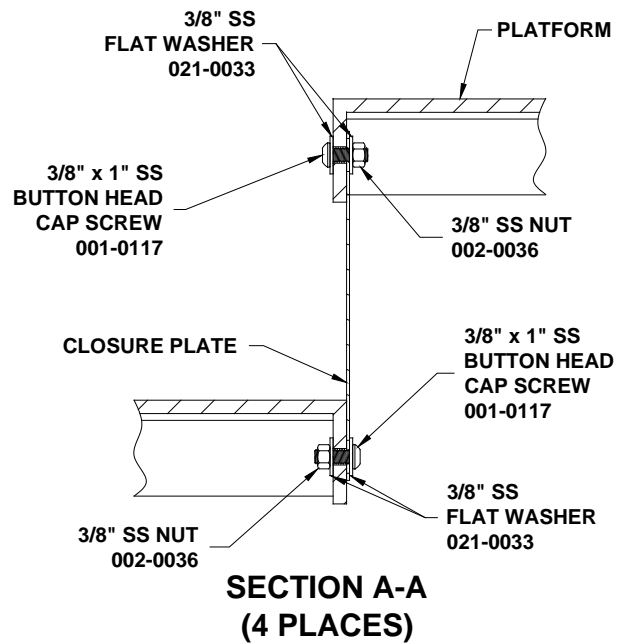
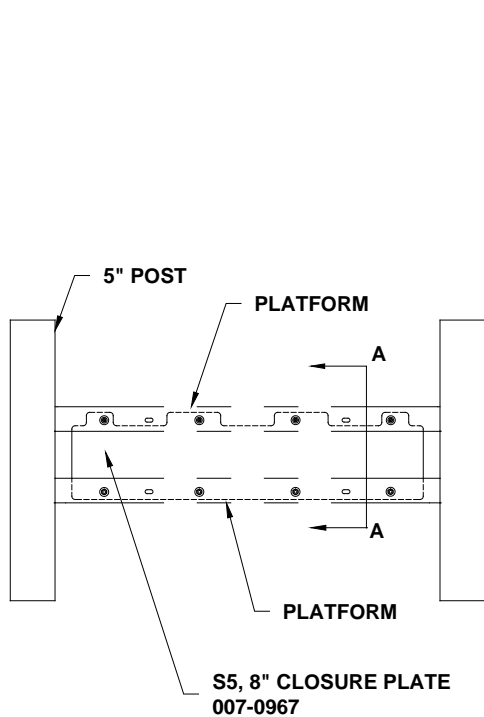
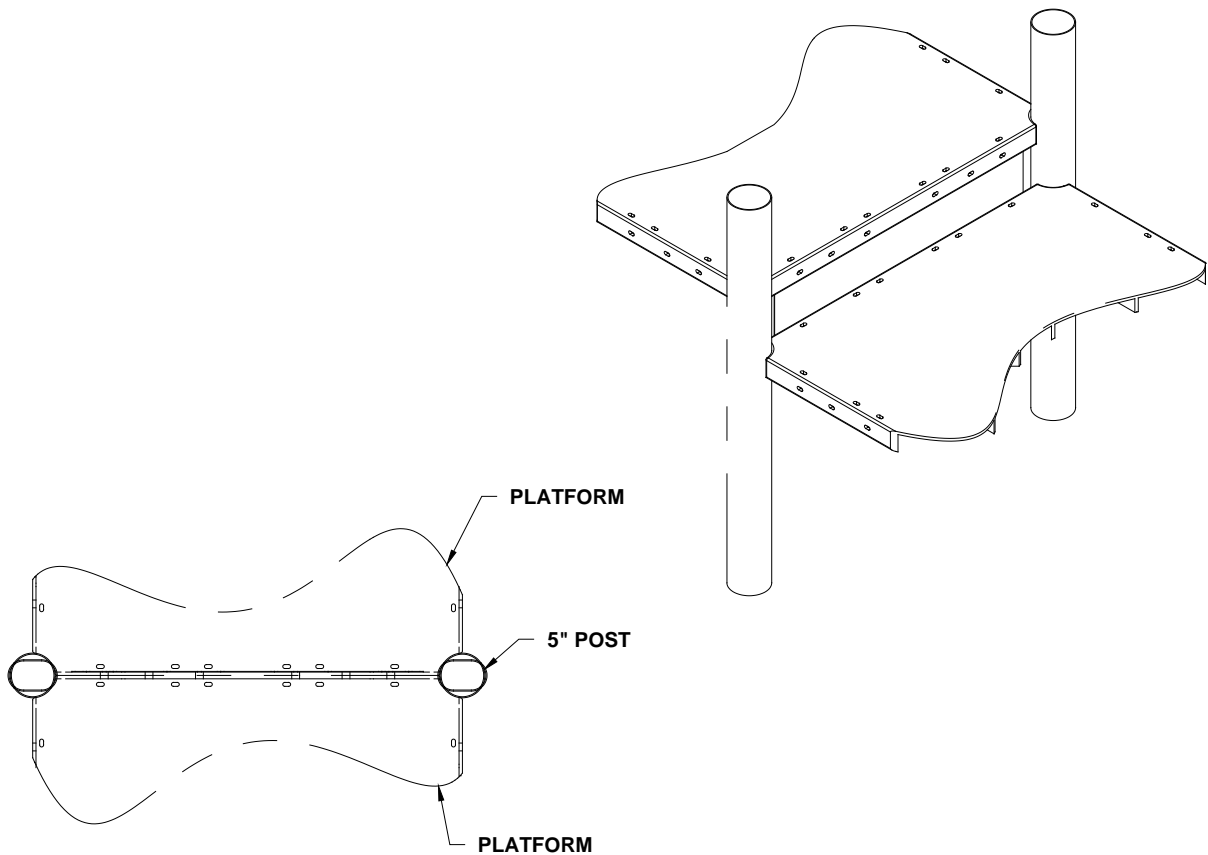
HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 30 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

1. Locate holes for BRACKETS CASTINGS to 5" O.D. posts as per dimensions shown.
2. Insert bracket castings onto ends of OFFSET ENCLOSURE and attach bracket castings to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
3. Attach bottom of pipe wall to platform using 3/8" x 1" SS button head cap screws, 5/16" SS washers and 3/8" SS nuts. Tighten all hardware. See SECTION A-A.
4. Drill 1/4" diameter holes through pilot hole in casting and into enclosure. See SECTION B-B.
5. Drive rivets flush with brackets.
6. Tighten All Hardware.



270-0050 8" CLOSURE PLATE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
007-0967	S5 8" CLOSURE PLATE	1
036-1380	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

S5 8" CLOSURE PLATE: 14 GA galvanized steel plate finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, nuts and washers.

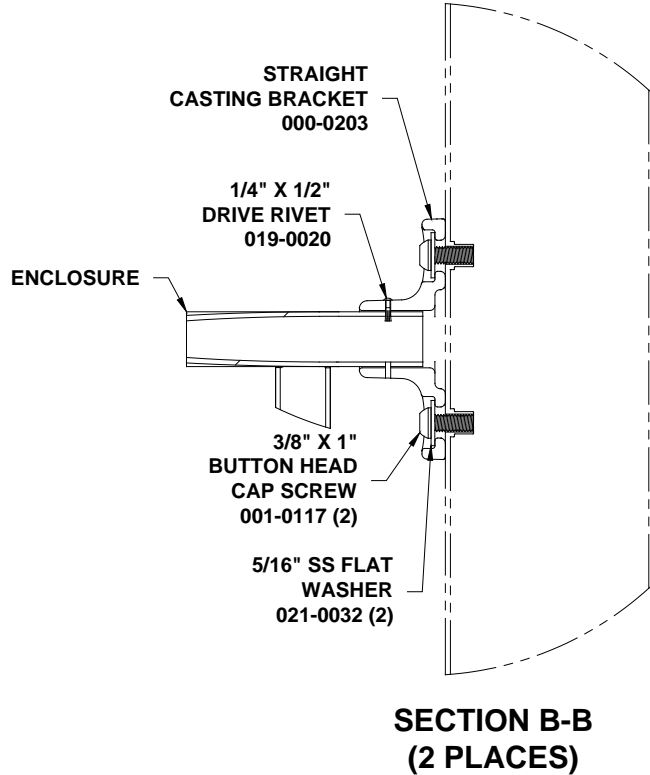
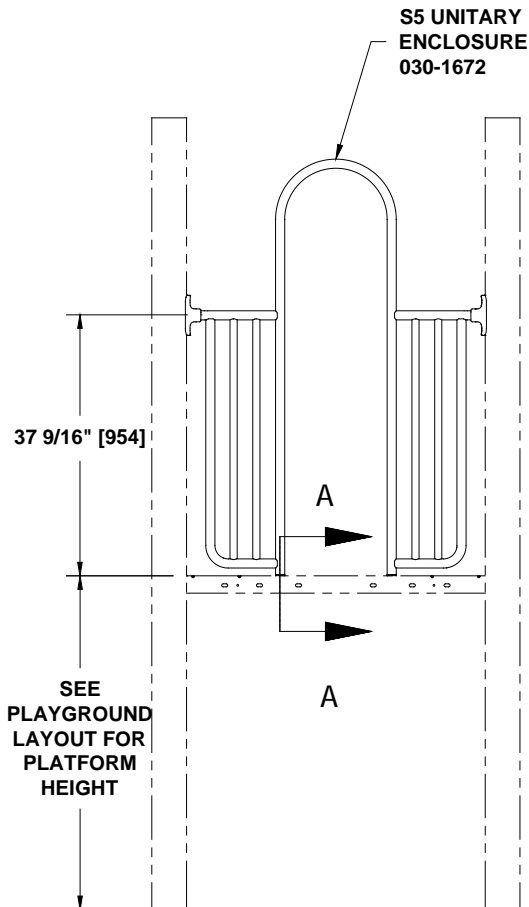
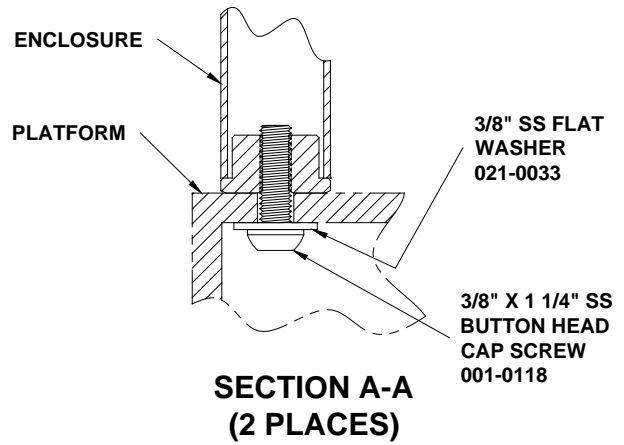
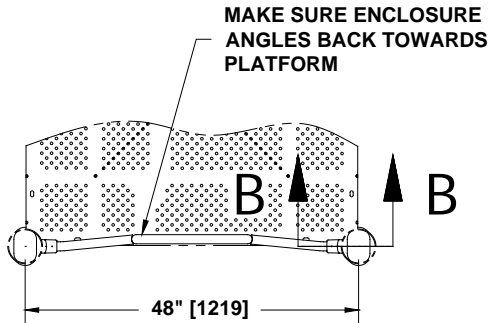
SHIPPING WEIGHT: 10 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of platforms before installation.

1. Attach CLOSURE PLATE to upper and lower platform using 3/8" x 3/4"SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. See SECTION A-A.
2. Tighten hardware.

270-0050.doc Description: 8" CLOSURE PLATE
REV: 03 PCN: 18-0082 3/8/2018



270-0112 UNITARY ENCLOSURE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1672	NUCLEUS UNITARY ENCLOSURE	1
036-0258	HARDWARE PACKAGE	2
036-0819	HARDWARE PACKAGE	1
036-1207	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

NUCLEUS UNITARY ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and HDPE threaded inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: Aluminum Rivets

HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 35 LBS.

INSTALLATION INSTRUCTIONS

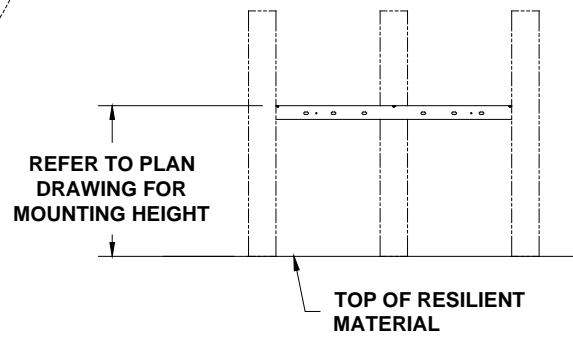
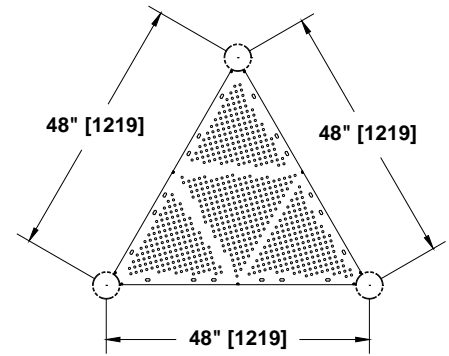
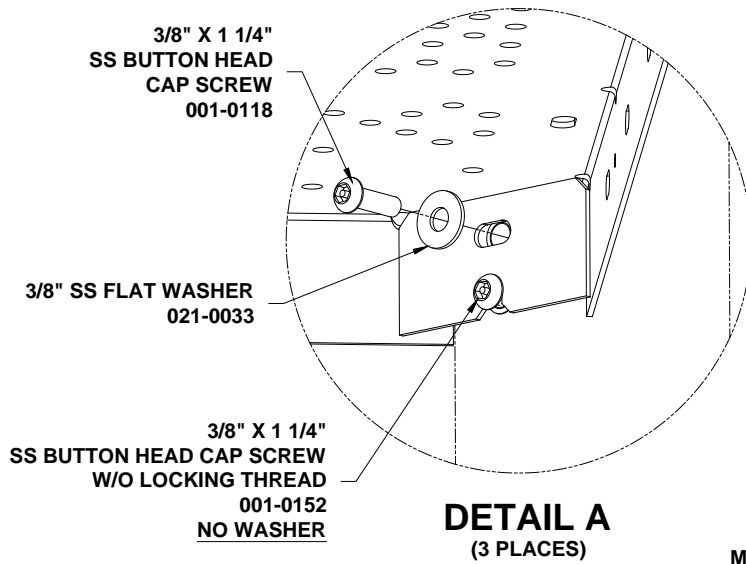
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

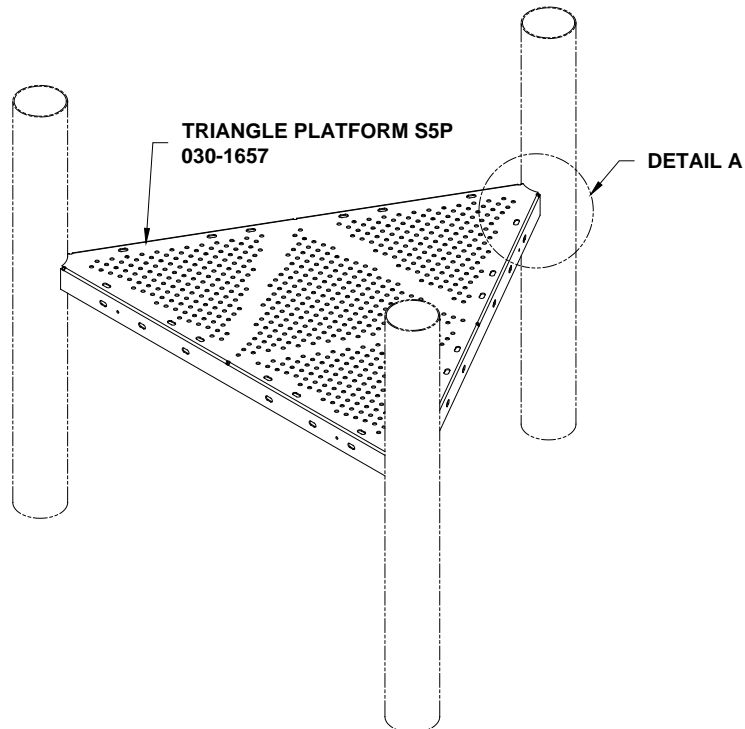
NOTE: Make sure enclosure angles back towards platform. (See Top View)

1. Locate holes for CASTING BRACKETS to 5" O.D. posts as per dimensions shown.
2. Insert castings onto ends of UNITARY ENCLOSURE and attach top hole of brackets to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
3. Rotate unitary enclosure up 90 degrees and attach bottom hole of brackets to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
4. Rotate unitary enclosure down 90 degrees and attach to platform using 3/8" x 1 1/4" button head cap screws and 3/8" washers as shown. Tighten screws. See SECTION A-A. See FRONT VIEW.
5. Drill 1/4" diameter hole through pilot hole in brackets through enclosure. Insert DRIVE RIVET. Drive rivets flush.
6. Tighten all Hardware.

270-0112.doc Description: UNITARY ENCLOSURE
REV: 02 PCN: 17-0260 8/28/2017



ELEVATION VIEW



**270-0129
TRIANGLE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1657	TRIANGLE PLATFORM S5P	1
036-1100	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TRIANGLE PLATFORM S5P: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

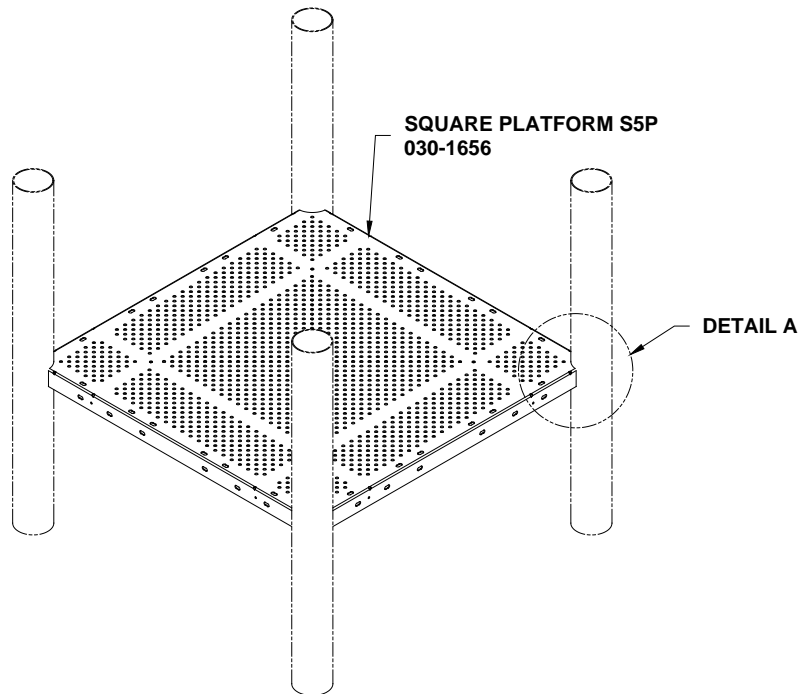
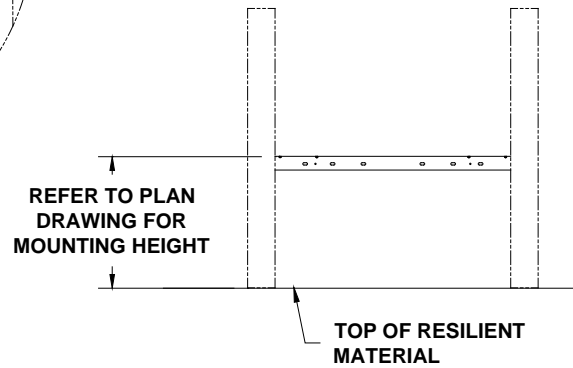
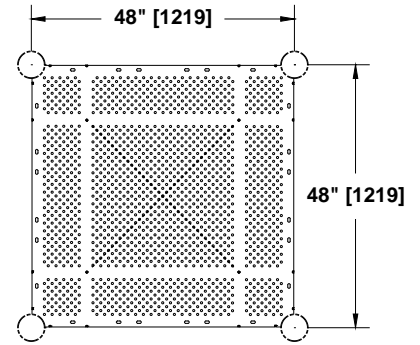
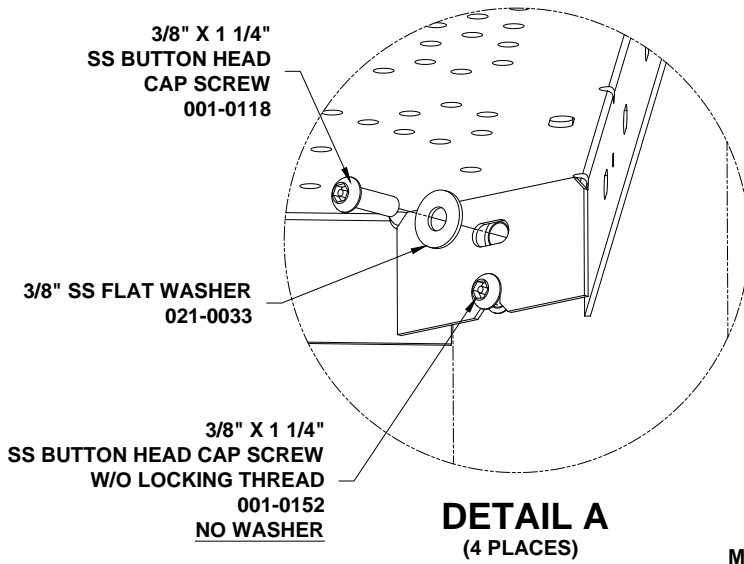
SHIPPING WEIGHT: 48 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the three corners of the TRIANGLE PLATFORM S5P on the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Tighten all hardware.
7. Pour concrete. Let set for two to three days.
8. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



**270-0130
SQUARE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1656	SQUARE PLATFORM S5P	1
036-1101	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

SQUARE PLATFORM S5P: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

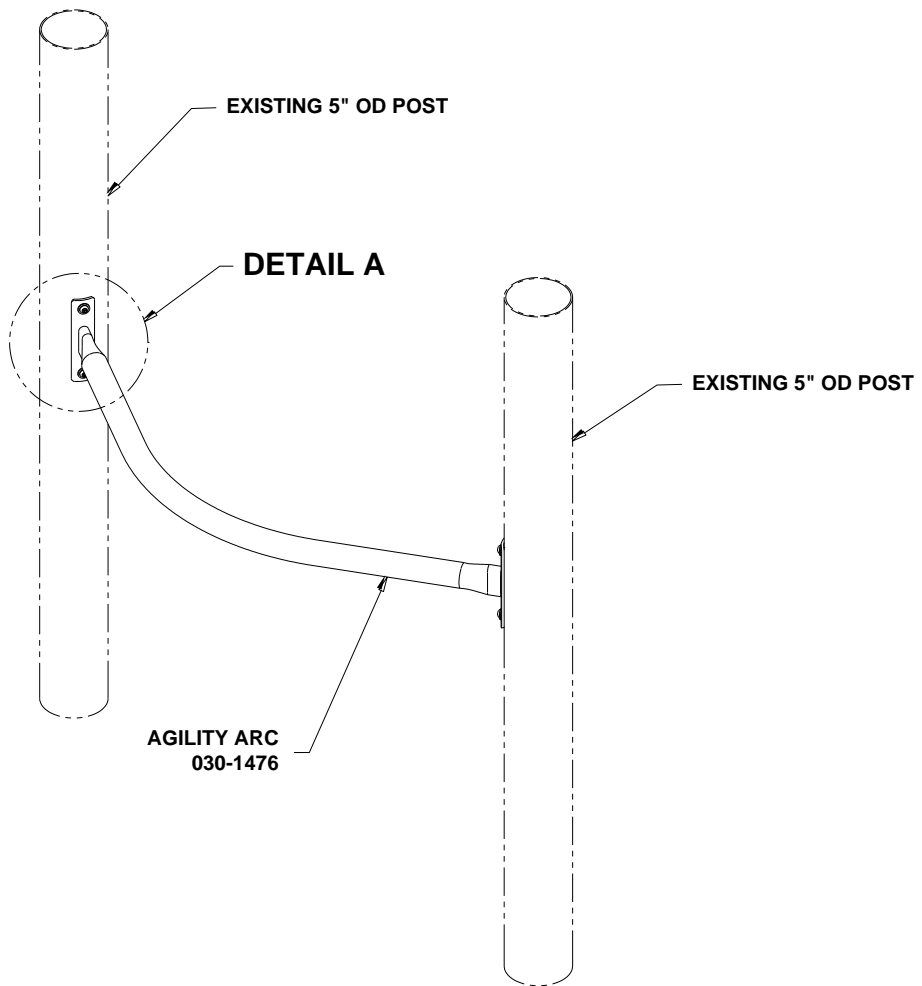
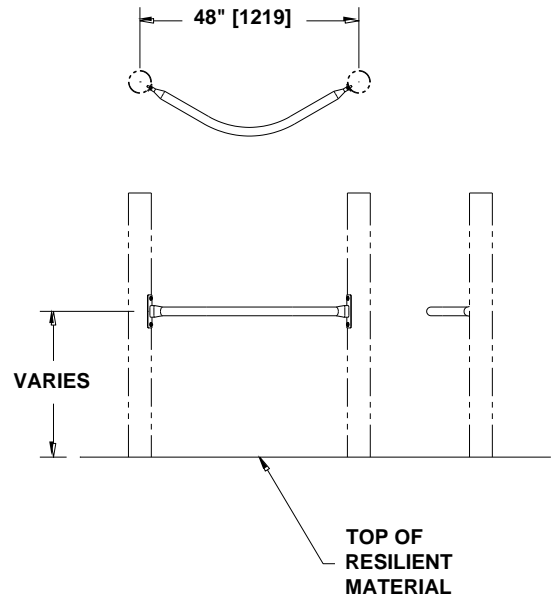
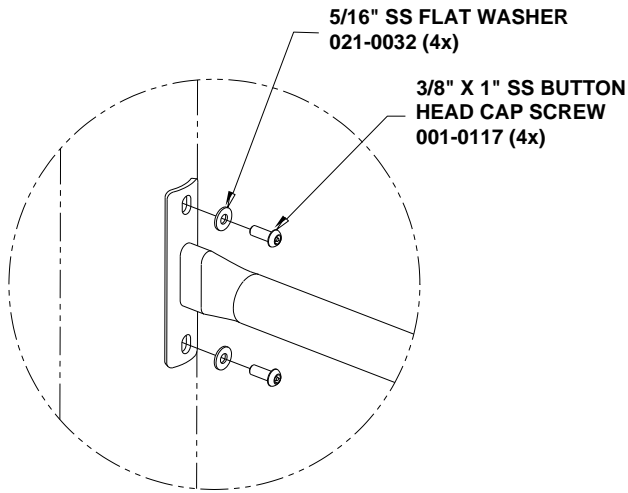
SHIPPING WEIGHT: 106 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the four corners of the SQUARE PLATFORM onto the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Tighten all hardware.
7. Pour concrete. Let set for two to three days.
8. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



370-0001 AGILITY ARC

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1476	AGILITY ARC	1
036-0258	HARDWARE PACKAGE	2

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

AGILITY ARC: One piece all welded construction consisting of formed 1.900" OD x 11 GA and 7 GA stainless steel sheet. Finished with a baked on powder coating.

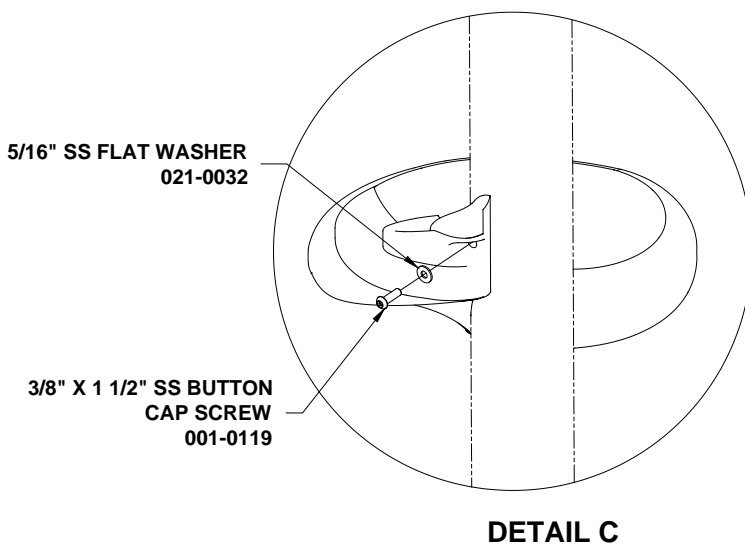
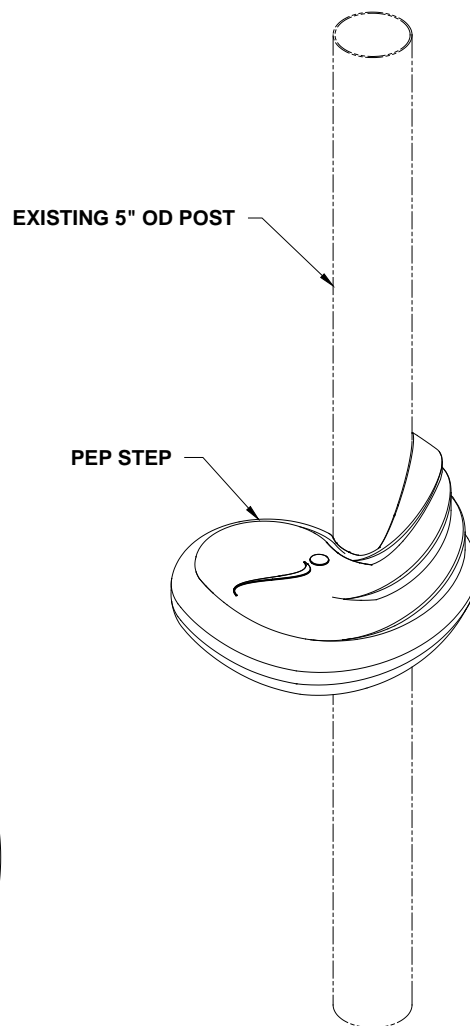
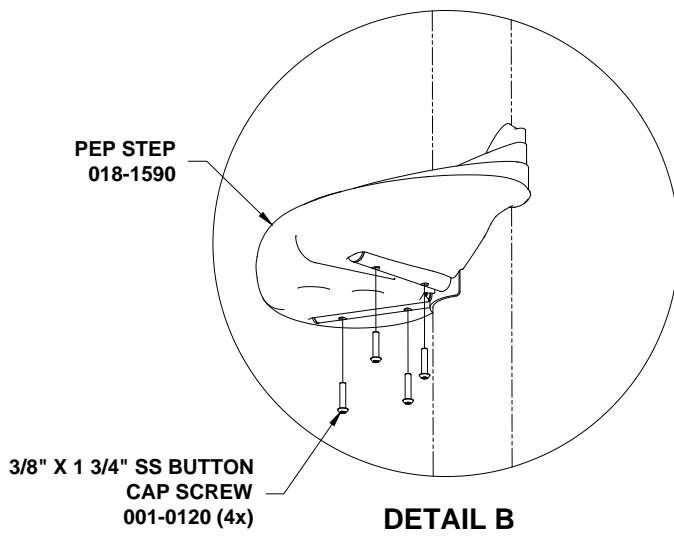
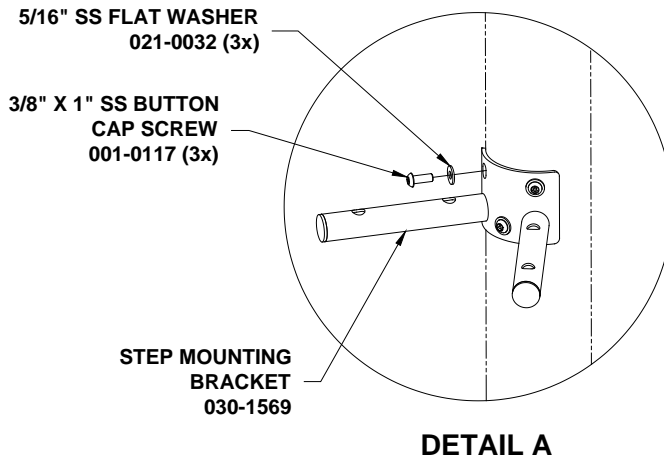
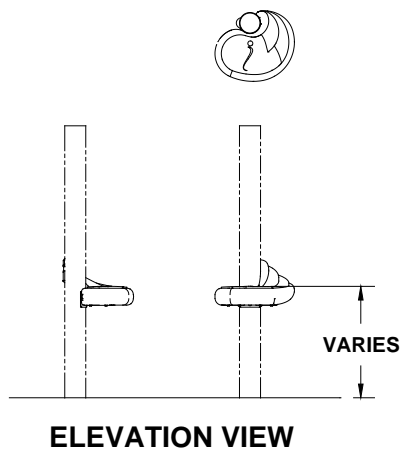
HARDWARE PACKAGE: Stainless steel.

SHIPPING WEIGHT: 12 LBS.

INSTALLATION INSTRUCTIONS

1. Attach AGILITY ARC to posts using 3/8" x 1" SS button head cap screw and 5/16" SS flat washer. SEE DETAIL A.
2. Tighten all hardware.
3. **INSTALL RESILIENT SURFACING MATERIAL IN ACCORDANCE TO INSTALLATION GUIDELINES.**

370-0001.doc Description: AGILITY ARC
REV: 00 PCN: 07-0013 11/15/2007



**370-0002
PEP STEP**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-1590	PEP STEP	1
030-1569	BRACKET, STEP MOUNTING	1
036-0258	HARDWARE PACKAGE	2
036-0264	HARDWARE PACKAGE	1
036-0840	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PEP STEP: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts and a textured surface.

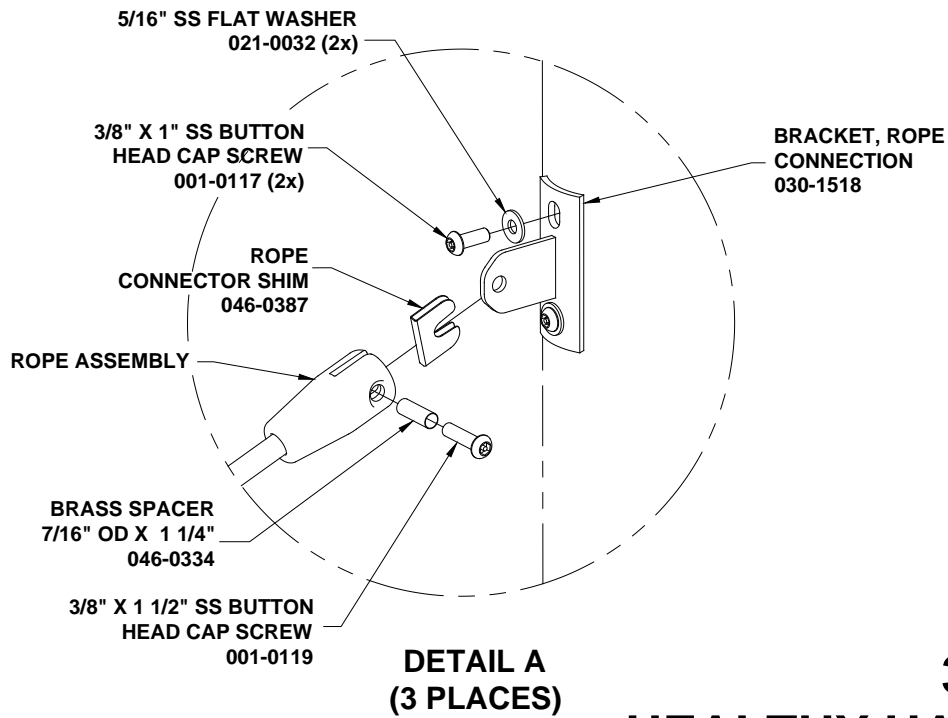
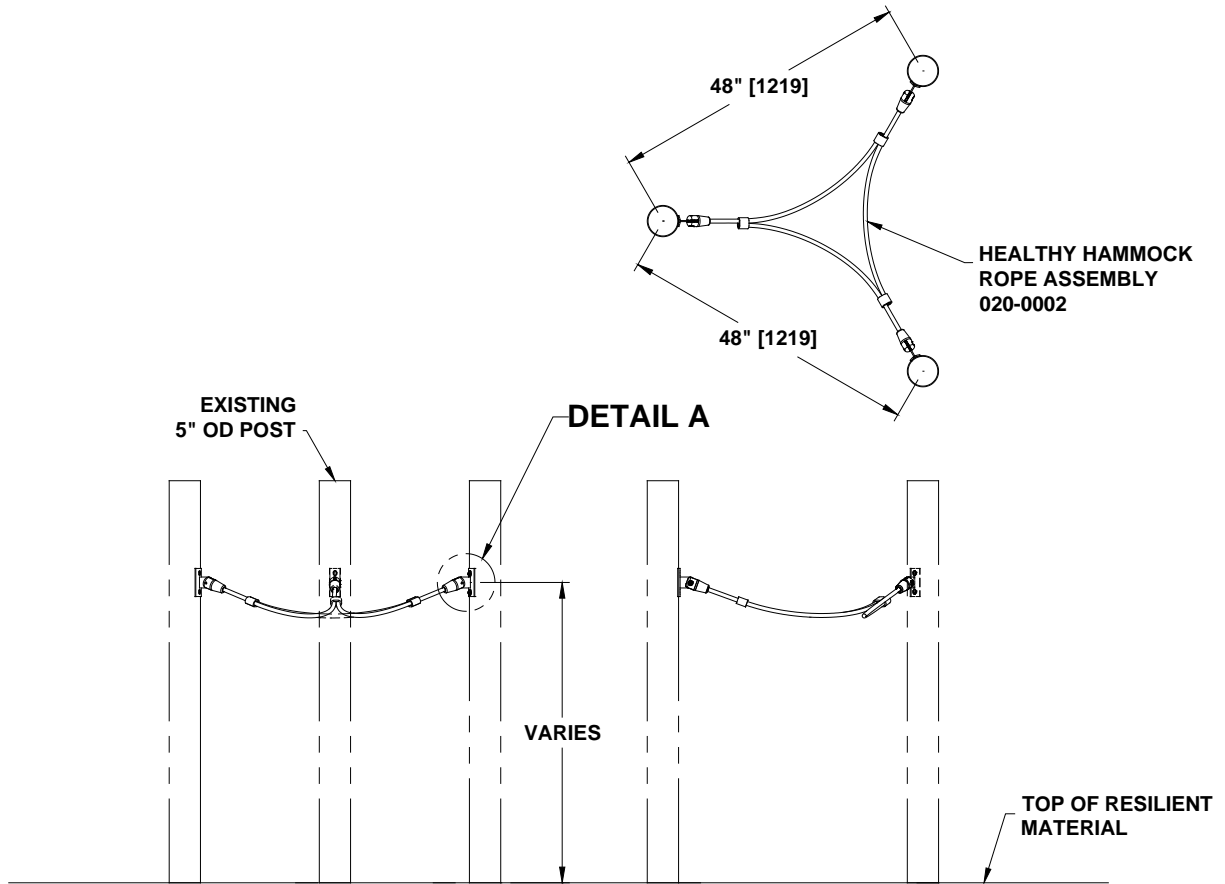
BRACKET, STEP MOUNTING: One piece all welded construction consisting of 10 GA galvanized sheet steel, 7 GA stainless steel sheet and 1.315" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: HARDWARE PACKAGE:
HARDWARE PACKAGE: Stainless steel.

SHIPPING WEIGHT: 11 LBS.

INSTALLATION INSTRUCTIONS

1. Attach STEP MOUNTING BRACKET to post using 3/8" x 1" SS button head cap screws and 5/16" SS flat washers. See DETAIL A.
2. Attach PEP STEP to Step Mounting Bracket using 3/8" x 1 3/4" SS button head cap screws. See DETAIL B.
3. Attach Pep Step to post using 3/8" x 1 1/2" SS button head cap screw and 5/16" SS flat washer. See DETAIL C.
4. Tighten all hardware.
5. **INSTALL RESILIENT SURFACING MATERIAL IN ACCORDANCE TO INSTALLATION GUIDELINES.**



370-0009
HEALTHY HAMMOCK

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
020-0002	HEALTHY HAMMOCK ROPE ASSEMBLY	1
030-1518	BRACKET, ROPE CONNECTION	3
036-0258	HARDWARE PACKAGE	3
036-0448	HARDWARE PACKAGE	1
036-0818	INTENSITY SHIM PACKAGE	1
046-0334	BRASS SPACER 7/16" OD X 1 1/4"	3

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

HEALTHY HAMMOCK ROPE ASSEMBLY: Rope consists of 6 right hand, regular lay strands, closed around a synthetic fiber core, with each preformed strand consisting of 8 galvanized steel wires tightly covered with multifilament polypropylene fibers. Aluminum end connectors and ferrules with stainless steel screws.

BRACKET, ROPE CONNECTION: One piece all welded construction consisting of a formed 3/16" stainless steel plate and a 8 GA galvanized steel sheet. Finished with a baked on powder coating.

HARDWARE PACKAGE: HARDWARE PACKAGE: Stainless steel.

INTENSITY SHIM PACKAGE: Black thermoplastic.

BRASS SPACER 7/16" OD X 1 1/4": Brass Tube 7/16" OD X .028" Wall

SHIPPING WEIGHT: 7 LBS.

INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

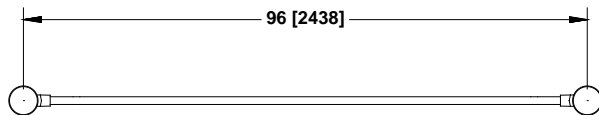
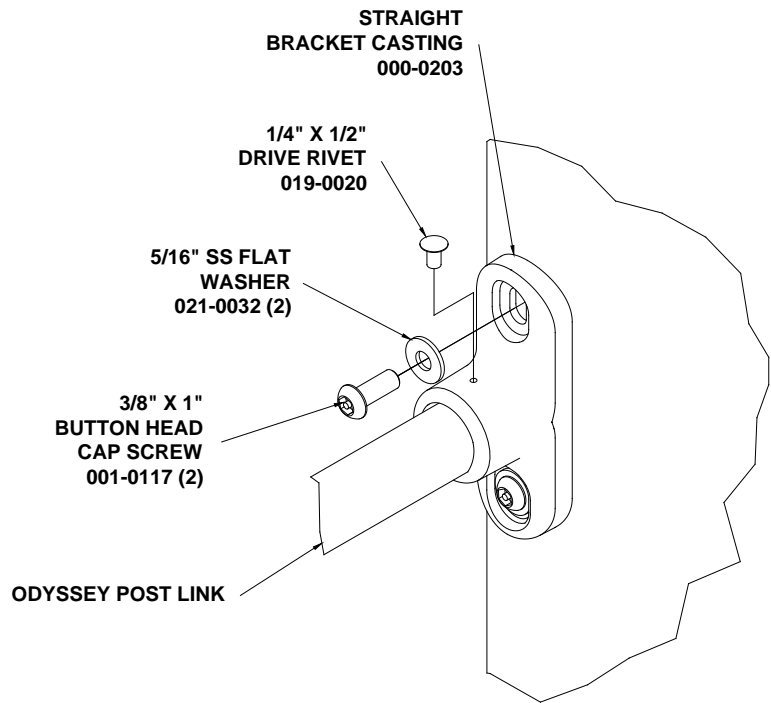
- 1) Locate holes for ROPE CONNECTION BRACKETS on 5" OD posts as per dimensions shown.
- 2) Attach ROPE CONNECTION BRACKETS to 5" OD posts using 3/8" x 1" SS button head cap screws and 5/16" SS flat washers. See DETAIL A.
- 3) Attach HEALTHY HAMMOCK ROPE ASSEMBLY to Rope Connection Brackets using 3/8" x 1 1/2" SS button head cap screws, ROPE CONNECTOR SHIMS and BRASS SPACERS. See DETAIL A.

INSTALLATION HINT: Slide rope connector shim into position on tab first. Then slide rope assembly connector over shim and secure with brass spacer and 3/8" x 1 1/2" SS button head cap screw.

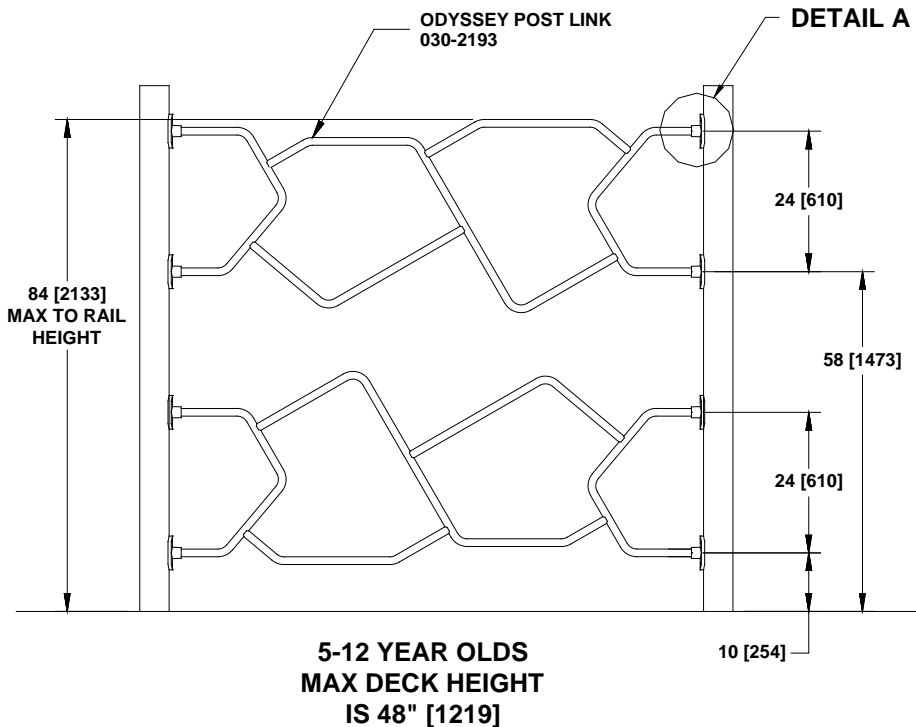
- 4) Tighten all hardware.
- 5) **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



**DETAIL A
(8 PLACES)**



370-0033 ODYSSEY POST LINK DOUBLE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	8
030-2193	ODYSSEY POST LINK	2
036-0258	HARDWARE PACKAGE	8
036-0819	HARDWARE PACKAGE	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

ODYSSEY POST LINK: Weldment consisting of formed 1.315" OD x 12 GA galvanized tubing. Finished with a baked on powder coat finish.

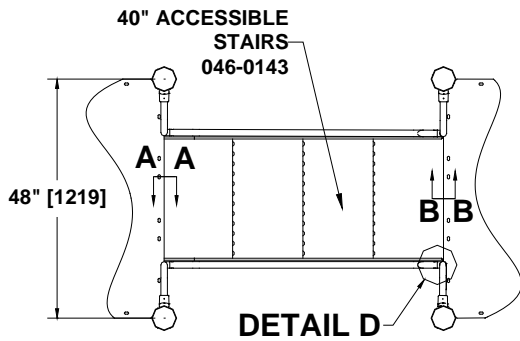
HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: Aluminum Rivets

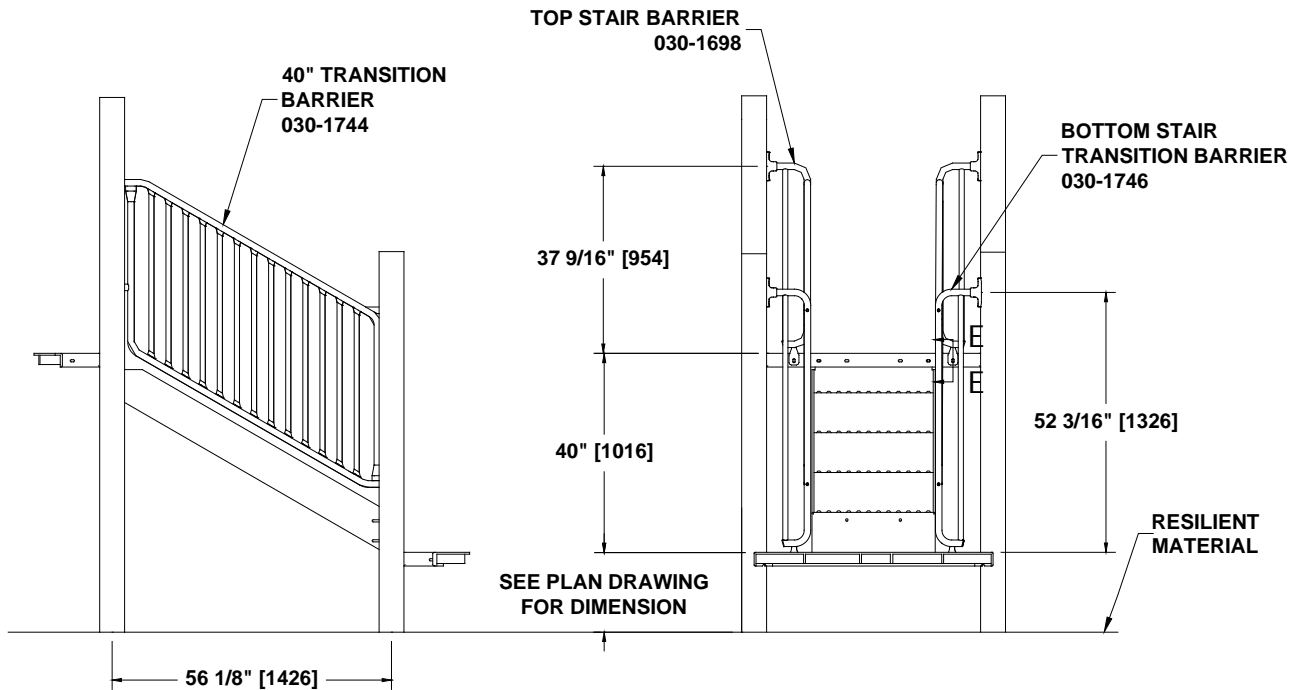
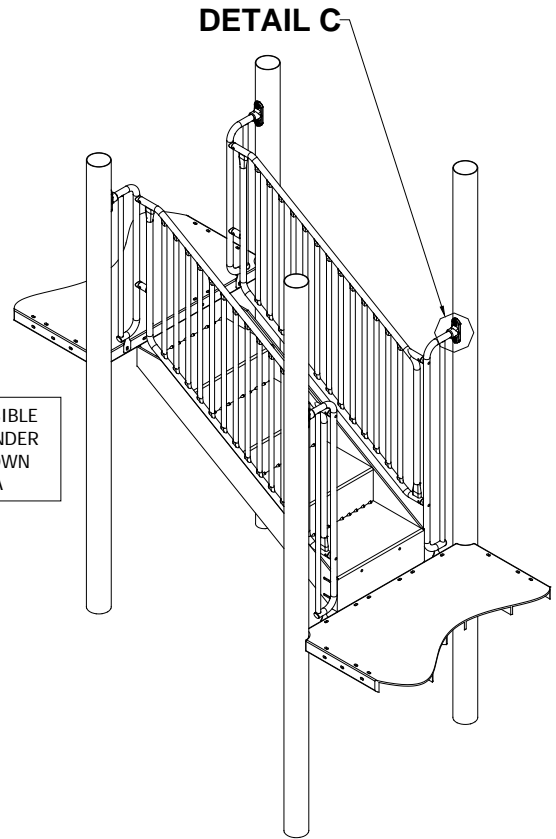
SHIPPING WEIGHT: 79 LBS.

INSTALLATION INSTRUCTIONS

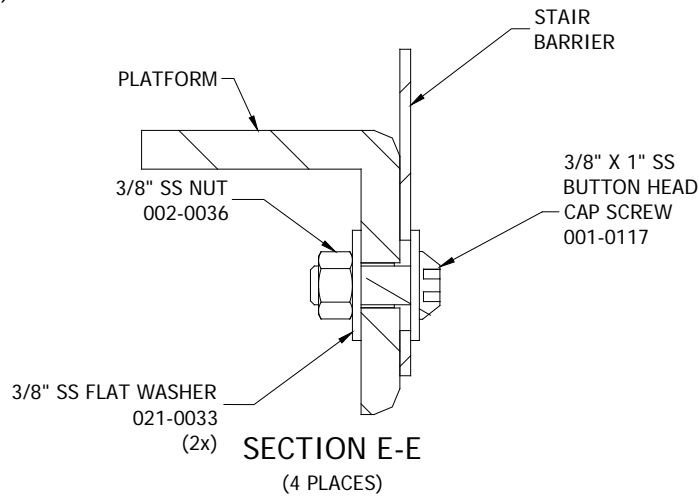
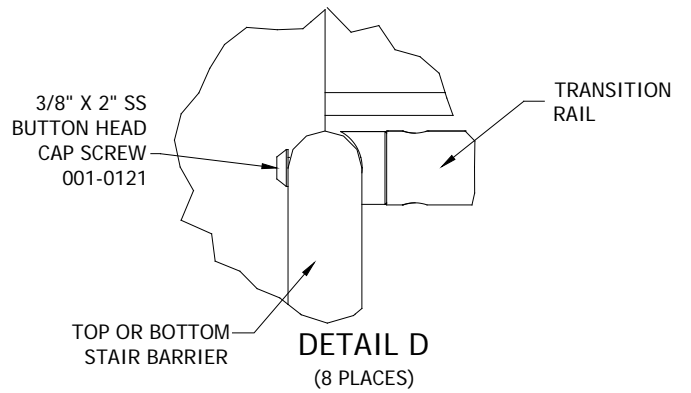
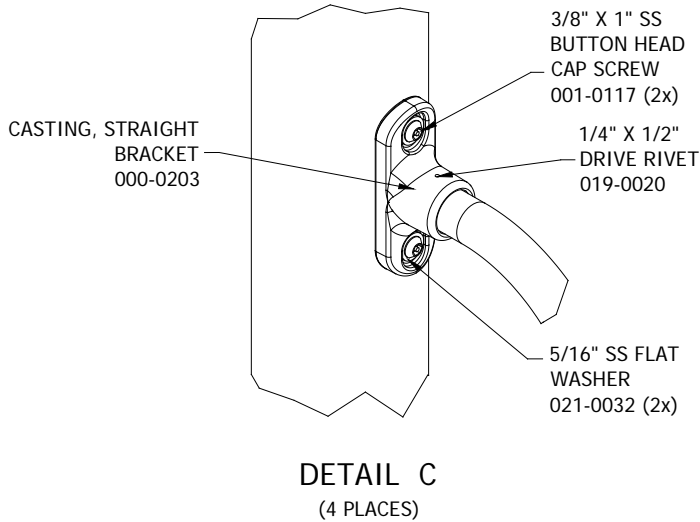
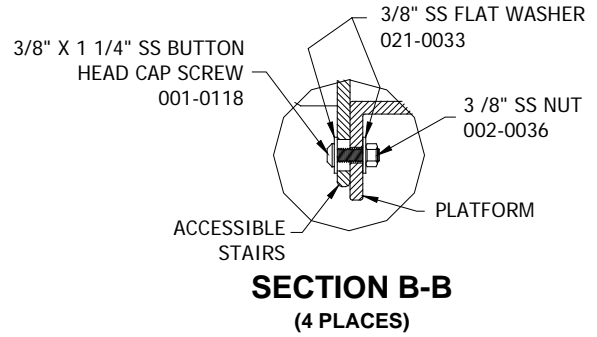
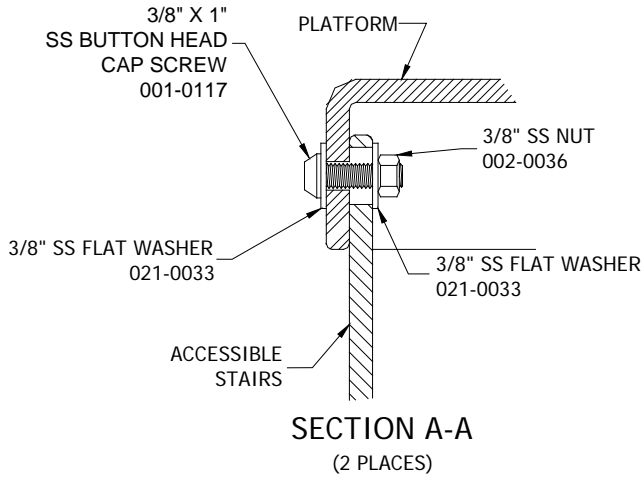
1. Dig footing holes per dimensions shown. See typical concrete footing details, which are located in the preface of your installation manual.
2. Locate mounting holes for ODYSSEY POST LINKS on 5" OD posts.
3. Sleeve CASTING BRACKET onto ends of ODYSSEY POST LINKS. See DETAIL A.
4. Place ODYSSEY POST LINKS with brackets into position with 5" OD posts and fasten using hardware specified in DETAIL A.
5. Tighten all hardware.
6. Drill 1/4" diameter holes through pilot hole in mount bracket and into enclosure. Drive rivets flush with brackets and handrails. See DETAIL E.
7. Block-up, level and plumb climber.
8. Pour concrete. Let set for two to three days.
9. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.



TOP OF 40" ACCESSIBLE STAIR MOUNTED UNDER PLATFORM AS SHOWN IN SECTION A-A



370-0469 40" TRANSITION STAIR W/BARRIERS



370-0469
40" TRANSITION STAIR W/BARRIERS

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	4
030-1698	TOP STAIR BARRIER	2
030-1744	40" TRANSITION BARRIER	2
030-1746	BOTTOM STAIR TRANSITION BARRIER	2
036-1125	HARDWARE PACKAGE	1
046-0143	40" ACCESSIBLE STAIRS	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

TOP STAIR BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing and 10 GA galvanized steel plate. Finished with a baked on powder coating.

40" TRANSITION BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing, malleable iron plug and 10 GA galvanized steel plate. Finished with a baked on powder coating.

BOTTOM STAIR TRANSITION BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing and 10 GA galvanized steel plate. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

40" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

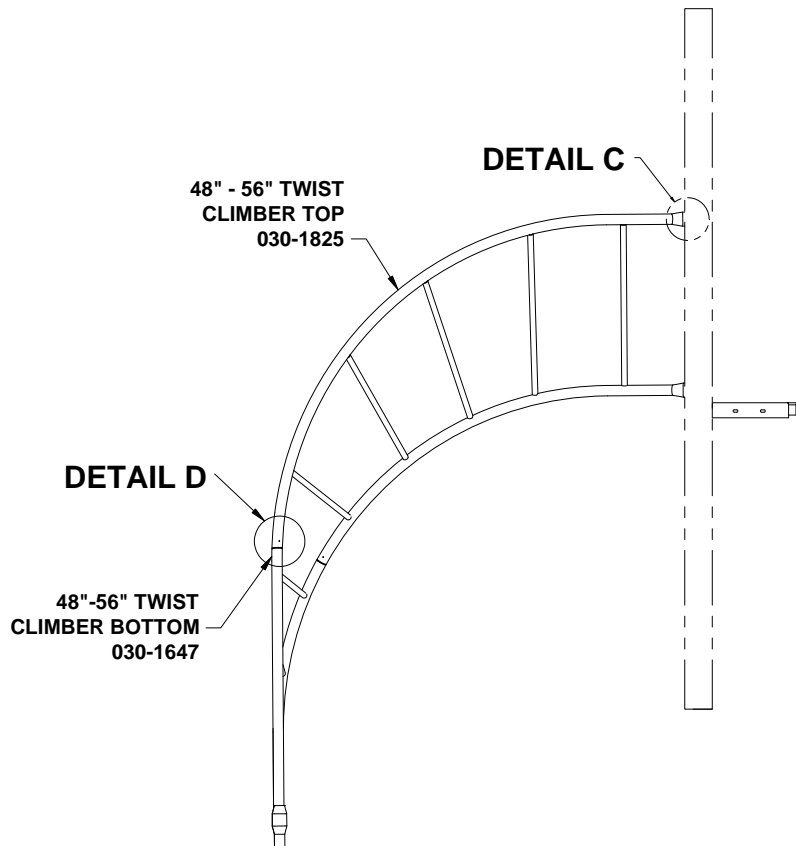
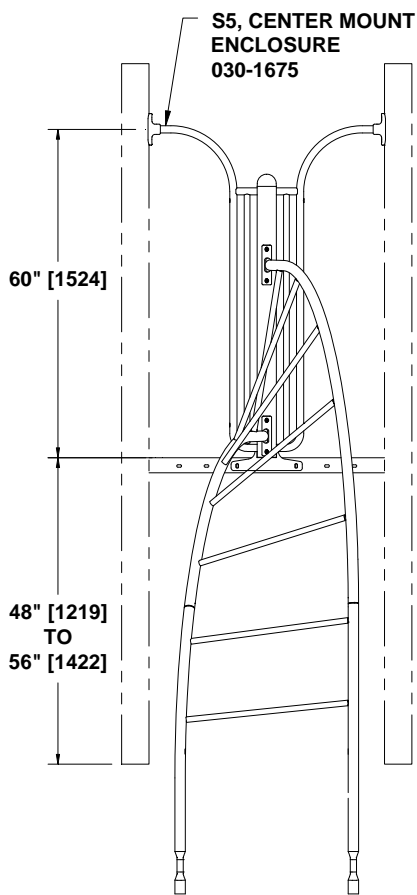
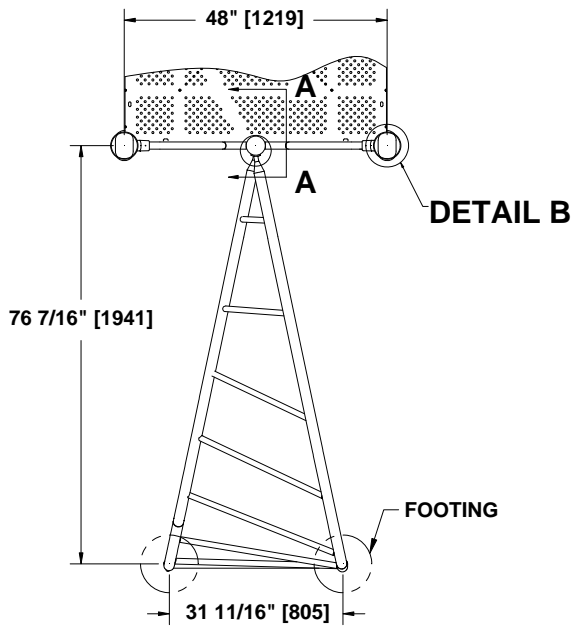
SHIPPING WEIGHT: 279 LBS.

INSTALLATION INSTRUCTIONS

N NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

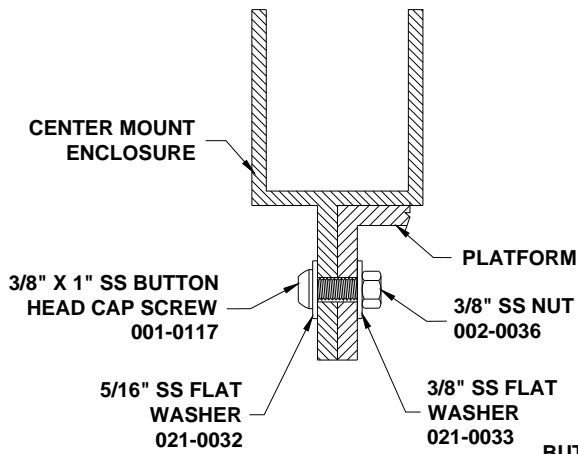
NOTE: Do not tighten hardware until instructed to do so.

1. Install platforms. See appropriate installation instructions.
2. Attach 40" ACCESSIBLE STAIRS to upper platform using 3/8" x 1" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. **NOTE: Make sure the stairs are centered between the posts.** See SECTION A-A.
3. Attach 40" accessible stairs to lower platform using 3/8" x 1 1/4" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. **NOTE: Make sure the stairs are centered between the posts.** See SECTION B-B.
4. Attach STRAIGHT BRACKET CASTINGS to 5" OD posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
5. Attach TOP STAIR BARRIER to 40" TRANSITION BARRIER using 3/8" x 2" SS button head cap screws. See DETAIL D.
6. Attach BOTTOM STAIR TRANSITION BARRIER to 40" TRANSITION BARRIER using 3/8" x 2" SS button head cap screws. See DETAIL D.
7. Sleeve TOP STAIR BARRIER and BOTTOM STAIR TRANSITION BARRIER into straight bracket castings. Attach bottom of barriers to platforms using 3/8" x 1" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. See FRONT PAGE of this installation print for orientation. Also see DETAIL C and SECTION E-E.
8. Repeat steps 5 thru 7 for the opposite side of the stair.
9. Tighten all hardware.
10. Drill 1/4" diameter holes thru brackets and barriers. Insert 1/4" diameter drive rivets and pound center pins flush to engage rivets. Apply touch up paint to exposed heads of rivets.
11. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

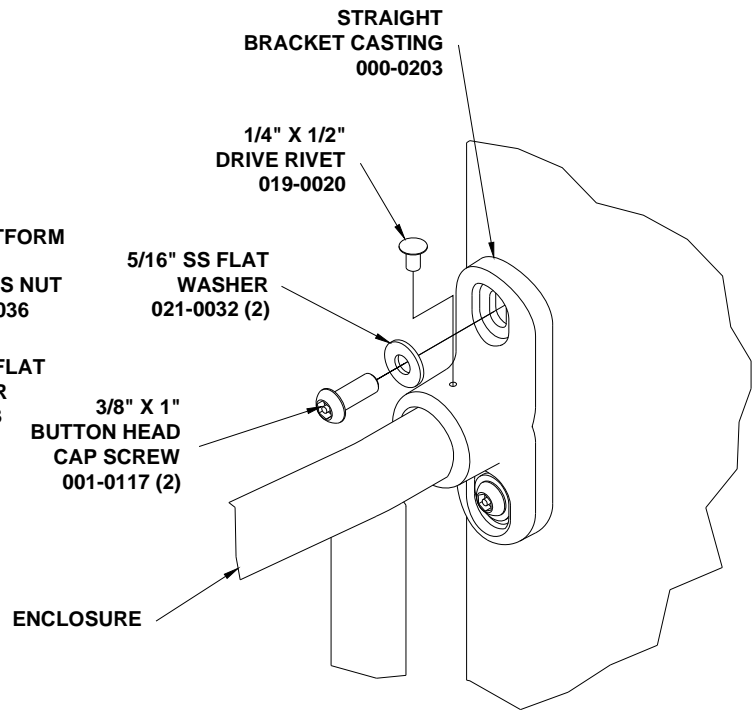


370-0552

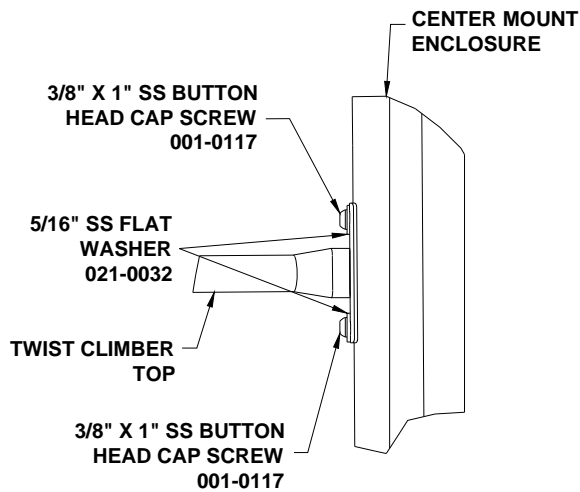
CENTER MOUNT TWIST N' TURN CLIMBER, 48"-56"



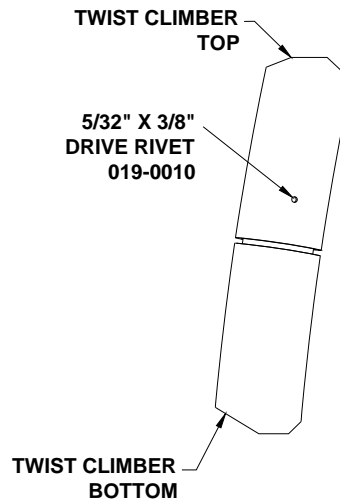
**SECTION A-A
(2 PLACES)**



**DETAIL B
(2 PLACES)**



**DETAIL C
(2 PLACES)**



**DETAIL D
(2 PLACES)**

370-0552

CENTER MOUNT TWIST N' TURN CLIMBER, 48"-56"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1647	48"-56" TWIST CLIMBER BOTTOM	1
030-1675	S5 CENTER MOUNT ENCLOSURE	1
030-1825	48"-56" TWIST CLIMBER TOP	1
036-0227	HARDWARE PACKAGE	1
036-0258	HARDWARE PACKAGE	1
036-0432	HARDWARE PACKAGE	1
036-0596	HARDWARE PACKAGE	1
036-0819	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

48"-56" TWIST CLIMBER BOTTOM: One piece, all welded construction consisting of 1.900" OD x 11 GA and 1.029" OD x 14 GA galvanized steel tubing and 1 9/16" OD x 13 GA steel tube. Finished with a baked-on powder coating.

S5 CENTER MOUNT ENCLOSURE: One piece all welded construction consisting of 3 1/2" OD x 11 GA, 1.315" OD x 12 GA & 1.029" OD X 14 GA galvanized steel tubing, and 10 GA galvanized sheet. 3 1/2" aluminum post cap and rivets. Finished with a baked on powder coating.

48"-56" TWIST CLIMBER TOP: One piece, all welded construction consisting of 1.900" OD x 11 GA and 1.029" OD x 14 GA galvanized steel tubing and 12GA SS steel plate. Finished with a baked-on powder coating.

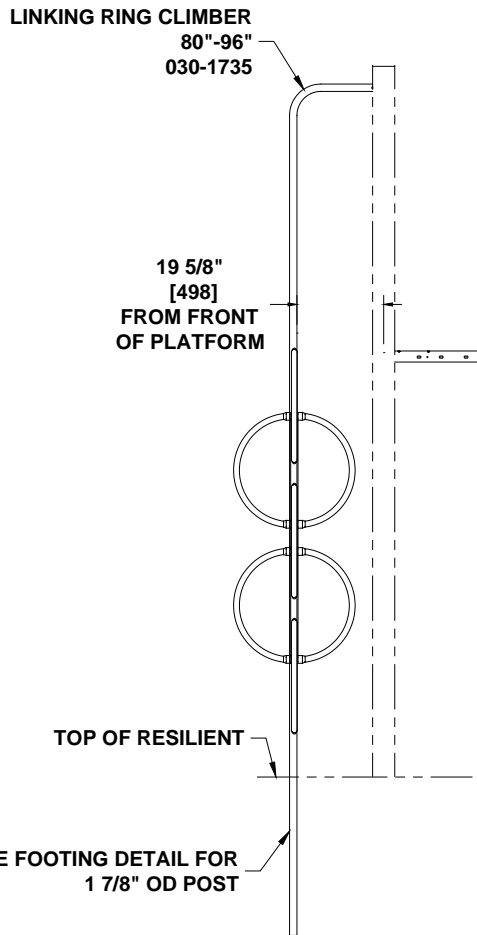
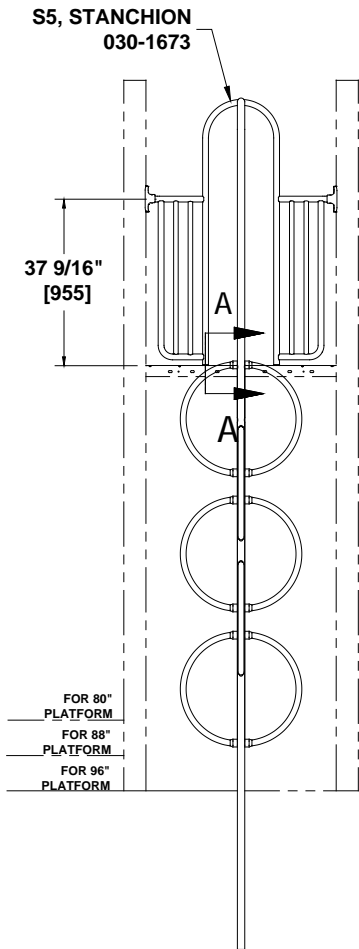
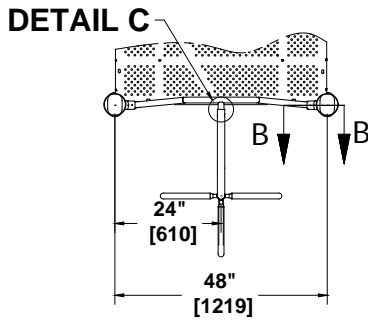
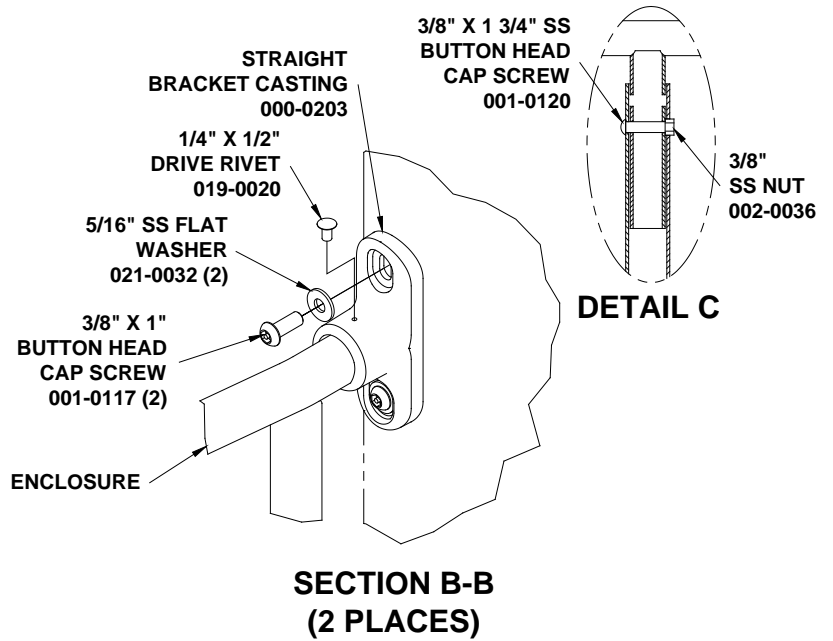
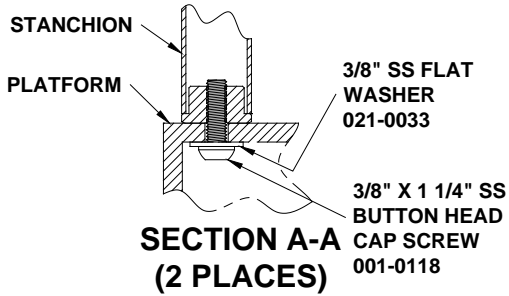
HARDWARE PACKAGE; HARDWARE PACKAGE; HARDWARE PACKAGE; HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: Aluminum Rivets

SHIPPING WEIGHT: 114 LBS.

INSTALLATION INSTRUCTIONS

1. Dig footing holes per dimensions shown. See typical concrete footing details, which are located in the preface of your installation manual.
2. Locate holes for CASTING BRACKET on 5" O.D. posts as per dimensions shown.
3. Insert casting brackets onto ends of CENTER MOUNT ENCLOSURE and attach casting brackets to 5" O.D. posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers as shown. See SECTION B-B.
4. Attach enclosure to platform using 3/8" x 1" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts as shown. Tighten screws. See SECTION A-A.
5. Drill 1/4" diameter hole through pilot hole in casting brackets and into enclosure. Insert DRIVE RIVET. Drive rivet flush with head of rivet. See SECTION B-B.
6. Insert the TWIST CLIMBER BOTTOM into the TWIST CLIMBER TOP. See DETAIL D.
7. Drill 5/32" diameter holes through pilot holes in twist climber top. Rivet the tubes together using 5/32" x 3/8" drive rivets. See DETAIL D.
8. Attach twist climber top to center mount enclosure using 3/8" X 1" SS button head cap screws and 5/16" SS flat washers. SEE DETAIL C.
9. Fill extra nutserts on the enclosure with a 3/8" x 1" SS button head cap screw.
10. Tighten all hardware.
11. Spray drive rivet locations with touch-up paint.
12. Block-up, level and plumb climber.
13. Pour concrete. Let set for two to three days.
14. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



370-0557
LINKING RING CLIMBER, 80\"-96\"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1673	S5 STANCHION	1
030-1735	LINKING RING CLIMBER 80"-96"	1
036-1307	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 STANCHION: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and HDPE threaded inserts. Finished with a baked on powder coating.

LINKING RING CLIMBER 80"-96": One piece all welded construction consisting of 1.660" OD x 12 GA and 1.315" OD x 14 GA galvanized steel tubing finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivet with 302 stainless steel pin.

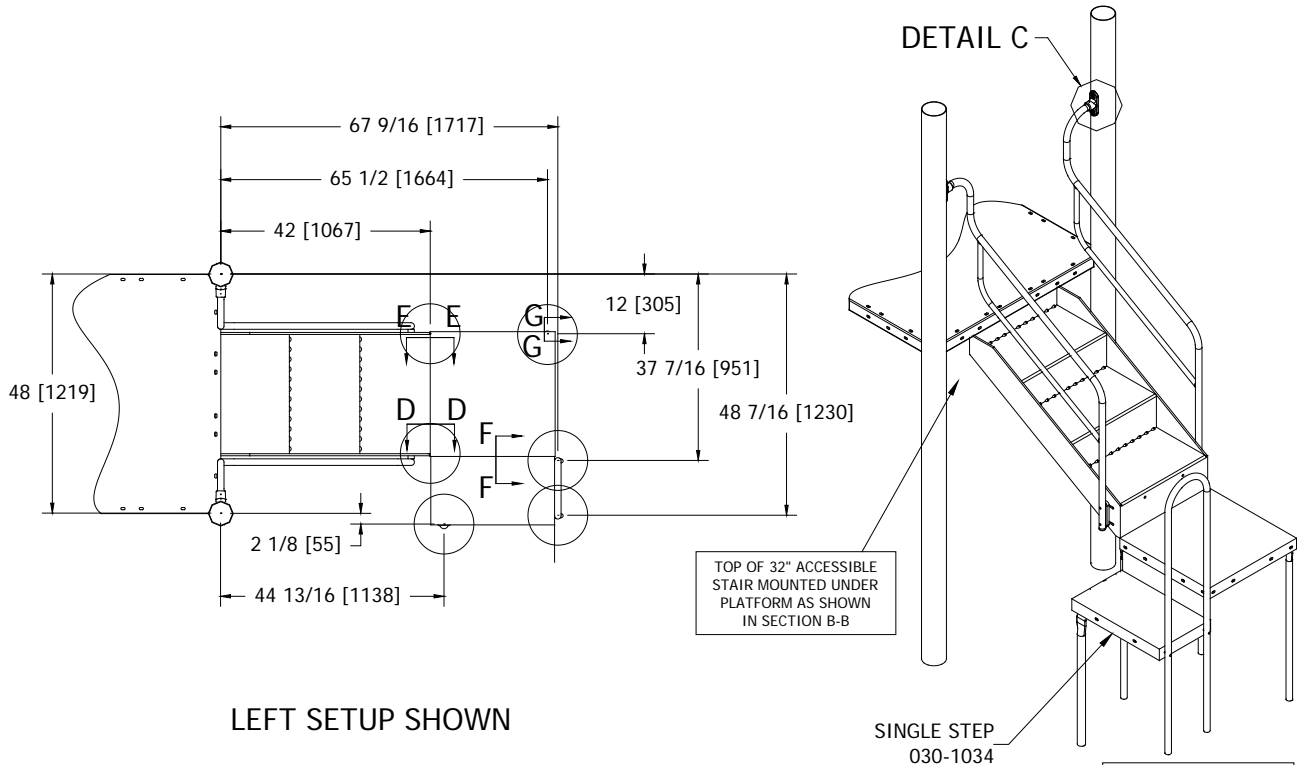
SHIPPING WEIGHT: 100 LBS.

INSTALLATION INSTRUCTIONS

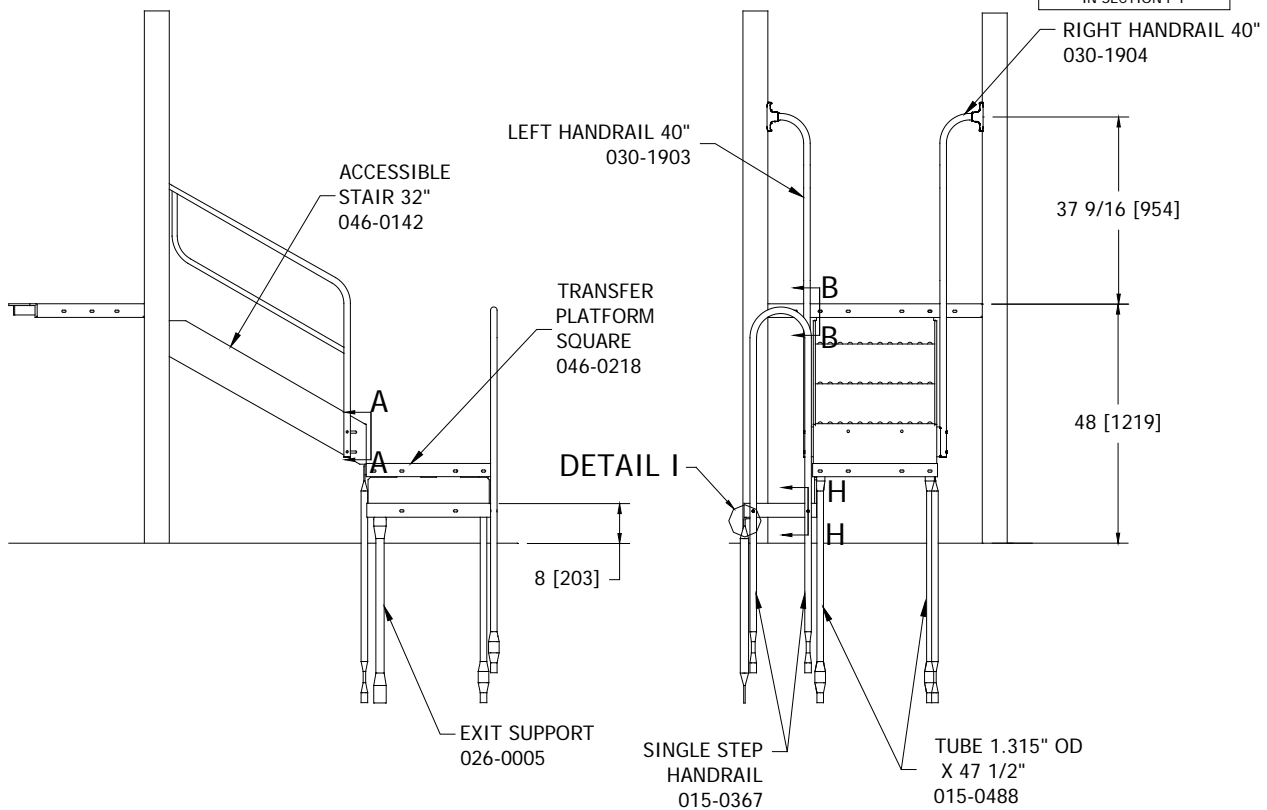
NOTE: Plastisol coating may need to be removed from mounting holes on platform before installing this climber.

1. Locate and dig footing hole as per dimensions shown. See typical concrete footing details, which are located in the preface of your installation manual.
2. Locate mounting holes for STANCHION on 5" O.D. posts.
3. Set STRAIGHT BRACKET CASTING over ends of stanchion. Position stanchion with brackets into opening. Install 3/8" x 1" BUTTON HEAD CAP SCREWS and 5/16" WASHERS through upper holes of brackets and into 5" O.D. posts. See SECTION B-B.
4. Rotate stanchion up 90 degrees and install 3/8" x 1" BUTTON HEAD CAP SCREWS and 5/16" WASHERS into bottom holes of brackets. See SECTION B-B Tighten all hardware.
5. Rotate stanchion down to align holes in platform with stanchion nutserts.
6. Attach stanchion to platform using 3/8" x 1 1/4" BUTTON HEAD CAP SCREWS and 3/8" WASHERS. See SECTION A-A. Tighten all hardware.
7. Drill 1/4" diameter holes through pilot hole in casting and into stanchion. See SECTION B-B.
8. Drive rivets flush with brackets and handrails.
9. Position LINKING RING CLIMBER into footing hole and attach to stanchion using 3/8" x 1 3/4" BUTTON HEAD CAP SCREWS and 3/8" NUT. See DETAIL C. Tighten all hardware.
10. Block-up and plumb.
11. Pour concrete and allow concrete to set for 2-3 days.
12. **Install resilient surfacing material.**

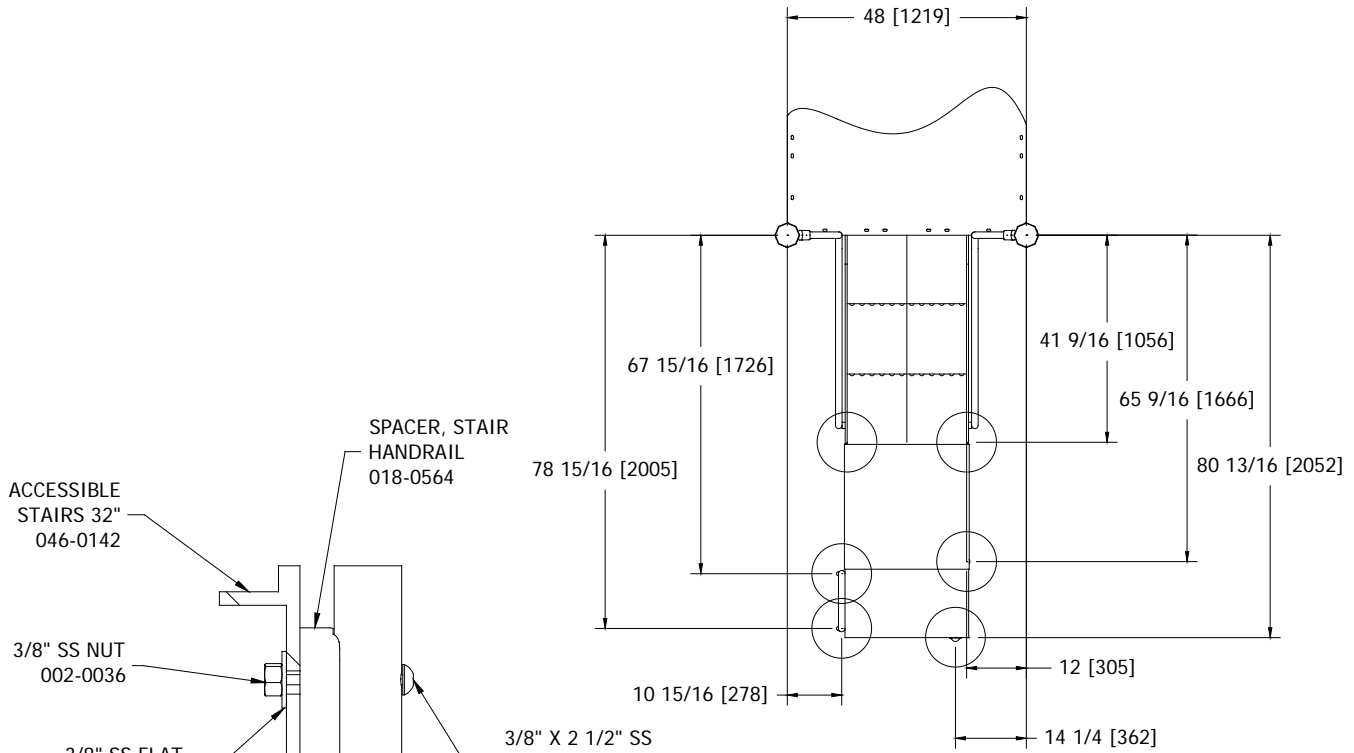
370-0557.doc Description: LINKING RING CLIMBER 80"-96"
REV: 01 PCN: 18-0225 6/13/2018



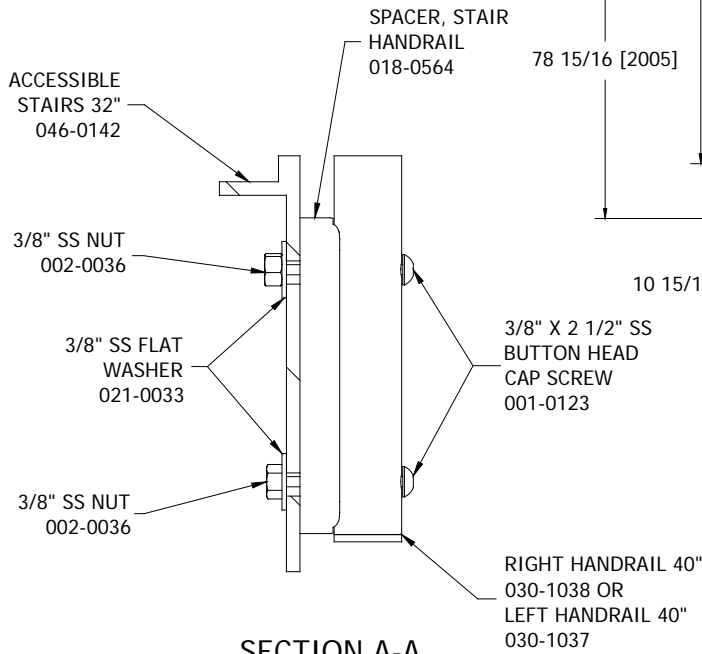
LEFT SETUP SHOWN



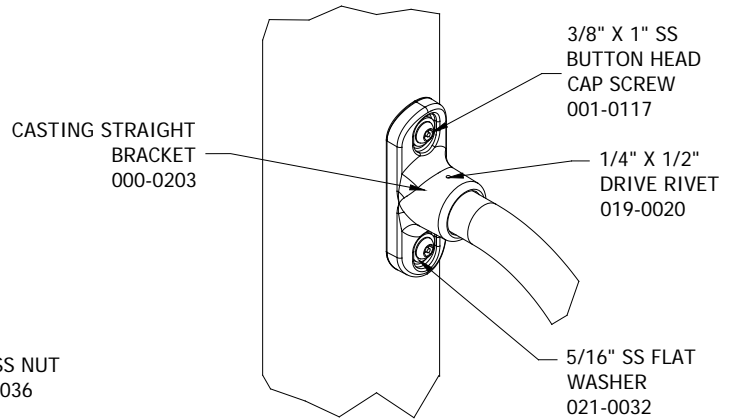
370-0720 TRANSFER STATION, HANDRAIL 48"



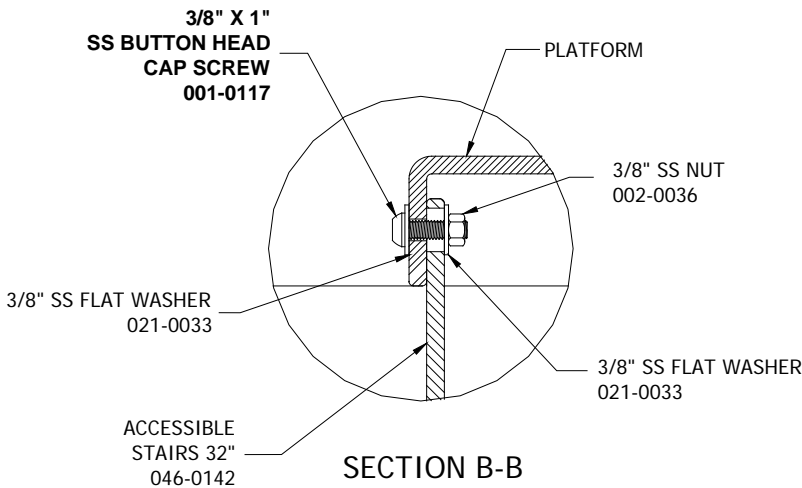
OPTIONAL SETUP



SECTION A-A
2 PLACES

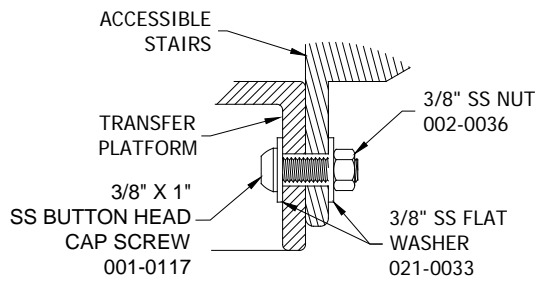


DETAIL C
2 PLACES

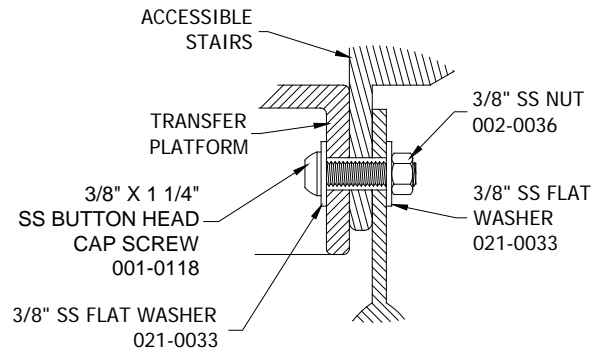


SECTION B-B
2 PLACES

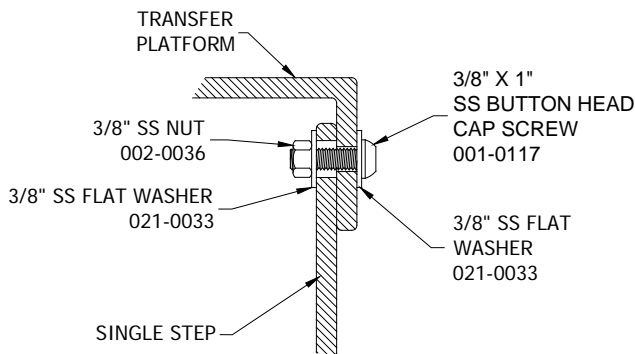
370-0720 TRANSFER STATION, HANDRAIL 48"



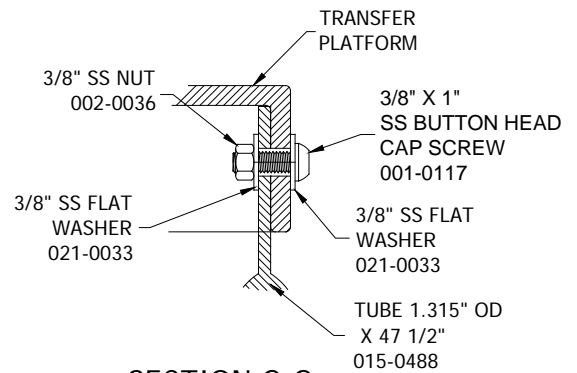
SECTION D-D
2 PLACES



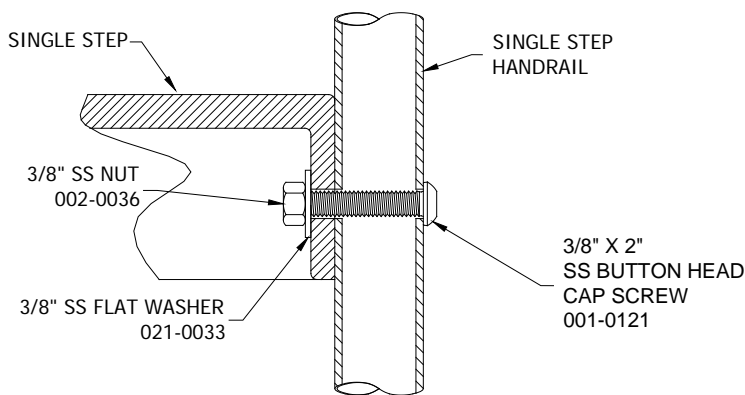
SECTION E-E
2 PLACES



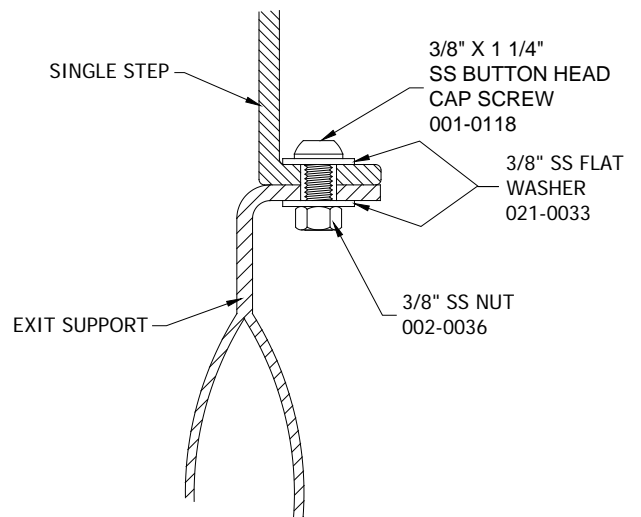
SECTION F-F
2 PLACES



SECTION G-G



SECTION H-H
2 PLACES



DETAIL I

370-0720

TRANSFER STATION, HANDRAIL 48"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
015-0367	SINGLE STEP HANDRAIL	1
015-0488	TUBE 1.315" OD X 47 1/2"	3
018-0564	SPACER, STAIR HANDRAIL	2
026-0005	SUPPORT, EXIT, 37.29"	1
030-1034	SINGLE STEP	1
030-1903	LEFT HANDRAIL 40"	1
030-1904	RIGHT HANDRAIL 40"	1
036-1123	HARDWARE PACKAGE	1
046-0142	32" ACCESSIBLE STAIRS	1
046-0218	SQUARE TRANSFER PLATFORM	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

SINGLE STEP HANDRAIL: Formed 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

TUBE 1.315" OD X 47 1/2": 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

SPACER, STAIR HANDRAIL: 3/4" extruded HDPE.

SUPPORT, EXIT, 37.29": 1.660" OD x 13 GA galvanized steel tubing finished with a baked on powder coating.

SINGLE STEP: One piece all welded construction consisting of 12 GA surfaces and gussets. PVC coated after fabrication.

LEFT HANDRAIL 40"; RIGHT HANDRAIL 40": One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 14 GA galvanized steel tubing, and 10 GA galvanized steel cap. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

32" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

SQUARE TRANSFER PLATFORM: One piece all welded construction consisting of 12 GA surfaces, gussets, and corners. PVC coated after fabrication.

SHIPPING WEIGHT: 236 LBS.

INSTALLATION INSTRUCTIONS

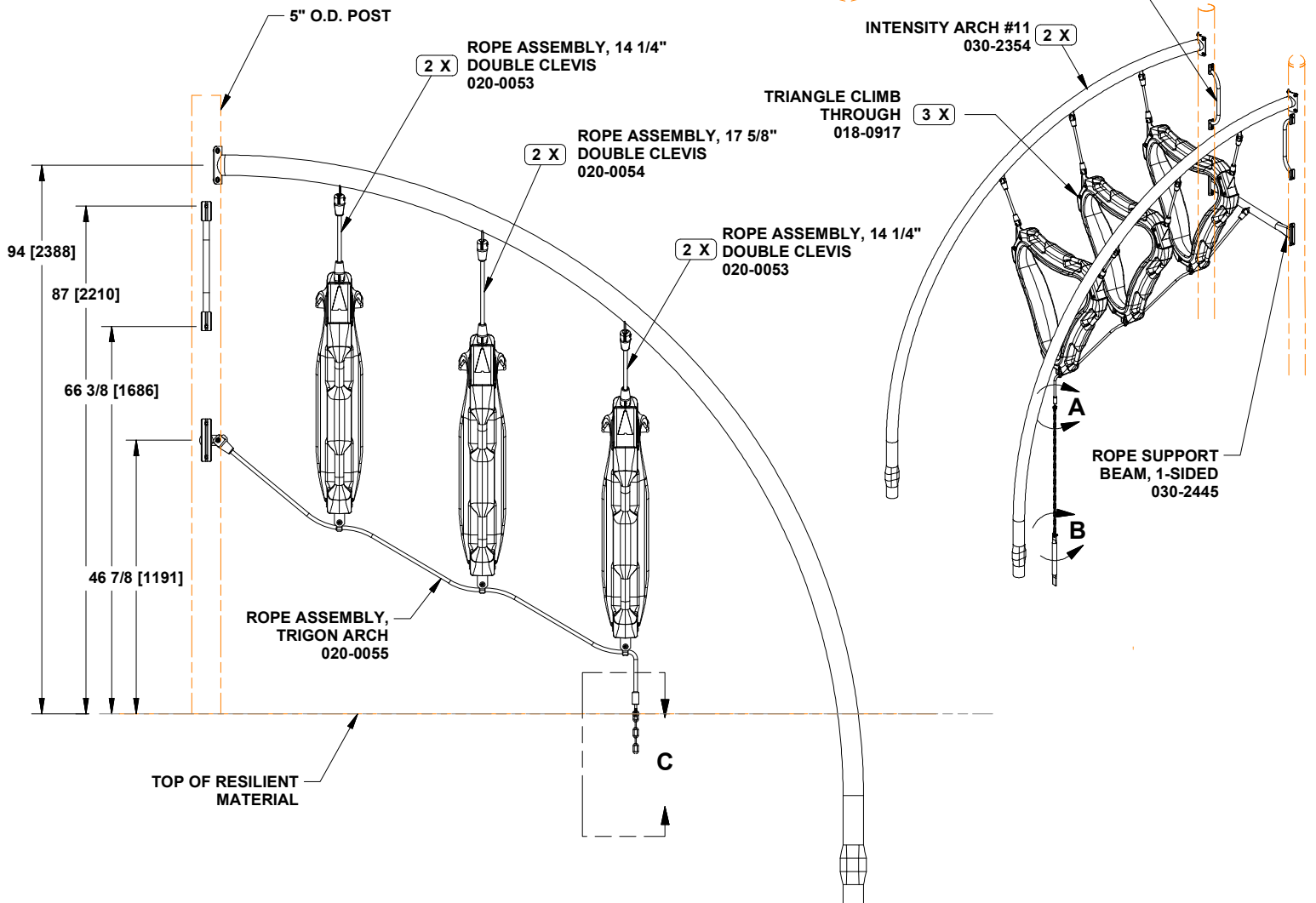
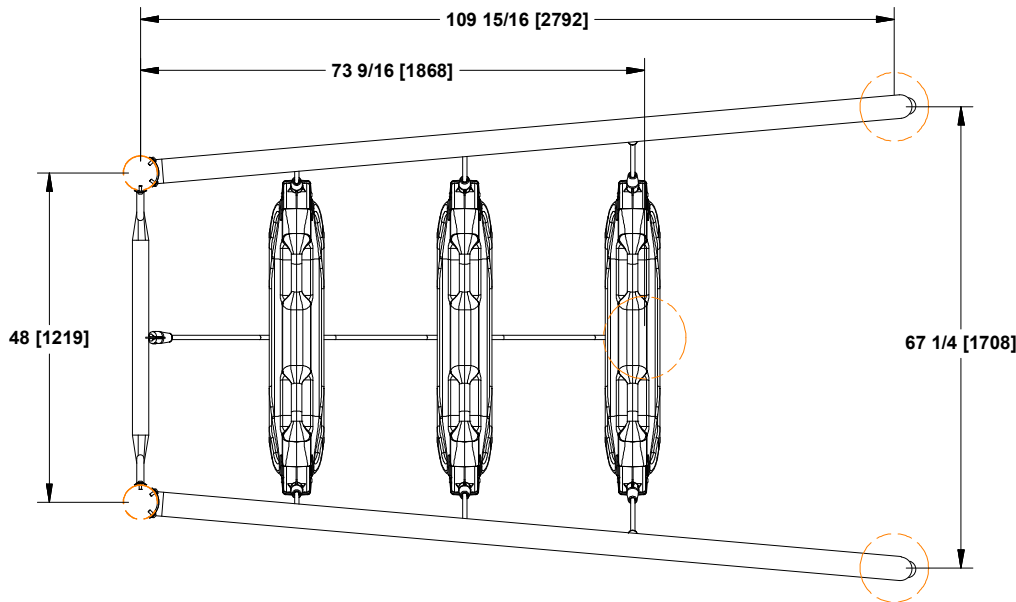
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Install platforms. See appropriate installation instructions.
2. Dig footing holes per dimensions shown. See concrete footing drawing for 1.315" OD and 1.660" OD tubing, which is located in the preface of your installation manual.
3. Attach TUBES and TRANSFER PLATFORM to 32" ACCESSIBLE STAIRS using 3/8" x 1 1/4" SS button head cap screws with tubes, 3/8" x 1" SS button head cap screws without tubes, 3/8" SS nuts and 3/8" SS flat washers. Refer to SECTION D-D and E-E.
4. Attach Tube to Transfer Platform using 3/8" x 1" SS button head cap screw, 3/8" SS nut and 3/8" SS flat washers. Refer to SECTION G-G.
5. Attach SINGLE STEP to TRANSFER PLATFORM using 3/8" x 1" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION F-F.
6. Attach EXIT SUPPORT to Single Step using a 3/8" x 1 1/4" SS button head cap screw, 3/8" SS washers and a 3/8" SS nut. See DETAIL I.
7. Attach SINGLE STEP HANDRAIL to side of Single Step using 3/8" x 2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION H-H. **Note: the heads of the button head cap screws must be on the outside of the step assembly.**
8. Position transfer station assembly into footing holes. Attach Accessible Stair to platform using, 3/8" x 1" SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. Do not tighten nuts. See SECTION B-B.
9. Block-up and level transfer station assembly.
10. Attach CASTING STRIGHT BRACKETS to 5" OD posts using 3/8" X 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
11. Sleeve RIGHT AND LEFT HANDRAILS onto brackets. See DETAIL C.
12. Attach right and left handrails to Accessible Stairs using STAIR HANDRAIL SPACER, 3/8" x 2 1/2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. **Note: the head of the button head cap screw must be on the outside of the stair.** See SECTION A-A.
13. Drill 1/4" diameter holes through pilot holes on handrails and into mount brackets. Insert drive rivets and drive flush with handrails. See DETAIL C.
14. Tighten all hardware.
15. Pour concrete and allow concrete to set for 2-3 days.
16. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



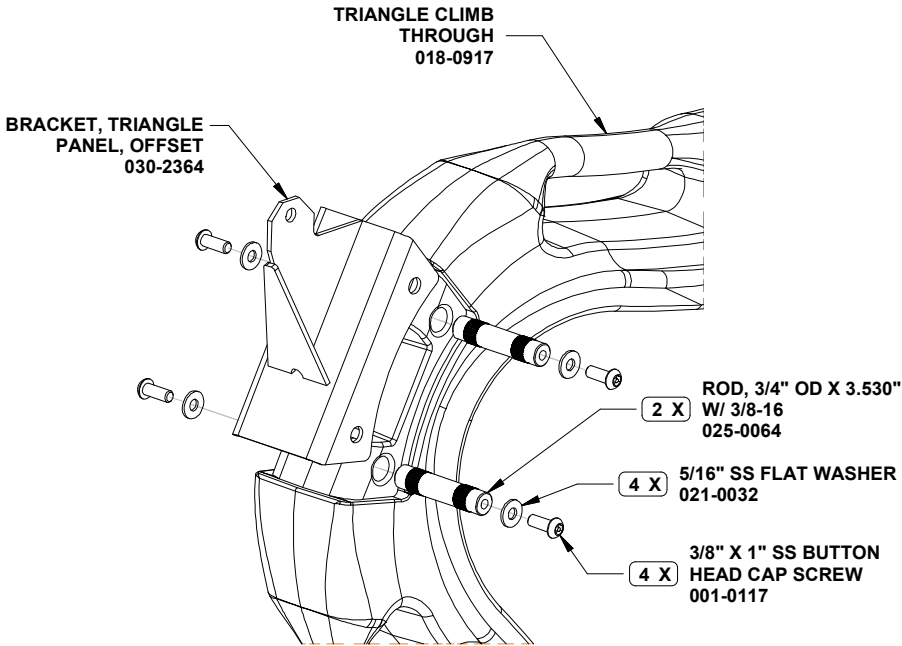
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



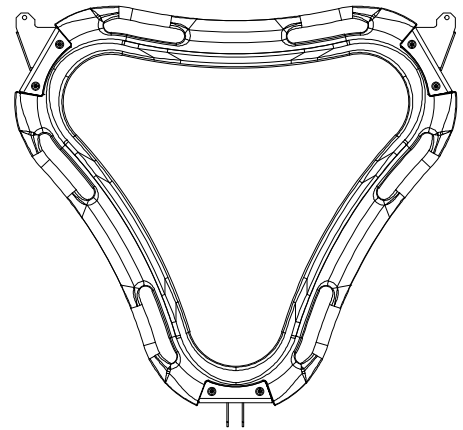
370-0836 TRIGON ARCH CLIMBER, INTENSITY



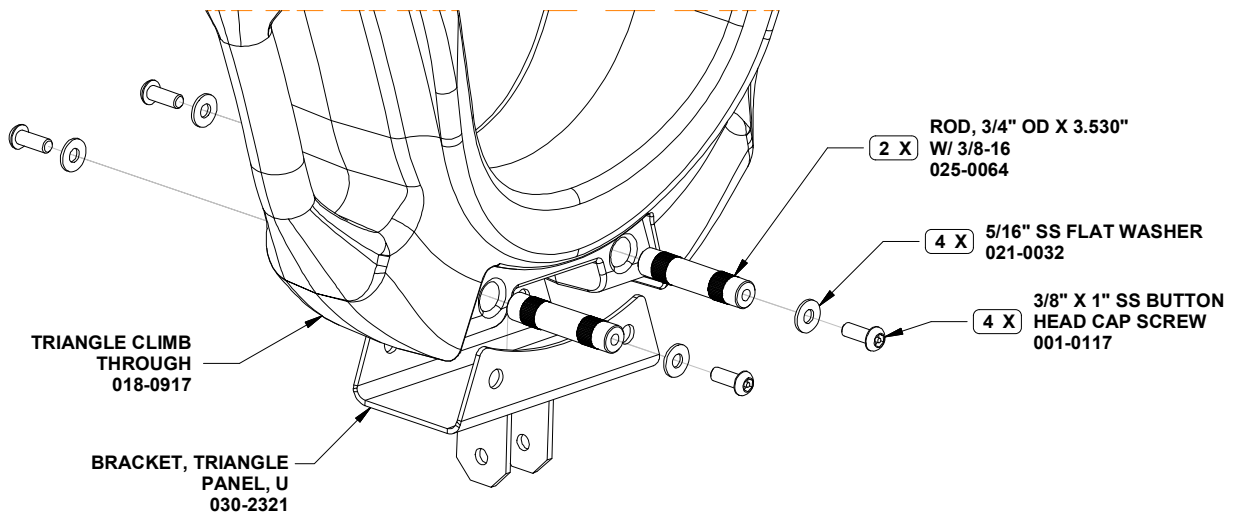
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



**TOP CORNER BRACKET VIEW
(6 PLACES)**



TRIANGLE BRACKET VIEW

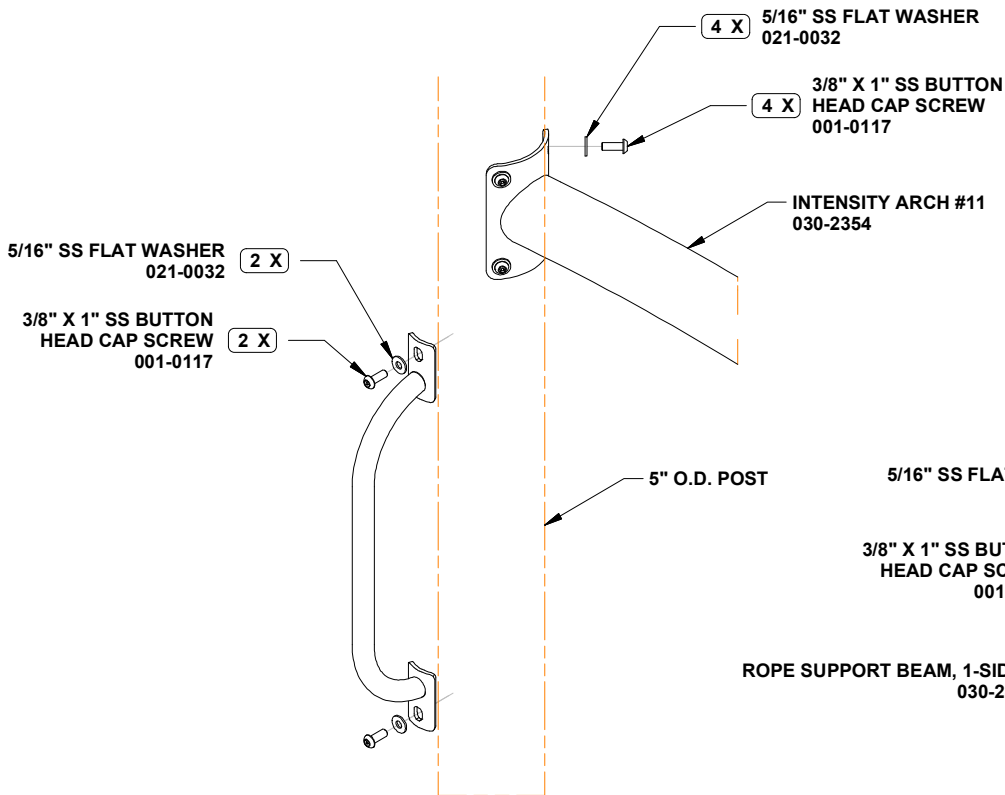


**BOTTOM CORNER BRACKET VIEW
(3 PLACES)**

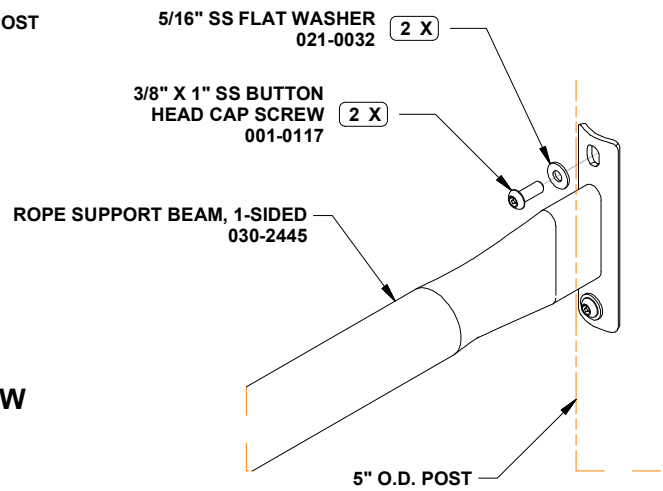
370-0836
TRIGON ARCH CLIMBER, INTENSITY



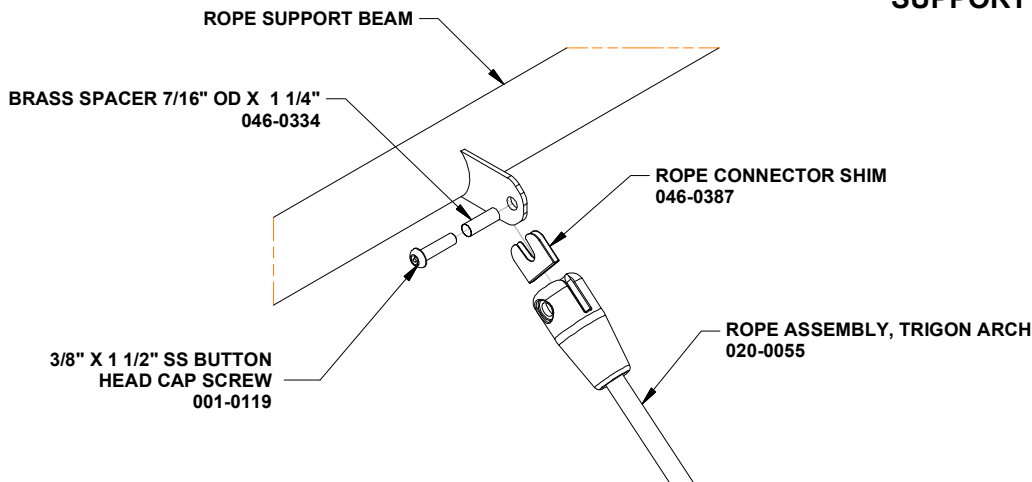
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



ARCH / HANDLE TO POST VIEW (2 PLACES)



SUPPORT BEAM TO POST VIEW (2 PLACES)

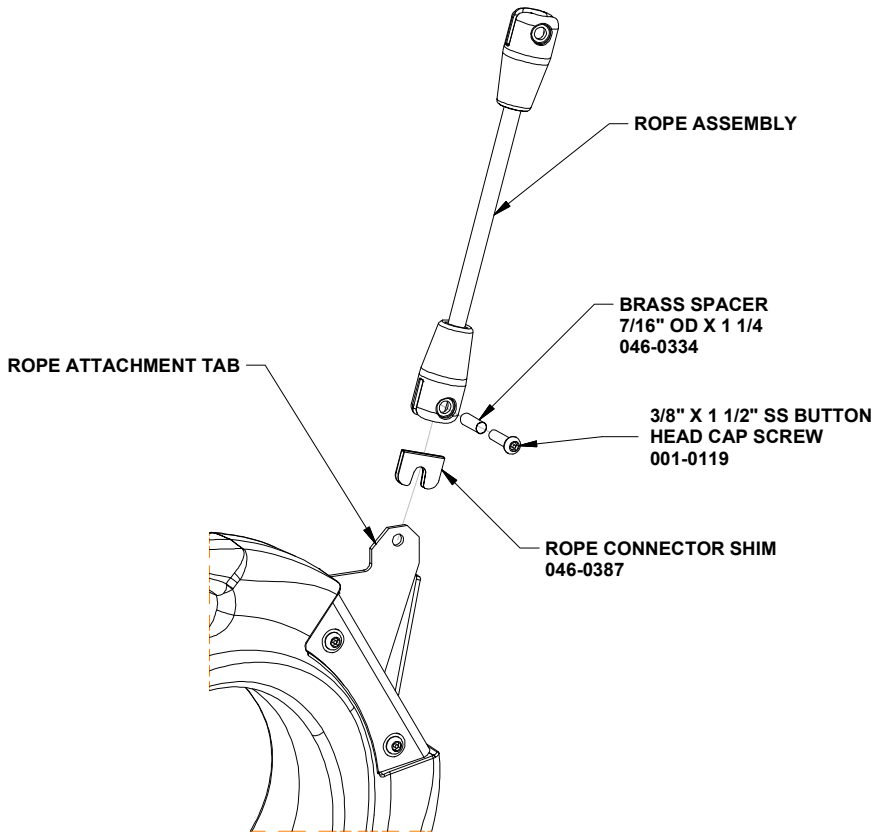


SUPPORT BEAM ROPE ATTACHMENT VIEW

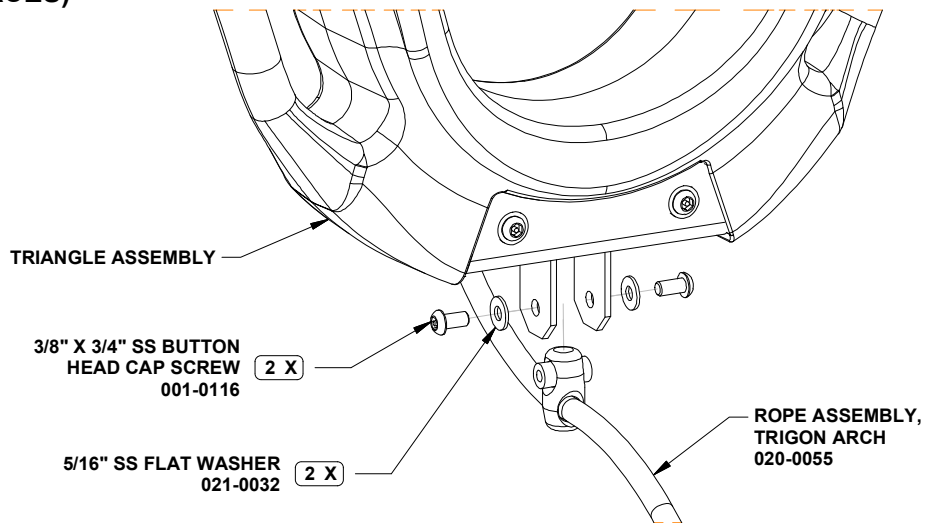
370-0836 TRIGON ARCH CLIMBER, INTENSITY



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



**ROPE CONNECTION VIEW
(12 PLACES)**

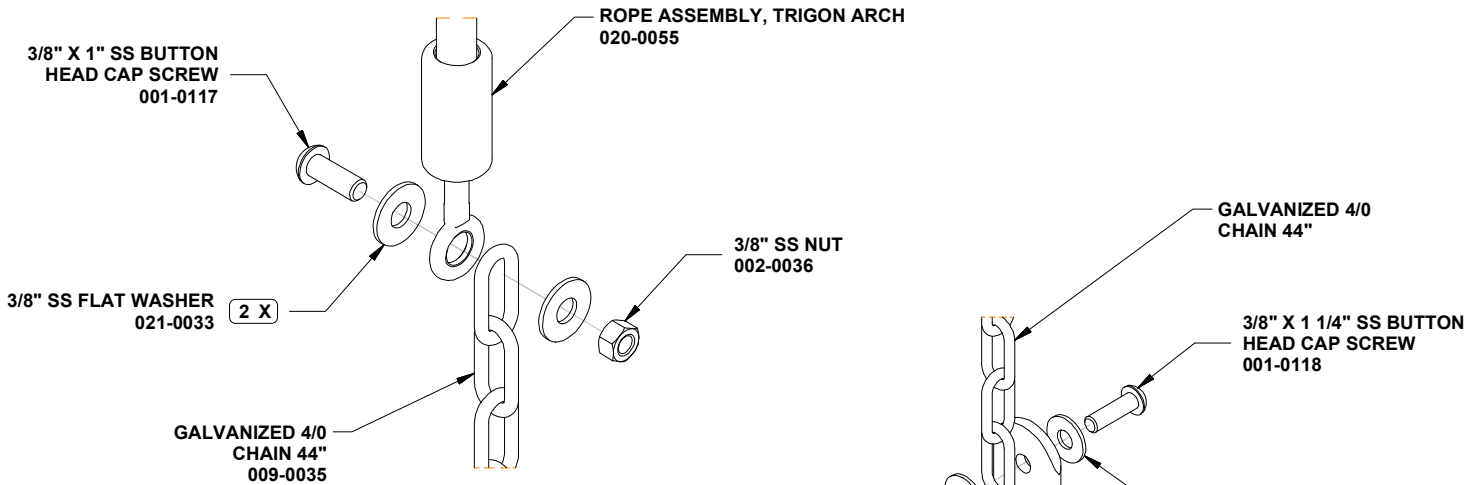


**LOWER ROPE CONNECTION VIEW
(3 PLACES)**

370-0836 TRIGON ARCH CLIMBER, INTENSITY

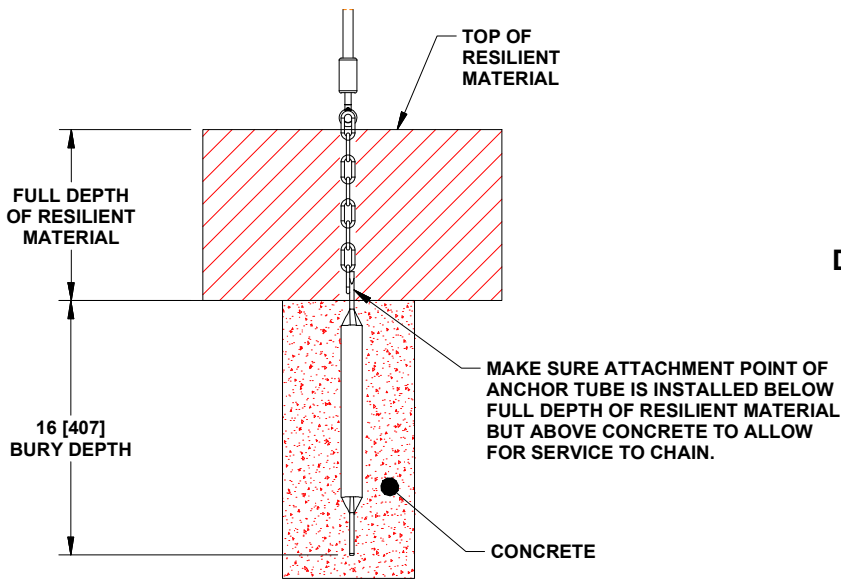


UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



DETAIL A VIEW

DETAIL B VIEW



DETAIL C VIEW

370-0836 TRIGON ARCH CLIMBER, INTENSITY

PARTS LIST

PART NO.	DESCRIPTION	QTY
009-0035	GALVANIZED 4/0 CHAIN 44"	1
015-0300	ANCHOR TUBE	1
018-0917	TRIANGLE CLIMB THROUGH	3
020-0053	ROPE ASSEMBLY, 14 1/4" DOUBLE CLEVIS	4
020-0054	ROPE ASSEMBLY, 17 5/8" DOUBLE CLEVIS	2
020-0055	ROPE ASSEMBLY, TRIGON ARCH	1
025-0064	ROD, 3/4" OD X 3.530" W/ 3/8-16	18
030-0484	GRAB BAR	2
030-2321	BRACKET, TRIANGLE PANEL, U	3
030-2354	INTENSITY ARCH #11	2
030-2364	BRACKET, TRIANGLE PANEL, OFFSET	6
030-2445	ROPE SUPPORT BEAM, 1-SIDED	1
036-1437	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED 4/0 CHAIN 44": 4/0 straight coil chain, 3/8" diameter.

ANCHOR TUBE: 1.315" OD x 12 GA galvanized steel tubing.

TRIANGLE CLIMB THROUGH: A minimum of .22" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction and a textured outside surface.

ROPE ASSEMBLY, 14 1/4" DOUBLE CLEVIS; ROPE ASSEMBLY, 17 5/8" DOUBLE CLEVIS: Rope consists of 6 right hand, regular lay strands, closed around a synthetic fiber core, with each preformed strand consisting of 8 galvanized steel wires tightly covered with multifilament polypropylene fibers. Aluminum end connectors and ferrules with stainless steel screws.

ROPE ASSEMBLY, TRIGON ARCH: Rope consists of 6 right hand, regular lay strands, closed around a synthetic fiber core, with each preformed strand consisting of 8 galvanized steel wires tightly covered with polyester fibers. Aluminum end connectors and ferrules with stainless steel threaded rods and screws.

ROD, 3/4" OD X 3.530" W/ 3/8-16: 3/4" OD stainless steel rod.

GRAB BAR: One piece all welded construction consisting of 1.029" OD x 14 GA galvanized steel tubing and formed 3/16" stainless steel plates. Finished with a baked on powder coating.

BRACKET, TRIANGLE PANEL, U: One piece all welded construction consisting of 8 and 10 GA galvanized steel. Finished with a baked on powder coating.

INTENSITY ARCH #11: One piece all welded construction consisting of formed 3 1/2" OD x 11 GA galvanized steel tubing, formed 7 GA stainless steel sheet and 8 GA galvanized steel plates. Finished with a baked on powder coating.

BRACKET, TRIANGLE PANEL, OFFSET: One piece all welded construction consisting of 8 and 10 GA galvanized steel. Finished with a baked on powder coating.

ROPE SUPPORT BEAM, 1-SIDED: One piece all welded construction consisting of 2 3/8" OD x 10 GA galvanized steel tubing, 8 GA galvanized plates, and formed 7GA stainless steel plates. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, washers & nuts, brass tubes and black thermoplastic shims.

SHIPPING WEIGHT: 241 LBS.

INSTALLATION INSTRUCTIONS

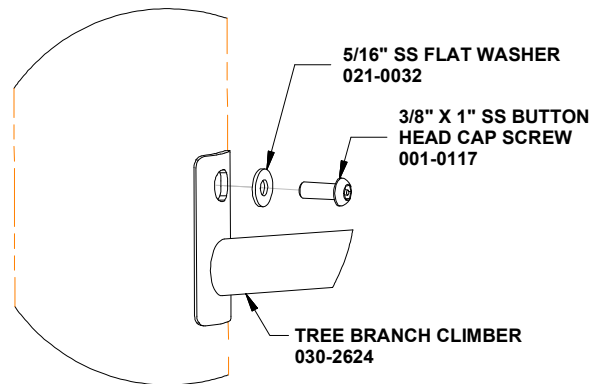
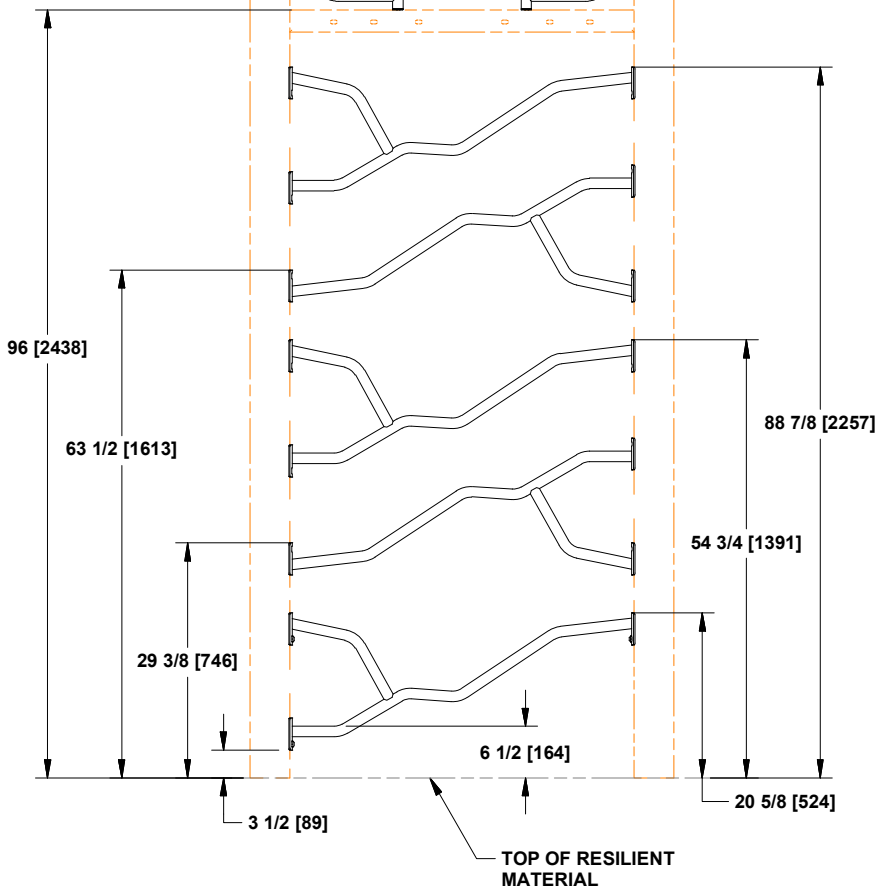
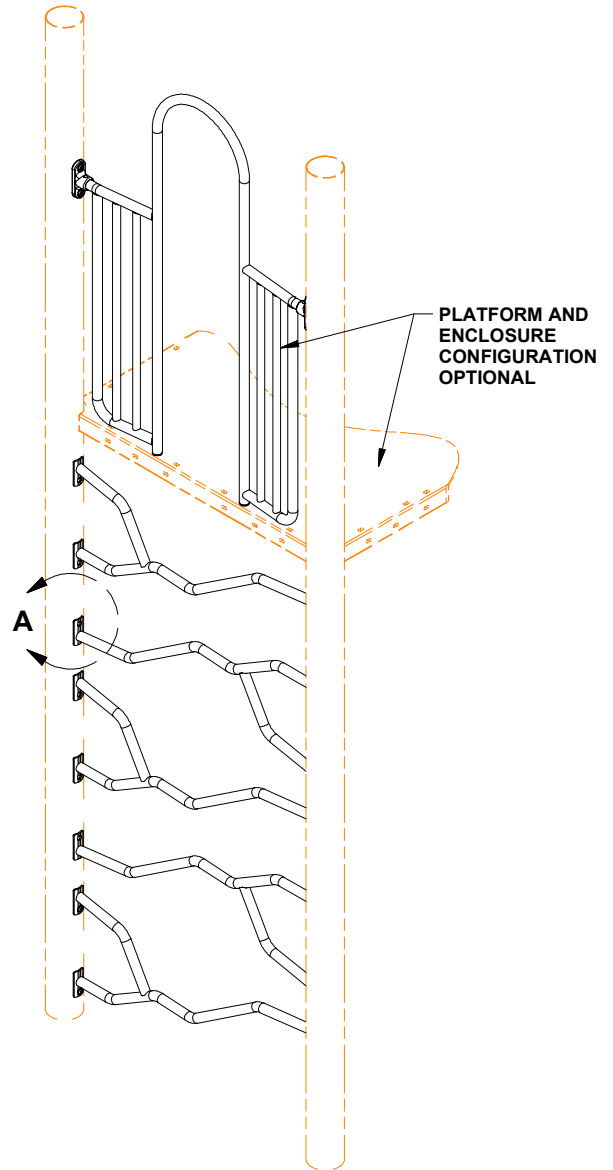
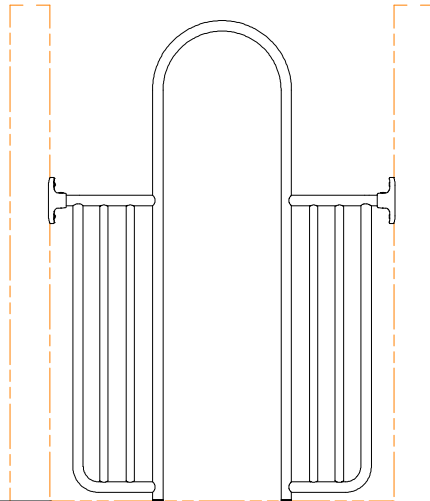
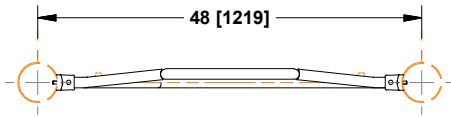
NOTE: PVC coating may need to be removed from mounting holes on platform before installing.

NOTE: Do not tighten hardware until instructed to do so.

1. Press the RODS, 3/4" OD X 3.530" W/3/8-16 into the holes in the TRIANGLE CLIMB THROUGH as shown in TOP CORNER BRACKET VIEW. Press in until flush.
2. Install the BRACKET, TRIANGLE PANEL, OFFSET onto the TRIANGLE CLIMB THROUGH using the hardware shown in TOP CORNER BRACKET VIEW. Reference TRIANGLE BRACKET VIEW for bracket orientation.
3. Install the BRACKET, TRIANGLE PANEL, U onto the TRIANGLE CLIMB THROUGH using the hardware shown in BOTTOM CORNER BRACKET VIEW. Reference TRIANGLE BRACKET VIEW for bracket orientation.
4. Tighten all hardware.
5. Attach INTENSITY ARCH #11 to the posts using the hardware shown in ARCH/HANDLE TO POST VIEW. Tighten all hardware.
6. Attach the ROPE SUPPORT BEAM, 1-SIDED to posts using the hardware shown in SUPPORT BEAM TO POST VIEW. Tighten all hardware.
7. Attach the GRAB BARS to posts using the hardware shown in ARCH/HANDLE TO POST VIEW. Tighten all hardware.
8. Attach ROPE ASSEMBLY, 14 1/4" DOUBLE CLEVIS and ROPE ASSEMBLY, 17 5/8" DOUBLE CLEVIS to the OFFSET TRIANGLE BRACKETS using the hardware shown in ROPE CONNECTION VIEW and side view on front page.
9. Attach the rope and triangle assemblies to the tabs on the INTENSITY ARCH using the hardware shown in ROPE CONNECTION VIEW.
10. Tighten all hardware.
11. Attach ROPE ASSEMBLY, TRIGON ARCH to the TRIANGLE U BRACKETS using the hardware shown in LOWER ROPE CONNECTION VIEW.
12. Attach ROPE ASSEMBLY, TRIGON ARCH to ROPE SUPPORT BEAM, 1-SIDED using hardware shown in SUPPORT BEAM ROPE ATTACHMENT VIEW.
13. Fasten GALVANIZED 4/0 CHAIN 44" to end of rope assembly using hardware shown in DETAIL A. Tighten hardware.
14. Fasten chain to ANCHOR TUBE using hardware specified in DETAIL B. Tighten hardware.

NOTES:

- A. See DETAIL C and dimensions to determine anchor tube attachment point for loose fill and unitary rubber surface.
 - B. Make sure rope ends and chain are pulled taut with no slack. Failure to adjust this properly may cause premature wear of the rope.
 - C. Make sure connection point between rope end and chain is above top level of resilient to allow proper movement. Failure to adjust this properly may cause premature wear of the rope.
 - D. Chains may need re-adjustment during routine maintenance checks.
15. Tighten all hardware.
 16. Block up and plumb entire structure.
 17. Pour Concrete. Allow concrete to set for 2-3 days.
 18. Install resilient surfacing material in accordance with installation guidelines, ASTM standards and CPSC guidelines.



DETAIL A
(15 PLACES)

370-0870 TREE BRANCH CLIMBER 96"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-2624	TREE BRANCH CLIMBER	5
036-0040	HARDWARE PACKAGE	5

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TREE BRANCH CLIMBER: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, and 7 GA stainless steel sheet. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless Steel.

SHIPPING WEIGHT: 41 LBS.

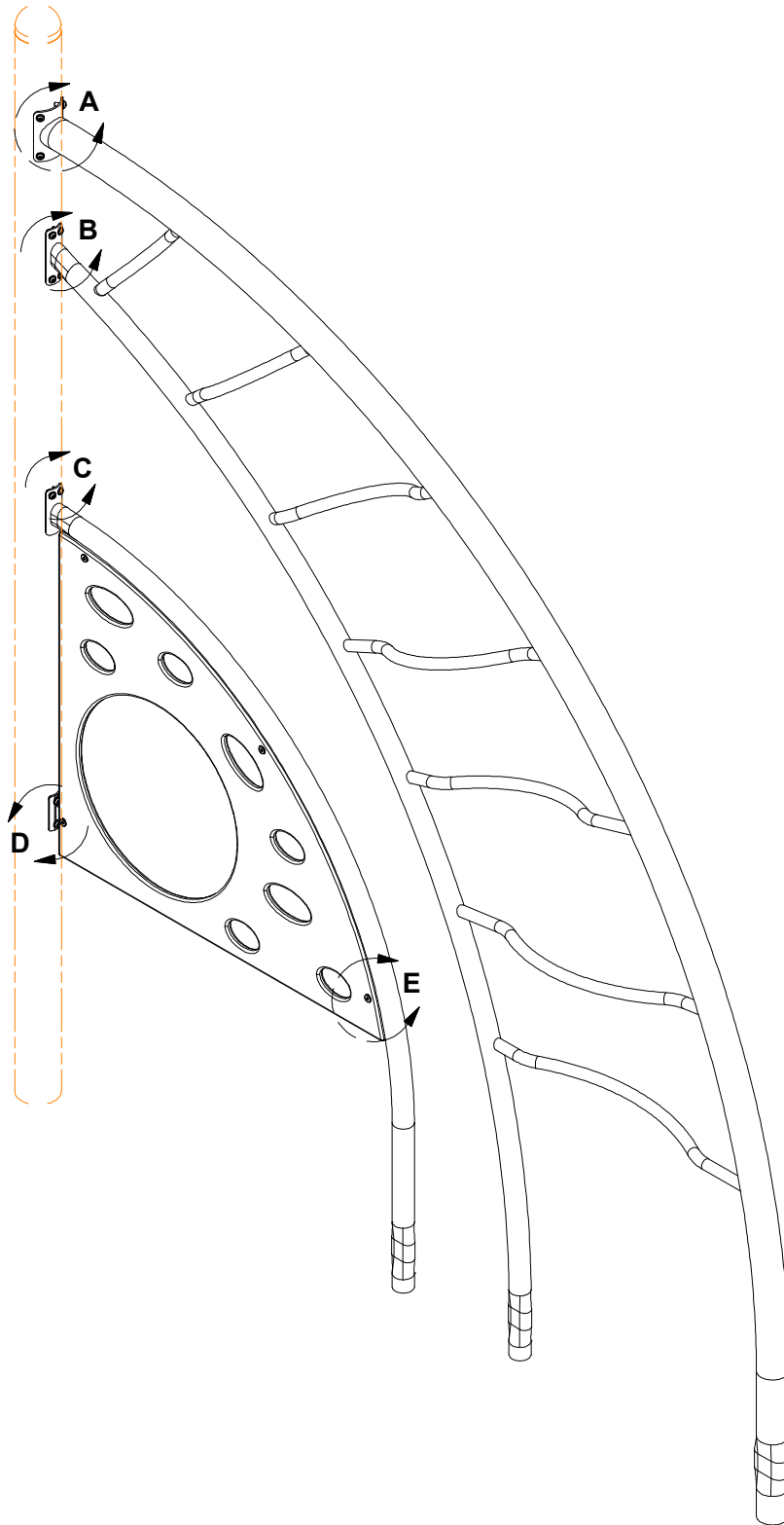
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

1. Locate correct post to assemble climber to, from site plan.
2. Attach climber to post using hardware specified in DETAIL A. Repeat for remaining climbers.
3. Tighten all hardware.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



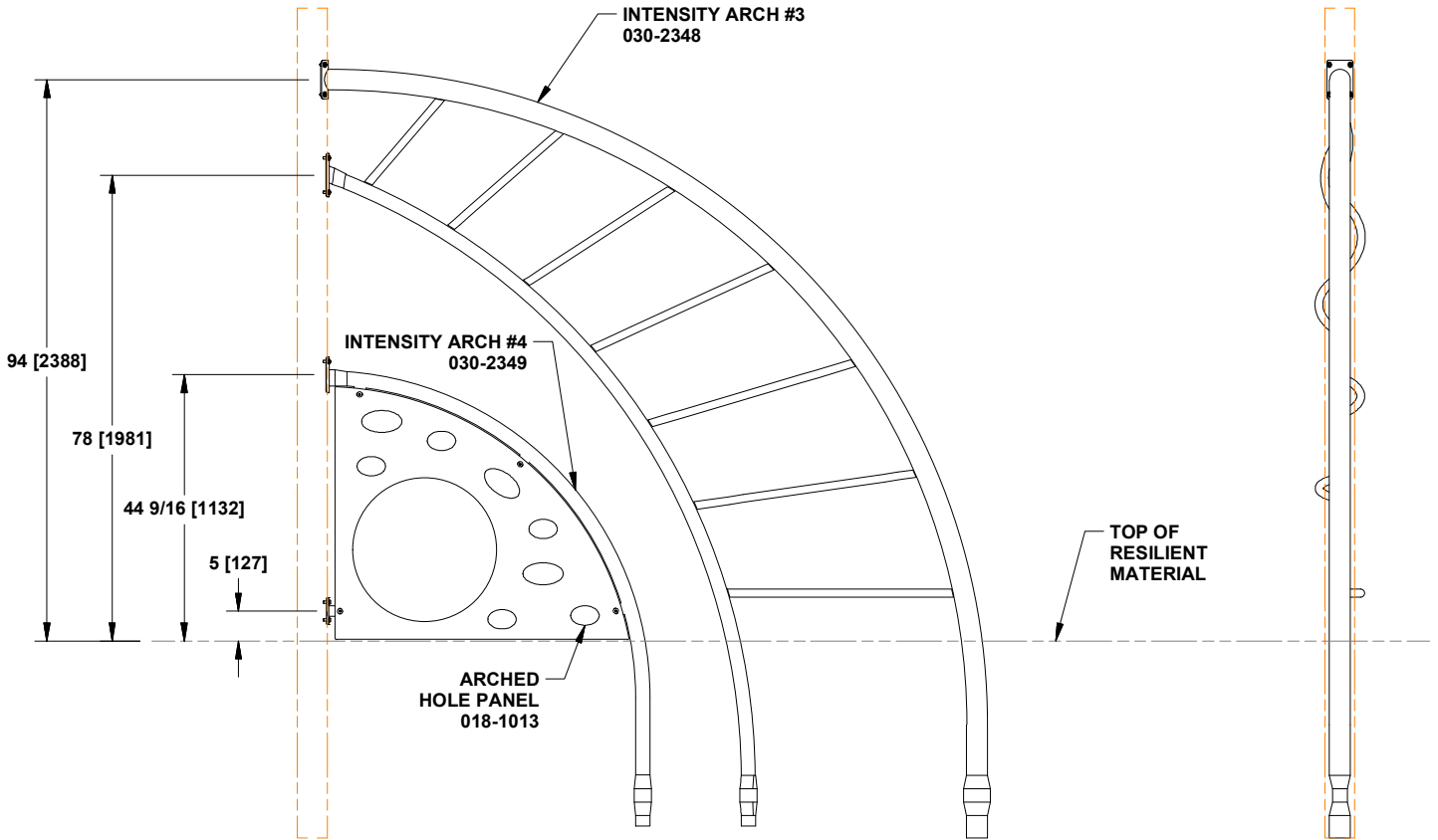
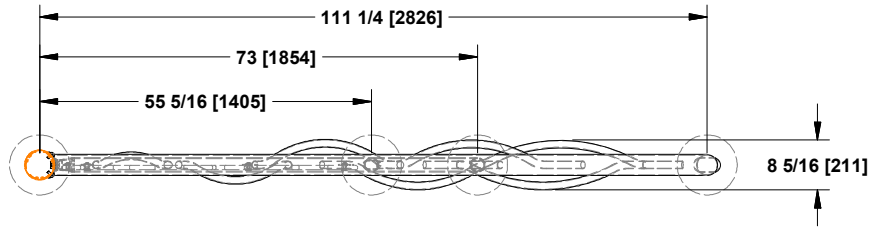
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



370-1584 APEX WAVE CLIMBER



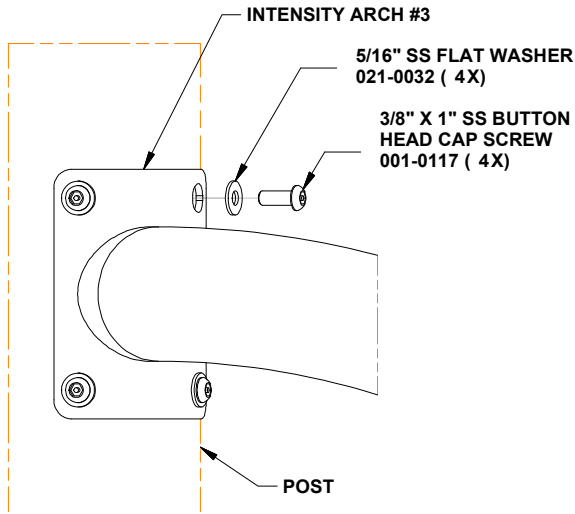
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



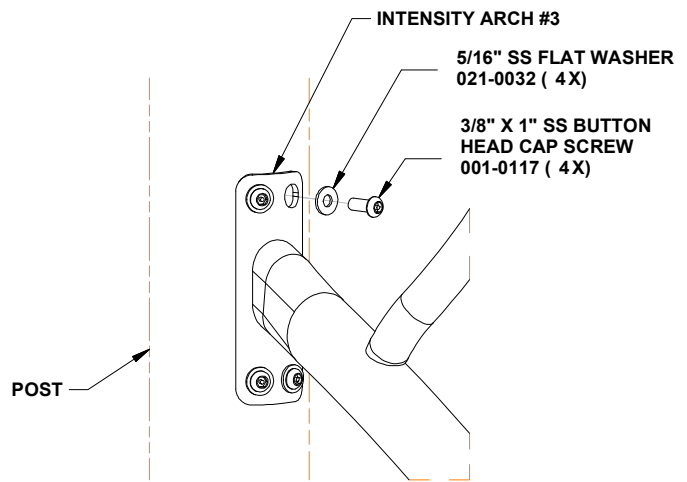
370-1584 APEX WAVE CLIMBER



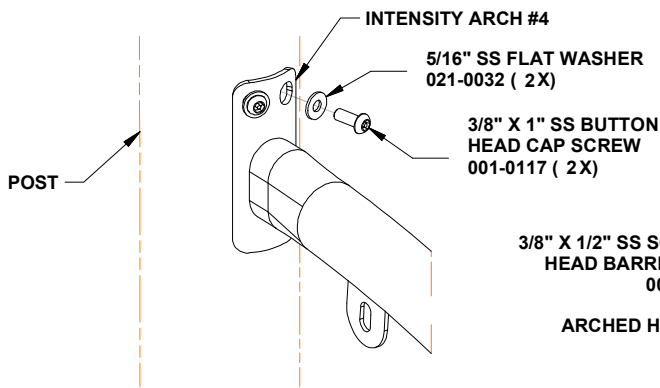
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



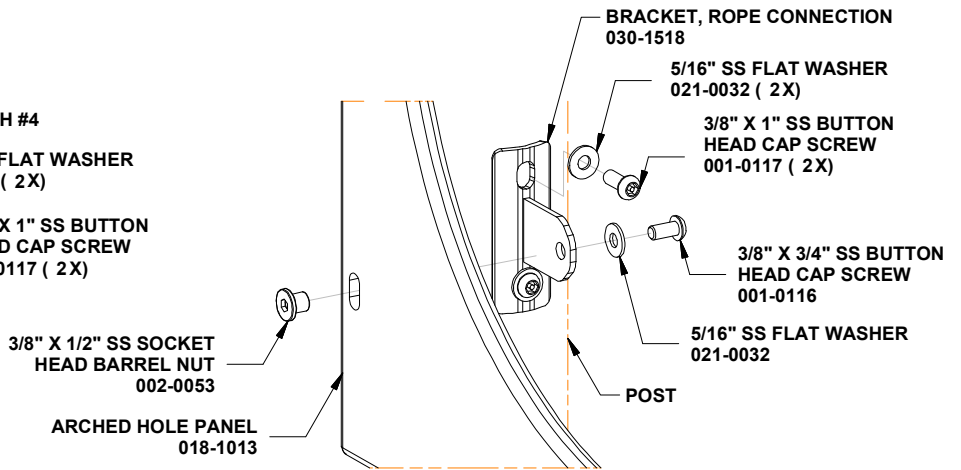
DETAIL A



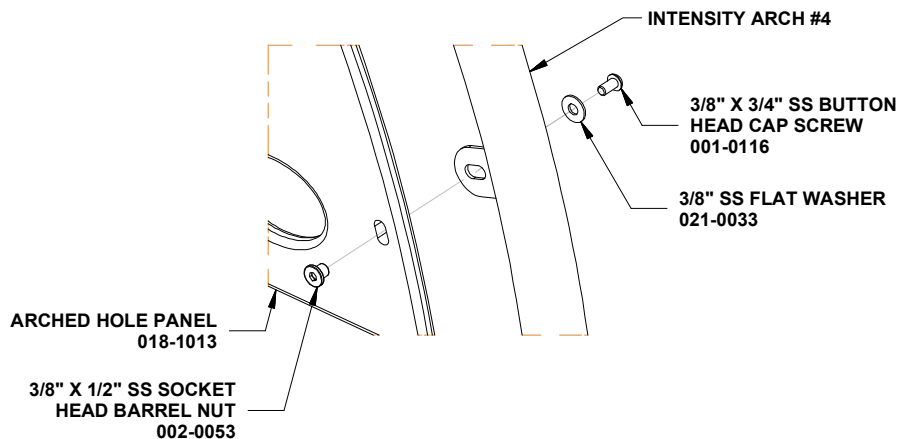
DETAIL B



DETAIL C



DETAIL D



DETAIL E
(3 PLACES)

370-1584 APEX WAVE CLIMBER

PARTS LIST

PART NO.	DESCRIPTION	QTY
018-1013	ARCHED HOLE PANEL	1
030-1518	BRACKET, ROPE CONNECTION	1
030-2348	INTENSITY ARCH #3	1
030-2349	INTENSITY ARCH #4	1
036-1412	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

ARCHED HOLE PANEL: 3/4" extruded HDPE.

BRACKET, ROPE CONNECTION: One piece all welded construction consisting of a formed 3/16" stainless steel plate and a 8 GA galvanized steel sheet. Finished with a baked on powder coating.

INTENSITY ARCH #3: One piece all welded construction consisting of formed 3 1/2" x 11 GA & 2 3/8" OD x 10 GA galvanized steel tubing, formed 7 GA stainless steel plates, and formed 1.315" x 12 GA galvanized steel tubes. Finished with a baked on powder coating.

INTENSITY ARCH #4: One piece all welded construction consisting of formed 2 3/8" OD x 10 GA galvanized steel tubing, formed 7 GA stainless steel plate, and 10 GA galvanized steel plates. Finished with a baked on powder coating.

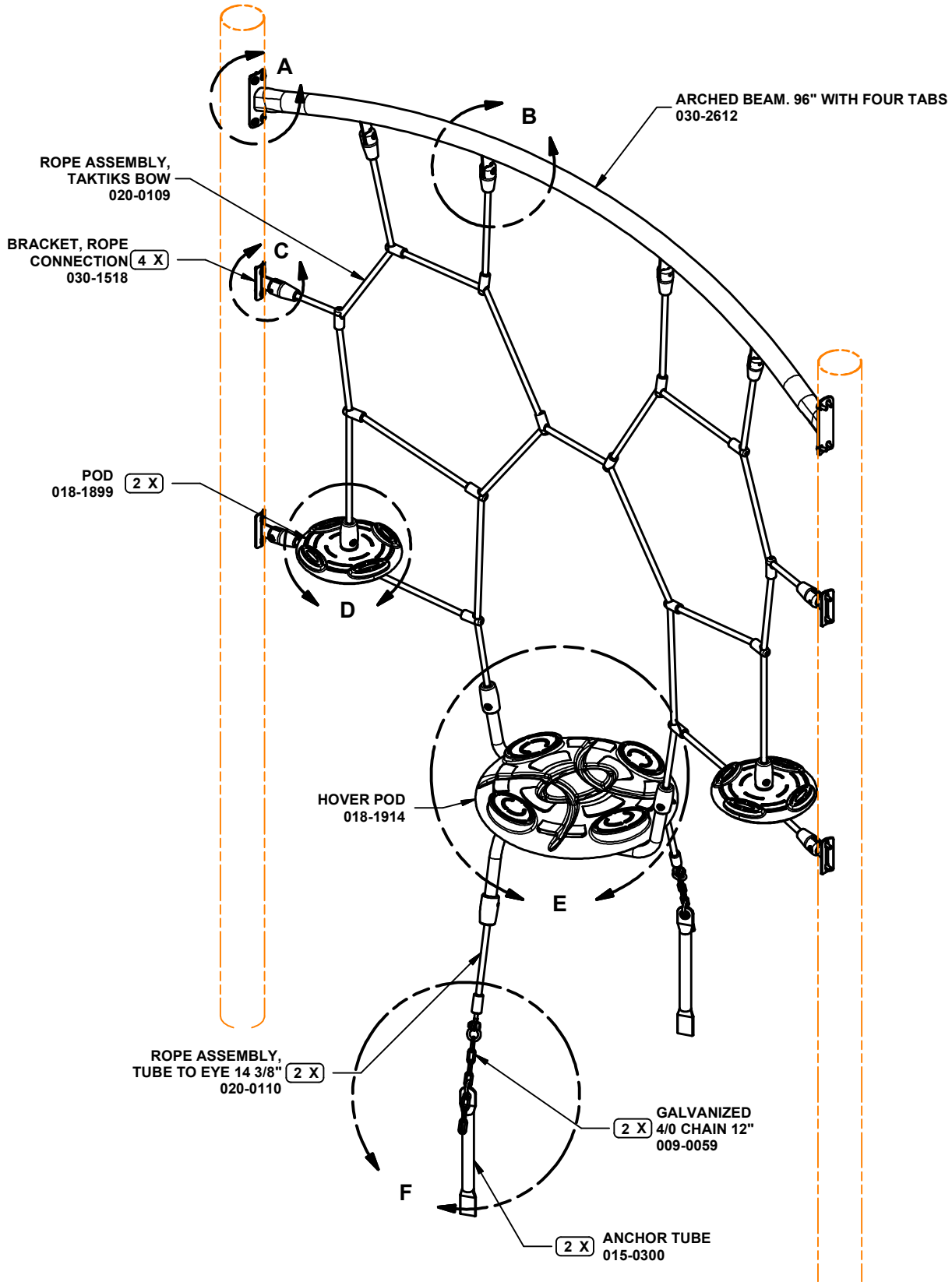
HARDWARE PACKAGE: Stainless steel and zinc plated steel.

SHIPPING WEIGHT: 184 LBS.

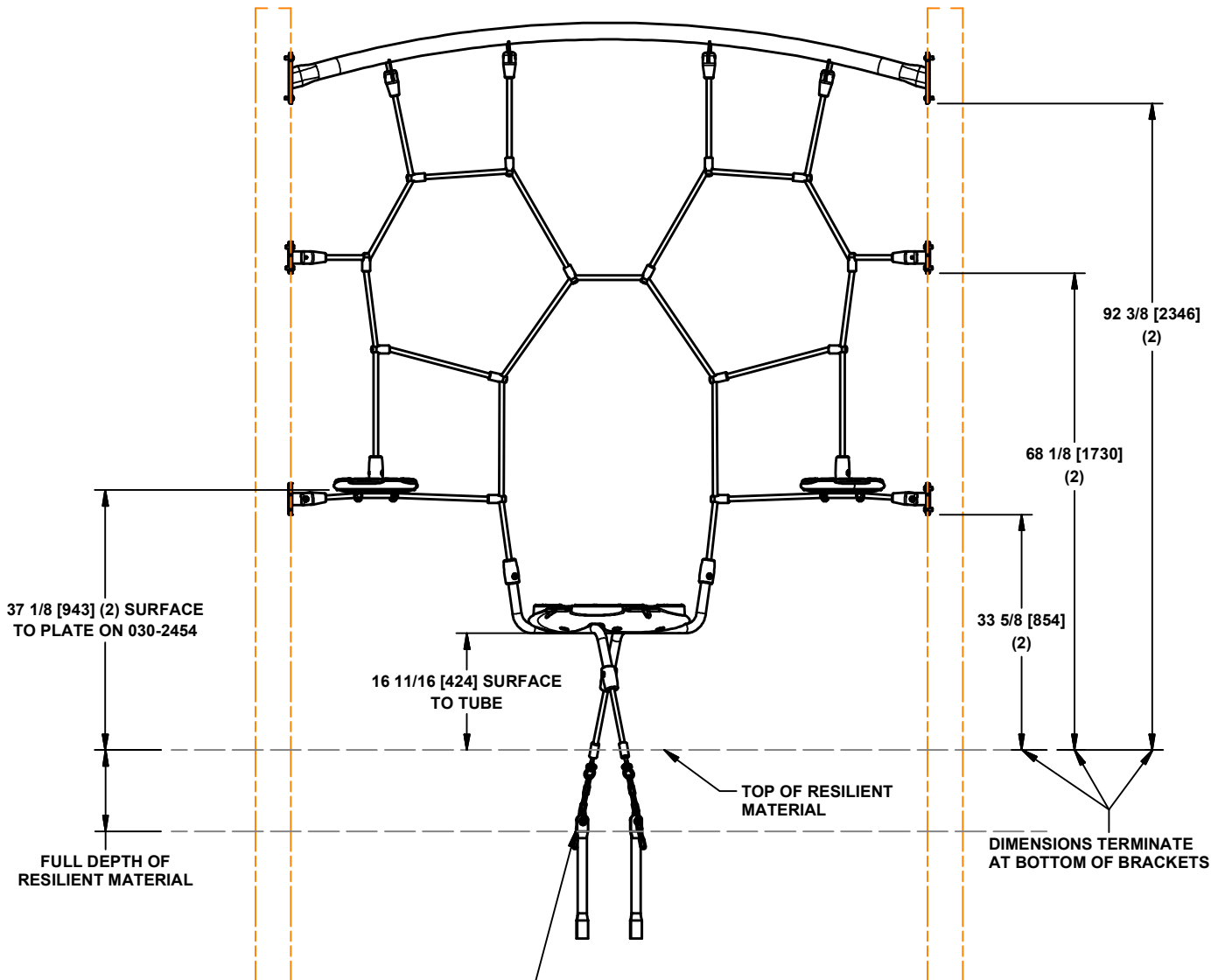
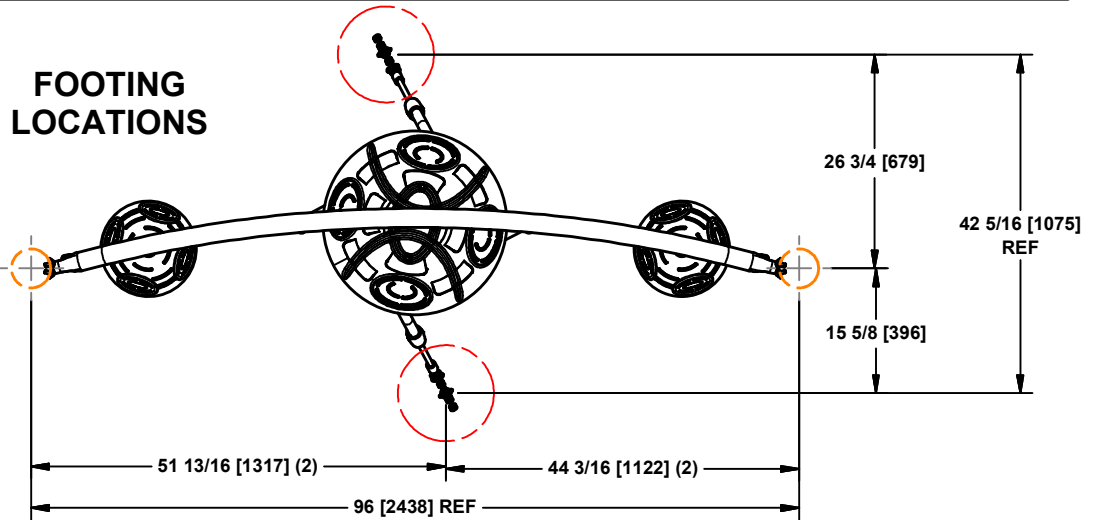
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

1. Locate and dig footing holes as per dimensions shown. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach INTENSITY ARCH #3 to post using hardware specified in DETAIL A and DETAIL B.
3. Attach INTENSITY ARCH #4 to post using hardware specified in DETAIL C.
4. Attach BRACKET, ROPE CONNECTION to post using hardware specified in DETAIL D.
5. Attach ARCHED HOLE PANEL to arch and bracket using hardware specified in DETAIL D and DETAIL E.
6. Tighten all hardware.
7. Pour concrete. Let set for two to three days.
8. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

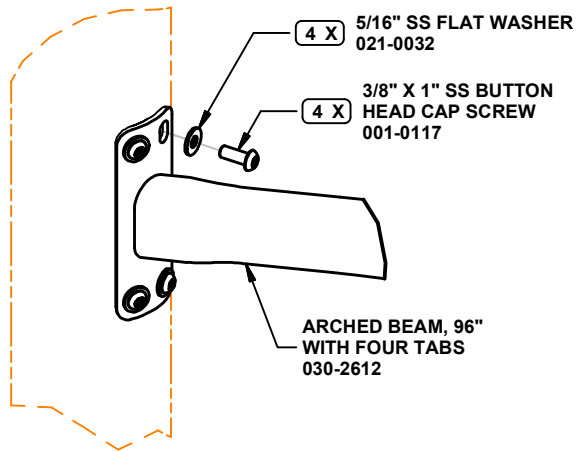


370-1620 TAKTIKS BOW CLIMBER

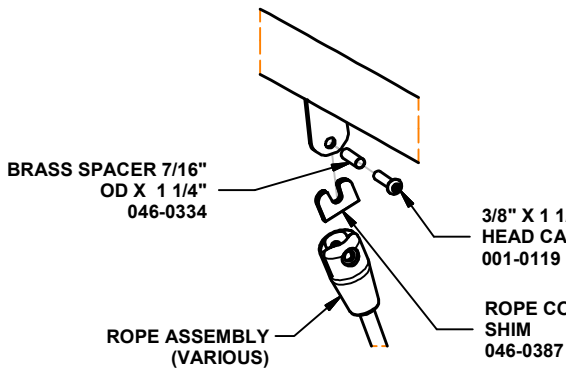
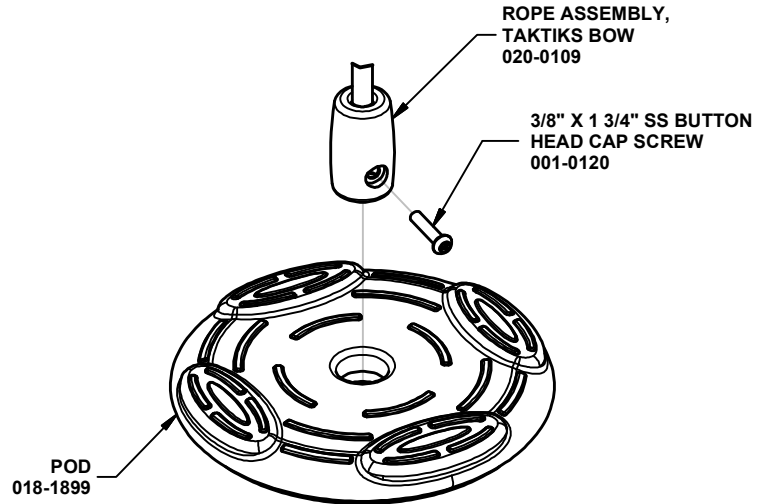


MAKE SURE ATTACHMENT POINT OF ANCHOR TUBE IS INSTALLED BELOW FULL DEPTH OF RESILIENT MATERIAL BUT ABOVE CONCRETE FOR POSSIBLE SERVICE TO CHAIN.

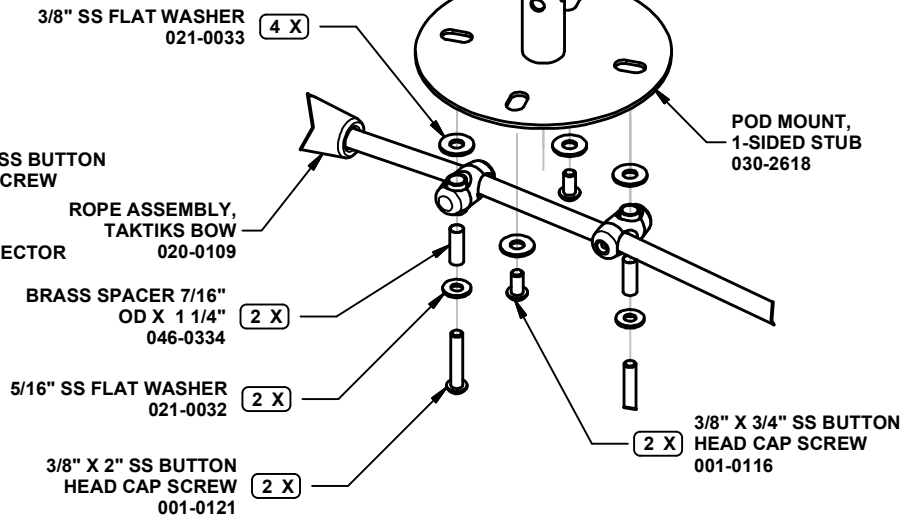
370-1620 TAKTIKS BOW CLIMBER



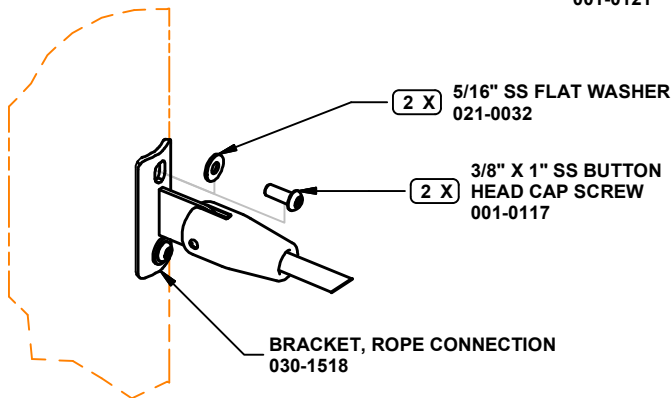
**DETAIL A
(2 PLACES)**



**DETAIL B
(8 PLACES)**

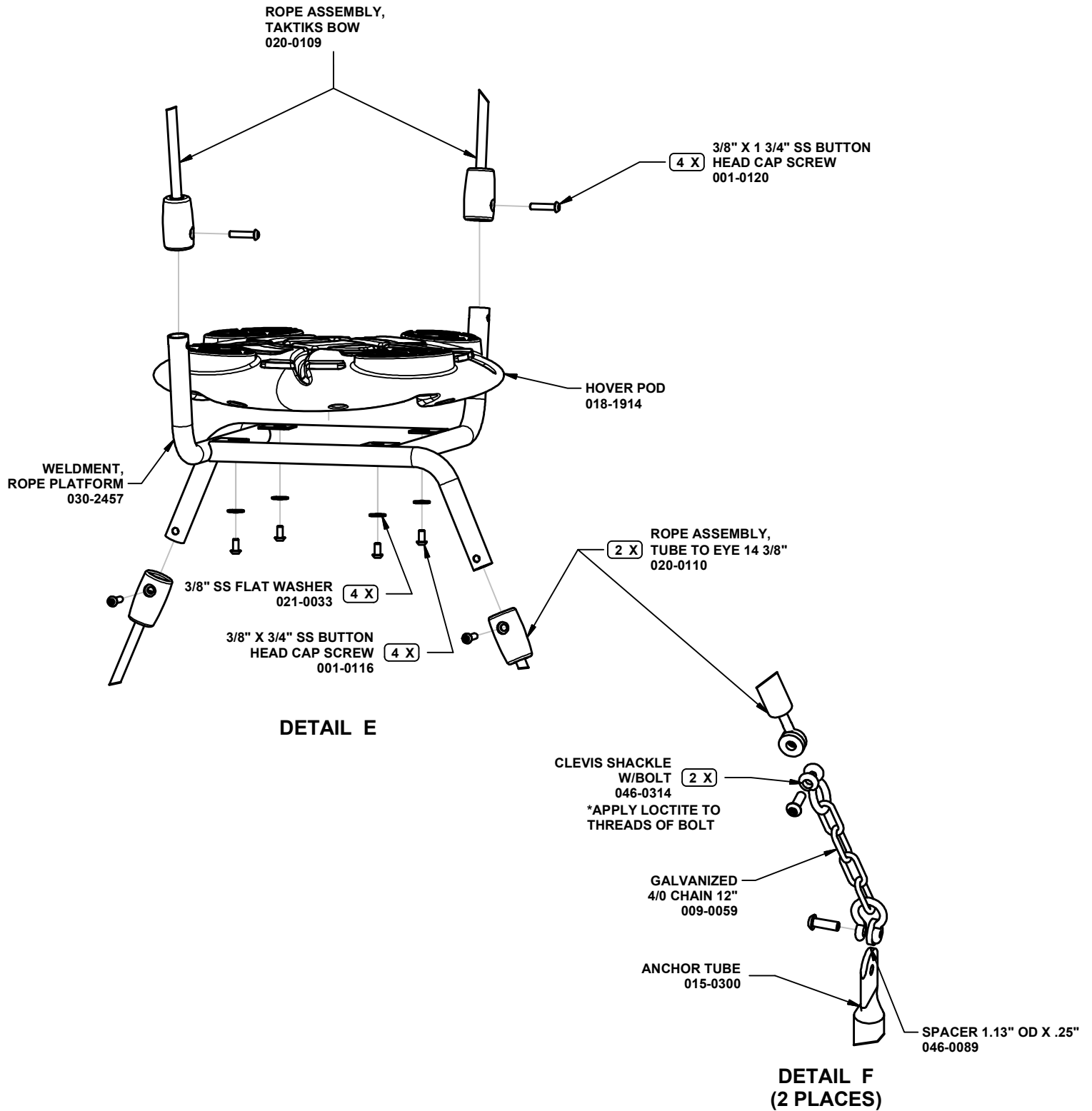


**DETAIL D
(2 PLACES)**



**DETAIL C
(4 PLACES)**

370-1620 TAKTIKS BOW CLIMBER



370-1620 TAKTIKS BOW CLIMBER

PARTS LIST

PART NO.	DESCRIPTION	QTY
009-0059	GALVANIZED 4/0 CHAIN 12"	2
015-0300	ANCHOR TUBE	2
018-1899	POD	2
018-1914	HOVER POD	1
020-0109	ROPE ASSEMBLY, TAKTIKS BOW	1
020-0110	ROPE ASSEMBLY, TUBE TO EYE 14 3/8"	2
030-1518	BRACKET, ROPE CONNECTION	4
030-2457	WELDMENT, ROPE PLATFORM	1
030-2612	ARCHED BEAM, 96" WITH FOUR TABS	1
030-2618	POD MOUNT, 1-SIDED STUB	2
036-0788	HARDWARE PACKAGE	2
036-0893	HARDWARE PACKAGE	1
046-0089	SPACER 1.13" OD X .25"	4
046-0291	LOCTITE	1
046-0334	BRASS SPACER 7/16" OD X 1 1/4"	12

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED 4/0 CHAIN 12": Galvanized 4/0 straight coil chain.

ANCHOR TUBE: 1.315" OD x 12 GA galvanized steel tubing.

POD; HOVER POD: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction.

ROPE ASSEMBLY, TAKTIKS BOW; ROPE ASSEMBLY, TUBE TO EYE 14 3/8": Rope consists of 6 right hand, regular lay strands, closed around a synthetic fiber core, with each preformed strand consisting of 8 galvanized steel wires tightly covered with polyester fibers. Aluminum end connectors and ferrules.

BRACKET, ROPE CONNECTION: One piece all welded construction consisting of a formed 3/16" stainless steel plate and a 8 GA galvanized steel sheet. Finished with a baked on powder coating.

WELDMENT, ROPE PLATFORM: One piece all welded construction consisting of formed 1.315" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

ARCHED BEAM, 96" WITH FOUR TABS: One piece all welded construction consisting of formed 2 3/8" OD x 10 GA galvanized steel tubing, 7 GA stainless steel sheet and 8 GA galvanized steel plate. Finished with a baked on powder coating.

POD MOUNT, 1-SIDED STUB: One piece all welded construction consisting of formed 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized steel sheet. Finished with a baked on powder coating.

HARDWARE PACKAGE: 5/16" Shackle with a 3/8" X 1 5/32" bolt.

HARDWARE PACKAGE: Stainless steel and black thermoplastic.

SPACER 1.13" OD X .25": 1/4" Nylatron GS.

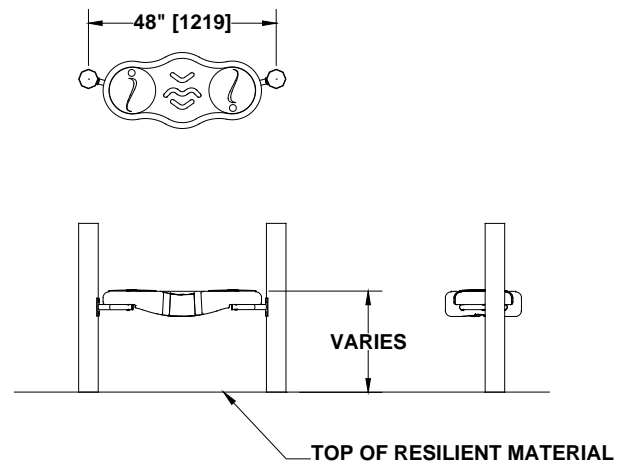
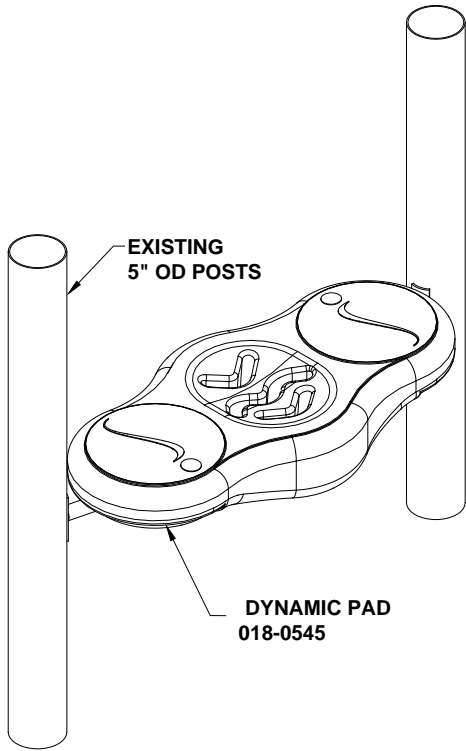
LOCTITE: Thread Locker; **CAUTION**: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

BRASS SPACER 7/16" OD X 1 1/4": Brass Tube 7/16" OD X .028" Wall

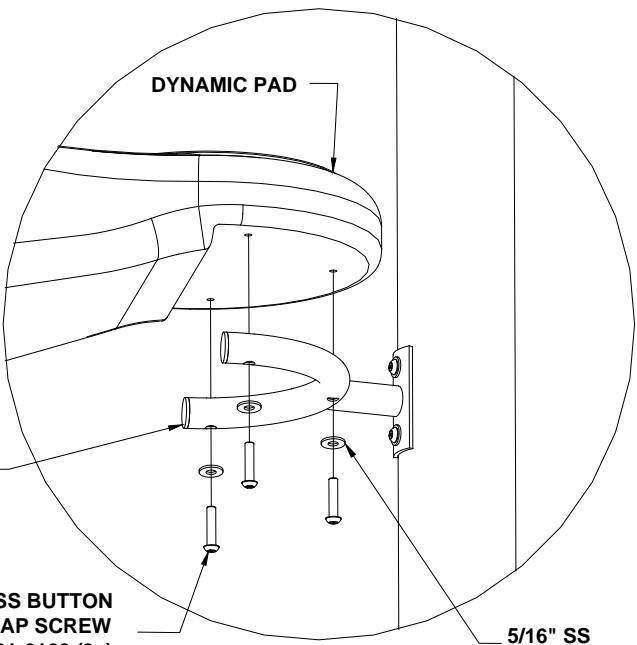
SHIPPING WEIGHT: 79 LBS.

INSTALLATION INSTRUCTIONS

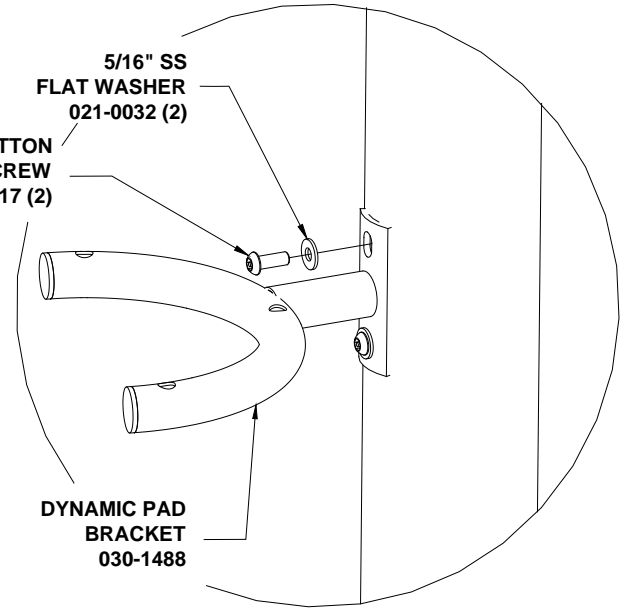
1. Locate footing holes per dimensions shown in FOOTING LOCATIONS view and dig per dimensions given in TYPICAL CONCRETE FOOTINGS for 2 3/8" OD tubes or smaller, which is located in the preface of your installation manual.
2. Attach ARCHED BEAM, 96" WITH FOUR TABS to posts using hardware shown in DETAIL A.
3. Attach (4) BRACKET, ROPE CONNECTION to posts using hardware specified in DETAIL C.
4. Attach ROPE ASSEMBLY, TAKTIKS BOW to beam and brackets using hardware specified in DETAIL B.
5. Assemble (2) POD MOUNT, 1-SIDED STUB and (2) POD using hardware specified in DETAIL D.
6. Attach (2) pod assembly to taktiks bow rope assembly using hardware specified in DETAIL D.
7. Assemble WELDMENT, ROPE PLATFORM and HOVER POD using hardware specified in DETAIL E.
8. Attach hover pod assembly to Taktiks Bow rope assembly using hardware specified in DETAIL E.
9. Connect (2) ROPE ASSEMBLY, TUBE TO EYE 14 3/8" to hover pod assembly using hardware specified in DETAIL E.
10. Assemble (2) GALVANIZED 4/0 CHAIN 12", (2) ANCHOR TUBE, and (2) tube to ropes with eye bolts using hardware specified in DETAIL F. NOTE: Apply Loctite to clevis bolts.
11. Place anchor tube into footings. Pour concrete. Let set for two to three days.
12. **MAKES SURE ROPES ARE TAUT.** If some are not taut, remove bolts from anchor tubes and refasten bolt through the next higher link.
13. **Install resilient material in accordance to installation guidelines, ASTM standards, and CPSC guidelines.**



ELEVATION VIEW



**DETAIL B
(2 PLACES)**



**DETAIL A
(2 PLACES)**

**470-0101
DYNAMIC PAD**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-0545	DYNAMIC PAD	1
030-1488	BRACKET, DYNAMIC PAD	2
036-1425	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

DYNAMIC PAD: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts and a textured surface.

BRACKET, DYNAMIC PAD: One piece all welded construction consisting of 10 GA galvanized sheet steel, 7 GA stainless steel sheet and formed 1.315" OD x 14 GA galvanized steel tubing. Finished with a baked on powder coating.

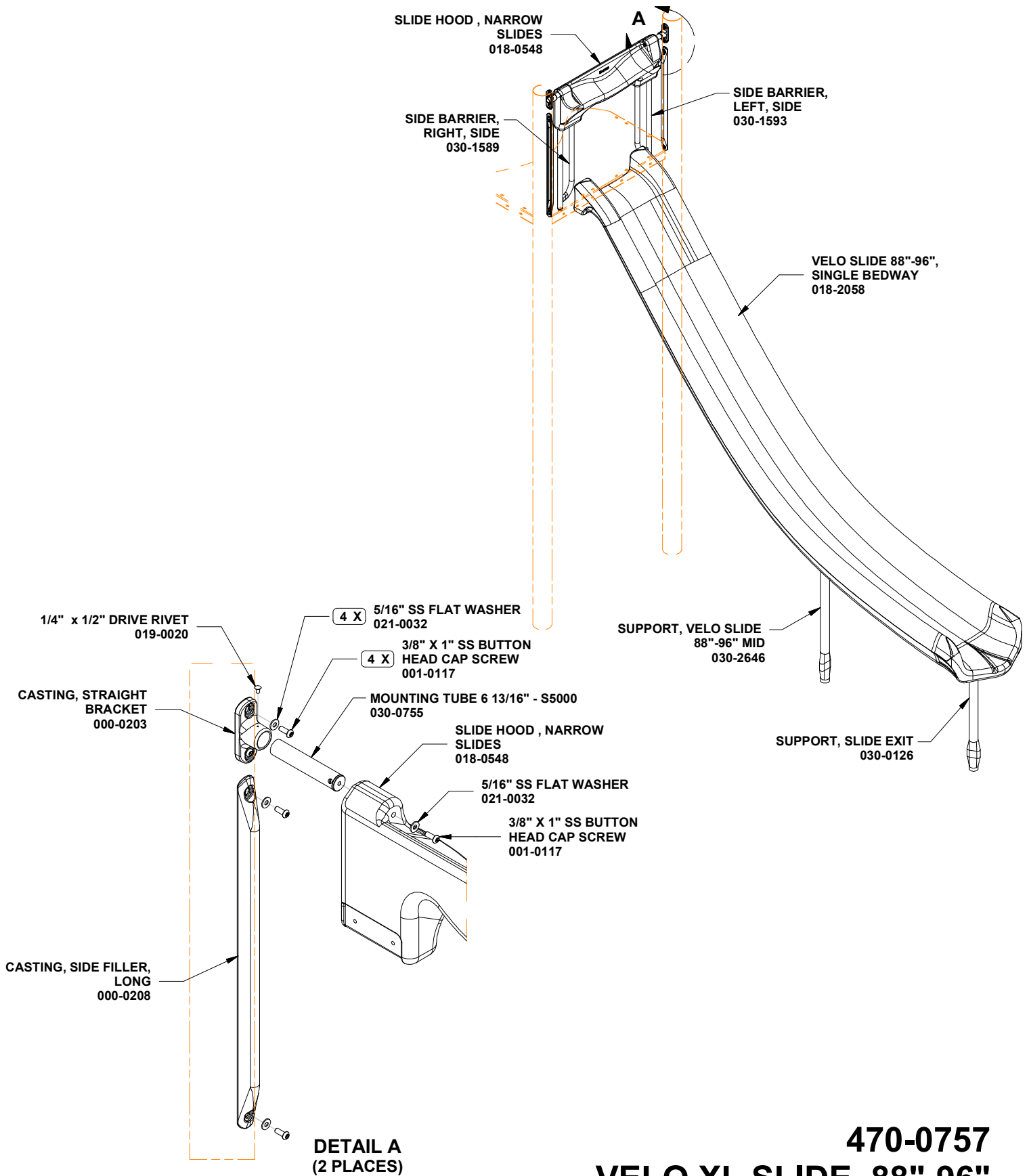
HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 27 LBS.

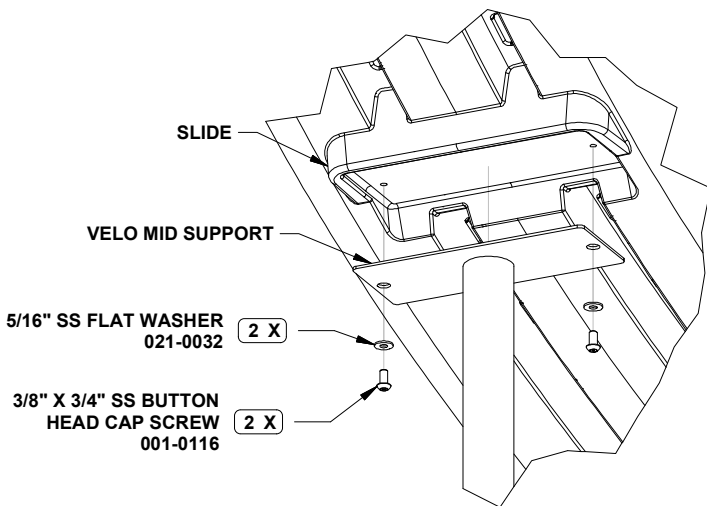
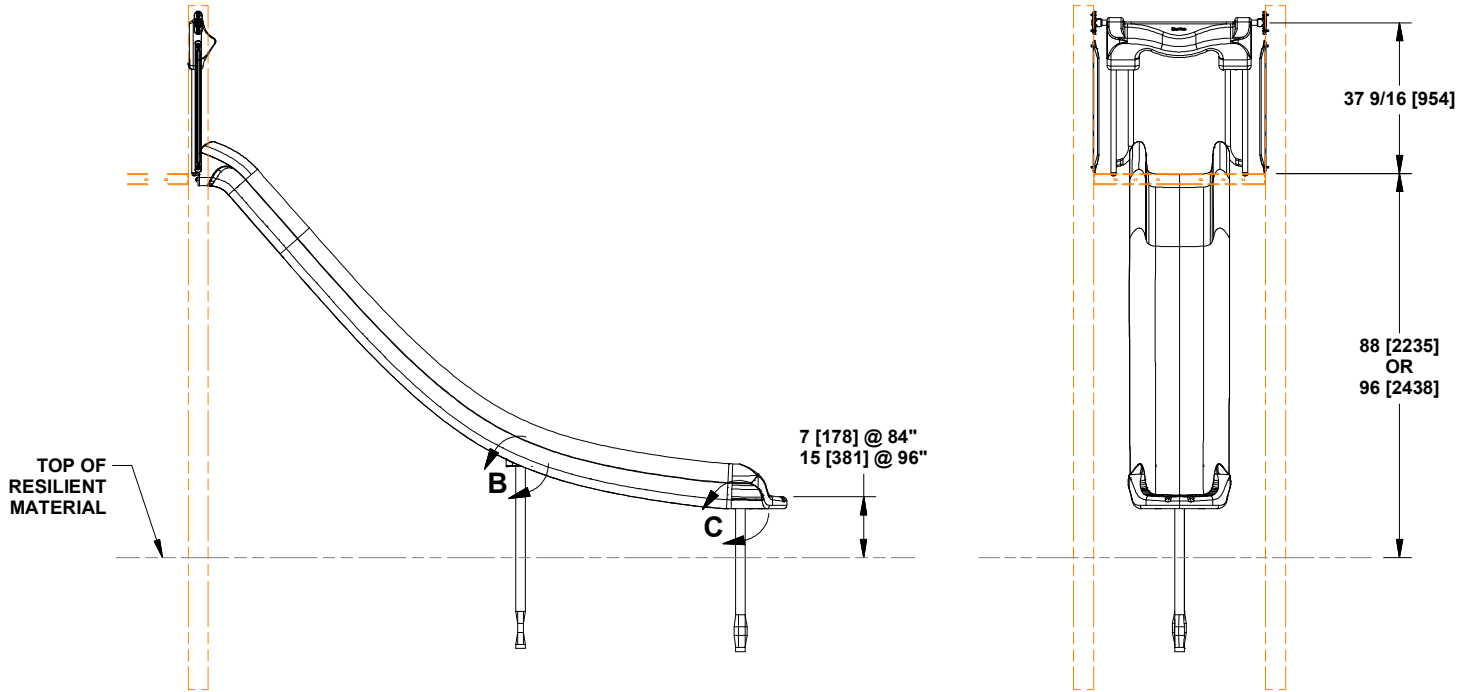
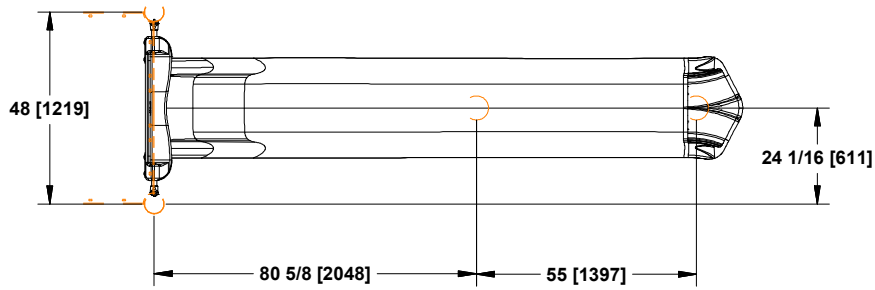
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

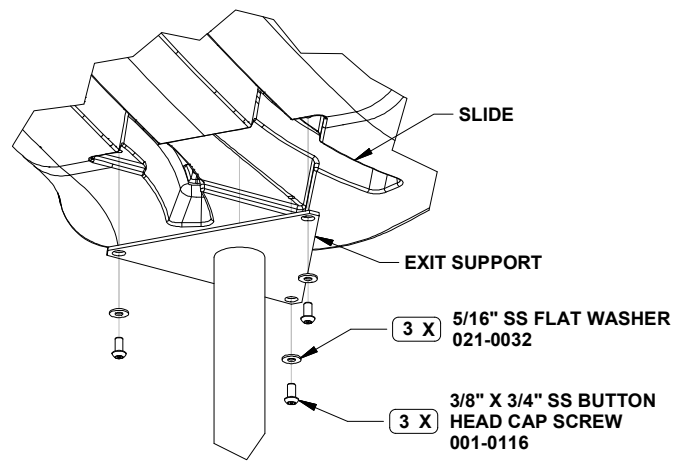
1. Attach DYNAMIC PAD to DYNAMIC PAD BRACKET using 3/8" X 1 3/4" SS button head cap screws and 5/16" SS flat washers. See DETAIL B.
2. Attach DYNAMIC PAD BRACKETS to 5" posts using 3/8" X 1" SS button head cap screws and 5/16" SS flat washers. See DETAIL A.
4. Block-up and level.
5. Tighten all hardware.
6. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



470-0757
VELO XL SLIDE, 88"-96"

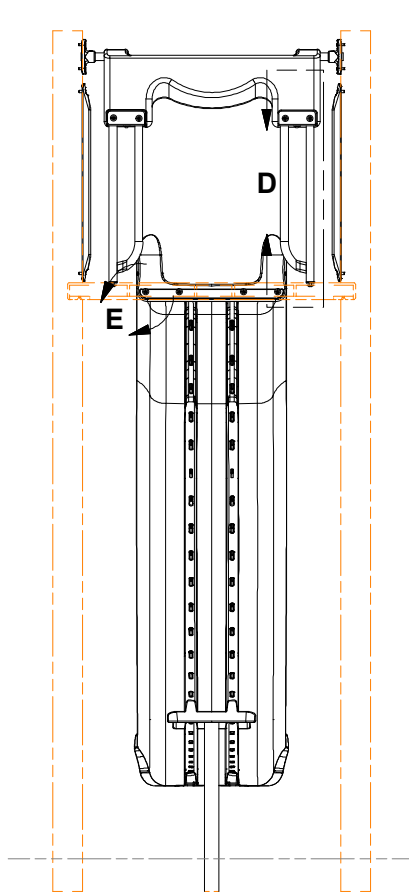


DETAIL B

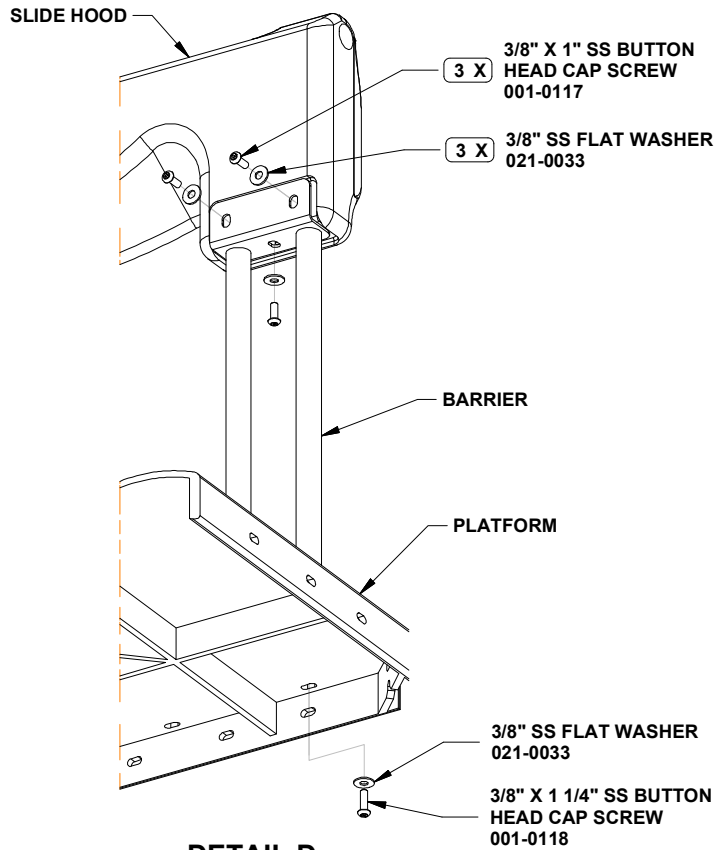


DETAIL C

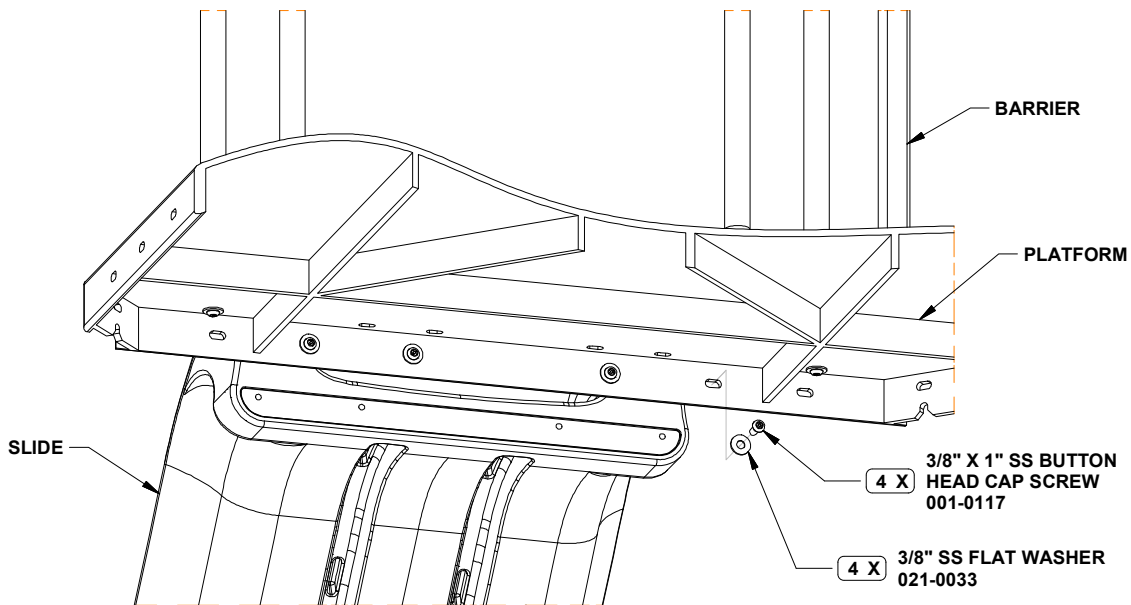
470-0757 VELO XL SLIDE, 88"-96"



BACK VIEW



**DETAIL D
(2 PLACES)**



DETAIL E

470-0757 VELO XL SLIDE, 88"-96"

PARTS LIST

PART NO.	DESCRIPTION	QTY
000-0203	CASTING, STRAIGHT BRACKET	2
000-0208	CASTING, SIDE FILLER, LONG	2
018-0548	SLIDE HOOD , NARROW SLIDES	1
018-2058	VELO SLIDE 88"-96", SINGLE BAY	1
030-0126	SUPPORT, SLIDE EXIT	1
030-0755	MOUNTING TUBE 6 13/16" - S5000	2
030-1589	SIDE BARRIER, RIGHT, SLIDE	1
030-1593	SIDE BARRIER, LEFT, SLIDE	1
030-2646	SUPPORT, VELO SLIDE 88"-96" MID	1
036-1206	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, LONG: A56 Aluminum. Finished with baked on powder coating.

SLIDE HOOD, NARROW SLIDES; SLIDE VELO SLIDE 88"-96", SINGLE BEDWAY: 1/4" thick, linear, low density, rotationally modeled, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SUPPORT, SLIDE EXIT: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and 8 GA galvanized sheet steel. Finished with a baked on powder coating.

MOUNTING TUBE 6 13/16" - S5000: One piece all welded construction consisting of a 1.315" OD x .083" wall galvanized tube and a 12L14 steel threaded insert. Finished with a baked on powder coating.

SIDE BARRIER, RIGHT, SLIDE; SIDE BARRIER, LEFT, SLIDE: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized sheet steel, and HDPE threaded inserts. Finished with a baked on powder coating.

SUPPORT, VELO SLIDE 88"-96" MID: One piece all welded construction consisting of 10 GA galvanized steel plate and 2 3/8" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, washers, lock nuts, barrel nuts, drive rivets. Zinc plated hex head cap screws.

SHIPPING WEIGHT: 169 LBS.

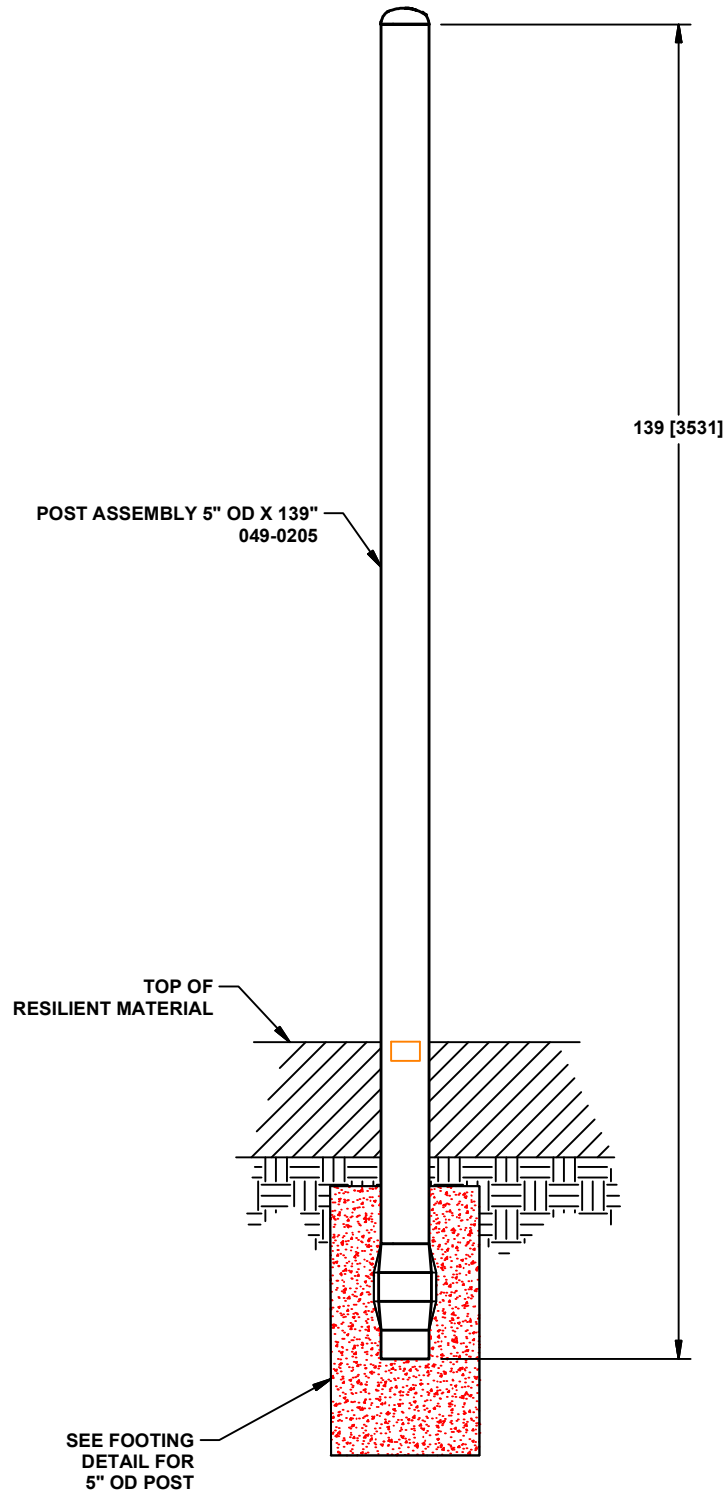
INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. After platform has been installed, locate and dig footing holes as per dimensions shown. See footing detail drawing, which is located in the preface of your installation manual.
2. Attach CASTING, SIDE FILLER, LONG to 5" OD posts using hardware specified in DETAIL A.
3. Attach SUPPORT VELO SLIDE 88"-96" MID. and SUPPORT, SLIDE EXIT to VELO SLIDE 88"-96", SINGLE BEDWAY using hardware specified in DETAIL B and DETAIL C. Tighten fasteners.
4. Position slide into footing holes. Attach slide to platform using hardware specified in DETAIL D. Make sure that the slide is flush and tight to platform.
5. Insert MOUNTING TUBE 6 13/16" - S5000 into SLIDE HOOD, NARROW SLIDES and attach using hardware specified in DETAIL A.
6. Attach SIDE BARRIER, RIGHT, SLIDE and SIDE BARRIER, LEFT, SLIDE to SLIDE HOOD, NARROW SLIDES using hardware specified in DETAIL D.
7. Slide CASTING, STRAIGHT BRACKET onto MOUNTING TUBE 6 13/16" - S5000 and attach to 5" OD posts using hardware specified in DETAIL A.
8. Attach side barriers to platform using hardware specified in DETAIL D.
9. Tighten all hardware.
10. Block-up, level and plumb.
11. Pour concrete. Let set for 2-3 days.
- 12. Install resilient material in accordance to installation guidelines, ASTM standards, and CPSC guidelines.**

470-0757 VELO XL SLIDE, 88"-96"
REV: 00 PCN: 17-0350 7/9/2018



670-0166 POST ASSEMBLY 5" OD X 139"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0205	POST ASSEMBLY 5" OD X 139"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

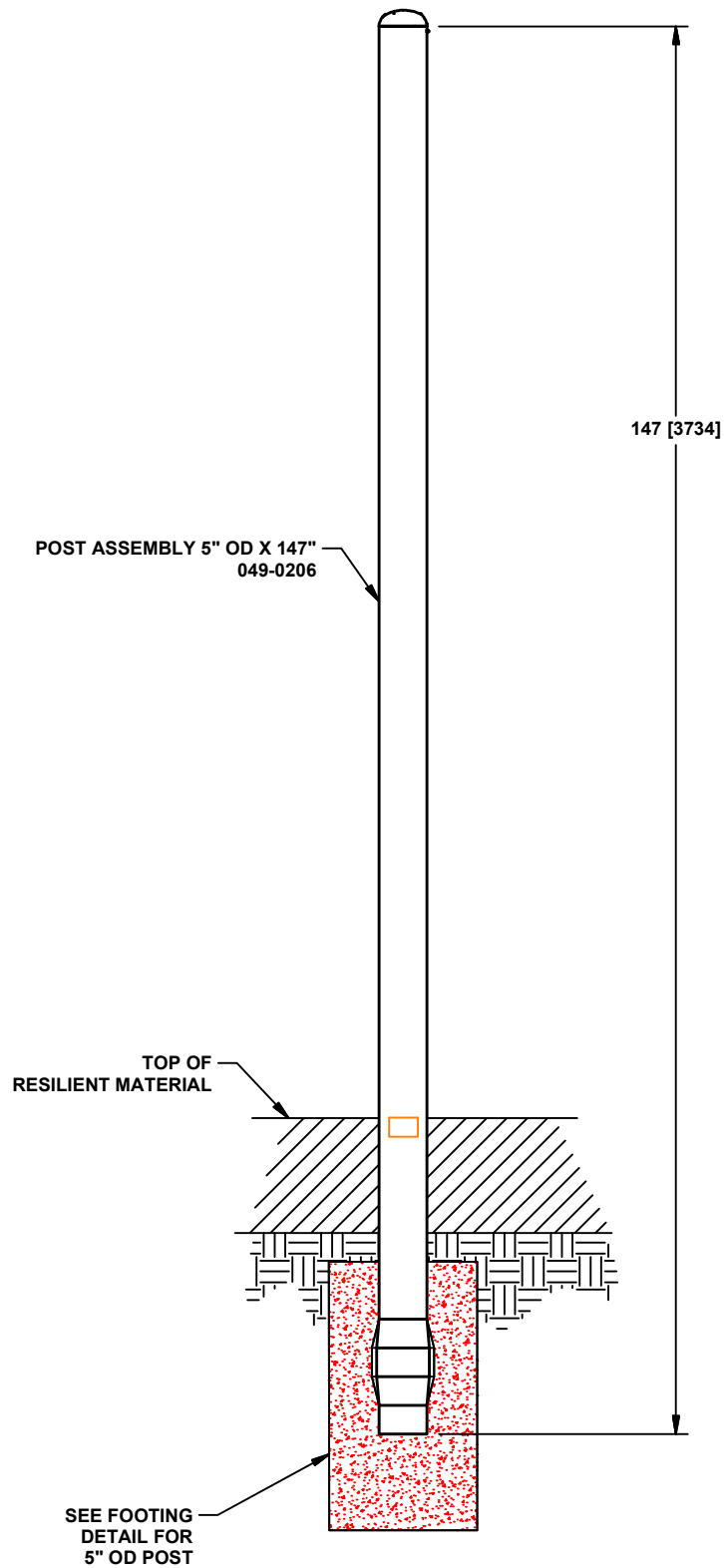
SPECIFICATIONS

POST ASSEMBLY 5" OD X 139": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 74 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0167 POST ASSEMBLY 5" OD X 147"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
049-0206	POST ASSEMBLY 5" OD X 147"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

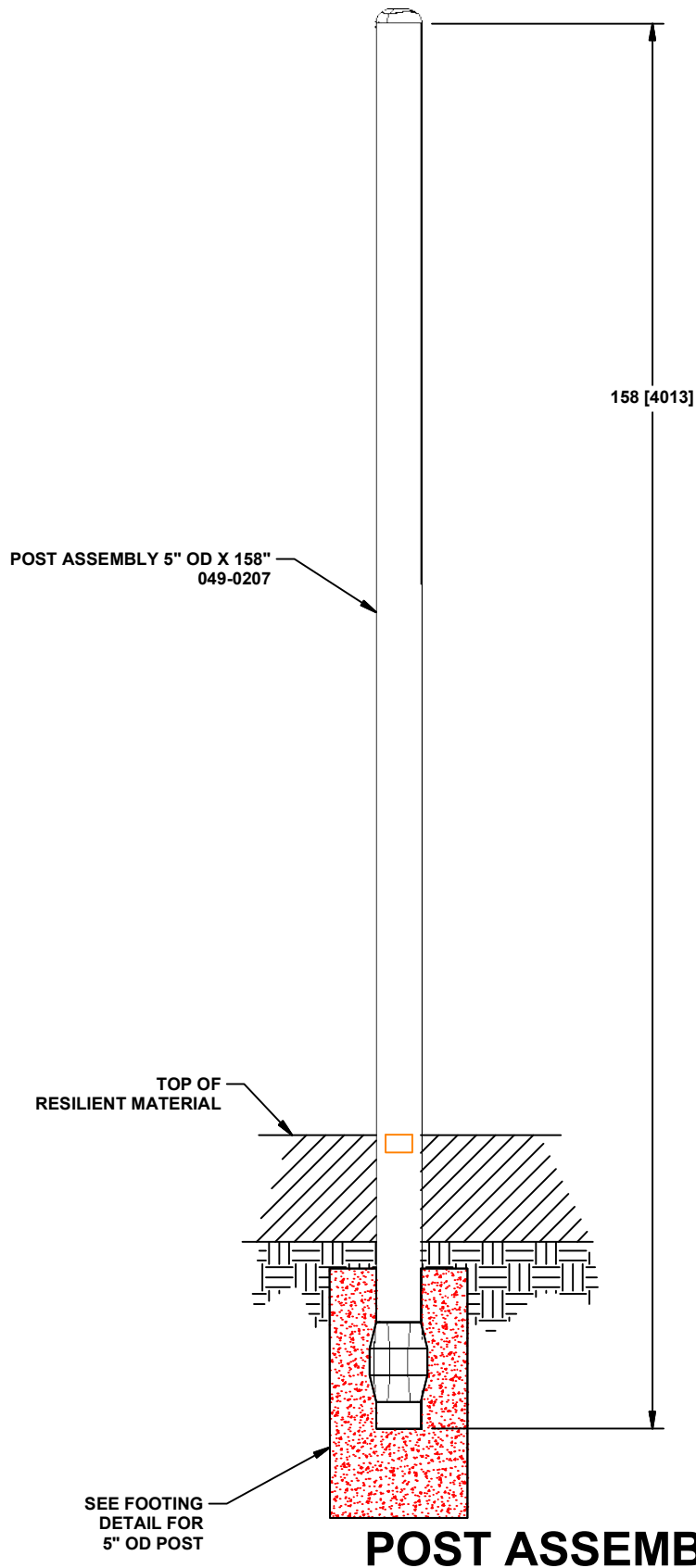
SPECIFICATIONS

POST ASSEMBLY 5" OD X 147": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 78 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0168

POST ASSEMBLY 5" OD X 158"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0207	POST ASSEMBLY 5" OD X 158"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

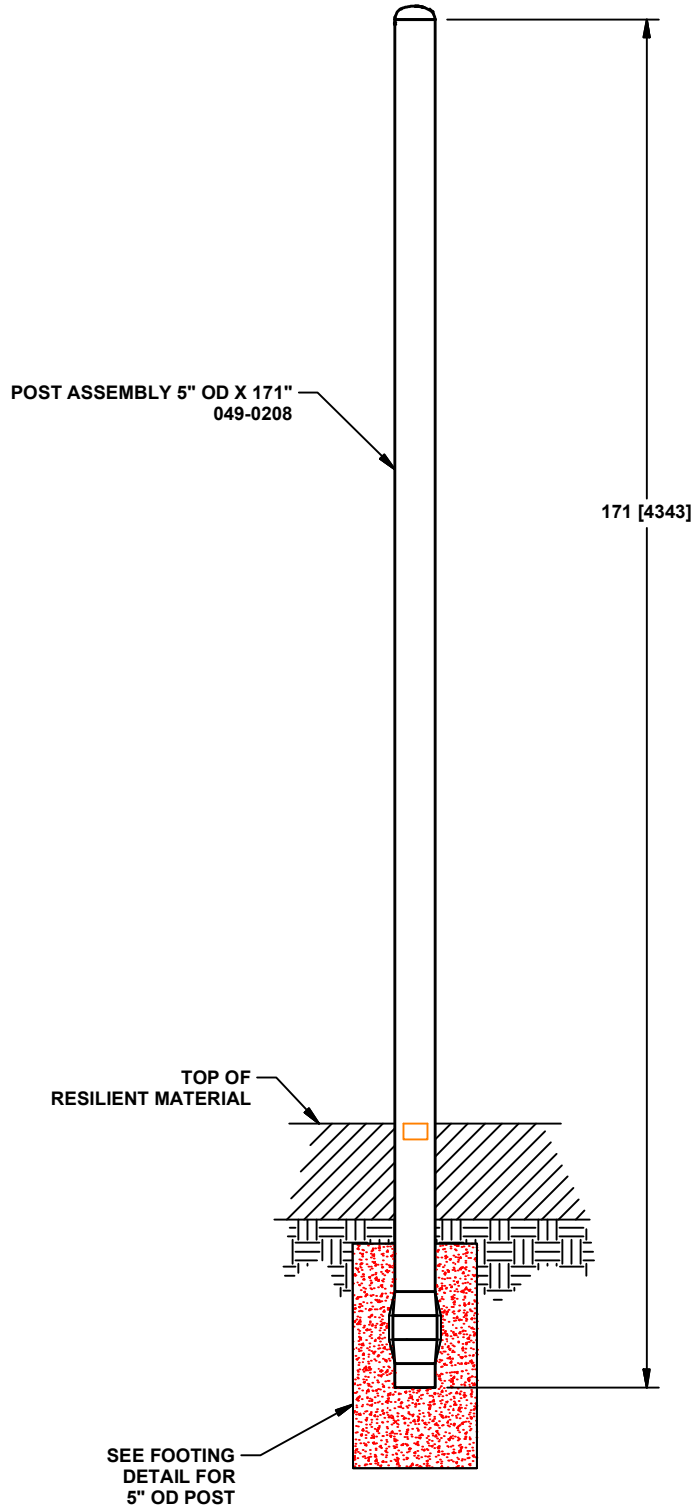
SPECIFICATIONS

POST ASSEMBLY 5" OD X 158": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 84 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0169 POST ASSEMBLY 5" OD X 171"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
049-0208	POST ASSEMBLY 5" OD X 171"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

POST ASSEMBLY 5" OD X 171": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 91 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



Proposal Number: 142-114494-1C

3/12/2019

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Component No.	Description	Quantity	Ext. Weight
Burke Basics			
550-0111	BELT SEAT, 8' SINGLE, STD CHAIN	1	10
550-0112	BELT SEAT, 8' PAIR, STD CHAIN	2	40
550-0135	5" OD ARCH SWING	1	366
550-0136	5" OD ARCH SWING ADD-ON	2	446
550-0171	FREEDOM SWING SEAT, 8' BEAM, STD CHAIN	1	38
560-2573	KIDFORCE SPINNER	1	43
560-2586	COMET I	1	154
660-0101	INSTALL KIT, BURKE BASICS - PAINT	1	2
		10	1099



Proposal Number: 142-114494-1C

3/12/2019

Order # 12345

Parts List

Comp. No.	Part No.	Description	Qty.	Total Qty.
Burke Basics				
550-0111		BELT SEAT, 8' SINGLE, STD CHAIN	1	
	009-0063	GALVANIZED 4/0 CHAIN 86 3/4"	2	2
	018-0022	MOLDED RUBBER SEAT	1	1
	046-0089	SPACER 1.13 OD X .25	2	2
	046-0291	LOCKTITE	1	1
	046-0314	CLEVIS SHACKLE W/BOLT	2	2
550-0112		BELT SEAT, 8' PAIR, STD CHAIN	2	
	009-0063	GALVANIZED 4/0 CHAIN 86 3/4"	4	8
	018-0022	MOLDED RUBBER SEAT	2	4
	046-0089	SPACER 1.13 OD X .25	4	8
	046-0291	LOCKTITE	1	2
	046-0314	CLEVIS SHACKLE W/BOLT	4	8
550-0135		5" OD ARCH SWING	1	
	000-0225	PENDULUM CASTING	4	4
	016-0006	BRONZE BEARING .377 X .75 X .75	4	4
	030-1835	SWING BEAM, 5" OD X 130"	1	1
	030-1980	ARCH POST END, 5" OD SWING	2	2
	036-0227	HARDWARE PACKAGE	1	1
	036-0788	HARDWARE PACKAGE	2	2
	036-1414	HARDWARE PACKAGE	1	1
	046-0291	LOCKTITE	1	1
550-0136		5" OD ARCH SWING ADD-ON	2	
	000-0225	PENDULUM CASTING	4	8
	016-0006	BRONZE BEARING .377 X .75 X .75	4	8
	030-1835	SWING BEAM, 5" OD X 130"	1	2
	030-1981	ARCH POST, ADD-ON 5" OD SWING	1	2
	036-0227	HARDWARE PACKAGE	1	2
	036-0788	HARDWARE PACKAGE	2	4
	036-1414	HARDWARE PACKAGE	1	2
	046-0291	LOCKTITE	1	2
550-0171		FREEDOM SWING SEAT, 8' BEAM, STD CHAIN	1	
	009-0083	CHAIN 4/0 (47 1/8")	2	2
	009-0084	CHAIN 4/0 (72")	2	2
	009-0089	CHAIN 4/0 (22 1/2") PVC COATED	1	1
	036-0870	HARDWARE PACKAGE	1	1
	046-0089	SPACER 1.13 OD X .25	2	2
	046-0291	LOCKTITE	1	1
	046-1811	U BOLT W/ PLATE & NUTS, 5/16"-18	2	2
	049-1729	FREEDOM SWING SEAT ASSEMBLY	1	1



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560-2573		KIDFORCE SPINNER	1		
	007-1410	8" OD SPACER PLATE	1	1	
	014-0155	TUBE, 1.900 x 2 7/16"	1	1	
	016-0017	THRST BEARING 1 9/16 ID (6208)	2	2	
	018-1498	BOWL, KIDFORCE SPINNER	1	1	
	030-1413	SUPPORT, KIDFORCE SPINNER	1	1	
	030-2470	BRACKET, KIDFORCE SPINNER 9 1/2" OD	1	1	
	036-1439	HARDWARE PACKAGE	1	1	
560-2586		COMET I	1		
	016-0019	THRUST BALL BEARING 2 3/4 ID	2	2	
	018-0614	COVER, SPINNER	1	1	
	030-1909	ANCHOR POST, COMET	1	1	
	030-2589	COMET I WELDMENT	1	1	
	036-0877	HARDWARE PACKAGE	1	1	
	036-1015	HARDWARE PACKAGE	1	1	
	036-1470	HARDWARE PACKAGE	1	1	
660-0101		INSTALL KIT, BURKE BASICS - PAINT	1		
	031-9999	TOUCH UP PAINT - GENERAL	1	1	
	099-0002	INSTALLATION KIT B	1	1	



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Packing List

Part. No.	Description	Qty.	Skid
000-0225	PENDULUM CASTING	12	
007-1410	8" OD SPACER PLATE	1	
009-0063	GALVANIZED 4/0 CHAIN 86 3/4"	10	
009-0083	CHAIN 4/0 (47 1/8")	2	
009-0084	CHAIN 4/0 (72")	2	
009-0089	CHAIN 4/0 (22 1/2") PVC COATED	1	
014-0155	TUBE, 1.900 x 2 7/16"	1	
016-0006	BRONZE BEARING .377 X .75 X .75	12	
016-0017	THRST BEARING 1 9/16 ID (6208)	2	
016-0019	THRUST BALL BEARING 2 3/4 ID	2	
018-0022	MOLDED RUBBER SEAT	5	
018-0614	COVER, SPINNER	1	
018-1498	BOWL, KIDFORCE SPINNER	1	
030-1413	SUPPORT, KIDFORCE SPINNER	1	
030-1835	SWING BEAM, 5" OD X 130"	3	
030-1909	ANCHOR POST, COMET	1	
030-1980	ARCH POST END, 5" OD SWING	2	
030-1981	ARCH POST, ADD-ON 5" OD SWING	2	
030-2470	BRACKET, KIDFORCE SPINNER 9 1/2" OD	1	
030-2589	COMET I WELDMENT	1	
031-9999	TOUCH UP PAINT - GENERAL	1	
036-0227	HARDWARE PACKAGE	3	
036-0788	HARDWARE PACKAGE	6	
036-0870	HARDWARE PACKAGE	1	
036-0877	HARDWARE PACKAGE	1	
036-1015	HARDWARE PACKAGE	1	
036-1414	HARDWARE PACKAGE	3	
036-1439	HARDWARE PACKAGE	1	
036-1470	HARDWARE PACKAGE	1	
046-0089	SPACER 1.13 OD X .25	12	
046-0291	LOCTITE	7	
046-0314	CLEVIS SHACKLE W/BOLT	10	
046-1811	U BOLT W/ PLATE & NUTS, 5/16"-18	2	
049-1729	FREEDOM SWING SEAT ASSEMBLY	1	
099-0002	INSTALLATION KIT B	1	



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Component No.	Description	Quantity	Ext. Weight
Intensity			
370-0016	GRAB BAR ASSEMBLY	2	12
370-0031	POWER PIPES CLIMBER 2-5	1	33
370-0034	ODYSSEY POST LINK SINGLE	1	39
370-0815	TWISTING TRAVERSE 2-5	1	100
370-0835	TRIGON ARCH, GL	1	151
		6	335
Nucleus			
270-0001	OFFSET ENCLOSURE	1	30
270-0050	8" CLOSURE PLATE	2	20
270-0130	SQUARE PLATFORM	1	106
270-0136	SPLIT SQUARE PLATFORM	1	103
270-0290	HALF PLATFORM	1	57
370-0037	ASCEND ROCK CLIMBER, 32"-40"	1	117
470-0514	ROCK'N ROLL SLIDE, 24" - 32"	1	85
570-0718	HYPNO ACTIVITY PANEL	1	9
570-1863	RAIN WHEEL PANEL	1	59
570-2624	HALF PIPE WALL	2	40
670-0001	POST ASSEMBLY 5" OD X 91"	3	147
670-0002	POST ASSEMBLY 5" OD X 107"	7	406
670-0165	POST ASSEMBLY 5" OD X 123"	2	132
		24	1311



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Parts List

Comp. No.	Part No.	Description	Qty.	Total Qty.
Intensity				
370-0016		GRAB BAR ASSEMBLY	2	
	030-0484	GRAB BAR	1	2
	036-0258	HARDWARE PACKAGE	1	2
370-0031		POWER PIPES CLIMBER 2-5	1	
	030-1503	POWER PIPE	2	2
	036-0258	HARDWARE PACKAGE	4	4
370-0034		ODYSSEY POST LINK SINGLE	1	
	000-0203	CASTING, STRAIGHT BRACKET	4	4
	030-2193	ODYSSEY POST LINK	1	1
	036-0258	HARDWARE PACKAGE	4	4
	036-0819	HARDWARE PACKAGE	2	2
370-0815		TWISTING TRAVERSE 2-5	1	
	020-0025	ROPE ASSEMBLY, SINGLE, 62 1/4"	4	4
	030-0192	WAVY WELDMENT	2	2
	036-0818	INTENSITY SHIM PACK	2	2
	036-1311	HARDWARE PACKAGE	3	3
	046-0334	BRASS SPACER 7/16" OD X 1 1/4"	8	8
370-0835		TRIGON ARCH, GL	1	
	006-0661	BRACKET, END CAP, TRIANGLE	9	9
	009-0067	BLACK PVC COATED 4/0 CHAIN 47 1/4"	6	6
	015-0300	ANCHOR TUBE	6	6
	018-0917	TRIANGLE CLIMB THROUGH	3	3
	020-0039	ROPE, THIMBLE & STOP, 10.125"	3	3
	025-0064	ROD, 3/4" OD X 3.530" W/ 3/8-16	18	18
	030-2319	ARCHED BEAM, 3 TAB	1	1
	036-1423	HARDWARE PACKAGE	1	1
	046-0089	SPACER 1.13 OD X .25	6	6
	046-0291	LOCKTITE	1	1
	046-0334	BRASS SPACER 7/16" OD X 1 1/4"	3	3
	046-0530	U-BOLT, 1/2"-13 X 3" SS	9	9
Nucleus				
270-0001		OFFSET ENCLOSURE	1	
	000-0203	CASTING, STRAIGHT BRACKET	2	2
	030-1676	S5 OFFSET ENCLOSURE	1	1
	036-1284	HARDWARE PACKAGE	1	1
270-0050		8" CLOSURE PLATE	2	
	007-0967	S5 8" CLOSURE PLATE	1	2
	036-1380	HARDWARE PACKAGE	1	2



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270-0130		SQUARE PLATFORM	1		
	030-1656	SQUARE PLATFORM S5P		1	1
	036-1101	HARDWARE PACKAGE		1	1
270-0136		SPLIT SQUARE PLATFORM	1		
	007-0968	S5, 8" CLOSURE PLATE, SPLIT SQUARE		1	1
	030-2168	SPLIT SQUARE PLATFORM		2	2
	036-1107	HARDWARE PACKAGE		1	1
270-0290		HALF PLATFORM	1		
	030-2435	HALF PLATFORM		1	1
	036-1101	HARDWARE PACKAGE		1	1
370-0037		ASCEND ROCK CLIMBER, 32"-40"	1		
	000-0203	CASTING, STRAIGHT BRACKET		2	2
	006-0185	FORMED PLATE 63 DEG X 26 1/2"		1	1
	018-0214	PANEL, ASCEND ROCK CLIMBER		1	1
	018-1384	ROCK CLIMBING HOLD		9	9
	029-0032	TUBE, 1.029" OD X 14 GA X 17 1/2"		1	1
	030-0132	SUPPORT, ASCEND ROCK CLIMBER		2	2
	030-1672	S5 UNITARY ENCLOSURE		1	1
	036-0819	HARDWARE PACKAGE		1	1
	036-1471	HARDWARE PACKAGE		1	1
	036-1472	HARDWARE PACKAGE		3	3
	036-1473	HARDWARE PACKAGE		1	1
470-0514		ROCK'N ROLL SLIDE, 24" - 32"	1		
	000-0203	CASTING, STRAIGHT BRACKET		2	2
	000-0208	CASTING, SIDE FILLER, LONG		2	2
	018-0548	SLIDE HOOD , NARROW SLIDES		1	1
	018-0551	NARROW SLIDE, 24"-32"		1	1
	030-0126	SUPPORT,SLIDE EXIT		1	1
	030-0755	MOUNT TUBE		2	2
	030-1589	SIDE BARRIER, RIGHT, SLIDE		1	1
	030-1593	SIDE BARRIER, LEFT, SLIDE		1	1
	036-1371	HARDWARE PACKAGE		1	1
570-0718		HYPNO ACTIVITY PANEL	1		
	036-0784	HARDWARE PACKAGE		1	1
	049-0688	HYPNO ACTIVITY PANEL ASSEMBLY 5" OD		1	1
570-1863		RAIN WHEEL PANEL	1		
	000-0204	CASTING, FLAT PANEL		2	2
	036-1241	HARDWARE PACKAGE		1	1
	049-1766	39 1/2 X 43 RAIN WHEEL PANEL ASSEMBLY		1	1
570-2624		HALF PIPE WALL	2		
	000-0203	CASTING, STRAIGHT BRACKET		2	4
	030-2438	HALF PIPE WALL		1	2
	036-1284	HARDWARE PACKAGE		1	2



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670-0001		POST ASSEMBLY 5" OD X 91"	3		
	000-0226	POST CAP 5" OD AL		1	3
	049-0219	POST ASSY 5" OD X 91"		1	3
670-0002		POST ASSEMBLY 5" OD X 107"	7		
	000-0226	POST CAP 5" OD AL		1	7
	049-0220	POST ASSY 5" OD X 107"		1	7
670-0165		POST ASSEMBLY 5" OD X 123"	2		
	000-0226	POST CAP 5" OD AL		1	2
	049-0204	POST ASSEMBLY 5" OD X 123"		1	2



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Packing List

Part. No.	Description	Qty.	Skid
000-0203	CASTING, STRAIGHT BRACKET	14	
000-0204	CASTING, FLAT PANEL	2	
000-0208	CASTING, SIDE FILLER, LONG	2	
000-0226	POST CAP 5" OD AL	12	
006-0185	FORMED PLATE 63 DEG X 26 1/2"	1	
006-0661	BRACKET, END CAP, TRIANGLE	9	
007-0967	S5 8" CLOSURE PLATE	2	
007-0968	S5, 8" CLOSURE PLATE, SPLIT SQUARE	1	
009-0067	BLACK PVC COATED 4/0 CHAIN 47 1/4"	6	
015-0300	ANCHOR TUBE	6	
018-0214	PANEL, ASCEND ROCK CLIMBER	1	
018-0548	SLIDE HOOD , NARROW SLIDES	1	
018-0551	NARROW SLIDE, 24"-32"	1	
018-0917	TRIANGLE CLIMB THROUGH	3	
018-1384	ROCK CLIMBING HOLD	9	
020-0025	ROPE ASSEMBLY, SINGLE, 62 1/4"	4	
020-0039	ROPE, THIMBLE & STOP, 10.125"	3	
025-0064	ROD, 3/4" OD X 3.530" W/ 3/8-16	18	
029-0032	TUBE, 1.029" OD X 14 GA X 17 1/2"	1	
030-0126	SUPPORT,SLIDE EXIT	1	
030-0132	SUPPORT, ASCEND ROCK CLIMBER	2	
030-0192	WAVY WELDMENT	2	
030-0484	GRAB BAR	2	
030-0755	MOUNT TUBE	2	
030-1503	POWER PIPE	2	
030-1589	SIDE BARRIER, RIGHT, SLIDE	1	
030-1593	SIDE BARRIER, LEFT, SLIDE	1	
030-1656	SQUARE PLATFORM S5P	1	
030-1672	S5 UNITARY ENCLOSURE	1	
030-1676	S5 OFFSET ENCLOSURE	1	
030-2168	SPLIT SQUARE PLATFORM	2	
030-2193	ODYSSEY POST LINK	1	
030-2319	ARCHED BEAM, 3 TAB	1	
030-2435	HALF PLATFORM	1	
030-2438	HALF PIPE WALL	2	
036-0258	HARDWARE PACKAGE	10	
036-0784	HARDWARE PACKAGE	1	
036-0818	INTENSITY SHIM PACK	2	
036-0819	HARDWARE PACKAGE	3	
036-1101	HARDWARE PACKAGE	2	
036-1107	HARDWARE PACKAGE	1	
036-1241	HARDWARE PACKAGE	1	
036-1284	HARDWARE PACKAGE	3	
036-1311	HARDWARE PACKAGE	3	
036-1371	HARDWARE PACKAGE	1	
036-1380	HARDWARE PACKAGE	2	
036-1423	HARDWARE PACKAGE	1	
036-1471	HARDWARE PACKAGE	1	
036-1472	HARDWARE PACKAGE	3	
036-1473	HARDWARE PACKAGE	1	



Proposal Number: 142-114494-1B

3/12/2019

Order # 12345

046-0089	SPACER 1.13 OD X .25	6	_____	_____
046-0291	LOCKTITE	1	_____	_____
046-0334	BRASS SPACER 7/16" OD X 1 1/4"	11	_____	_____
046-0530	U-BOLT, 1/2"-13 X 3" SS	9	_____	_____
049-0204	POST ASSEMBLY 5" OD X 123"	2	_____	_____
049-0219	POST ASSY 5" OD X 91"	3	_____	_____
049-0220	POST ASSY 5" OD X 107"	7	_____	_____
049-0688	HYPNO ACTIVITY PANEL ASSEMBLY 5" OD	1	_____	_____
049-1766	39 1/2 X 43 RAIN WHEEL PANEL ASSEMBLY	1	_____	_____

Playground Installation Instructions: Lake View Heights Park

LAKE VIEW HEIGHTS PARK

MADISON, WI - OPTION 1-3 - VIEW A

LR
LEE
RECREATION, LLC

Office (800) 775-8937
Fax (608) 423-7655

260 W. Main Street
Cambridge, WI 53523

info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



LAKE VIEW HEIGHTS PARK

MADISON, WI - OPTION 1-3 - VIEW B

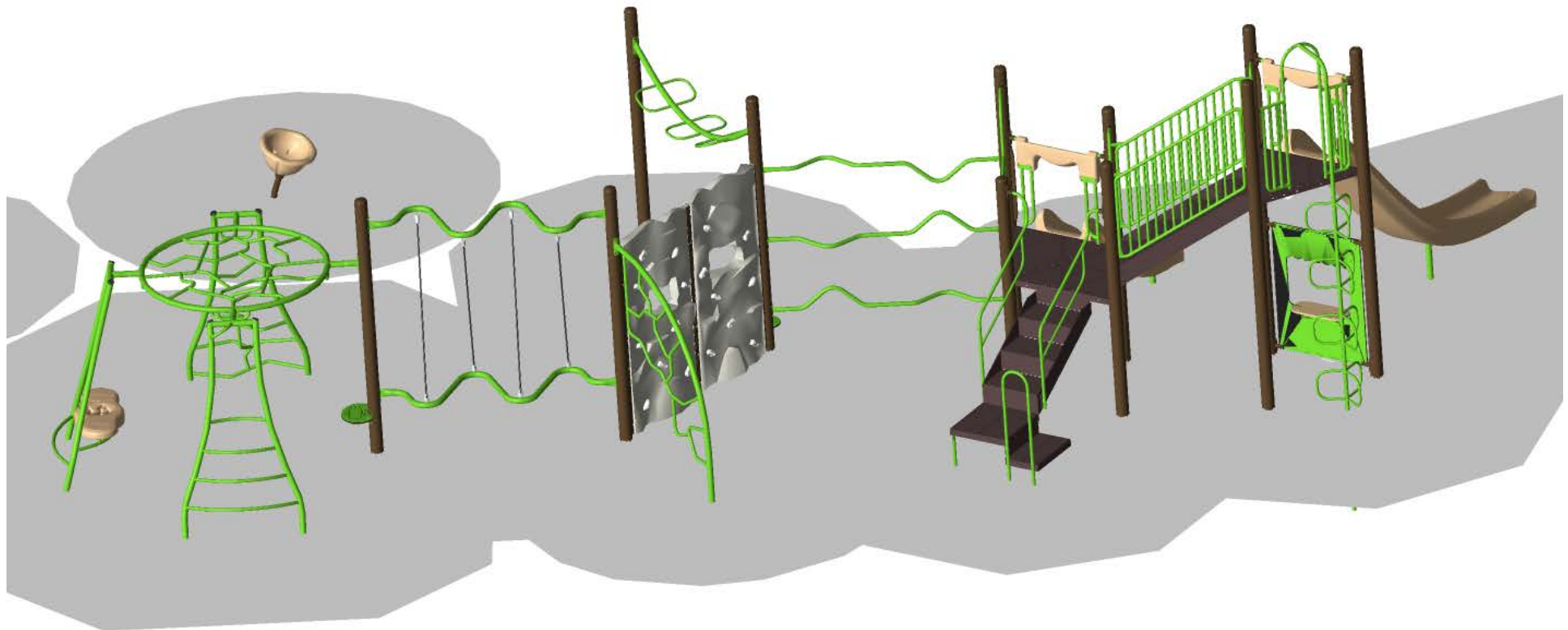
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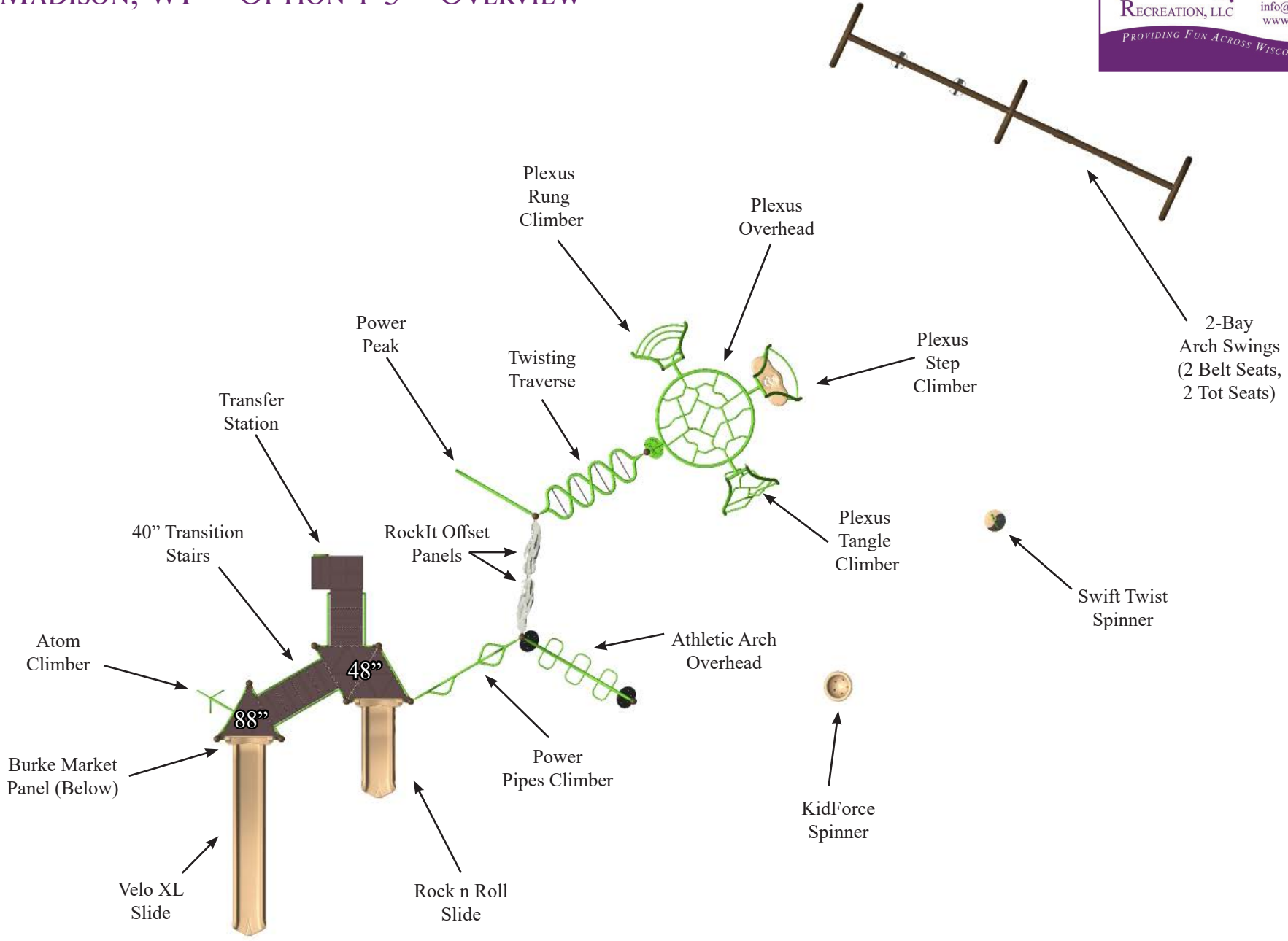


LAKE VIEW HEIGHTS PARK

MADISON, WI - OPTION 1-3 - OVERVIEW



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 Fax (608) 423-7655
 260 W. Main Street
 Cambridge, WI 53523
 info@leerecreation.com
 www.leerecreation.com
 PROVIDING FUN ACROSS WISCONSIN SINCE 1995



INFORMATION
MINIMUM FALL ZONE
SURFACED WITH
RESILIENT MATERIAL
AREA

2509 SQ.FT.

PERIMETER
401 FT.

STRUCTURE SIZE
74' 11" x 74' 6"

STRUCTURE IS DESIGNED
FOR CHILDREN AGES:

- 6-23 MONTH OLDS
- 2-5 YEAR OLDS
- 5-12 YEAR OLDS
- 13 + YEAR OLDS



Registered
to ISO 9001

Registered
to ISO 14001

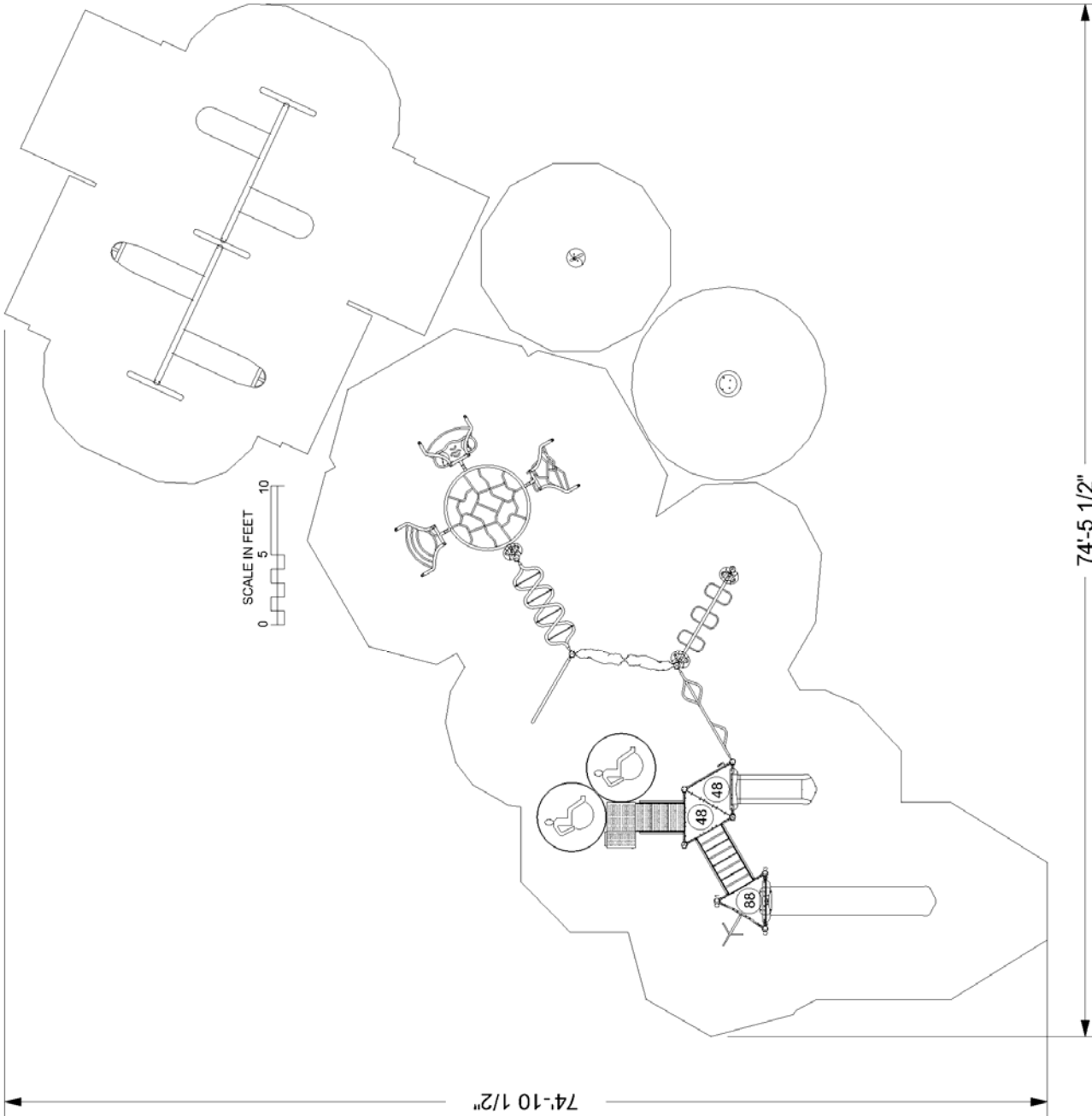


To verify product certification,
visit www.ipema.org

The play components identified
in this plan are IPEMA
certified. The use and layout of
these components conform to the
requirements of ASTM F1487.
To verify product certification,
visit www.ipema.org

The space requirements shown
here are to ASTM standards.
Requirements for other standards
may be different.

The use and layout of play
components identified in this plan
conform to the CPSC guidelines.
U.S. CPSC recommends the
separation of age groups in
playground layouts.



WARNING!

ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH
AND AROUND THIS EQUIPMENT.
FOR SLIDE FALL ZONE SURFACING AREA SEE CPSC's Handbook for
Public Playground Safety.
PLATFORM HEIGHTS ARE IN INCHES ABOVE RESILIENT MATERIAL.

ADA ACCESSIBILITY GUIDELINE (ADAAG CONFORMANCE)

NUMBER OF PLAY EVENTS:	20
NUMBER OF ELEVATED PLAY EVENTS:	4
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP:	PROVIDED: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY TRANSFER SYSTEM:	PROVIDED: 4
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP OR TRANSFER SYSTEM:	PROVIDED: 16
NUMBER OF GROUND LEVEL PLAY EVENTS:	RECD: 1
NUMBER OF TYPES OF GROUND LEVEL PLAY EVENTS:	RECD: 1



SERIES: Basics, Intensity, Nucleus
SITE PLAN
DRAWN BY: Joel Schleis

Lake View Heights Park
1621 Sunfield St.
Madison, WI 53703

March 18, 2019
Lee Recreation, LLC
142-114468-3

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

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SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) A Handbook for Public Playground Safety** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-Children's Playspaces and Equipment A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

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PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

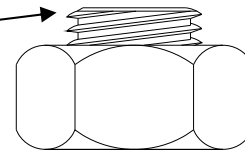


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. **NOTE:** *In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets. See typical mount bracket assembly drawings located in the installation instructions section.*

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

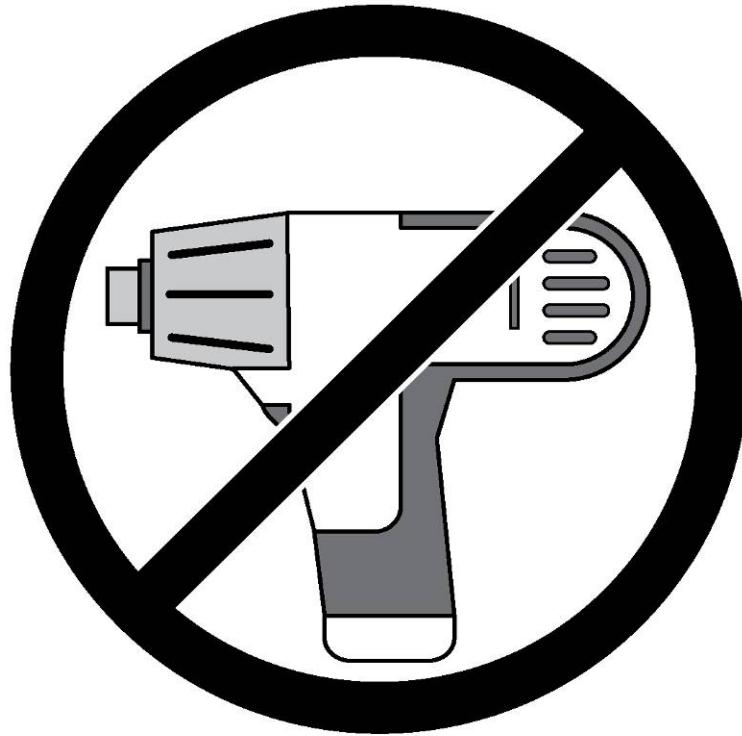
GENERAL INSTALLATION GUIDELINES

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

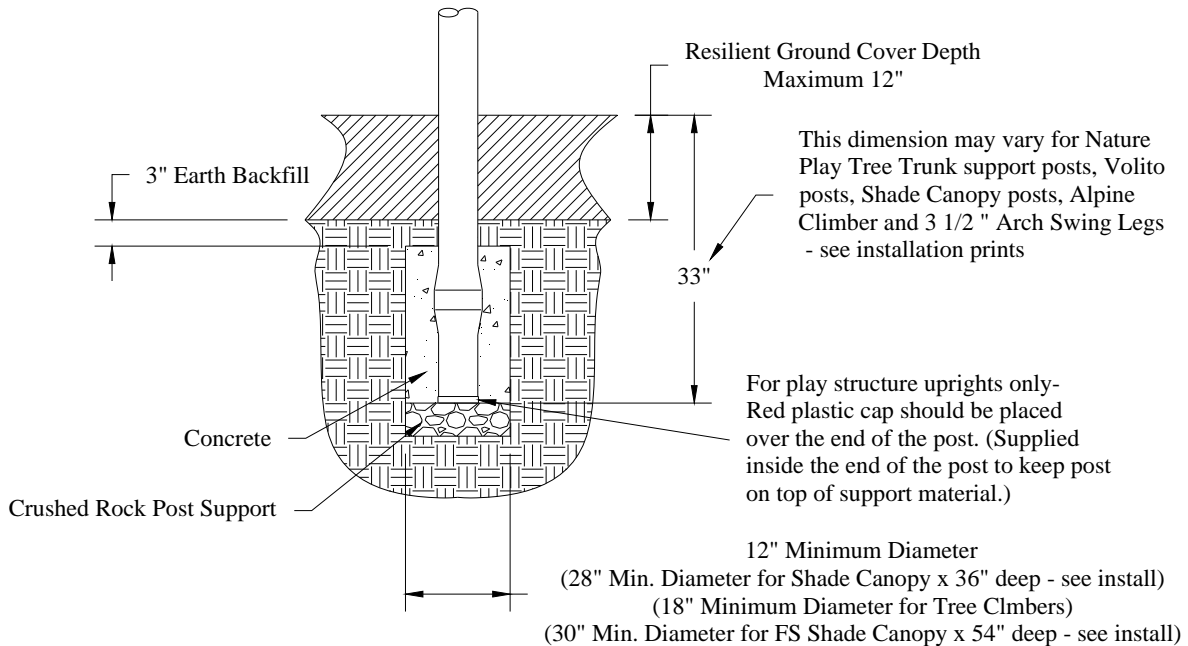


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

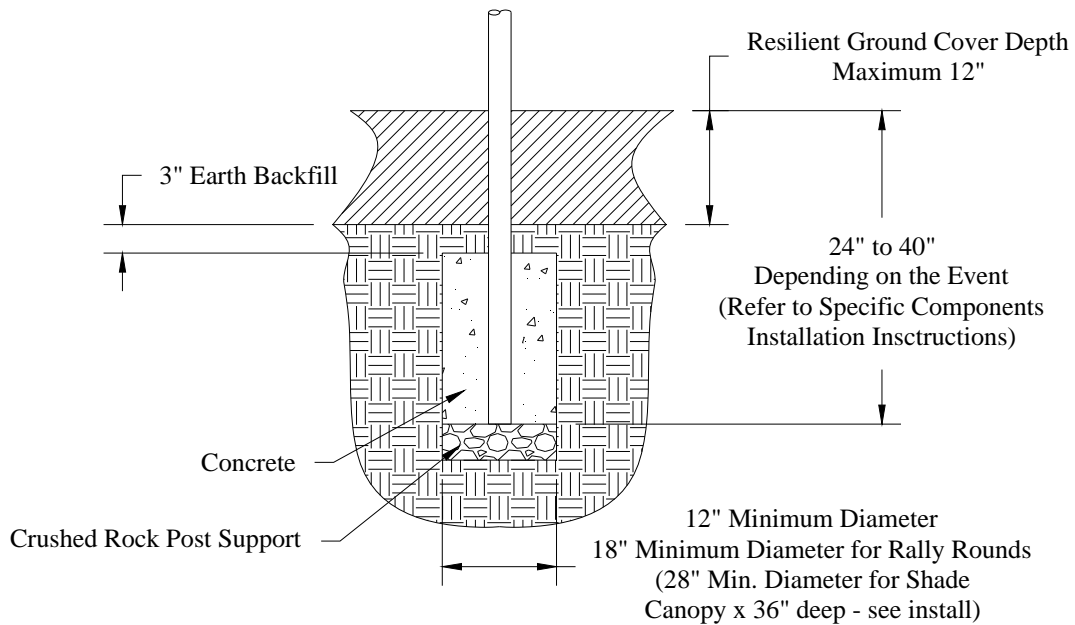


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

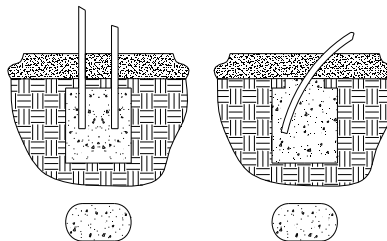


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

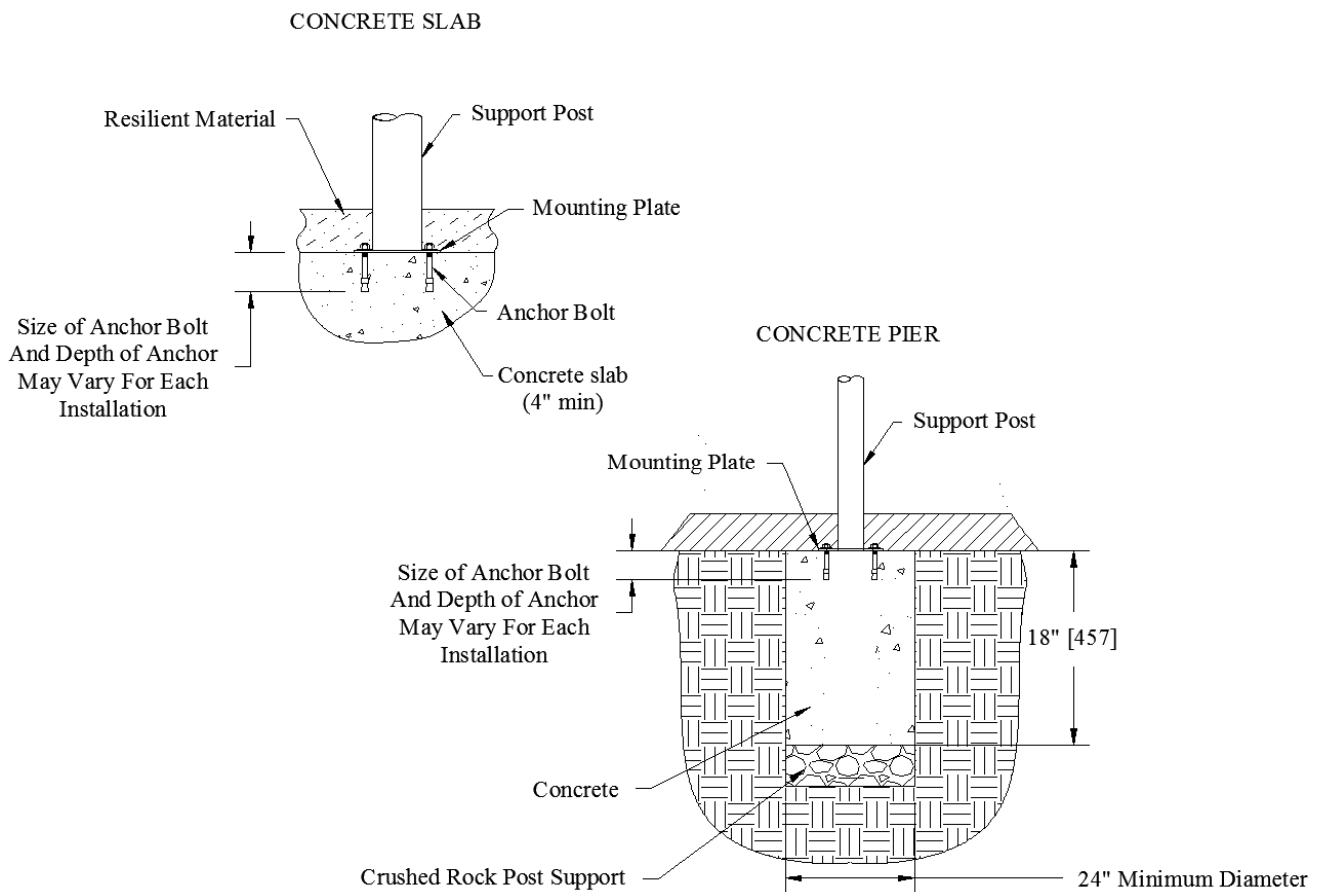


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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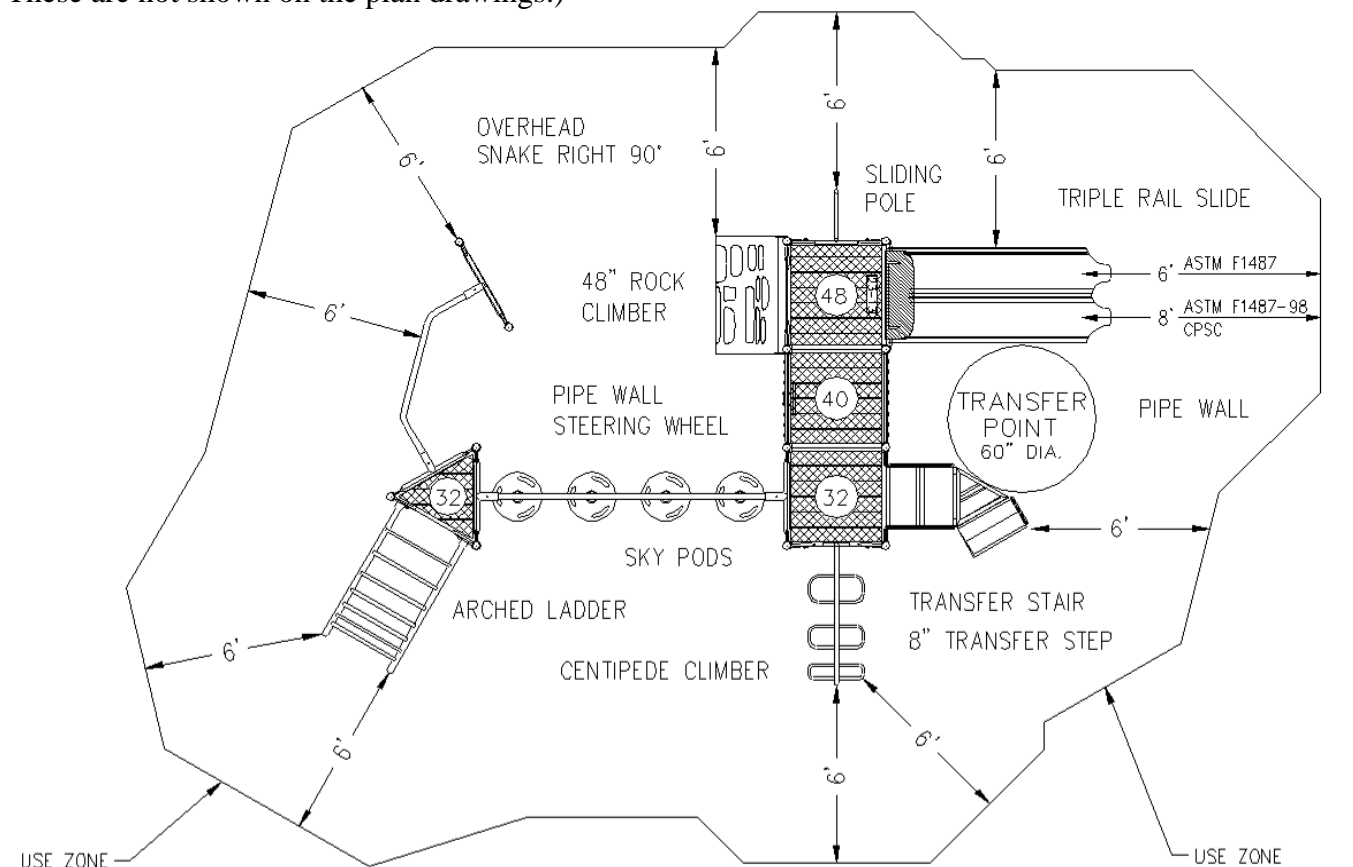
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

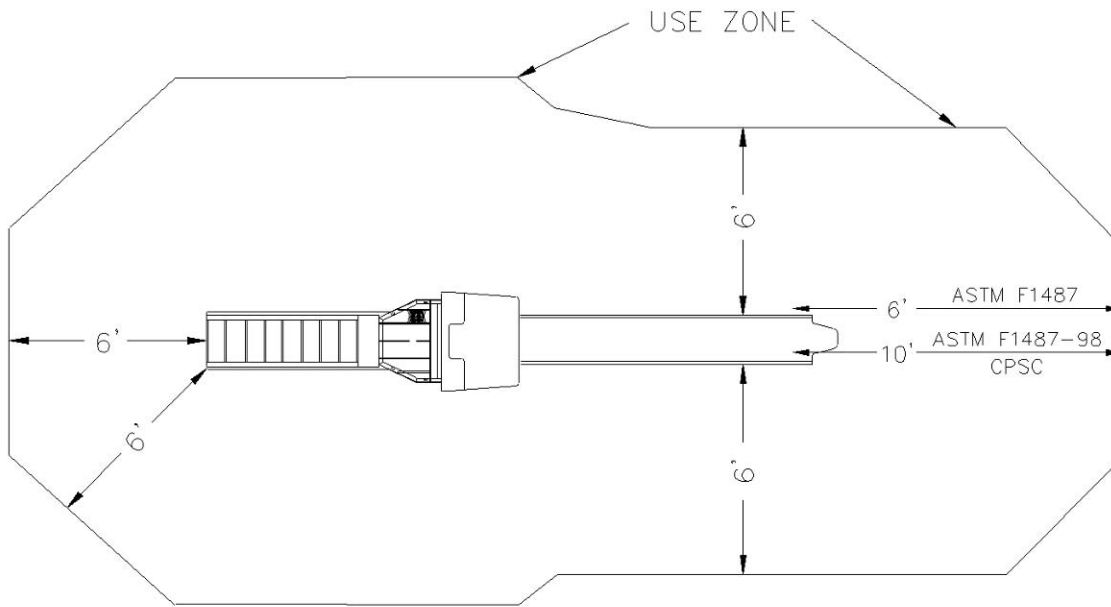


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of Y + 72 in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

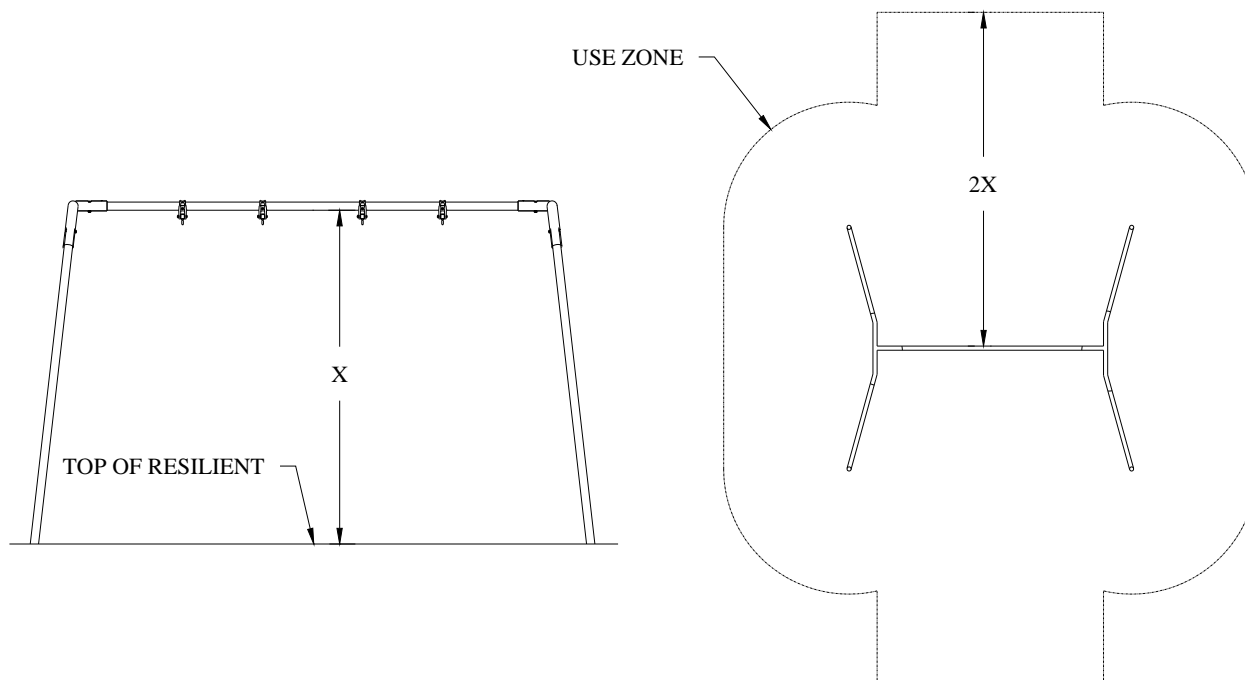


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

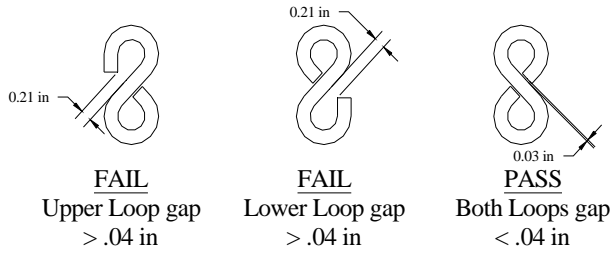


Figure 9: Check loops for .04" gap

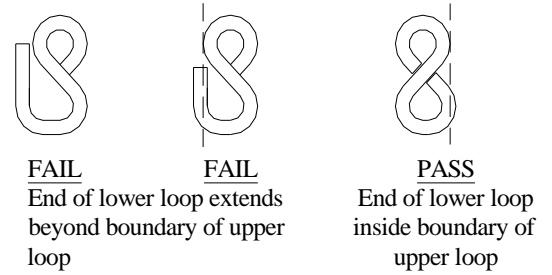


Figure 10: Check lower loop projection



Figure 11: Check upper loop projection

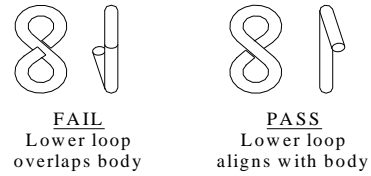


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

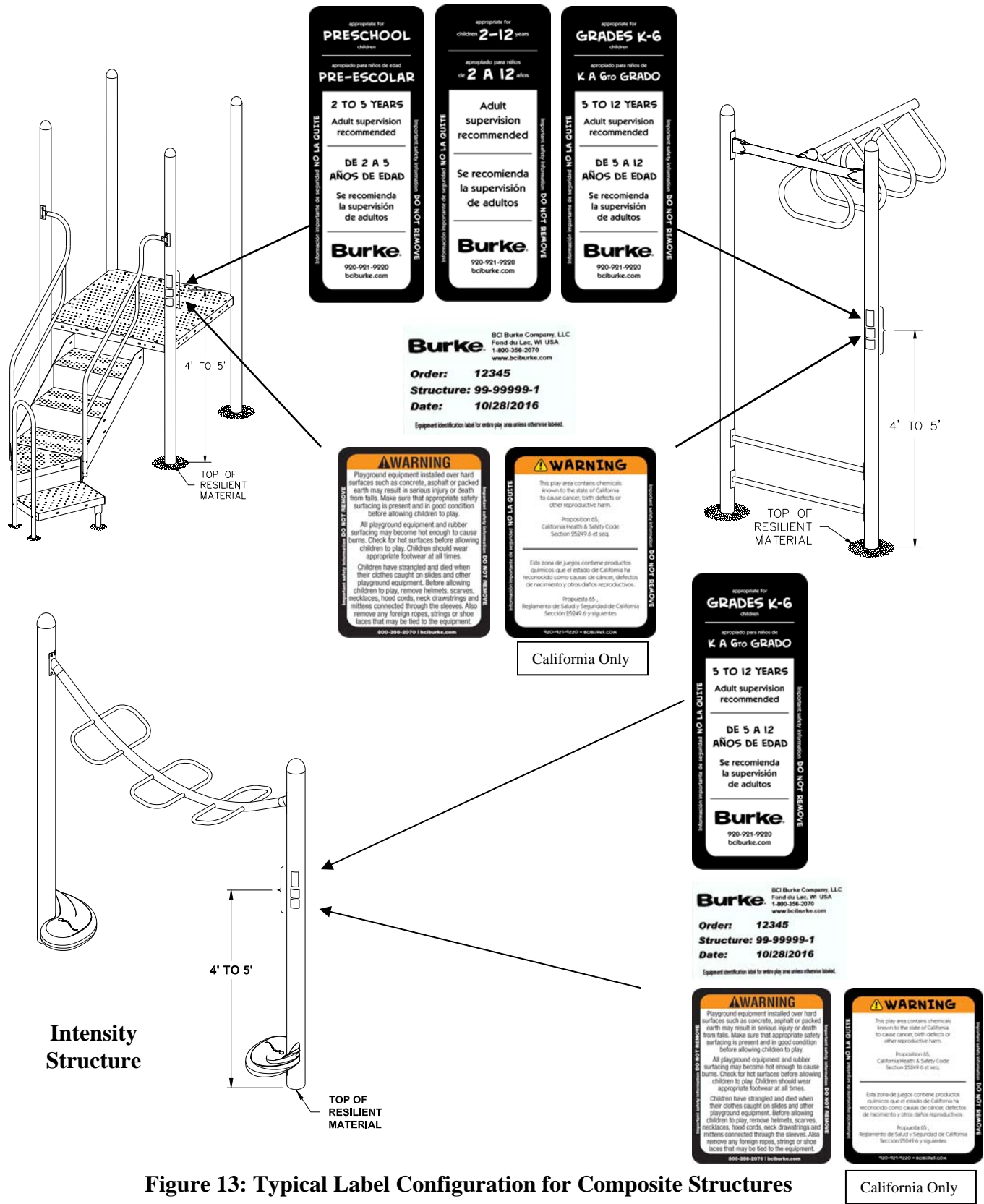


Figure 13: Typical Label Configuration for Composite Structures

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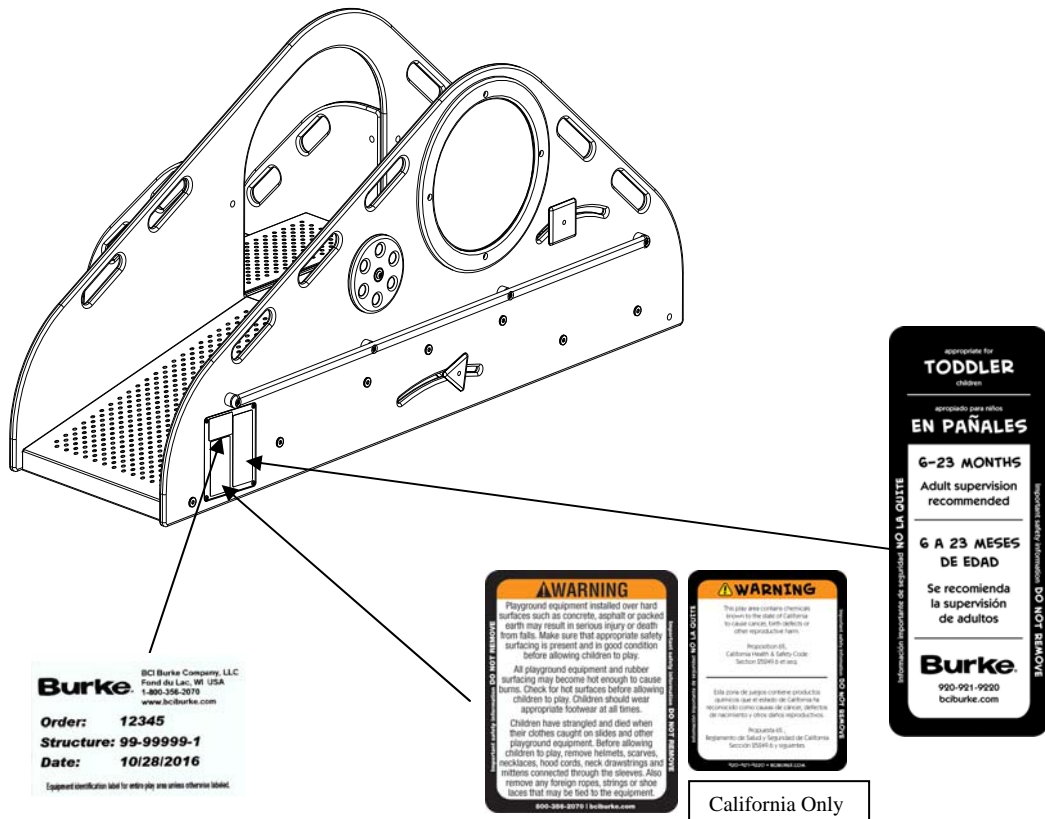


Figure 14: Typical Label Configuration for Composite Structures

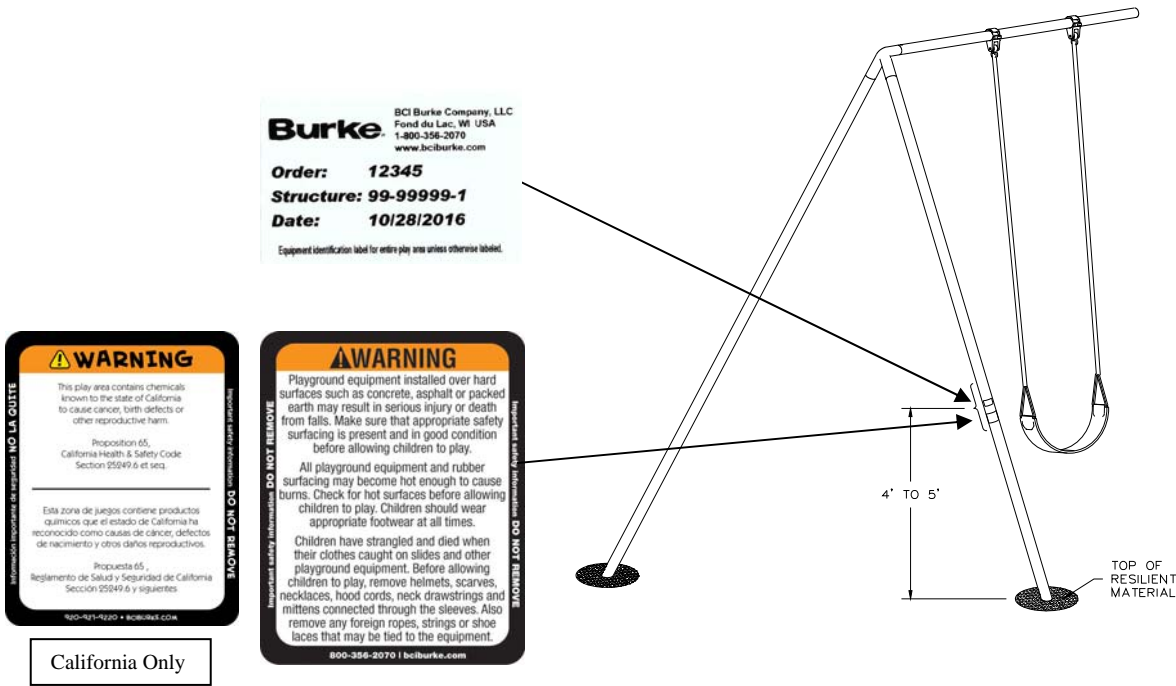


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.
- Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.
 - Clean dried concrete off support posts and any other affected components
 - Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.
 - Insure all post ends have properly installed post caps. Insure the drive rivets are secure.
 - Insure all fasteners are tightened according to specifications listed on your installation instructions.
 - Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.
- Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.
 - Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.
 - Touch up any exposed metal on coated parts following the instructions in the Maintenance section.
 - Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.
 - Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.
 - Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.
 - Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.

Inspected by: _____

Inspection Date: _____

BCI Burke Company, LLC
For questions, call us at:
1-800-356-2070

MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris. **DO NOT** use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

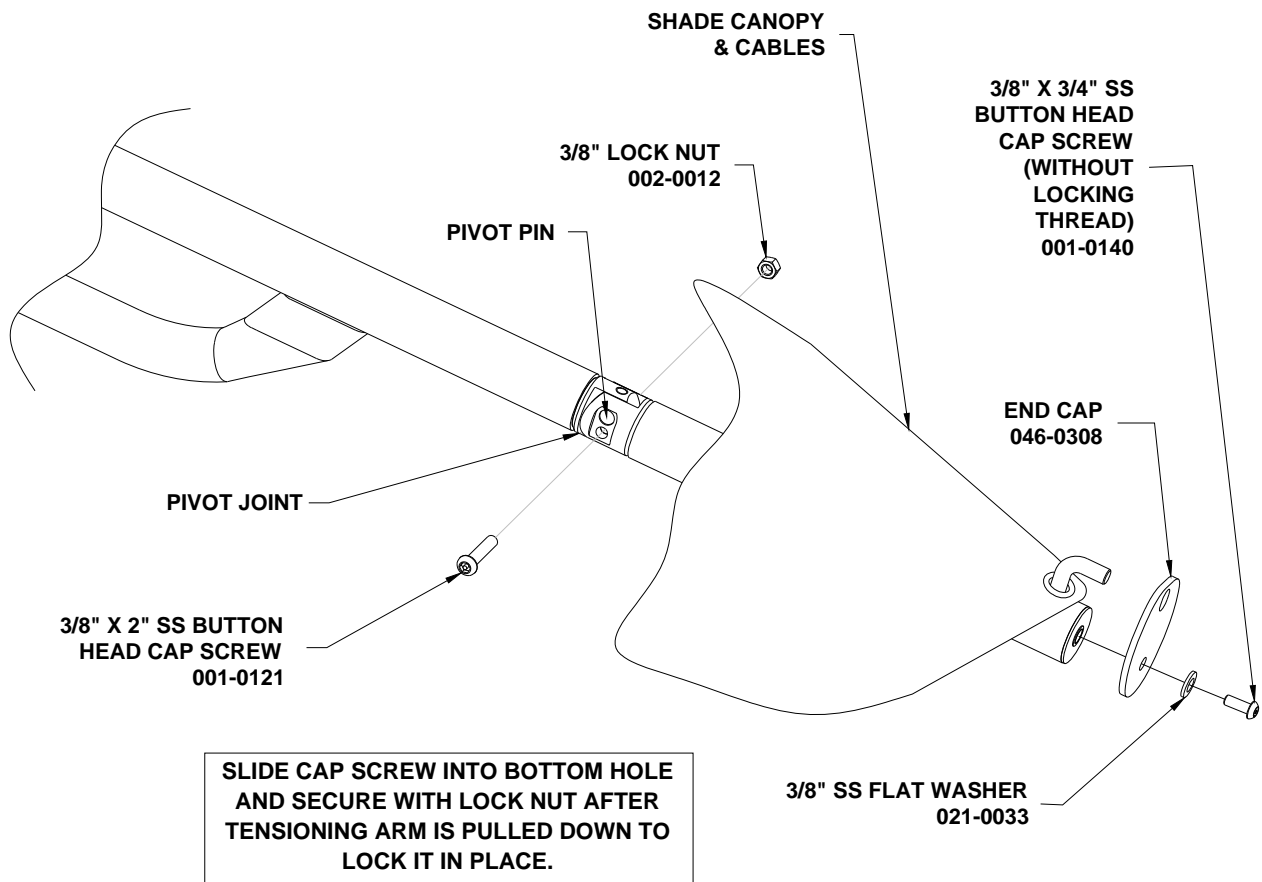


Figure 16: Tensioning Arm in 'Closed Position'

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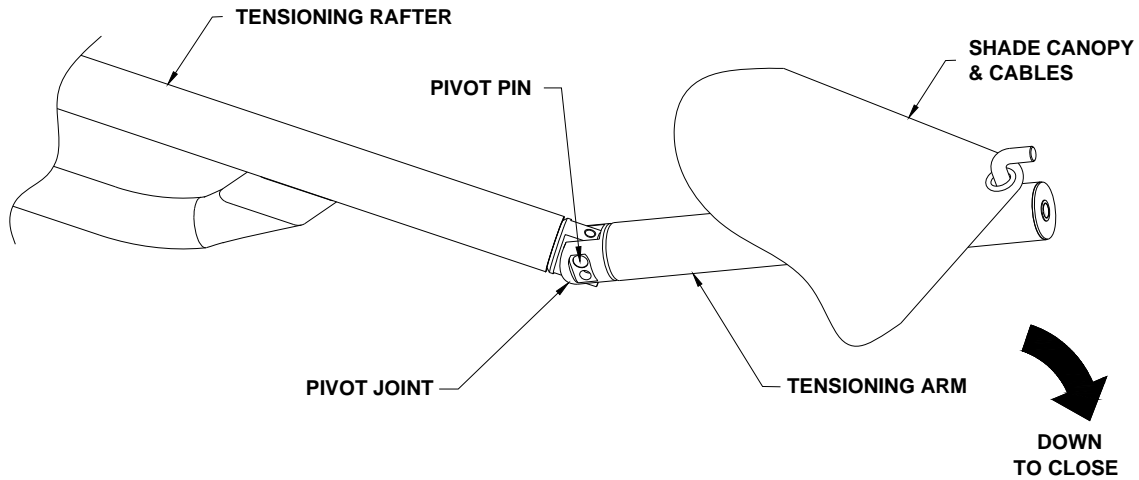


Figure 17: Tensioning Arm in 'Open Position'

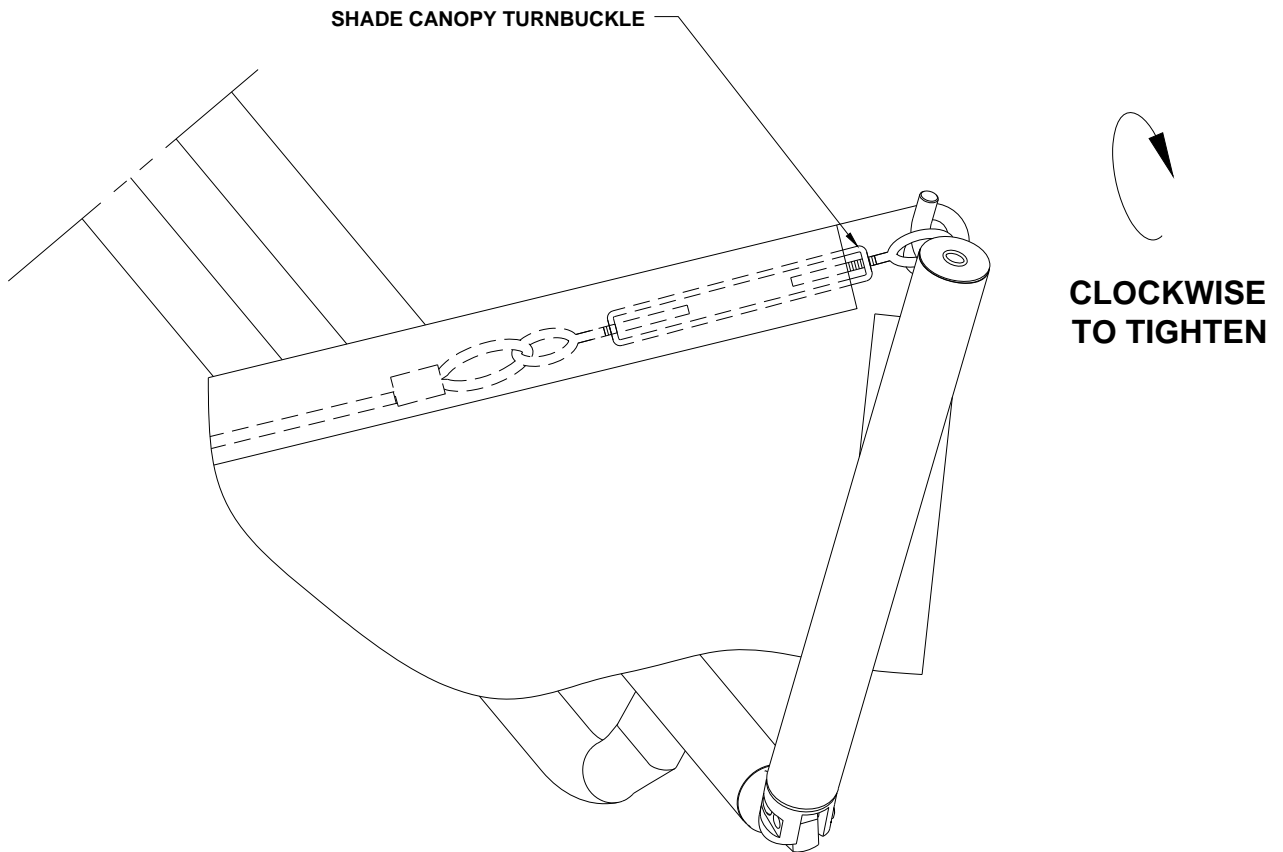


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope **AFTER** flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																			
Visible cracks, bending, warping																			
Accessible sharp edges or points																			
Rusted metal surfaces																			
Rusting of metal and corrosion on aluminum																			
Deformation of open hooks, rings, links, etc.																			
Worn swing hangers and chain																			
Missing or damaged swing seats																			
Heavy swing seats with sharp corners or edges																			
Broken supports/anchors																			
Jagged, exposed or cracked and loose concrete footing																			
Inadequate surfacing material under equipment																			
Exposed ends of pipe. Missing caps or plugs																			
Protruding bolt ends																			
Chipped or peeling paint																			
Cuts or fraying in rope with exposed steel reinforcement strands																			
Vandalism, broken glass, trash, etc.																			
Broken or missing rails, steps, rungs, seats																			
Loose or missing hardware																			
Pinch or crush points																			
Moving components, etc.																			
Lack of lubrication on moving parts																			
Worn bearings																			
Poor drainage areas at footings, slide exits, etc																			
Vandalized or cracked PVC coating																			

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

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For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnnect[®] clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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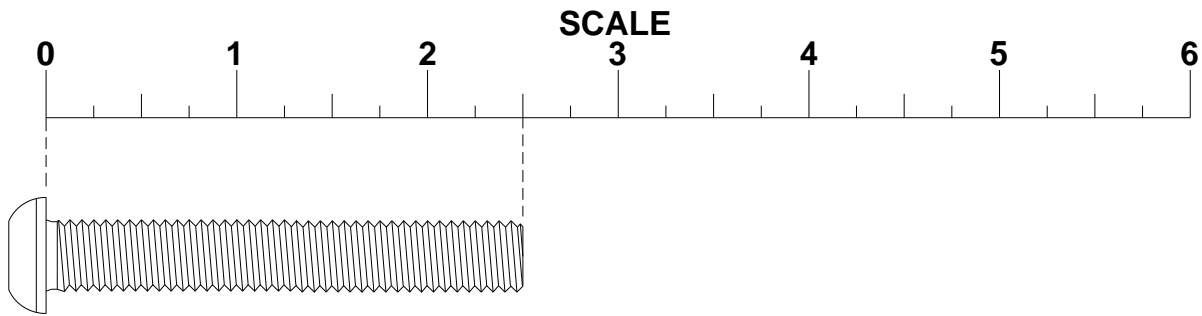
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APPENDIX

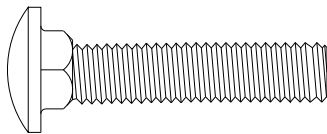
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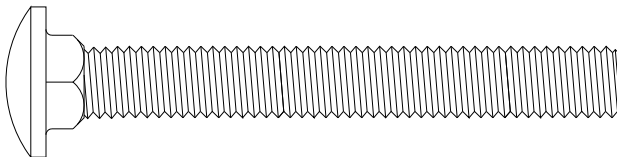


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

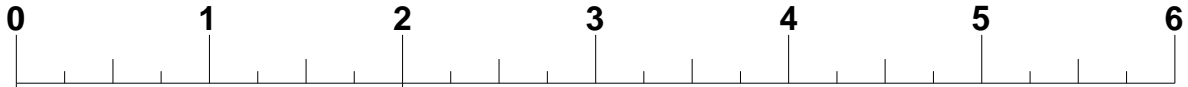
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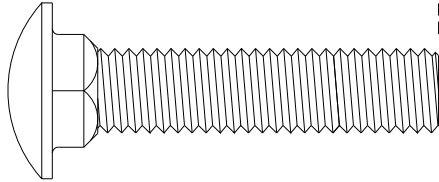
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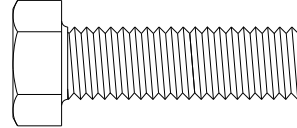
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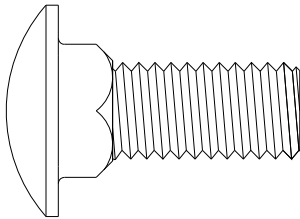
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



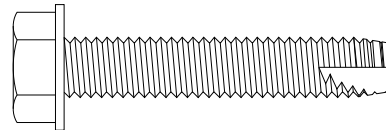
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4" SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4" SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

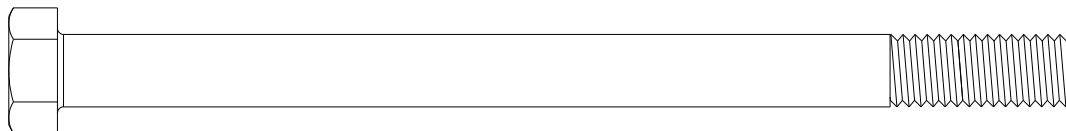


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

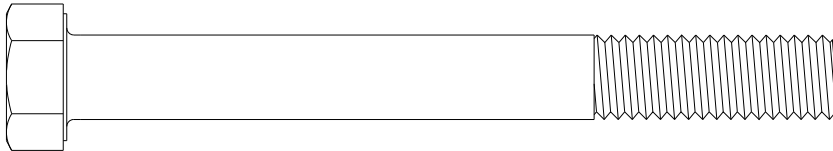
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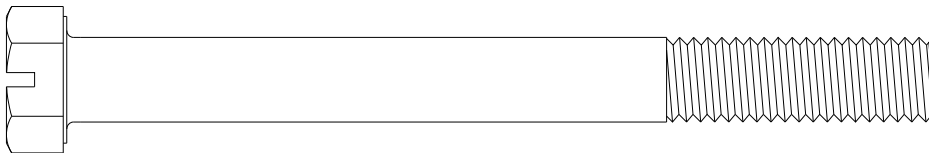
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SCALE



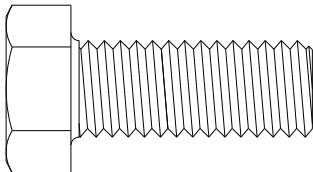
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

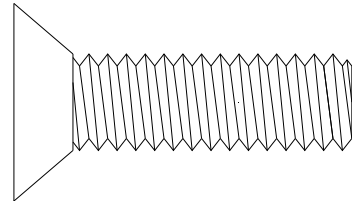


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

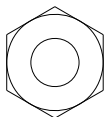
001-0186 - 3/8" X 1 1/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



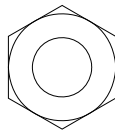
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



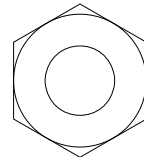
001-0139 - 1/2" X 1 3/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



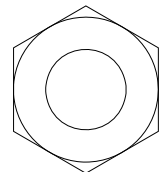
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

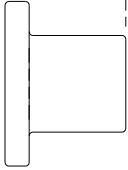
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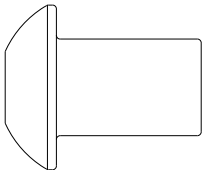
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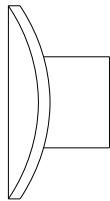
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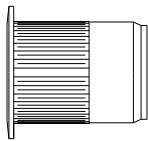
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



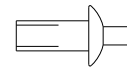
002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



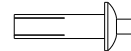
002-0042 - 3/8" NUT INSERT



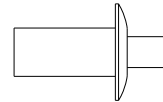
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



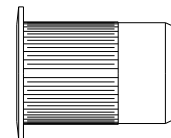
019-0010 - 5/32" X 3/8" DRIVE RIVET



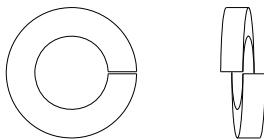
019-0016 - 1/8" X 15/32" DRIVE RIVET



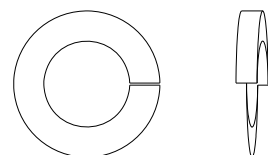
019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0022 - 3/8" LOCK WASHER



021-0027 - 7/16" LOCK WASHER

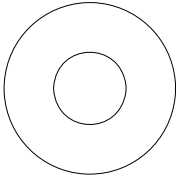
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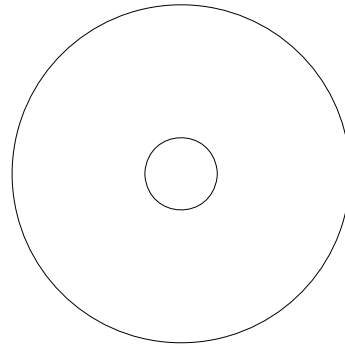
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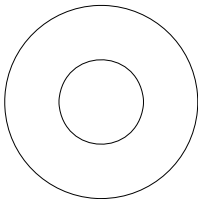
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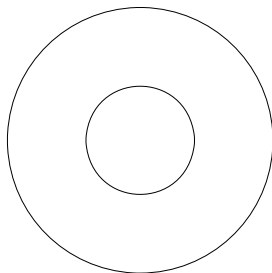
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



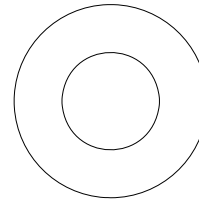
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



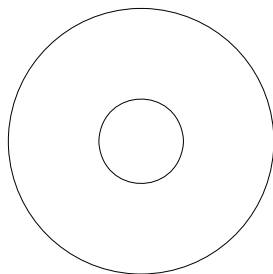
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



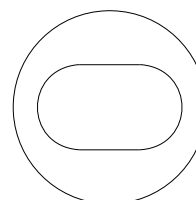
021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

BCI Burke Company, LLC

660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566

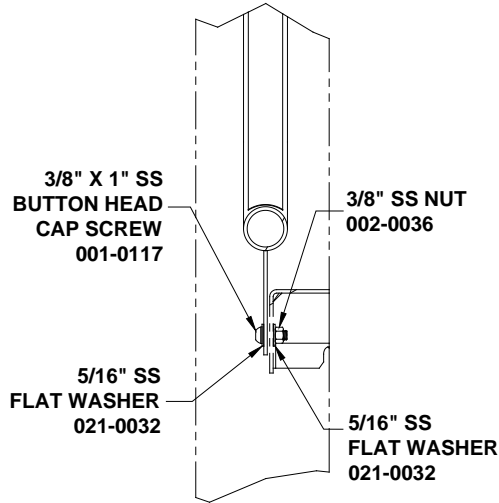
www.bciburke.com

Installation Instructions

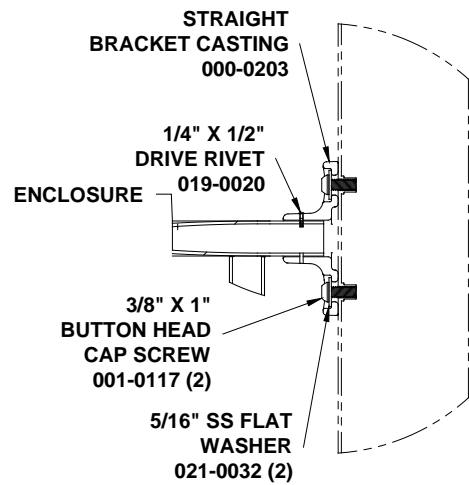
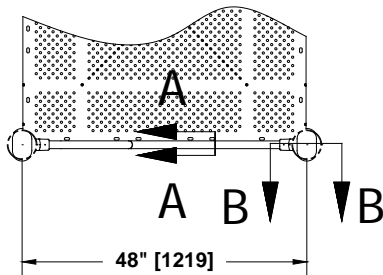
BCI Burke Company, LLC

660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566

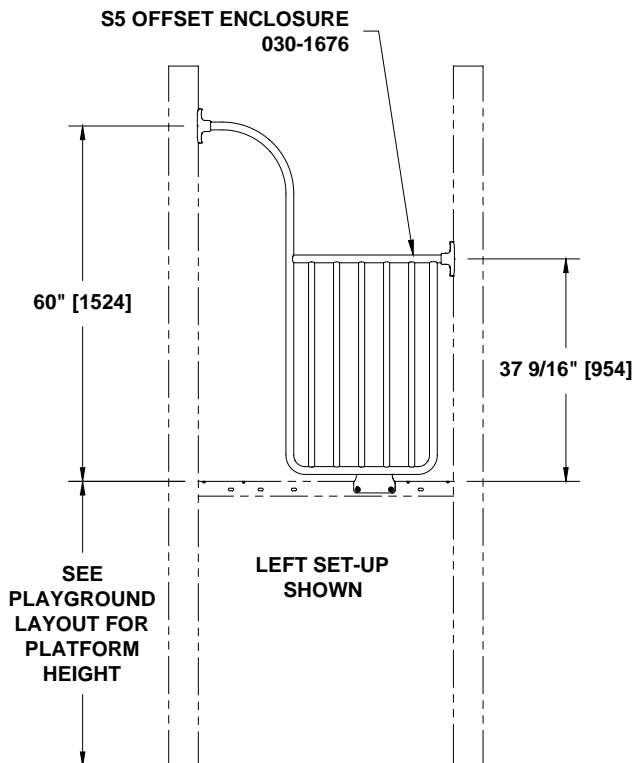
www.bciburke.com



SECTION A-A
(2 PLACES)



SECTION B-B
(2 PLACES)



270-0001 OFFSET ENCLOSURE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1676	S5 OFFSET ENCLOSURE	1
036-1284	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 OFFSET ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and 10 GA sheet steel. Finished with a baked on powder coating.

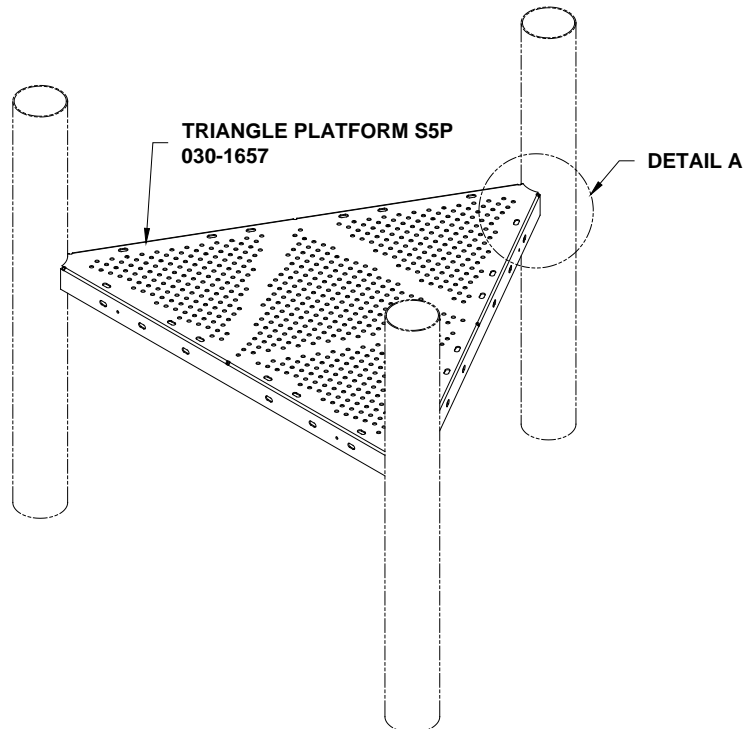
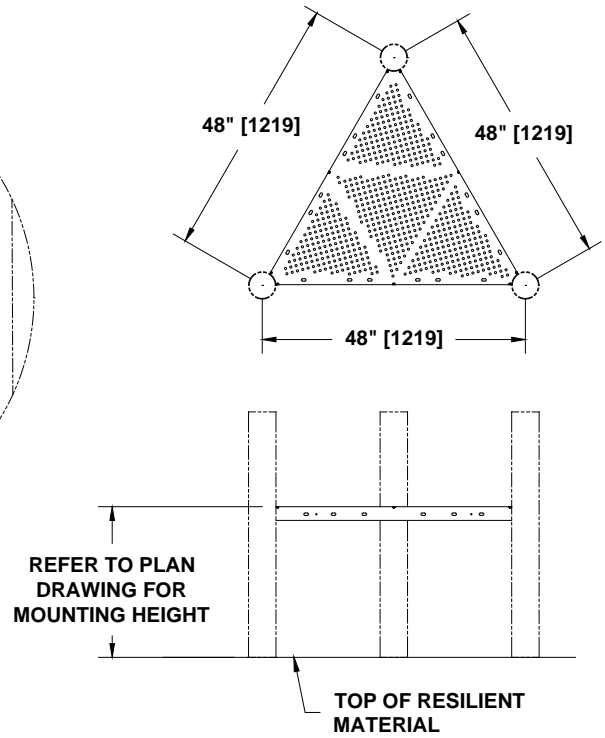
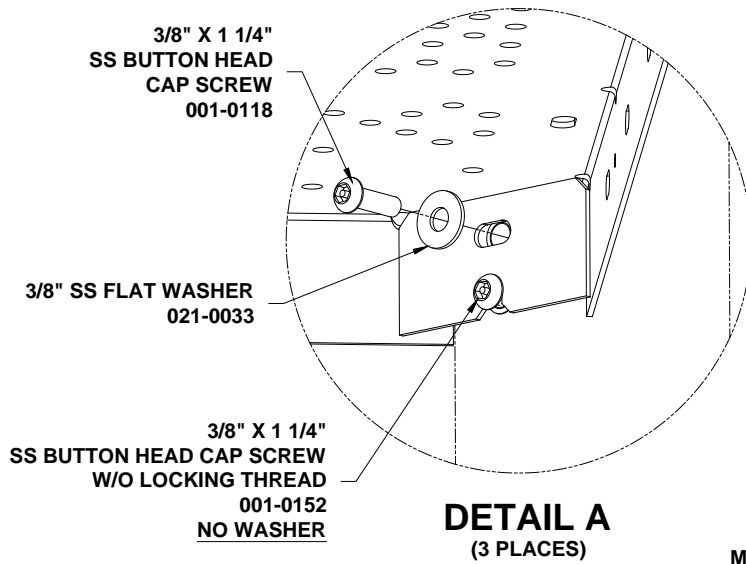
HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 30 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

1. Locate holes for BRACKETS CASTINGS to 5" O.D. posts as per dimensions shown.
2. Insert bracket castings onto ends of OFFSET ENCLOSURE and attach bracket castings to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
3. Attach bottom of pipe wall to platform using 3/8" x 1" SS button head cap screws, 5/16" SS washers and 3/8" SS nuts. Tighten all hardware. See SECTION A-A.
4. Drill 1/4" diameter holes through pilot hole in casting and into enclosure. See SECTION B-B.
5. Drive rivets flush with brackets.
6. Tighten All Hardware.



**270-0129
TRIANGLE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1657	TRIANGLE PLATFORM S5P	1
036-1100	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TRIANGLE PLATFORM S5P: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

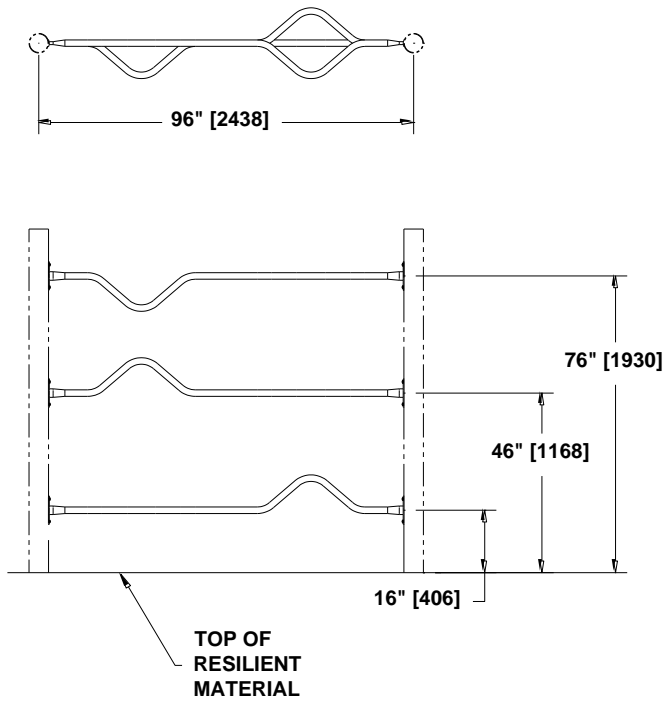
SHIPPING WEIGHT: 48 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

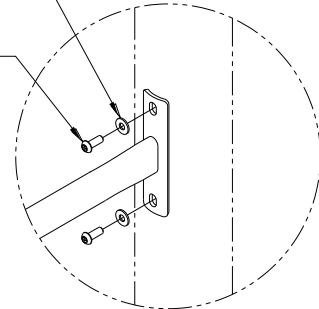
NOTE: Do not tighten hardware until instructed to do so.

1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the three corners of the TRIANGLE PLATFORM S5P on the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Tighten all hardware.
7. Pour concrete. Let set for two to three days.
8. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

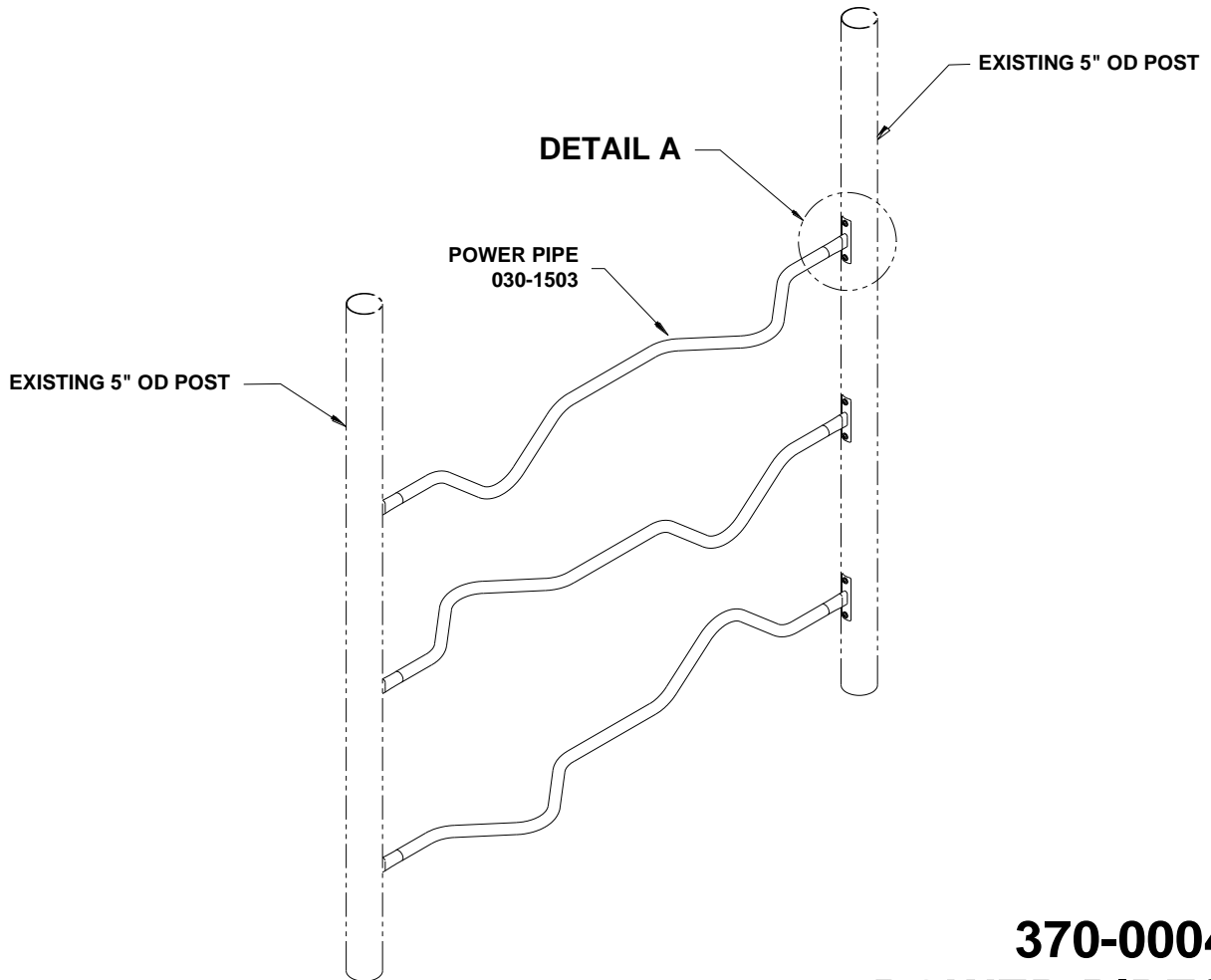


5/16" SS FLAT WASHER
021-0032 (6x)

3/8" X 1" SS BUTTON
HEAD CAP SCREW
001-0117 (6x)



DETAIL A



370-0004 POWER PIPES

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1503	POWER PIPE	3
036-0258	HARDWARE PACKAGE	6

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

POWER PIPE: One piece all welded construction consisting of formed 1.600" OD x 12 GA galvanized steel tubing and 7 GA stainless steel sheet. Finished with a baked on powder coating.

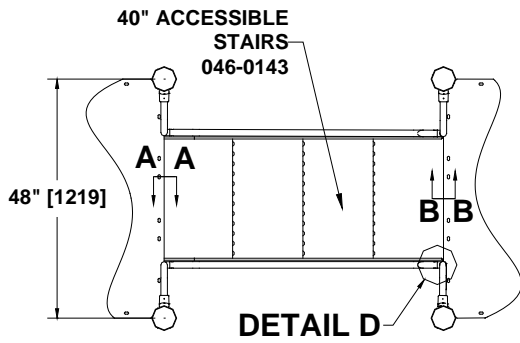
HARDWARE PACKAGE: Stainless steel.

SHIPPING WEIGHT: 48 LBS.

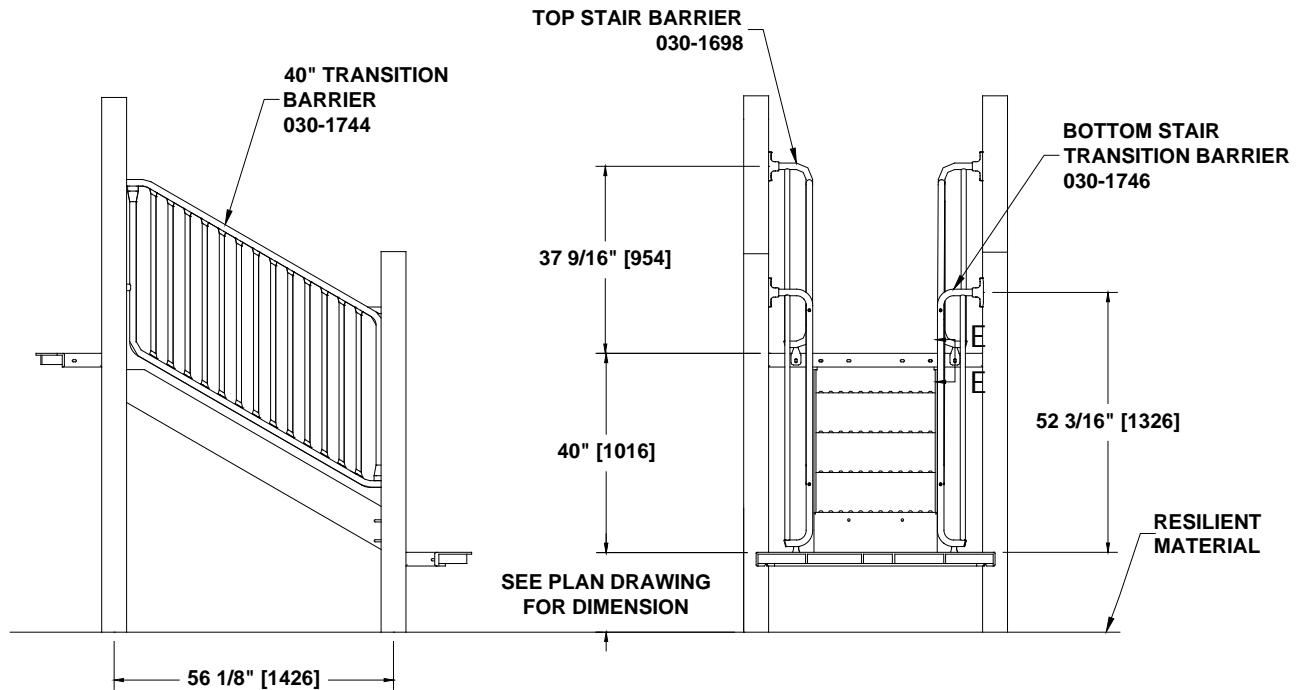
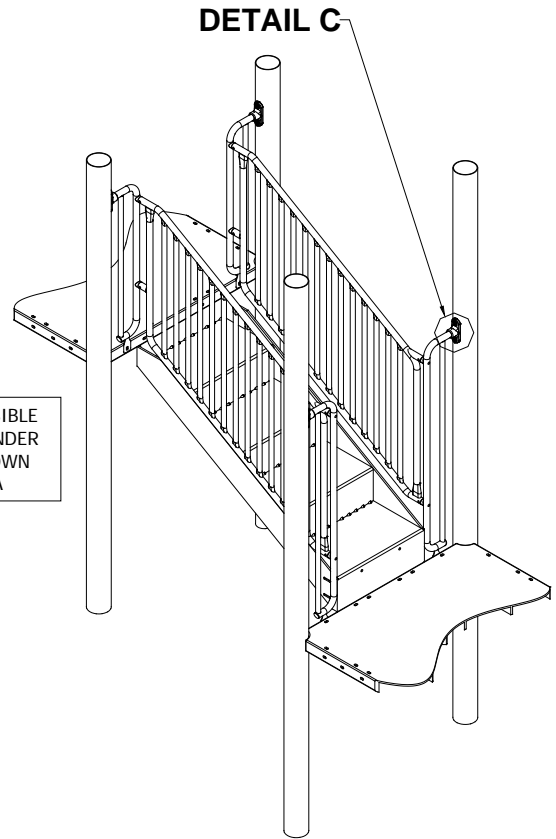
INSTALLATION INSTRUCTIONS

1. Attach POWER PIPES to posts using 3/8" x 1" SS button head cap screw and 5/16" SS flat washer. See DETAIL A.
2. Tighten all hardware.
3. **INSTALL RESILIENT SURFACING MATERIAL IN ACCORDANCE TO INSTALLATION GUIDELINES.**

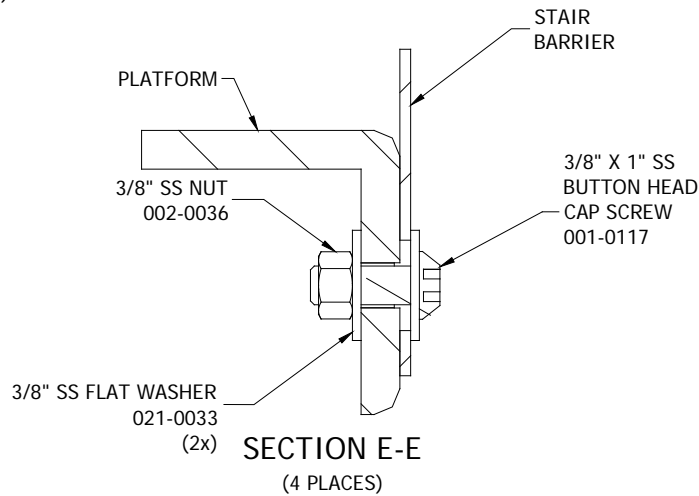
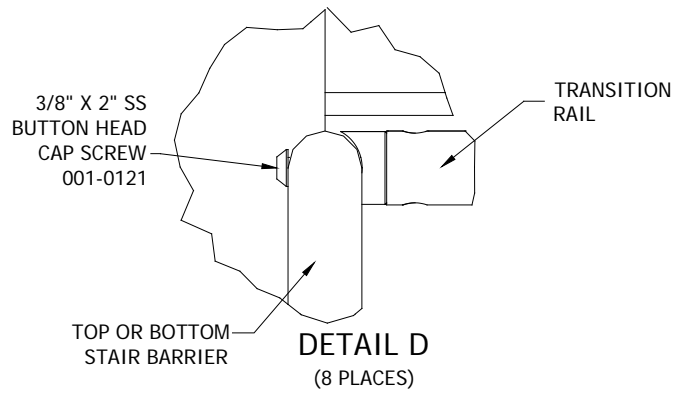
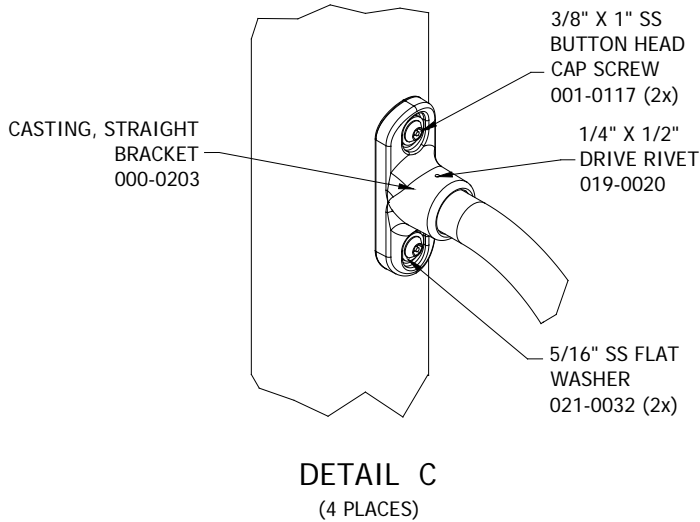
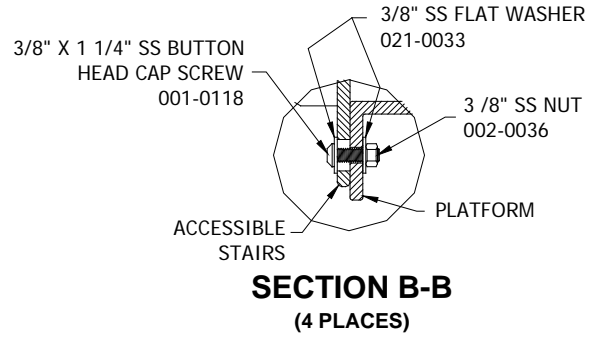
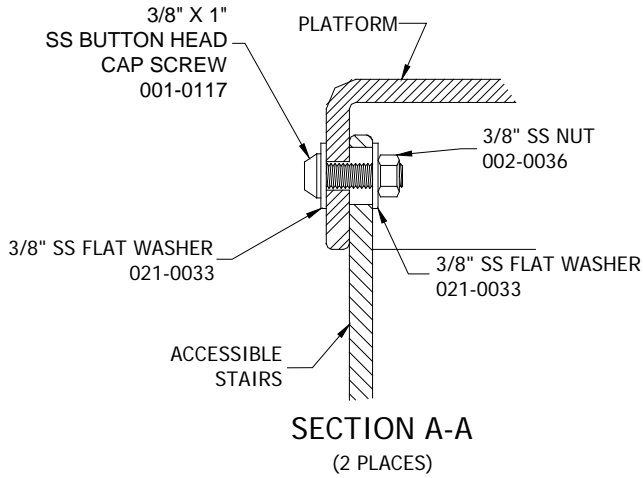
370-0004.doc Description: POWER PIPES CLIMBER
REV: 00 PCN: 07-0016 11/15/2007



TOP OF 40" ACCESSIBLE STAIR MOUNTED UNDER PLATFORM AS SHOWN IN SECTION A-A



370-0469
40" TRANSITION STAIR W/BARRIERS



370-0469 40" TRANSITION STAIR W/BARRIERS

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	4
030-1698	TOP STAIR BARRIER	2
030-1744	40" TRANSITION BARRIER	2
030-1746	BOTTOM STAIR TRANSITION BARRIER	2
036-1125	HARDWARE PACKAGE	1
046-0143	40" ACCESSIBLE STAIRS	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

TOP STAIR BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing and 10 GA galvanized steel plate. Finished with a baked on powder coating.

40" TRANSITION BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing, malleable iron plug and 10 GA galvanized steel plate. Finished with a baked on powder coating.

BOTTOM STAIR TRANSITION BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing and 10 GA galvanized steel plate. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

40" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

SHIPPING WEIGHT: 279 LBS.

INSTALLATION INSTRUCTIONS

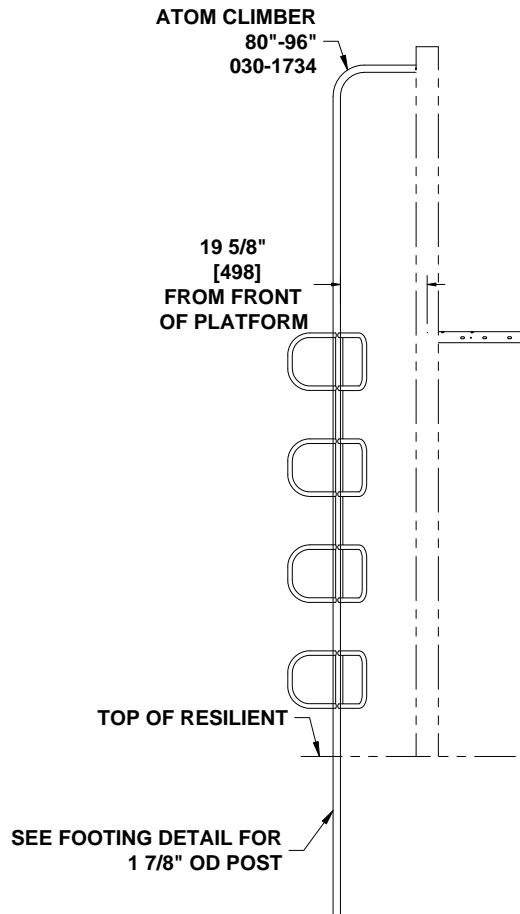
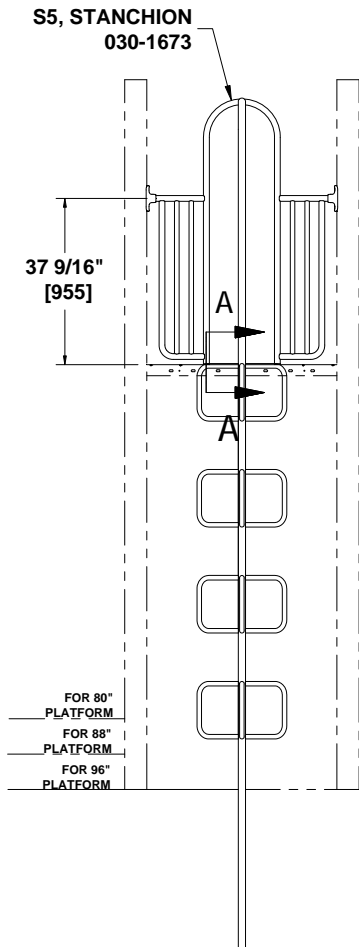
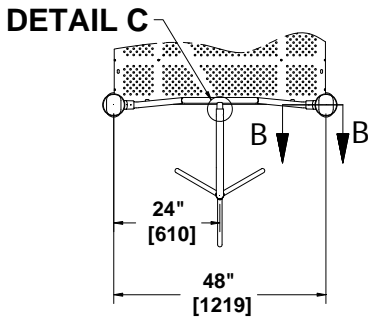
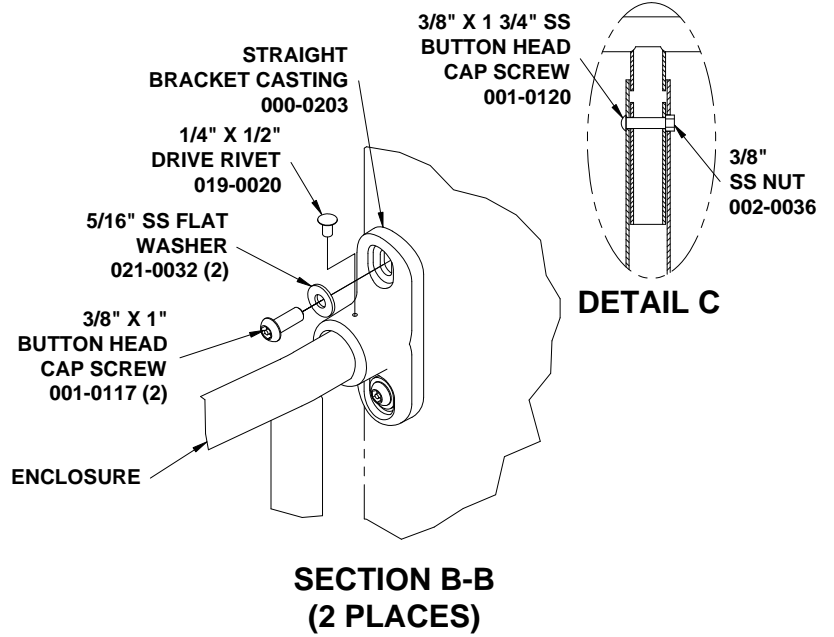
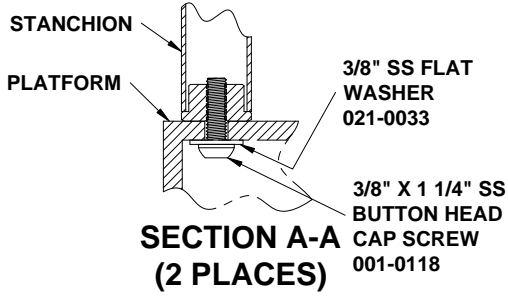
N NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Install platforms. See appropriate installation instructions.
2. Attach 40" ACCESSIBLE STAIRS to upper platform using 3/8" x 1" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. **NOTE: Make sure the stairs are centered between the posts.** See SECTION A-A.
3. Attach 40" accessible stairs to lower platform using 3/8" x 1 1/4" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. **NOTE: Make sure the stairs are centered between the posts.** See SECTION B-B.
4. Attach STRAIGHT BRACKET CASTINGS to 5" OD posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
5. Attach TOP STAIR BARRIER to 40" TRANSITION BARRIER using 3/8" x 2" SS button head cap screws. See DETAIL D.
6. Attach BOTTOM STAIR TRANSITION BARRIER to 40" TRANSITION BARRIER using 3/8" x 2" SS button head cap screws. See DETAIL D.
7. Sleeve TOP STAIR BARRIER and BOTTOM STAIR TRANSITION BARRIER into straight bracket castings. Attach bottom of barriers to platforms using 3/8" x 1" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. See FRONT PAGE of this installation print for orientation. Also see DETAIL C and SECTION E-E.
8. Repeat steps 5 thru 7 for the opposite side of the stair.
9. Tighten all hardware.
10. Drill 1/4" diameter holes thru brackets and barriers. Insert 1/4" diameter drive rivets and pound center pins flush to engage rivets. Apply touch up paint to exposed heads of rivets.
11. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



8/28/2009



370-0556
ATOM CLIMBER, 80"-96"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1673	S5 STANCHION	1
030-1734	ATOM CLIMBER 80"-96"	1
036-0737	HARDWARE PACKAGE	1
036-0819	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 STANCHION: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and HDPE threaded inserts. Finished with a baked on powder coating.

ATOM CLIMBER 80"-96": One piece all welded construction consisting of 1.660" OD x 12 GA & 1.029" OD x 14 GA galvanized steel tubing finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, nuts and flat washers; zinc plated steel self tapping screws; aluminum drive rivets.

HARDWARE PACKAGE: Aluminum Rivets

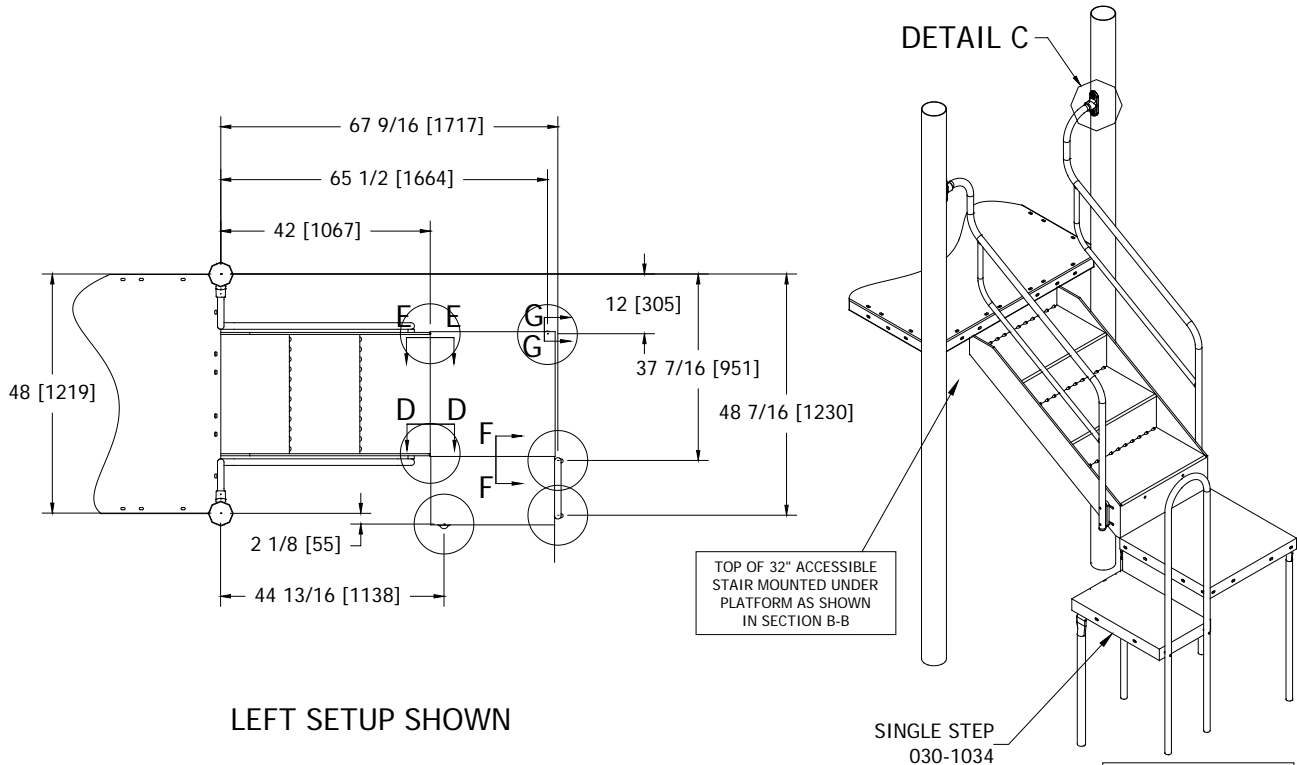
SHIPPING WEIGHT: 86 LBS.

INSTALLATION INSTRUCTIONS

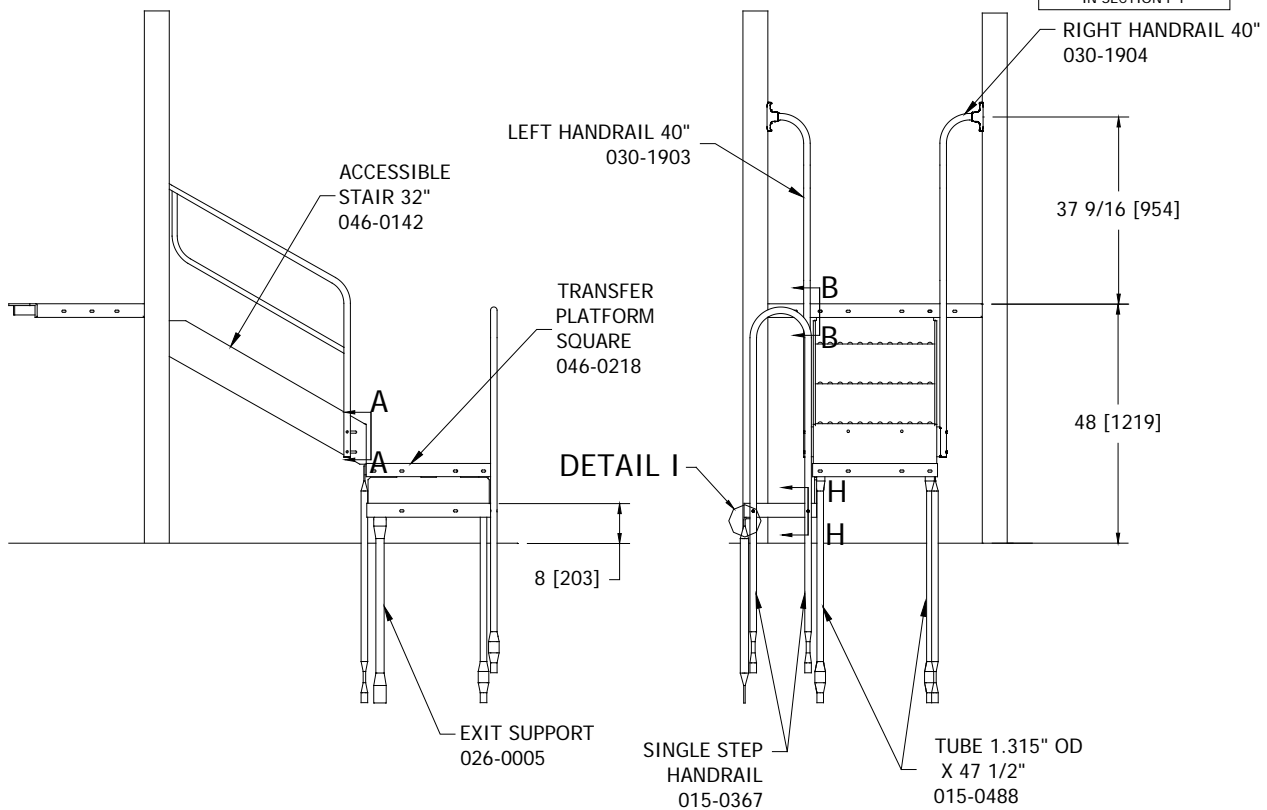
NOTE: Plastisol coating may need to be removed from mounting holes on platform before installing this climber.

1. Locate and dig footing hole as per dimensions shown. See typical concrete footing details, which are located in the preface of your installation manual.
2. Locate mounting holes for STANCHION on 5" O.D. posts.
3. Set STRAIGHT BRACKET CASTING over ends of stanchion. Position stanchion with brackets into opening. Install 3/8" x 1" BUTTON HEAD CAP SCREWS and 5/16" WASHERS through upper holes of brackets and into 5" O.D. posts. See SECTION B-B.
4. Rotate stanchion up 90 degrees and install 3/8" x 1" BUTTON HEAD CAP SCREWS and 5/16" WASHERS into bottom holes of brackets. See SECTION B-B Tighten all hardware.
5. Rotate stanchion down to align holes in platform with stanchion nutserts.
6. Attach stanchion to platform using 3/8" x 1 1/4" BUTTON HEAD CAP SCREWS and 3/8" WASHERS. See SECTION A-A. Tighten all hardware.
7. Drill 1/4" diameter holes through pilot hole in casting and into stanchion. See SECTION B-B.
8. Drive rivets flush with brackets and handrails.
9. Position ATOM CLIMBER into footing hole and attach to stanchion using 3/8" x 1 3/4" BUTTON HEAD CAP SCREWS and 3/8" NUT. See DETAIL C. Tighten all hardware.
10. Block-up and plumb.
11. Pour concrete and allow concrete to set for 2-3 days.
12. Install resilient surfacing material.

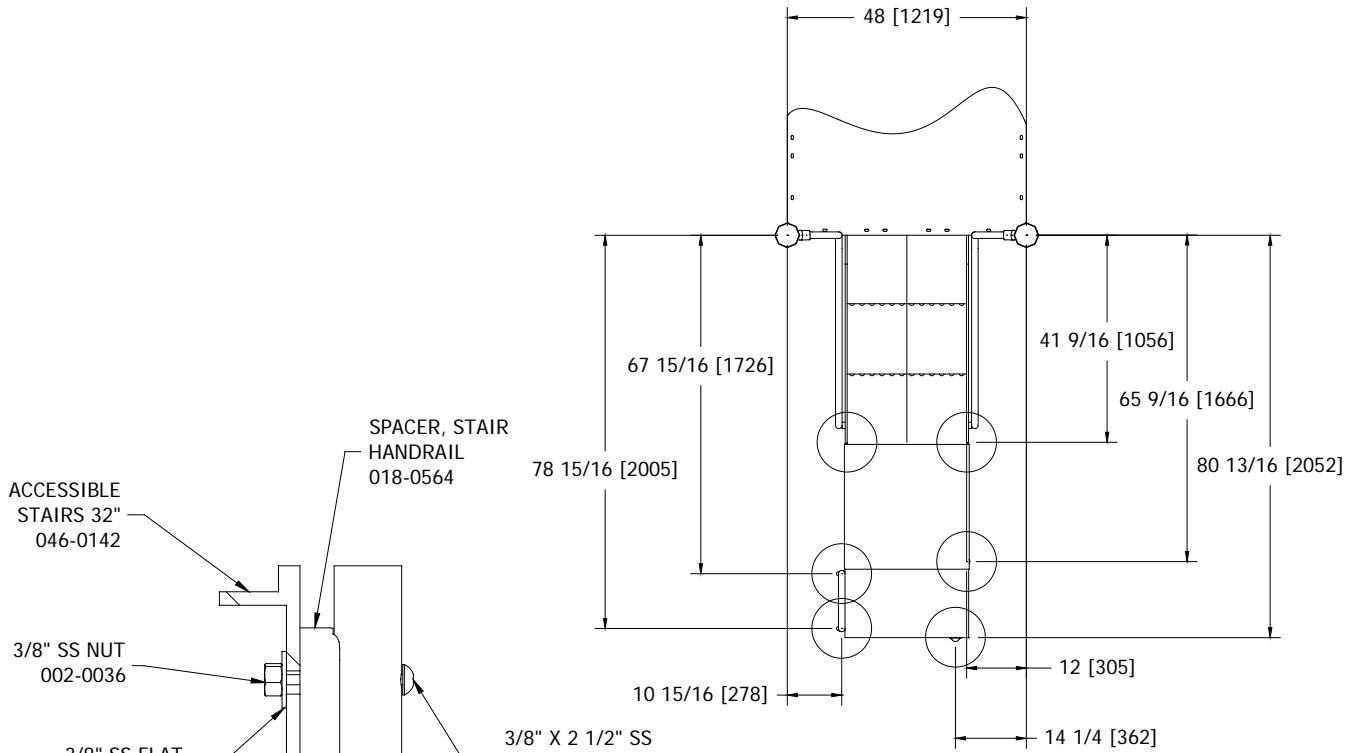
370-0556.doc Description: ATOM CLIMBER 80"-96"
REV: 00 PCN: 09-0086 8/28/2009



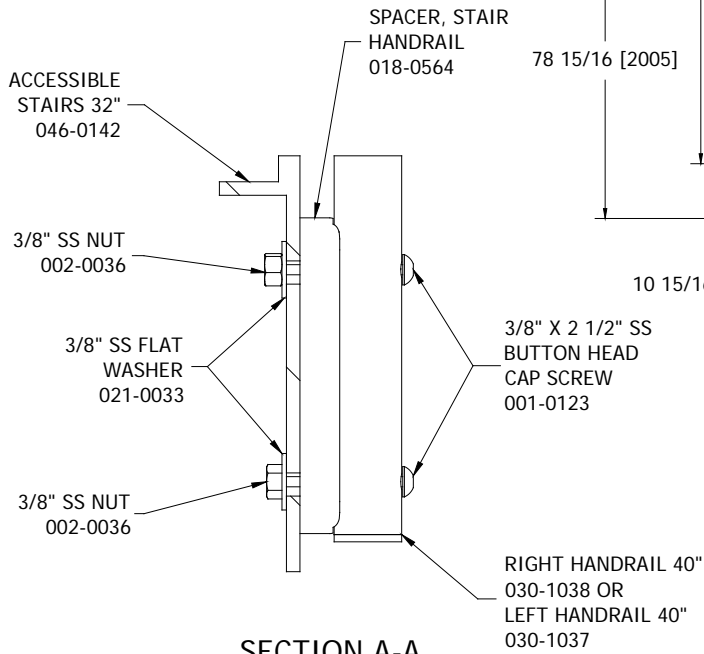
LEFT SETUP SHOWN



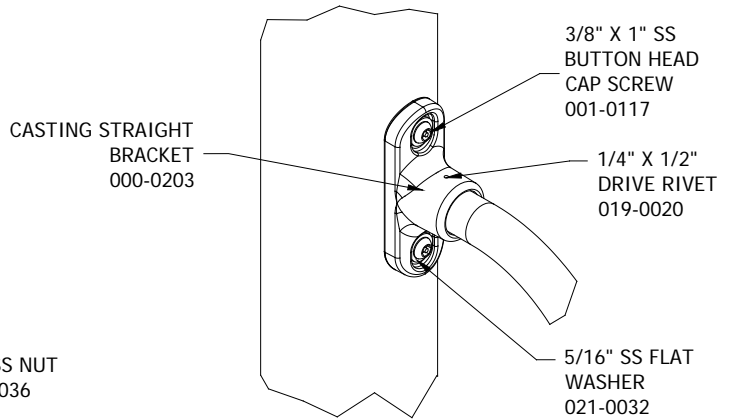
370-0720 TRANSFER STATION, HANDRAIL 48"



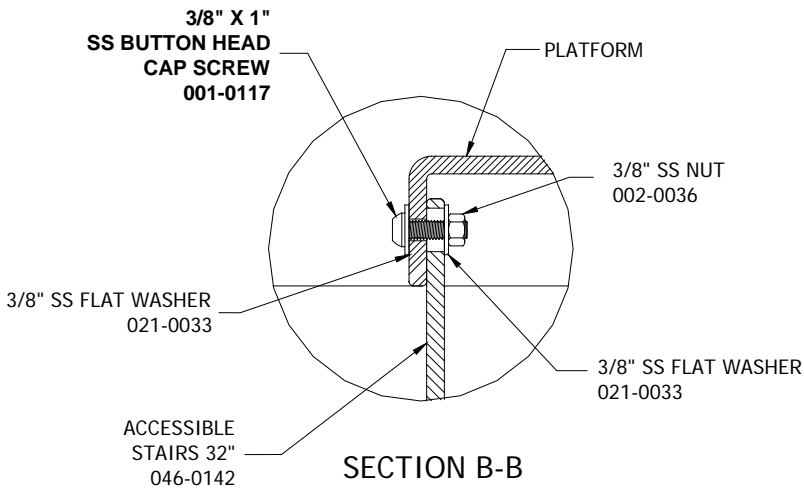
OPTIONAL SETUP



SECTION A-A
2 PLACES

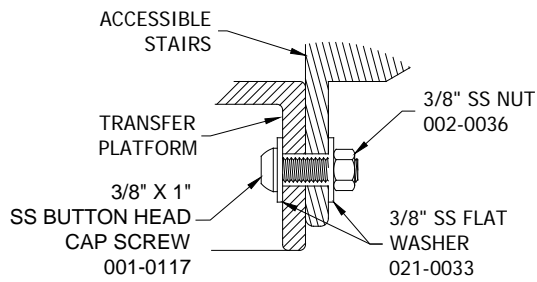


DETAIL C
2 PLACES

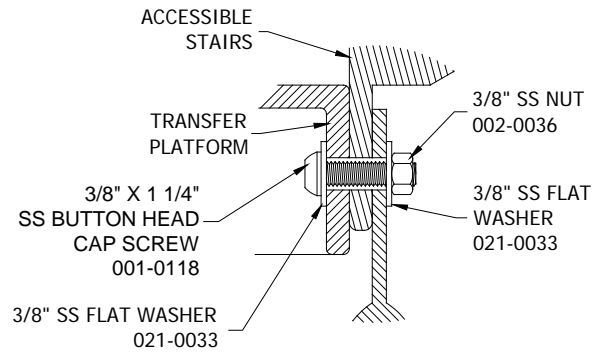


SECTION B-B
2 PLACES

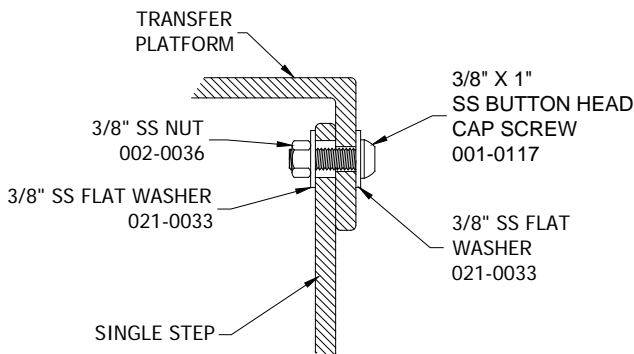
370-0720 TRANSFER STATION, HANDRAIL 48"



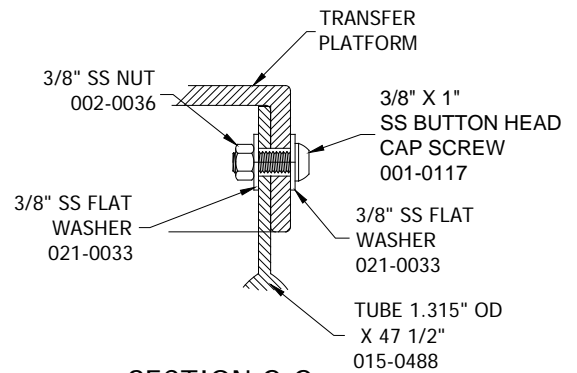
SECTION D-D
2 PLACES



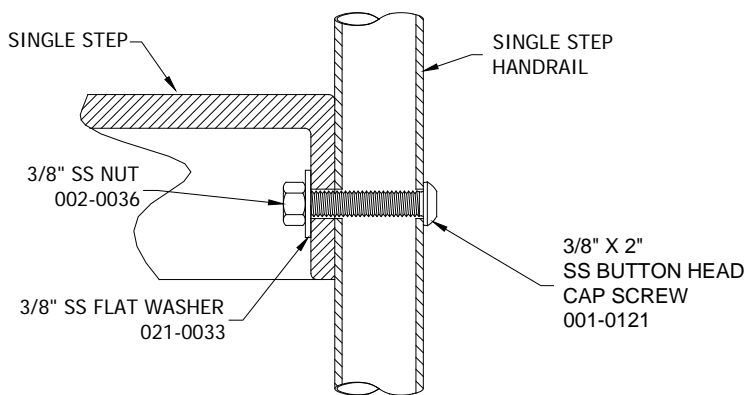
SECTION E-E
2 PLACES



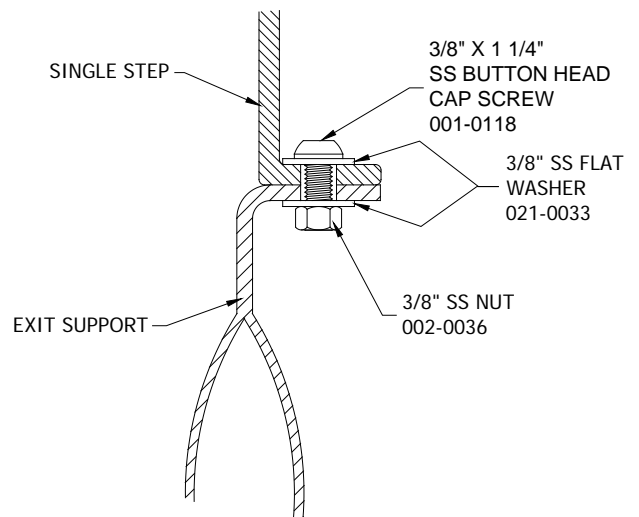
SECTION F-F
2 PLACES



SECTION G-G



SECTION H-H
2 PLACES



DETAIL I

370-0720

TRANSFER STATION, HANDRAIL 48"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
015-0367	SINGLE STEP HANDRAIL	1
015-0488	TUBE 1.315" OD X 47 1/2"	3
018-0564	SPACER, STAIR HANDRAIL	2
026-0005	SUPPORT, EXIT, 37.29"	1
030-1034	SINGLE STEP	1
030-1903	LEFT HANDRAIL 40"	1
030-1904	RIGHT HANDRAIL 40"	1
036-1123	HARDWARE PACKAGE	1
046-0142	32" ACCESSIBLE STAIRS	1
046-0218	SQUARE TRANSFER PLATFORM	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

SINGLE STEP HANDRAIL: Formed 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

TUBE 1.315" OD X 47 1/2": 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

SPACER, STAIR HANDRAIL: 3/4" extruded HDPE.

SUPPORT, EXIT, 37.29": 1.660" OD x 13 GA galvanized steel tubing finished with a baked on powder coating.

SINGLE STEP: One piece all welded construction consisting of 12 GA surfaces and gussets. PVC coated after fabrication.

LEFT HANDRAIL 40"; RIGHT HANDRAIL 40": One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 14 GA galvanized steel tubing, and 10 GA galvanized steel cap. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

32" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

SQUARE TRANSFER PLATFORM: One piece all welded construction consisting of 12 GA surfaces, gussets, and corners. PVC coated after fabrication.

SHIPPING WEIGHT: 236 LBS.

INSTALLATION INSTRUCTIONS

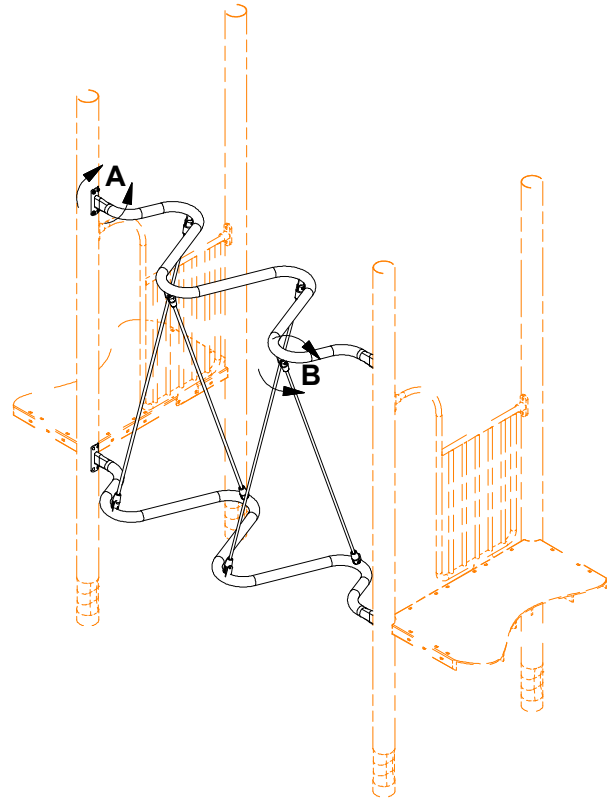
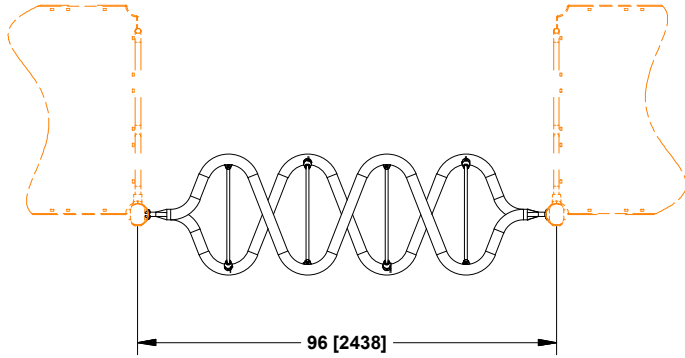
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Install platforms. See appropriate installation instructions.
2. Dig footing holes per dimensions shown. See concrete footing drawing for 1.315" OD and 1.660" OD tubing, which is located in the preface of your installation manual.
3. Attach TUBES and TRANSFER PLATFORM to 32" ACCESSIBLE STAIRS using 3/8" x 1 1/4" SS button head cap screws with tubes, 3/8" x 1" SS button head cap screws without tubes, 3/8" SS nuts and 3/8" SS flat washers. Refer to SECTION D-D and E-E.
4. Attach Tube to Transfer Platform using 3/8" x 1" SS button head cap screw, 3/8" SS nut and 3/8" SS flat washers. Refer to SECTION G-G.
5. Attach SINGLE STEP to TRANSFER PLATFORM using 3/8" x 1" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION F-F.
6. Attach EXIT SUPPORT to Single Step using a 3/8" x 1 1/4" SS button head cap screw, 3/8" SS washers and a 3/8" SS nut. See DETAIL I.
7. Attach SINGLE STEP HANDRAIL to side of Single Step using 3/8" x 2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION H-H. **Note: the heads of the button head cap screws must be on the outside of the step assembly.**
8. Position transfer station assembly into footing holes. Attach Accessible Stair to platform using, 3/8" x 1" SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. Do not tighten nuts. See SECTION B-B.
9. Block-up and level transfer station assembly.
10. Attach CASTING STRIGHT BRACKETS to 5" OD posts using 3/8" X 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
11. Sleeve RIGHT AND LEFT HANDRAILS onto brackets. See DETAIL C.
12. Attach right and left handrails to Accessible Stairs using STAIR HANDRAIL SPACER, 3/8" x 2 1/2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. **Note: the head of the button head cap screw must be on the outside of the stair.** See SECTION A-A.
13. Drill 1/4" diameter holes through pilot holes on handrails and into mount brackets. Insert drive rivets and drive flush with handrails. See DETAIL C.
14. Tighten all hardware.
15. Pour concrete and allow concrete to set for 2-3 days.
16. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

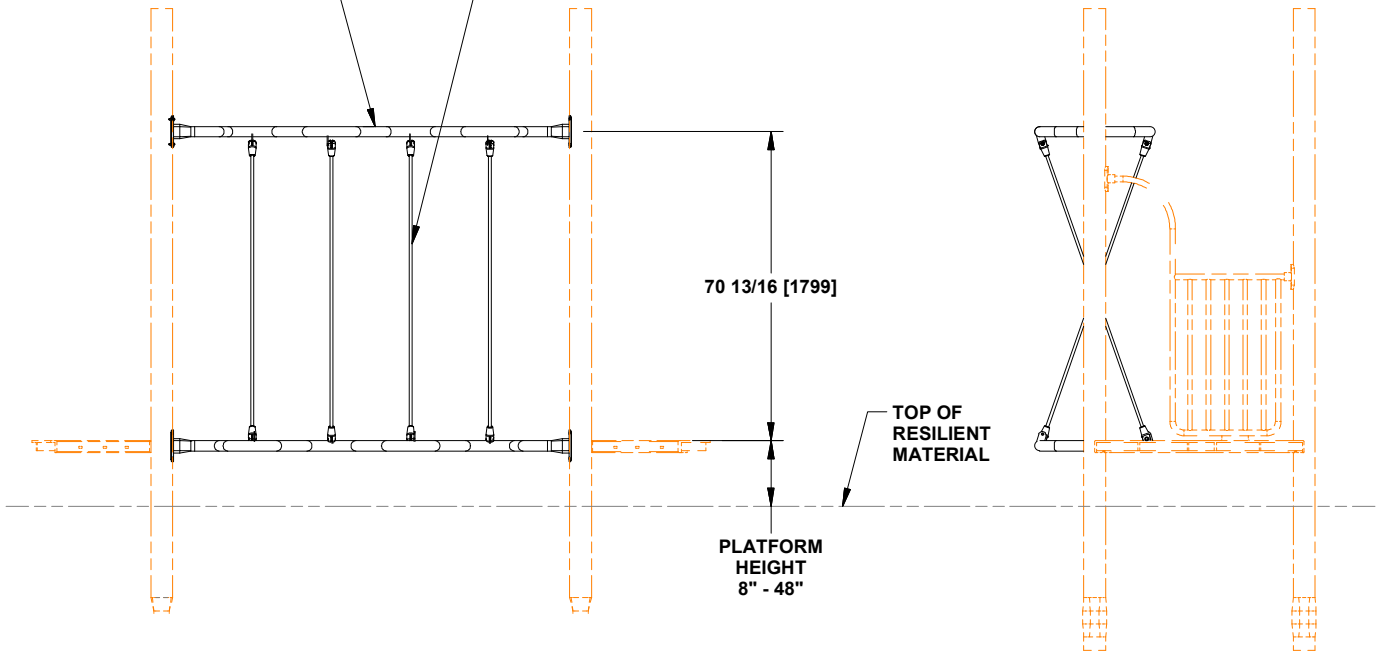


UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



WAVY WELDMENT 030-0192 2 X

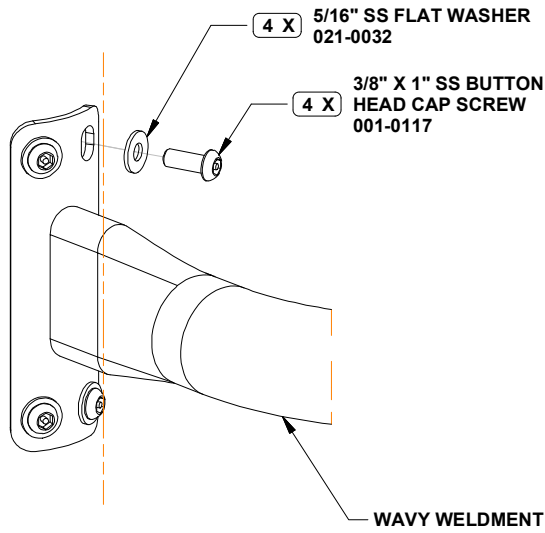
4 X ROPE ASSEMBLY, SINGLE, 71 3/4" 020-0016



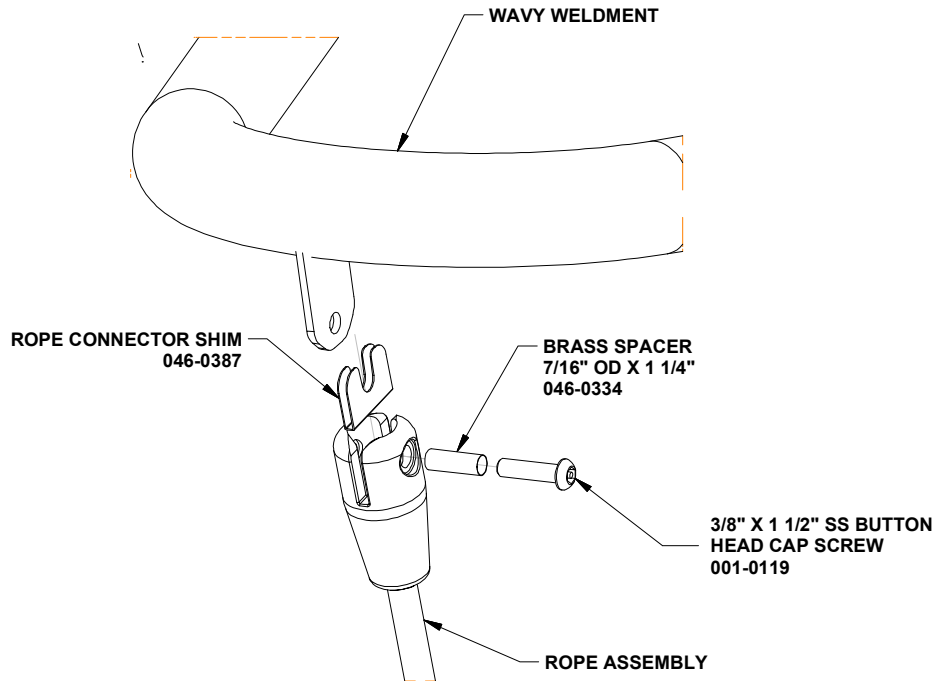
370-0808 TWISTING TRAVERSE



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



**DETAIL A
(4 PLACES)**



**DETAIL B
(8 PLACES)**

370-0808 TWISTING TRAVERSE

PARTS LIST

PART NO.	DESCRIPTION	QTY
020-0016	ROPE ASSEMBLY, SINGLE, 71 3/4"	4
030-0192	WAVY WELDMENT	2
036-0818	INTENSITY SHIM PACKAGE	2
036-1311	HARDWARE PACKAGE	3
046-0334	BRASS SPACER 7/16" OD X 1 1/4"	8

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

ROPE ASSEMBLY, SINGLE, 71 3/4": Rope consists of 6 right hand, regular lay strands, closed around a synthetic fiber core, with each preformed strand consisting of 8 galvanized steel wires tightly covered with multifilament polypropylene fibers. Aluminum end connectors and ferrules with stainless steel screws.

WAVY WELDMENT: All welded constructions consisting of 2.375" OD x 12 GA galvanized steel tubing, 7 GA stainless steel sheet & 8 GA galvanized steel sheet. Finished with a baked on powder coating.

INTENSITY SHIM PACKAGE: Black thermoplastic.

HARDWARE PACKAGE: Stainless steel.

BRASS SPACER 7/16" OD X 1 1/4": Brass Tube 7/16" OD X .028" Wall

SHIPPING WEIGHT: 103 LBS.

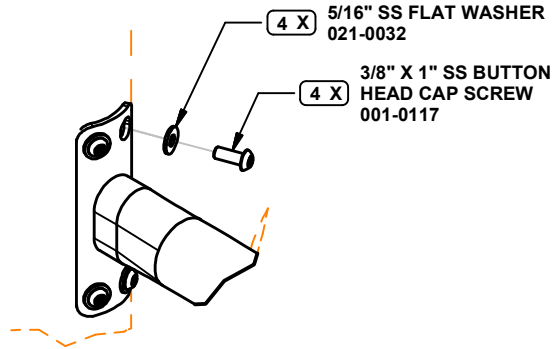
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

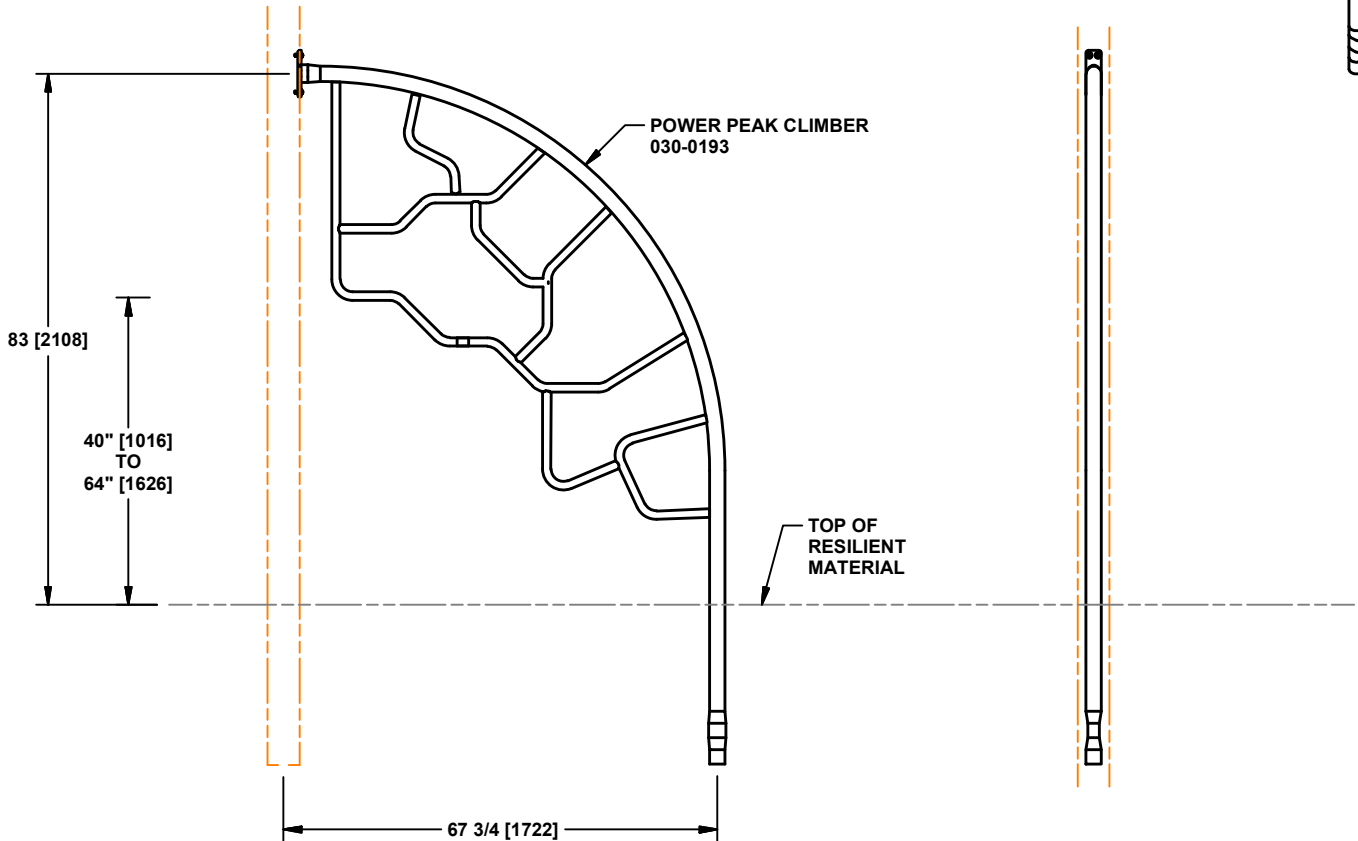
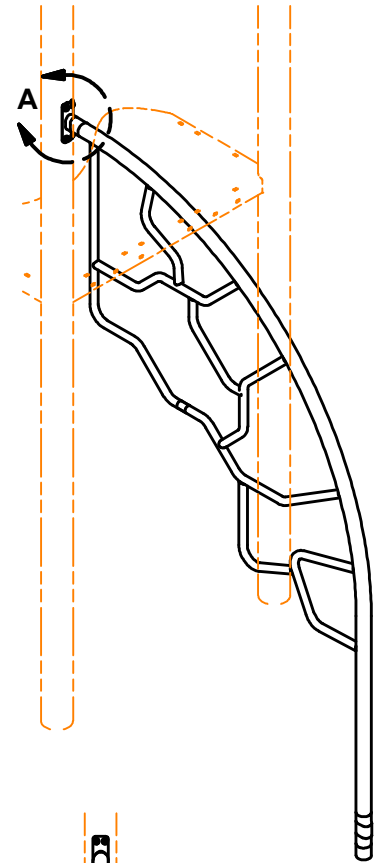
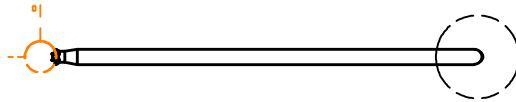
1. Locate mounting holes for WAVY WELDMENT on posts.
2. Attach wavy weldment to posts using hardware specified in DETAIL A.
3. Attach ROPE ASSEMBLY, SINGLE, 71 3/4" to wavy weldments using hardware specified in DETAIL B.
4. Tighten all hardware.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



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DETAIL A



370-0809 POWER PEAK W/OUT PANELS

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-0193	POWER PEAK CLIMBER	1
036-0258	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

POWER PEAK CLIMBER: One piece all welded construction consisting of formed 2 3/8" OD x 10 GA galvanized steel tubing, 7 GA stainless steel sheet and 1.315" OD X 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

SHIPPING WEIGHT: 68 LBS.

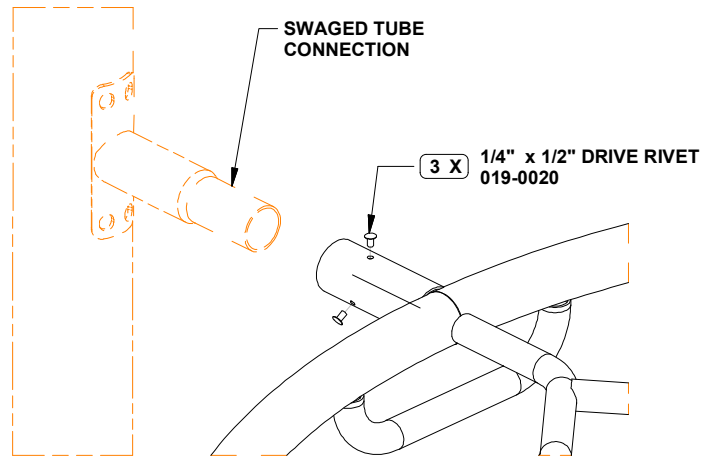
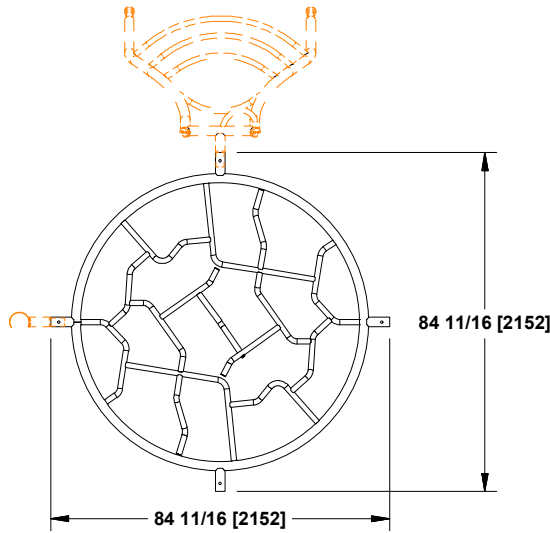
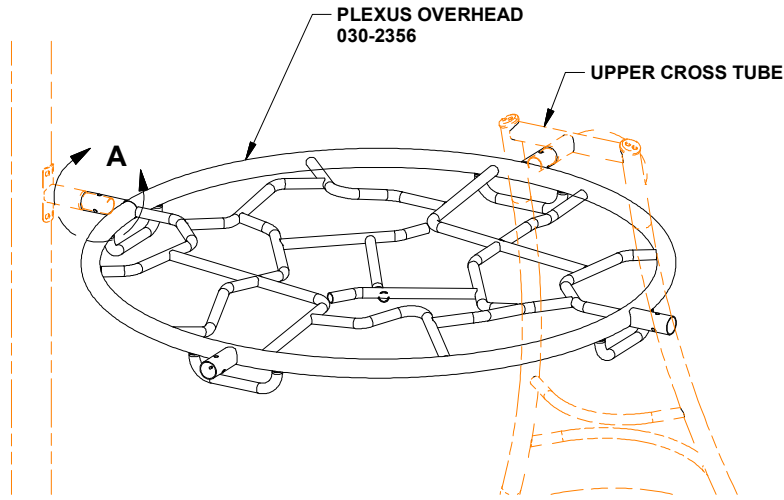
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

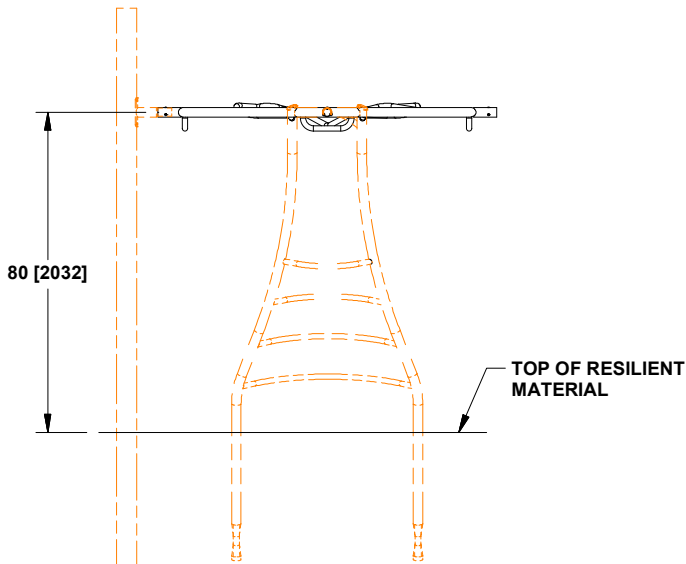
1. Locate and dig footing hole as per dimensions shown. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach POWER PEAK CLIMBER to posts using hardware specified in DETAIL A.
3. Tighten all hardware.
4. Pour concrete. Let set for two to three days.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



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DETAIL A
4 PLACES



370-0829 PLEXUS OVERHEAD

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-2356	PLEXUS OVERHEAD	1
036-1184	HARDWARE PACKAGE	3

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PLEXUS OVERHEAD: One piece all welded construction consisting of formed 2 3/8" OD x 12 GA & 1.315" OD x 14 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Aluminum rivets with stainless steel pins.

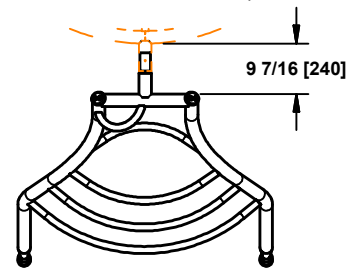
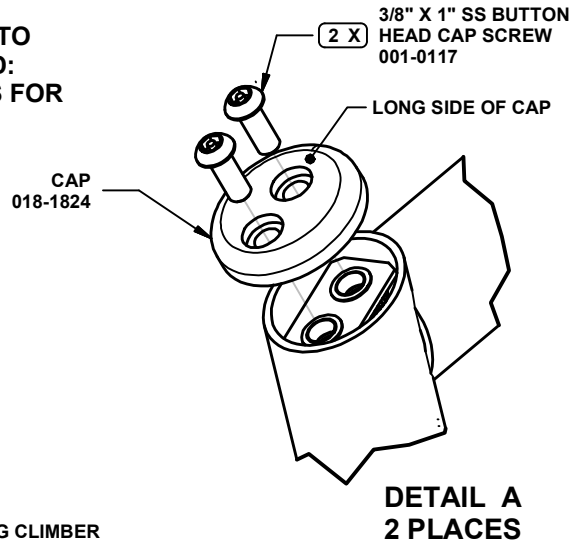
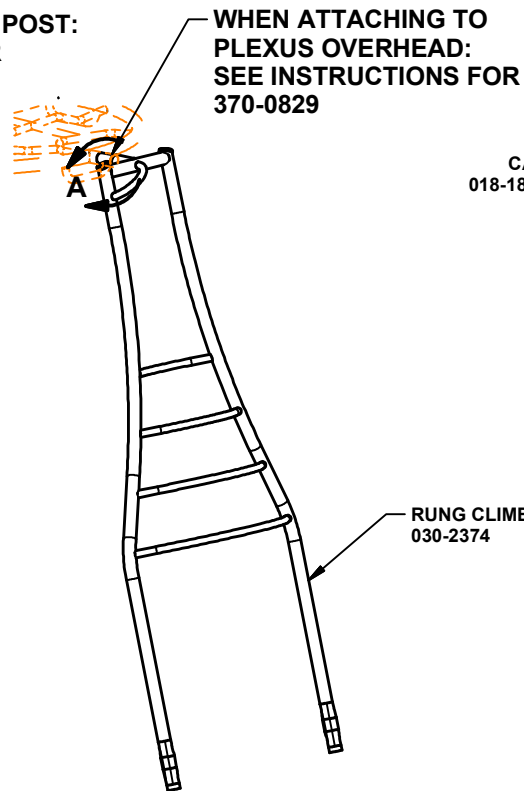
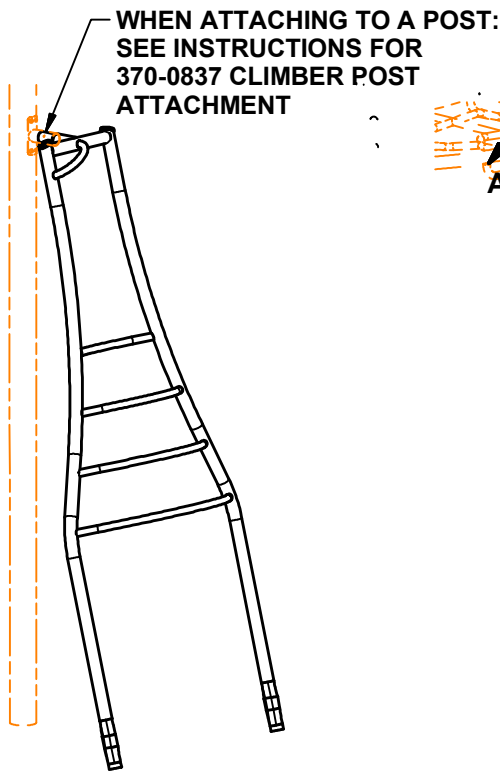
SHIPPING WEIGHT: 96 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of Plexus Overhead and four attached components from site plan.
2. Slide the swaged tube connection of the climbers or overhead post bracket into the tube connections of the PLEXUS OVERHEAD. See specific mating component installation instructions for attachment. Make sure the climbers are rotated on the swaged tube connection so that the sides of the climbers are perpendicular and the upper cross tube is horizontal. Make sure the overhead ring is level.
4. Once the overhead ring and all climbers or post attachments are in place, install rivets at each of the 4 connection points. Using the 3 holes in each of the 4 connection points of the overhead climber as a guide, drill 1/4" diameter holes through the inner tube. Insert 1/4" drive rivets and pound center pins flush to engage rivets. Apply touch up paint to exposed heads of rivets.
5. Pour concrete in footings for components attached to the overhead and let stand for 2 to 3 days.
6. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

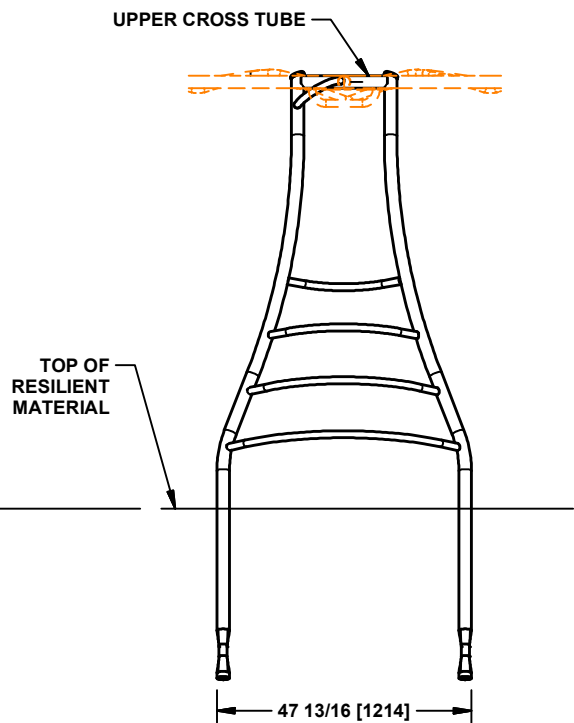
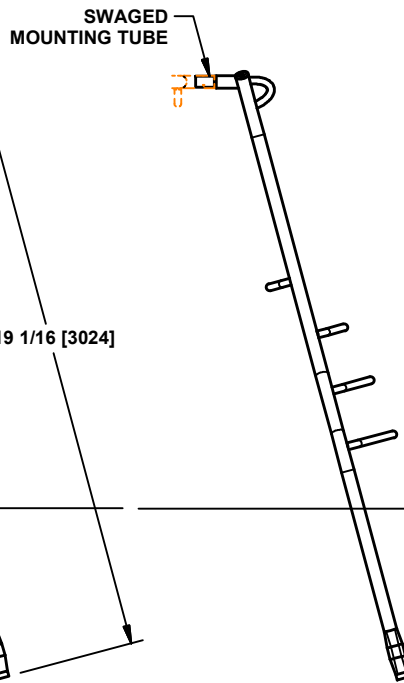
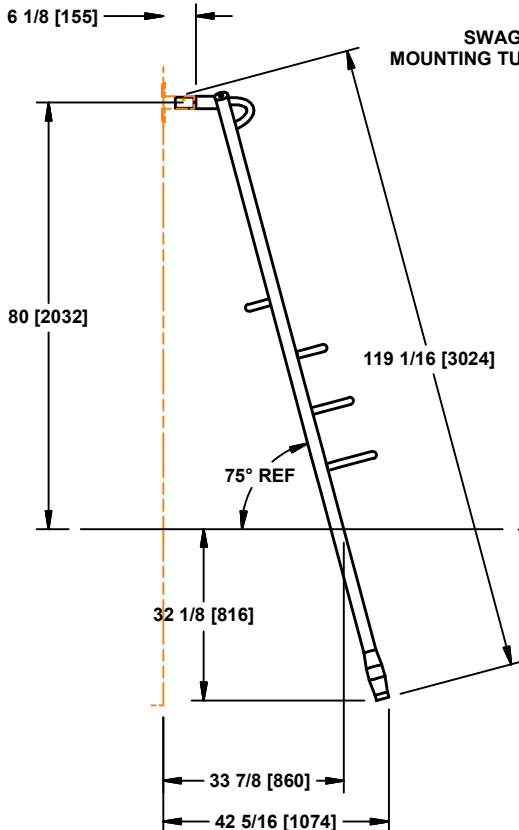


UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



ATTACHED TO A POST

ATTACHED TO PLEXUS OVERHEAD



370-0831 PLEXUS RUNG CLIMBER

PARTS LIST

PART NO.	DESCRIPTION	QTY
018-1824	CAP	2
030-2374	RUNG CLIMBER	1
036-0258	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CAP: 3/4" Extruded HDPE

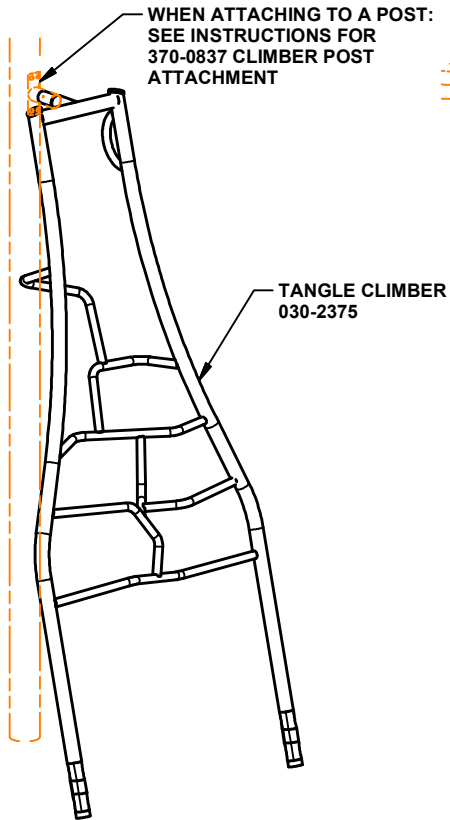
RUNG CLIMBER: Weldment consisting of formed 2.375" OD x 10 GA and 1.315" OD x 12 GA galvanized tubing, 12 GA galvanized steel plate and nut inserts. Finished with a baked on powder coat finish.

HARDWARE PACKAGE: Stainless steel

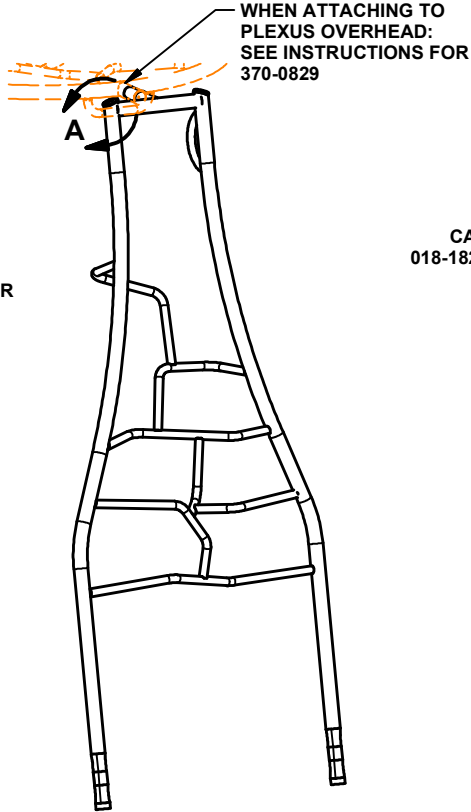
SHIPPING WEIGHT: 83 LBS.

INSTALLATION INSTRUCTIONS

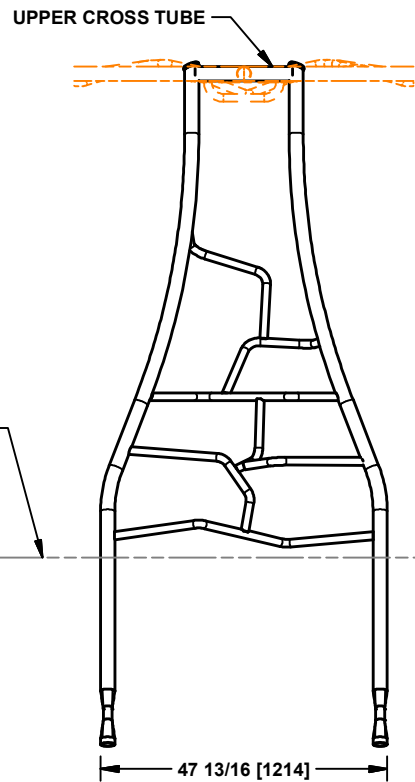
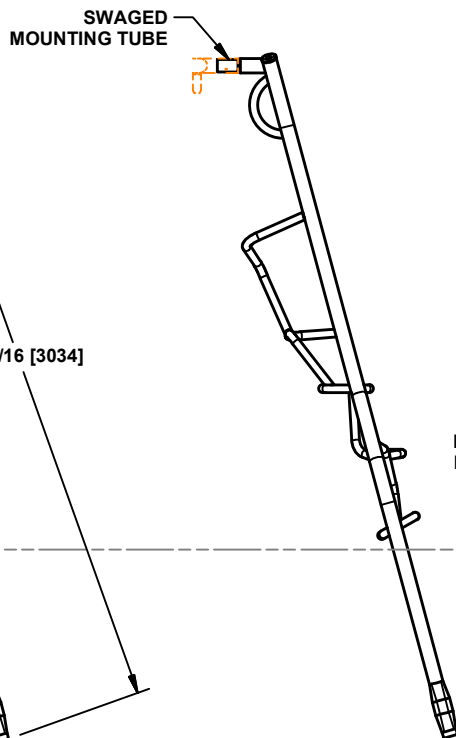
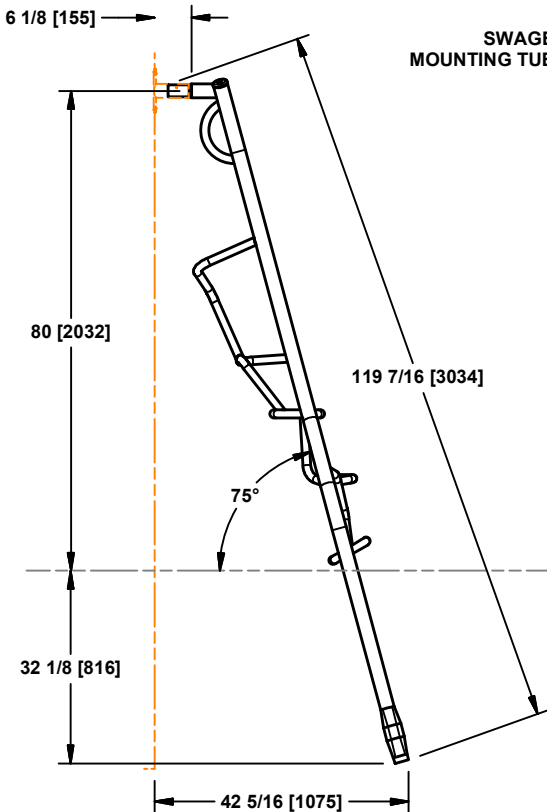
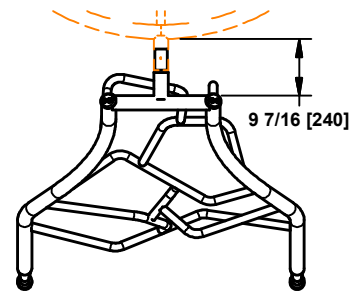
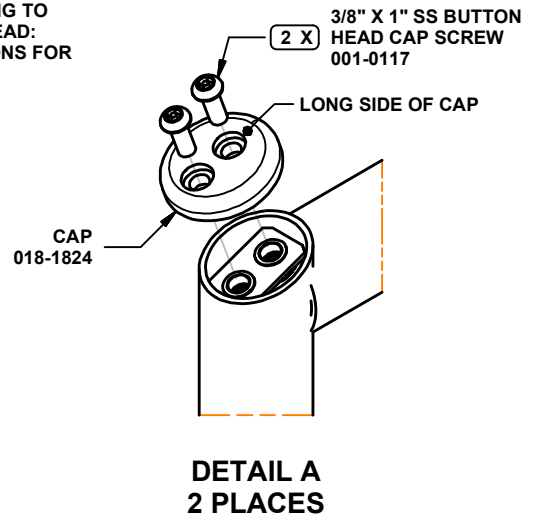
1. Determine location of climber from site plan and dig footing holes accordingly. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach CAP(s) to RUNG CLIMBER with hardware specified in DETAIL A. Make sure the long side of the cap is oriented correctly so that it is centered on the opening and completely covers the open tube. Tighten hardware.
3. Slide the upper swaged mounting tube of the rung climber into the tube connection of either the Climber Post Attachment bracket or the Plexus Overhead. See specific mating component installation instructions for attachment. Make sure the rung climber is rotated on the swaged tube connection so that the sides of the rung climber are perpendicular and the upper cross tube is horizontal.
4. Pour concrete. Let set for two to three days.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



ATTACHED TO A POST



ATTACHED TO
PLEXUS OVERHEAD



370-0832 PLEXUS TANGLE CLIMBER

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-1824	CAP	2
030-2375	TANGLE CLIMBER	1
036-0258	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CAP: 3/4" Extruded HDPE

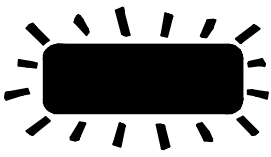
TANGLE CLIMBER: Weldment consisting of formed 2.375" OD x 10 GA and 1.315" OD x 12 GA galvanized tubing, 12 GA galvanized steel plate and nut inserts. Finished with a baked on powder coat finish.

HARDWARE PACKAGE: Stainless steel

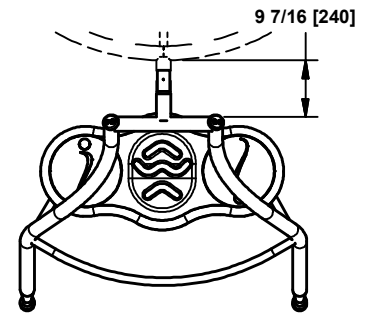
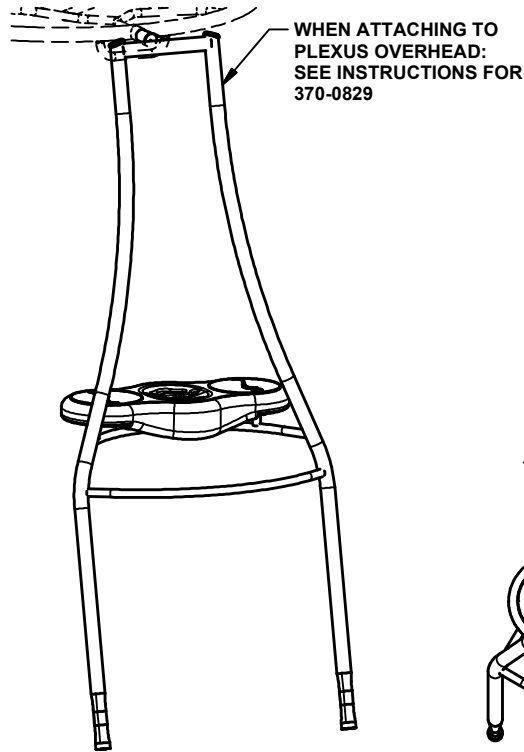
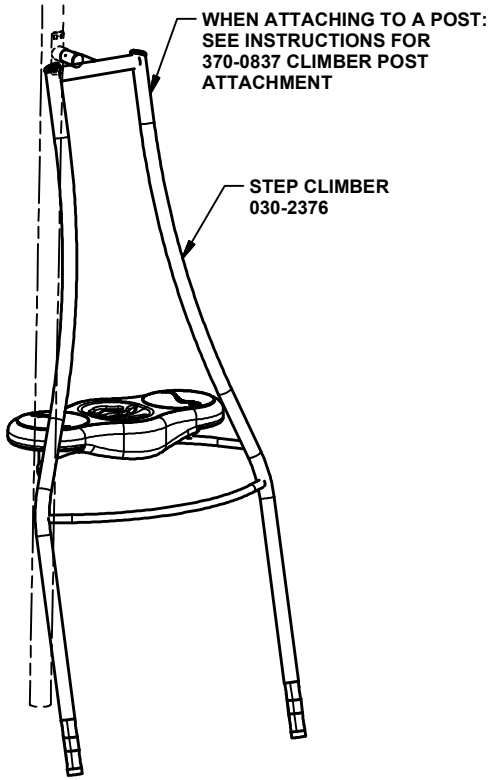
SHIPPING WEIGHT: 89 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of climber from site plan and dig footing holes accordingly. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach CAP(s) to TANGLE CLIMBER with hardware specified in DETAIL A. Make sure the long side of the cap is oriented correctly so that it is centered on the opening and completely covers the open tube. Tighten hardware.
3. Slide the upper swaged mounting tube of the tangle climber into the tube connection of either the Climber Post Attachment bracket or the Plexus Overhead. See specific mating component installation instructions for attachment. Make sure the tangle climber is rotated on the swaged tube connection so that the sides of the tangle climber are perpendicular and the upper cross tube is horizontal.
4. Pour concrete. Let set for two to three days.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

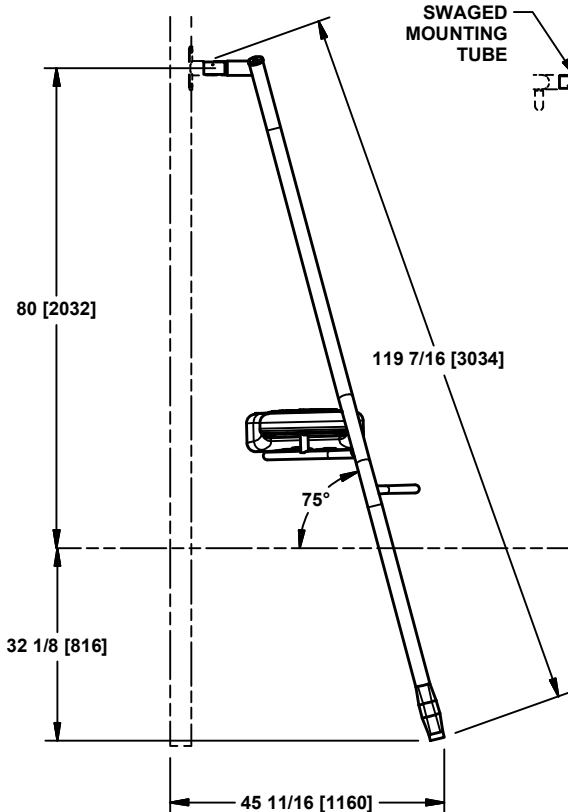


UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



ATTACHED TO A POST

ATTACHED TO PLEXUS OVERHEAD

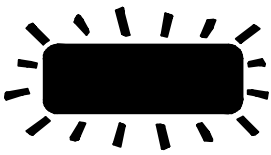


SWAGED
MOUNTING
TUBE

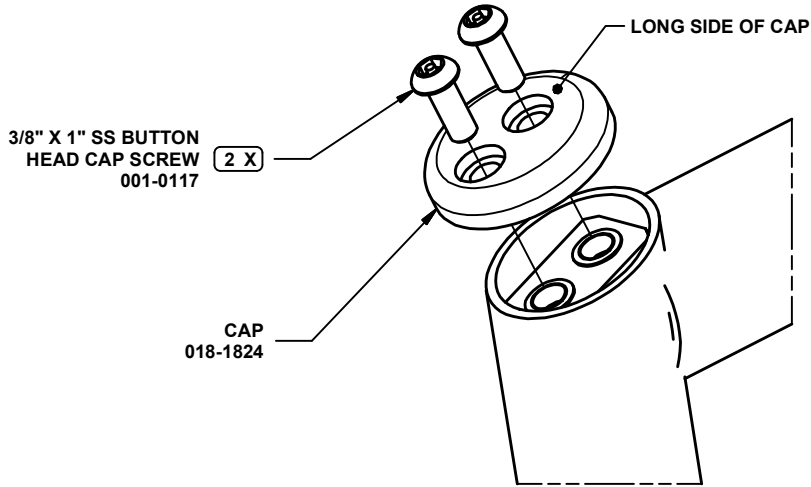
UPPER CROSS TUBE

TOP OF
RESILIENT
MATERIAL

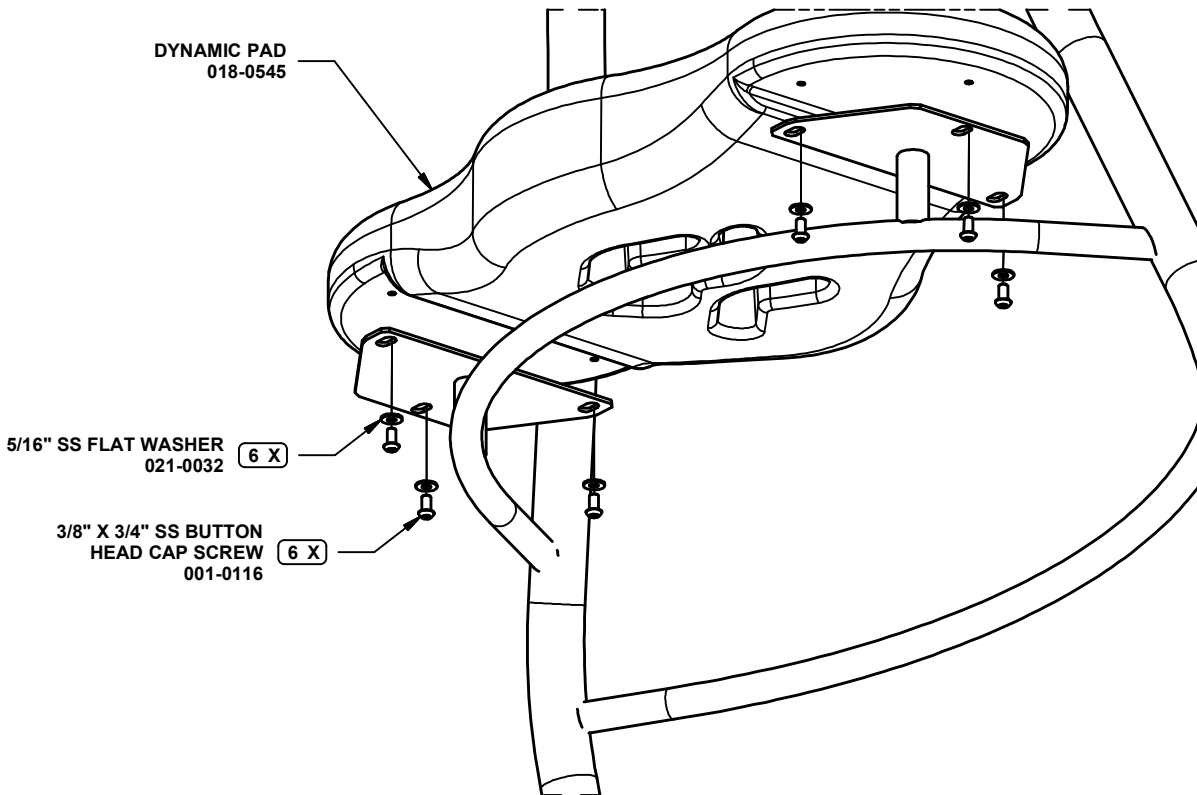
370-0833 PLEXUS STEP CLIMBER



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



**DETAIL A
(2 PLACES)**



DETAIL B

**370-0833
PLEXUS STEP CLIMBER**

PARTS LIST

PART NO.	DESCRIPTION	QTY
018-0545	DYNAMIC PAD	1
018-1824	CAP	2
030-2376	STEP CLIMBER	1
036-0258	HARDWARE PACKAGE	2
036-0784	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

DYNAMIC PAD: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts and a textured surface.

CAP: 3/4" Extruded HDPE

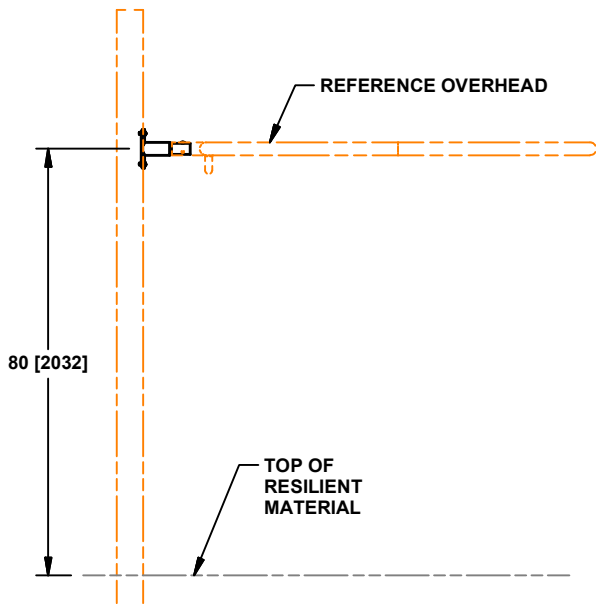
STEP CLIMBER: Weldment consisting of formed 2.375" OD x 10 GA and 1.315" OD x 12 GA galvanized tubing, 12 GA galvanized steel plate and nut inserts. Finished with a baked on powder coat finish.

HARDWARE PACKAGE; HARDWARE PACKAGE: Stainless steel

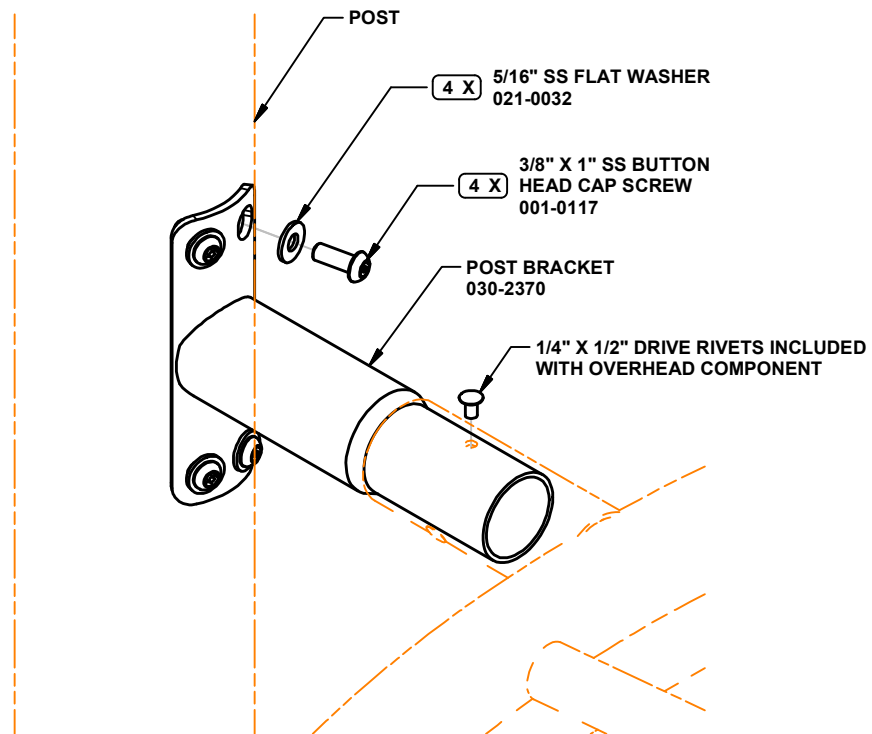
SHIPPING WEIGHT: 121 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of climber from site plan and dig footing holes accordingly. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach two CAP(s) to STEP CLIMBER with hardware specified in DETAIL A. Make sure the long side of the cap is oriented correctly so that it is centered on the opening and completely covers the open tube. Tighten hardware.
3. Slide the upper swaged mounting tube of the step climber into the tube connection of either the Climber Post Attachment bracket or the Plexus Overhead. See specific mating component installation instructions for attachment. Make sure the step climber is rotated on the swaged tube connection so that the sides of the step climber are perpendicular and the upper cross tube is horizontal.
4. Attach the DYNAMIC PAD to the step climber using the hardware specified in DETAIL B.
4. Pour concrete. Let set for two to three days.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



ELEVATION VIEW



ASSEMBLY VIEW

370-0834 OVERHEAD POST ATTACHMENT

PARTS LIST

PART NO.	DESCRIPTION	QTY
030-2370	POST BRACKET	1
036-0258	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

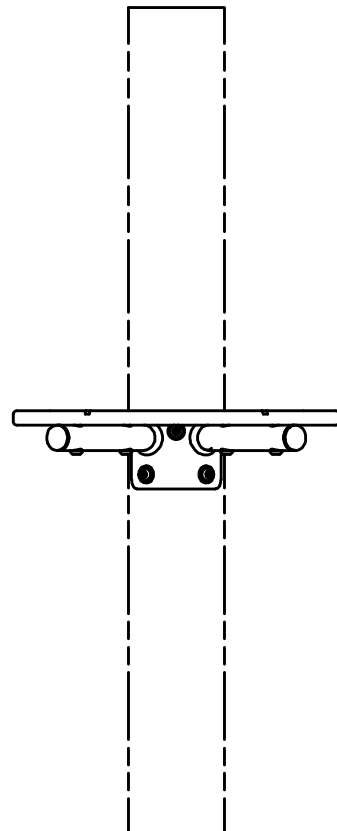
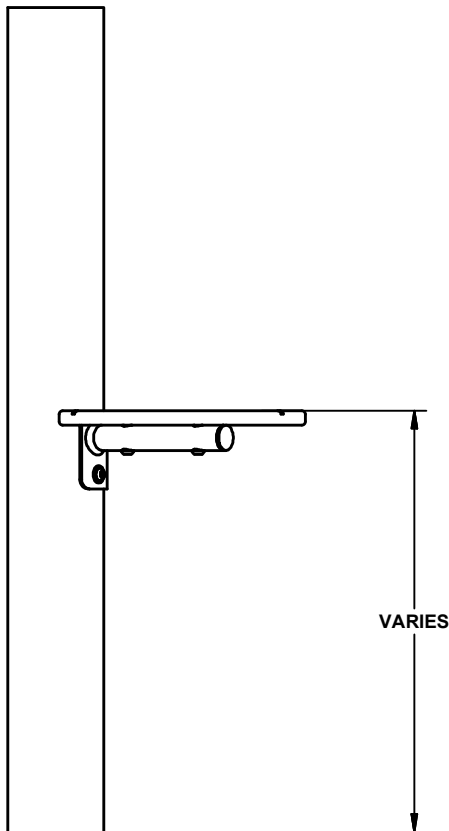
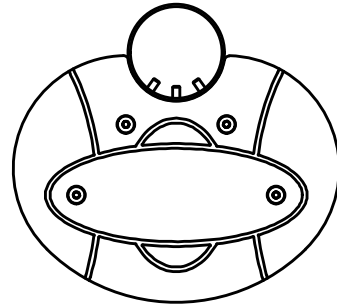
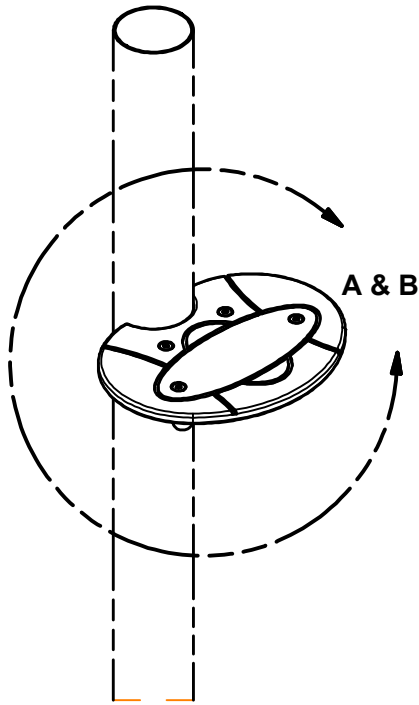
POST BRACKET: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and formed 7 GA stainless steel plates. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

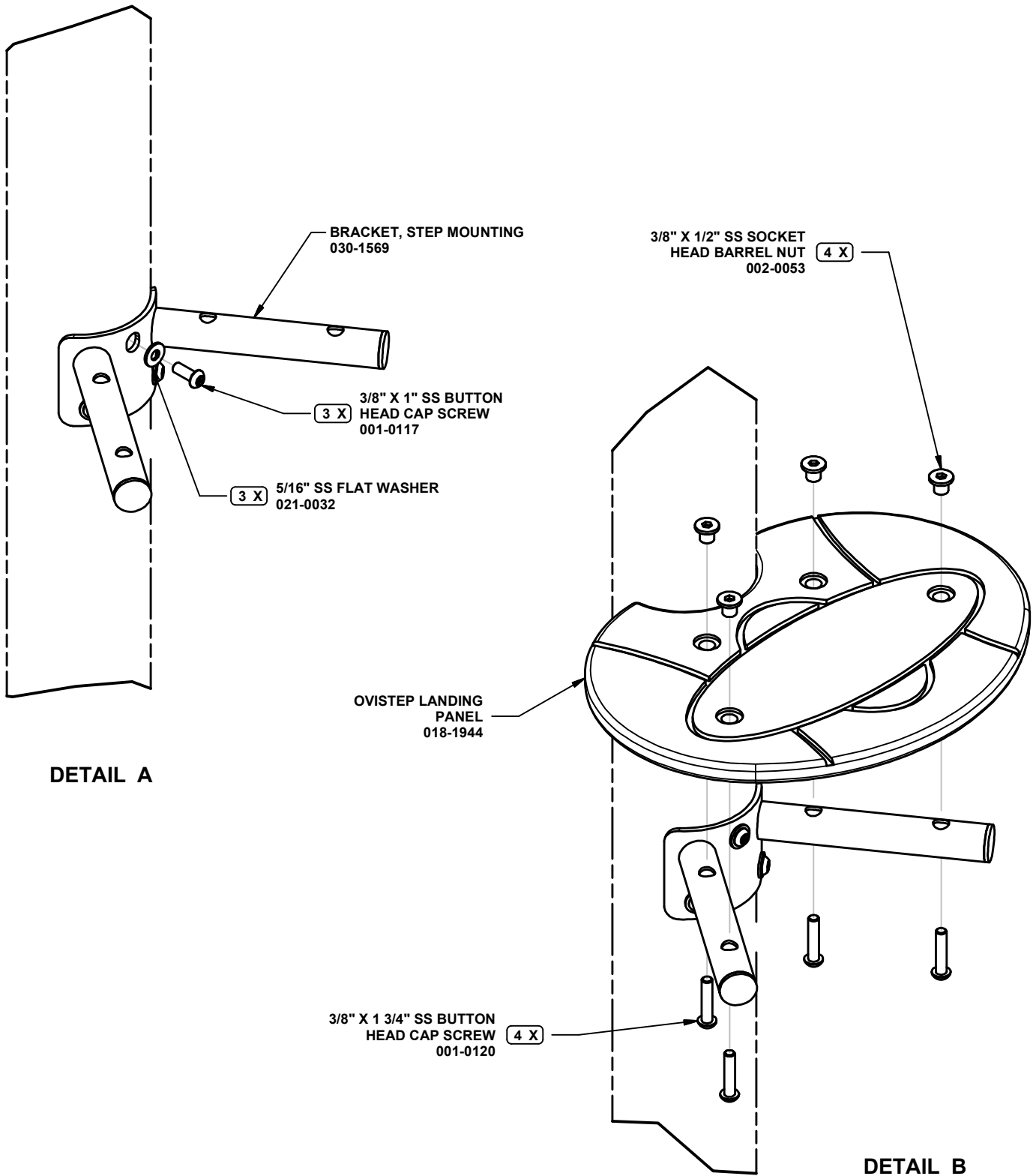
SHIPPING WEIGHT: 3 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of Overhead Post Attachment from site plan.
2. Attach the POST BRACKET to the post with hardware specified in the assembly view. Slide the tube connection of the overhead onto the swaged portion of the post bracket. See specific overhead installation instructions for attachment. Make sure the overhead component lies on a level horizontal plane in relation to the post.
3. Using the 3 holes in the overhead attachment points as a guide, drill 1/4" diameter holes through the post bracket. Insert 1/4" drive rivets included with overhead component and pound center pins flush to engage rivets. Repeat at applicable remaining overhead attachments. Apply touch up paint to exposed heads of rivets.
4. **Install resilient material in accordance with installation guidelines, ASTM standards and CPSC guidelines.**



370-1608 OVISTEP LAUNCH PAD



370-1608 OVISTEP LAUNCH PAD

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-1944	OVISTEP LANDING PANEL	1
030-1569	BRACKET, STEP MOUNTING	1
036-1305	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

OVISTEP LANDING PANEL: 3/4" co-extruded HDPE.

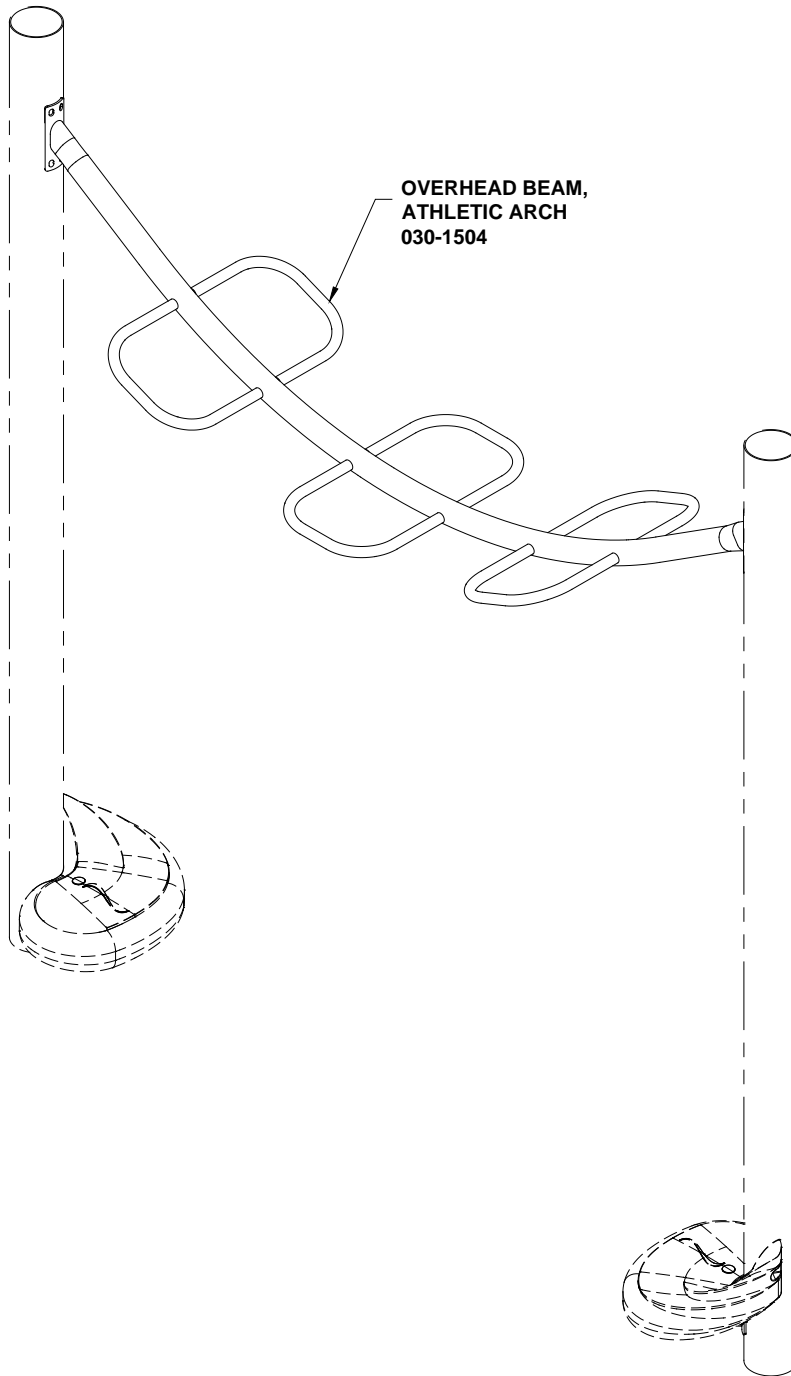
BRACKET, STEP MOUNTING: One piece all welded construction consisting of 10 GA galvanized sheet steel, 7 GA stainless steel sheet and 1.315" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

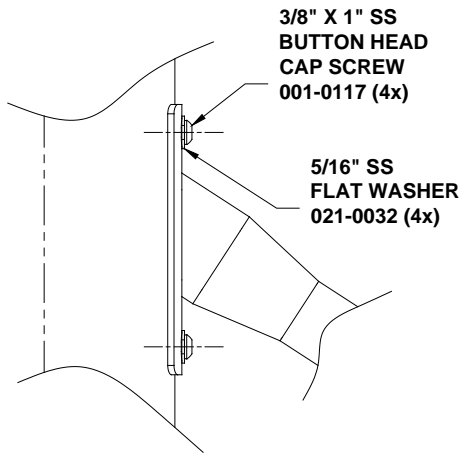
SHIPPING WEIGHT: 9.55 LBS.

INSTALLATION INSTRUCTIONS

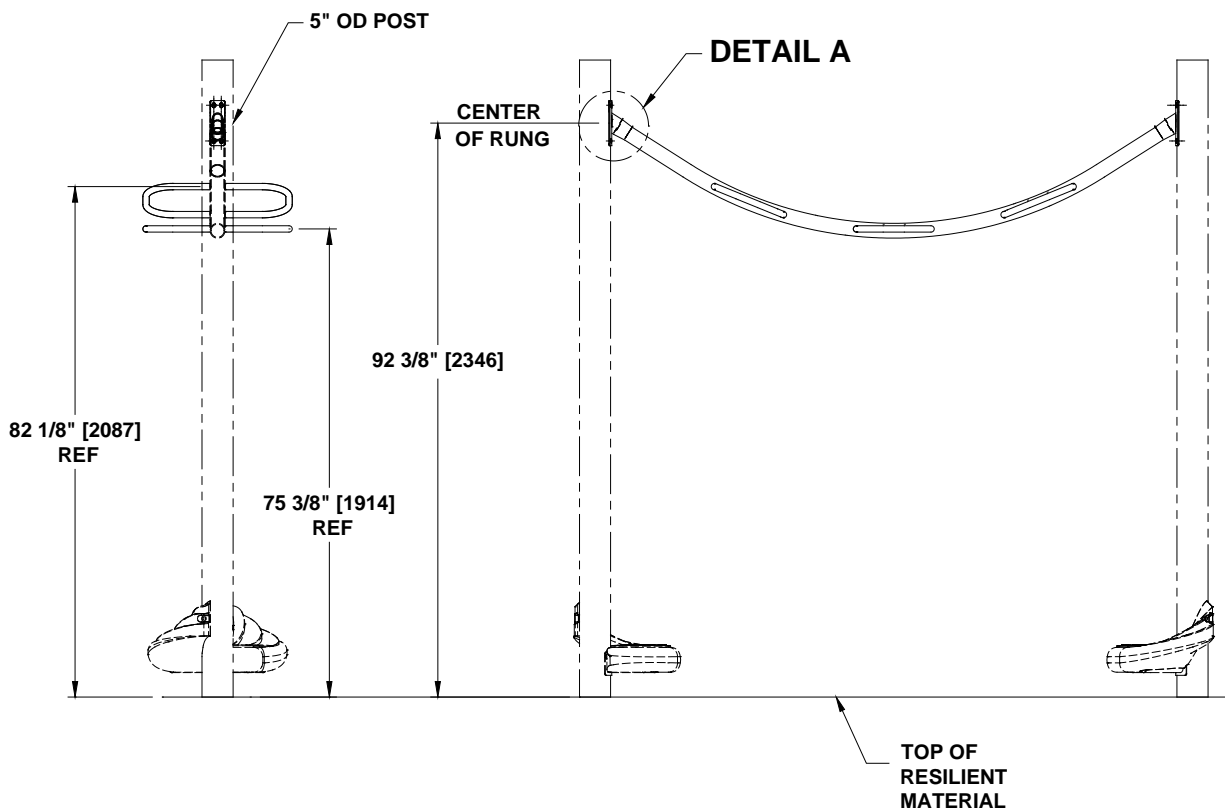
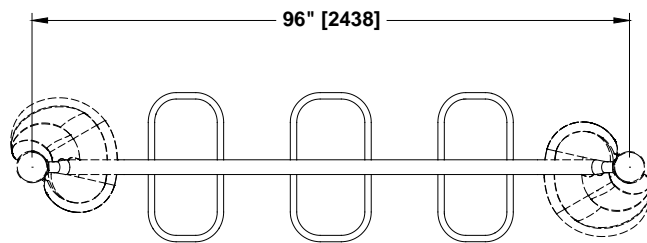
1. Attach STEP MOUNTING BRACKET to post using hardware specified in DETAIL A.
2. Attach OVISTEP LANDING PANEL to Step Mounting Bracket using hardware specified in DETAIL B.
3. Plumb and level component. Tighten all hardware.
4. **INSTALL RESILIENT SURFACING MATERIAL IN ACCORDANCE TO INSTALLATION GUIDELINES.**



370-1610
ATHLETIC ARCH OH



**DETAIL A
(2 PLACES)**



**370-1610
ATHLETIC ARCH OH**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1504	OVERHEAD BEAM, ATHLETIC ARCH	1
036-0258	HARDWARE PACKAGE	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

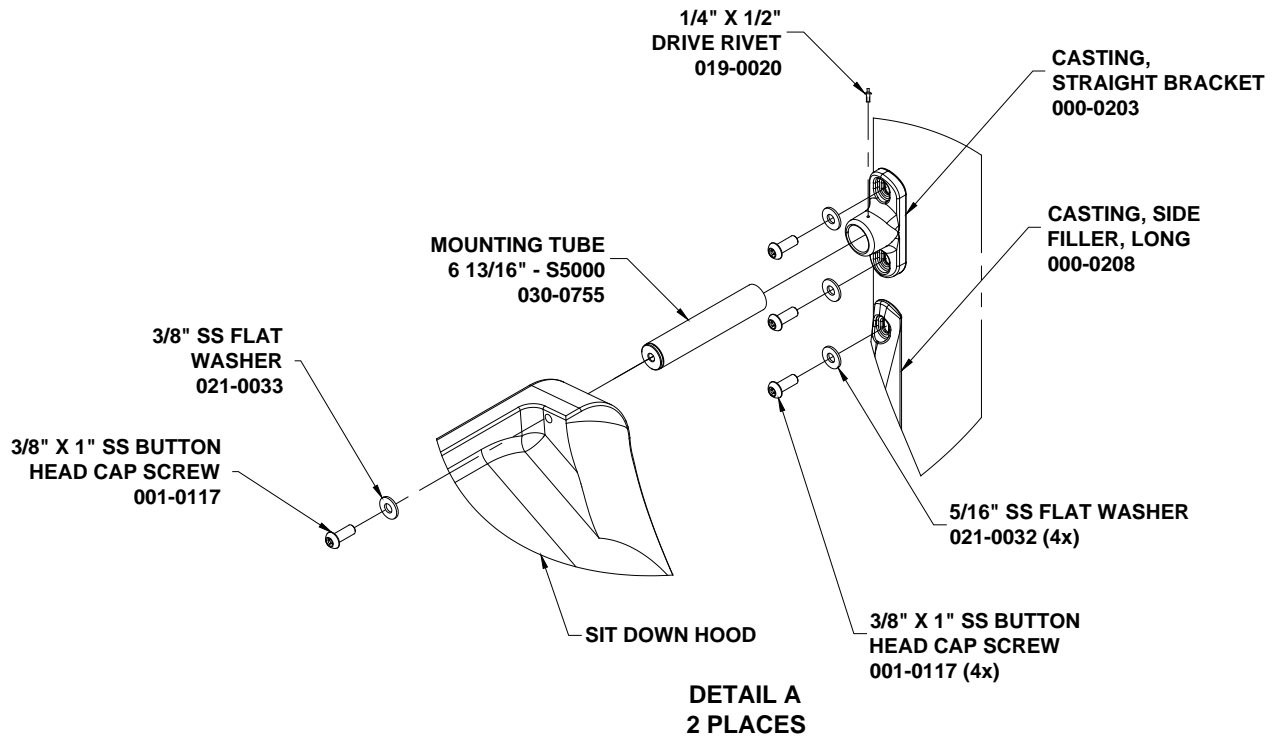
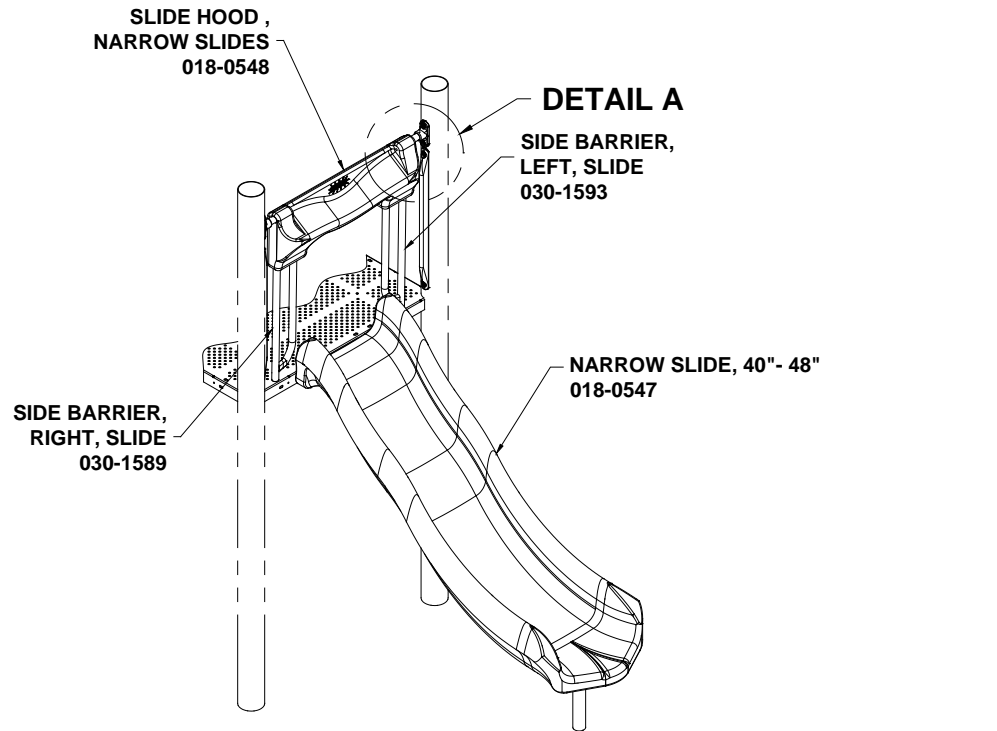
OVERHEAD BEAM, ATHLETIC ARCH: One piece all welded construction consisting of 2 3/8" OD x 10 GA & 1.029" OD x 14 GA galvanized steel tubing, and 7 GA galvanized steel plate. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

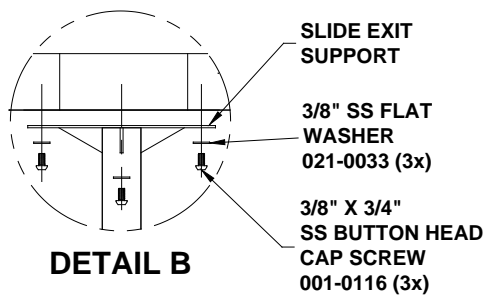
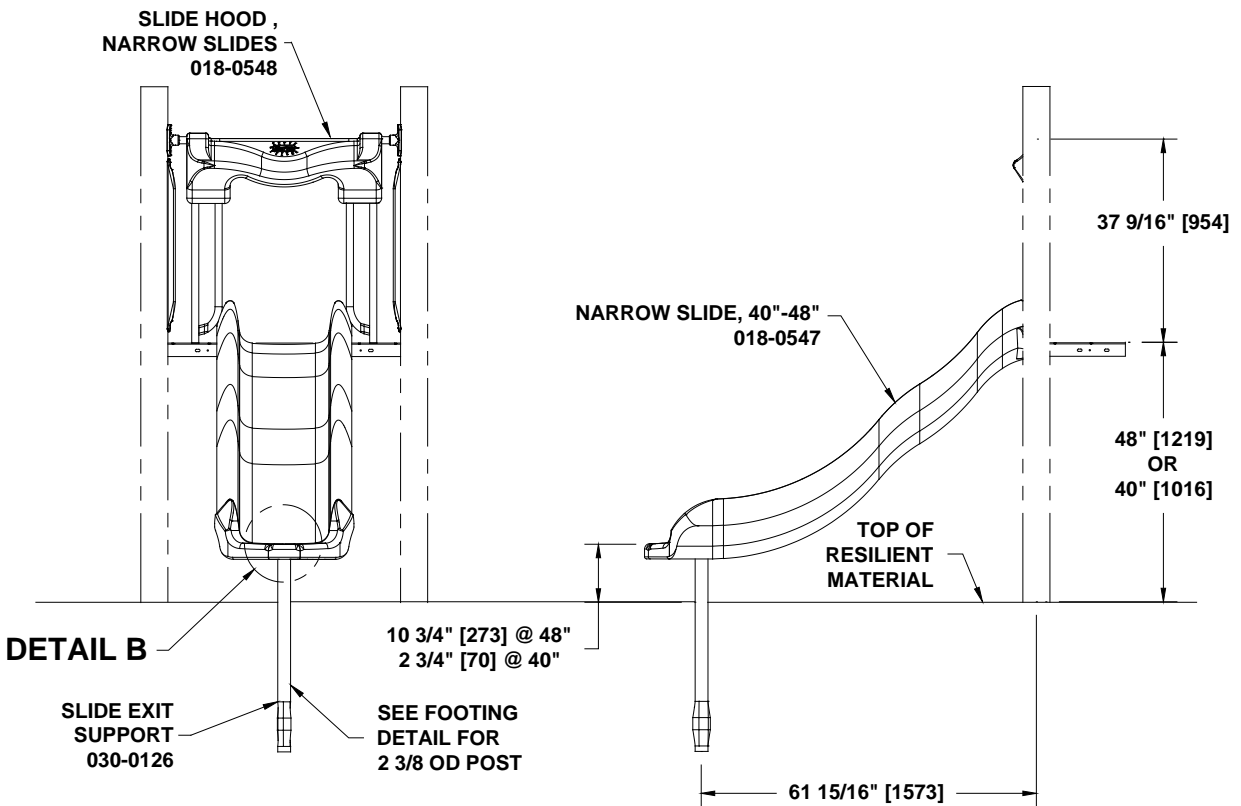
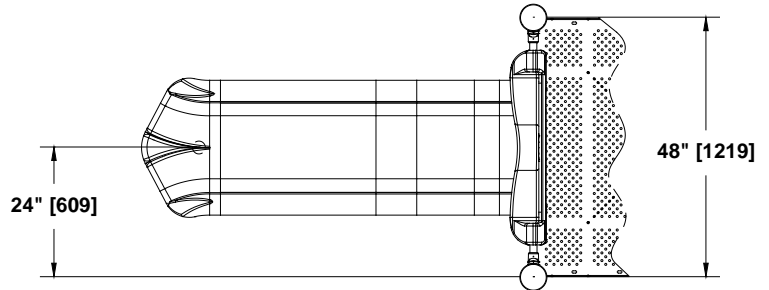
SHIPPING WEIGHT: 46 LBS.

INSTALLATION INSTRUCTIONS

1. Attach ATHLETIC ARCH OVERHEAD BEAM to posts using 3/8" x 1" SS button head cap screw and 5/16" SS flat washer.
See DETAIL A.
2. Plumb and level components. Tighten all hardware.
3. Pour concrete and let set 2-3 days.
4. **INSTALL RESILIENT SURFACING MATERIAL IN ACCORDANCE TO INSTALLATION GUIDELINES.**

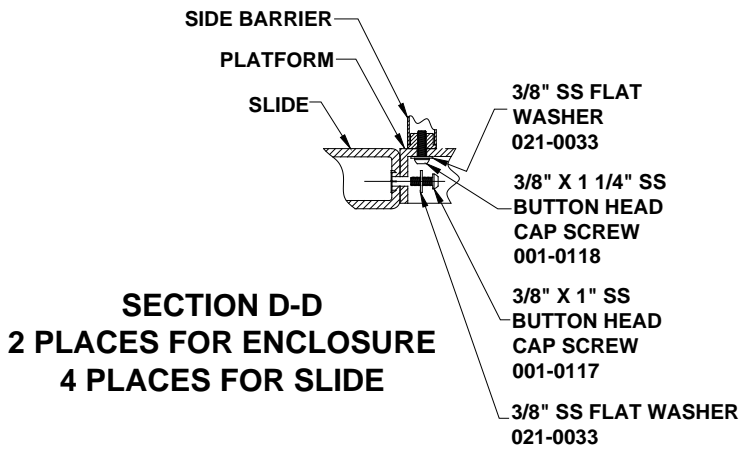
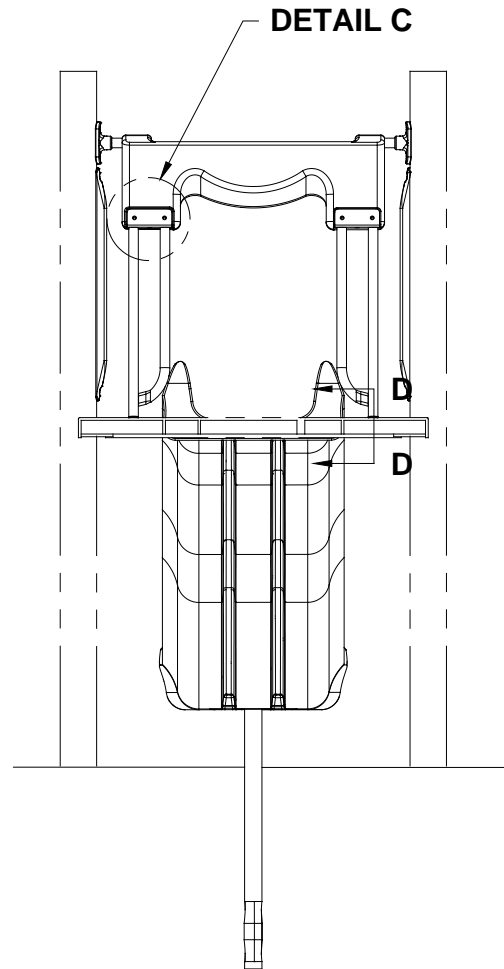
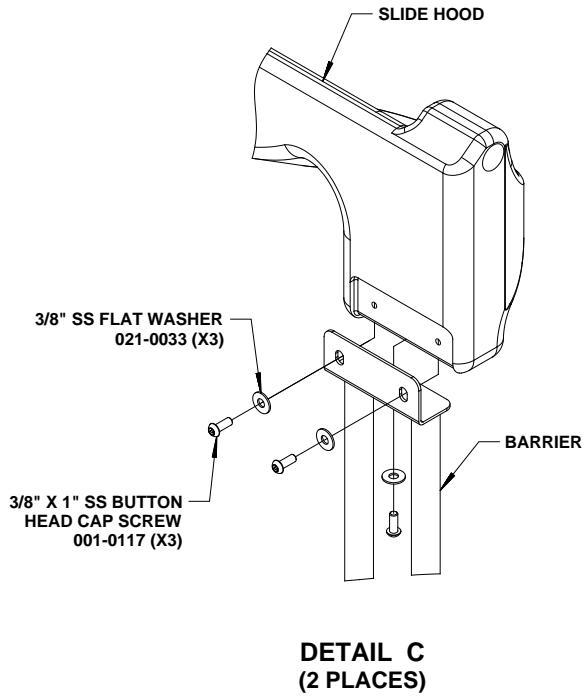


470-0507
ROCK'N ROLL SLIDE, 40" - 48"



470-0507

ROCK'N ROLL SLIDE, 40" - 48"



470-0507
ROCK'N ROLL SLIDE, 40" - 48"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
000-0208	CASTING, SIDE FILLER, LONG	2
018-0547	NARROW SLIDE, 40"-48"	1
018-0548	SLIDE HOOD, NARROW SLIDES	1
030-0126	SUPPORT, SLIDE EXIT	1
030-0755	MOUNTING TUBE 6 13/16" - S5000	2
030-1589	SIDE BARRIER, RIGHT, SLIDE	1
030-1593	SIDE BARRIER, LEFT, SLIDE	1
036-1371	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, LONG: A56 Aluminum. Finished with baked on powder coating.

NARROW SLIDE, 40"-48": 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SLIDE HOOD, NARROW SLIDES: Double wall, linear low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SUPPORT, SLIDE EXIT: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and 8 GA galvanized sheet steel. Finished with a baked on powder coating.

MOUNTING TUBE 6 13/16" - S5000: One piece all welded construction consisting of a 1.315 OD x .083" wall galvanized tube and a 12L14 steel threaded insert. Finished with a baked on powder coating.

SIDE BARRIER, RIGHT, SLIDE ; SIDE BARRIER, LEFT, SLIDE : One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized sheet steel, and HDPE threaded inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws & washers and aluminum rivets with 302 stainless steel pin.

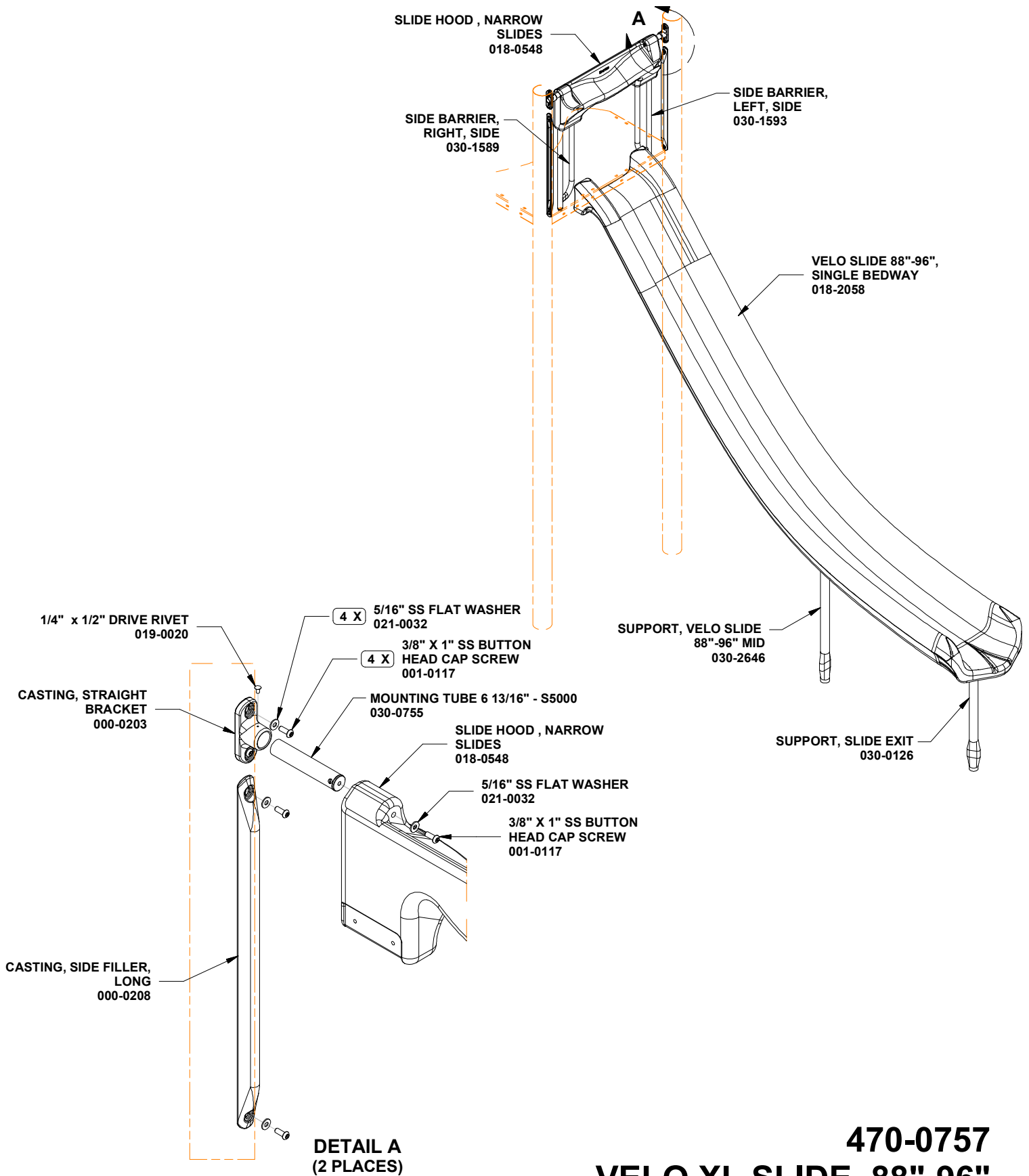
SHIPPING WEIGHT: 107 LBS.

INSTALLATION INSTRUCTIONS

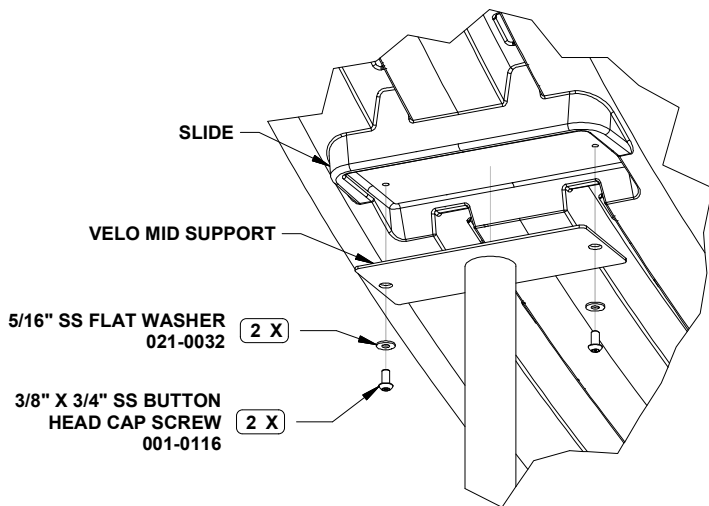
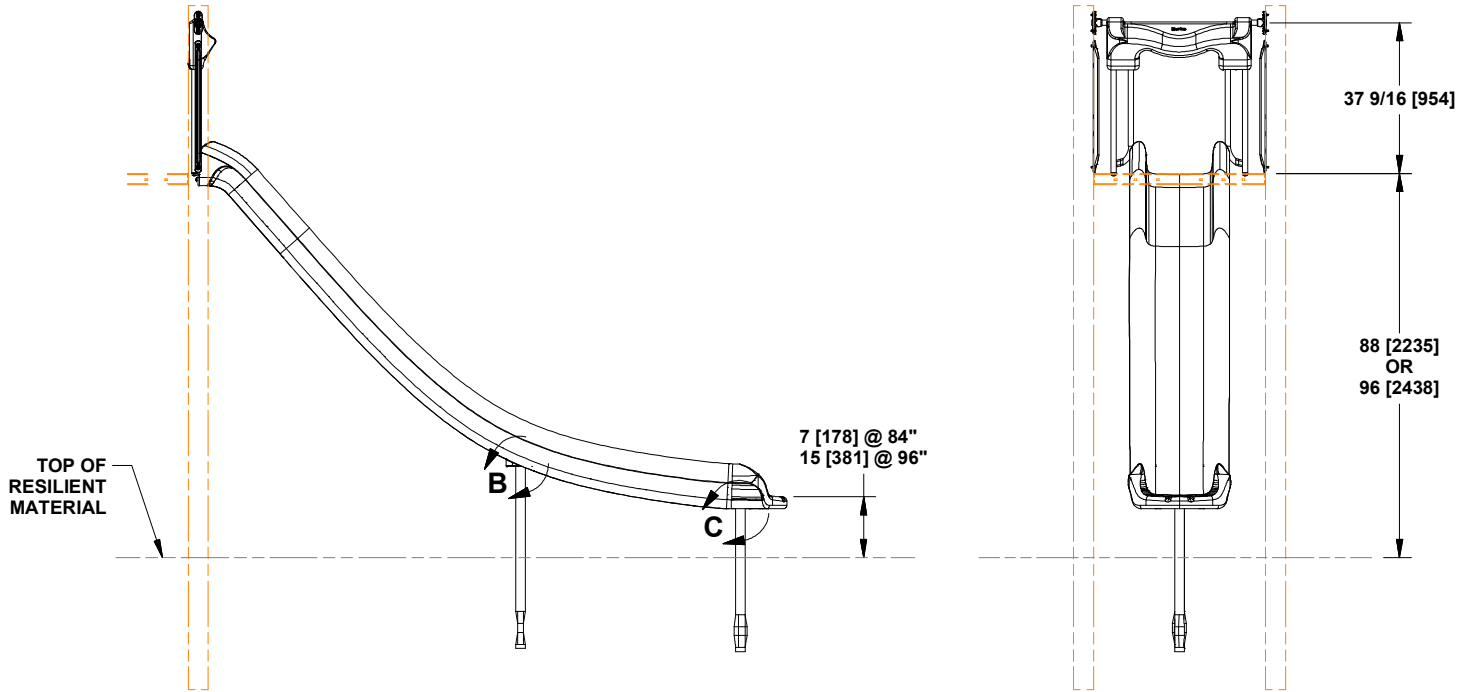
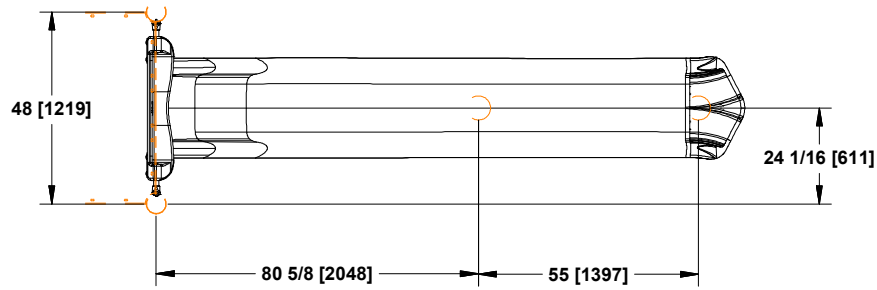
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

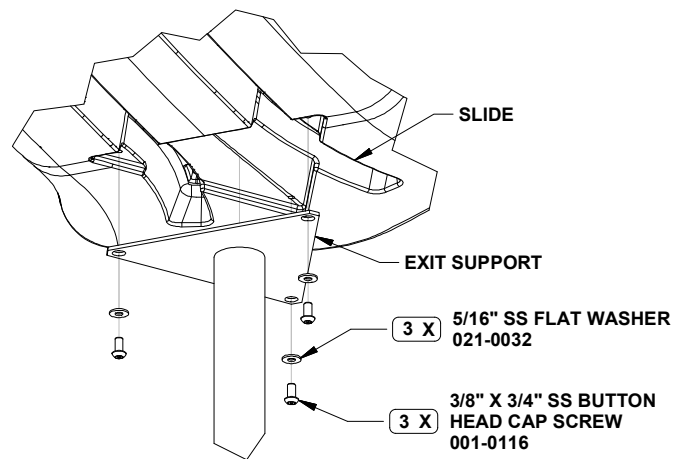
1. After platform has been installed, locate and dig footing hole as per dimensions shown. See footing detail drawing, which is located in the preface of your installation manual.
2. Attach CAST SIDE FILLER, LONG to 5" O.D. posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL A.
3. Attach SLIDE EXIT SUPPORT to NARROW SLIDE using 3/8" x 3/4" SS button head cap screws and 3/8" SS washers. See DETAIL B. Tighten fasteners.
4. Position slide into footing holes. Attach slide to platform using 3/8" x 1" SS button head cap screws and 3/8" SS washers. See SECTION D-D. Make sure that the slide is flush and tight to platform.
5. Insert MOUNTING TUBE into SLIDE HOOD and attach using 3/8" x 1" SS button head cap screws and 3/8" SS washers. See DETAIL A.
6. Attach SIDE BARRIERS to slide hood using 3/8" x 1" SS button head cap screws and 3/8" SS washers. See DETAIL C.
7. Attach brackets to 5" O.D. posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL A.
8. Attach side barriers to platform using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers, See SECTION D-D.
9. Tighten all hardware.
10. Block-up, level and plumb.
11. Pour concrete. Let set for two to three days.
12. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



470-0757
VELO XL SLIDE, 88"-96"

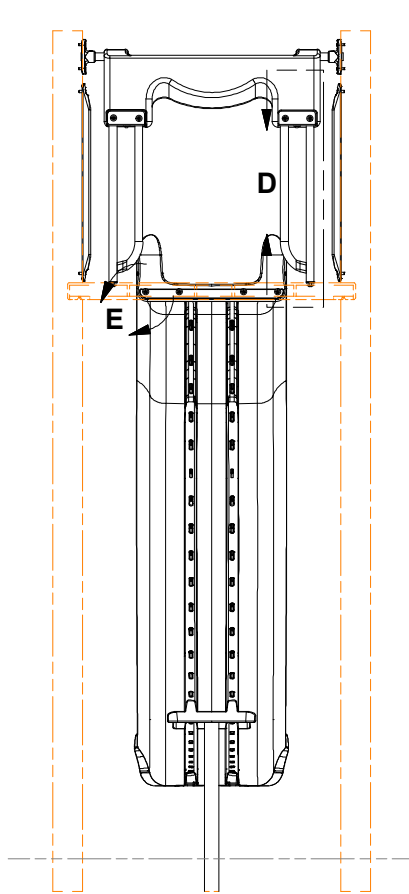


DETAIL B

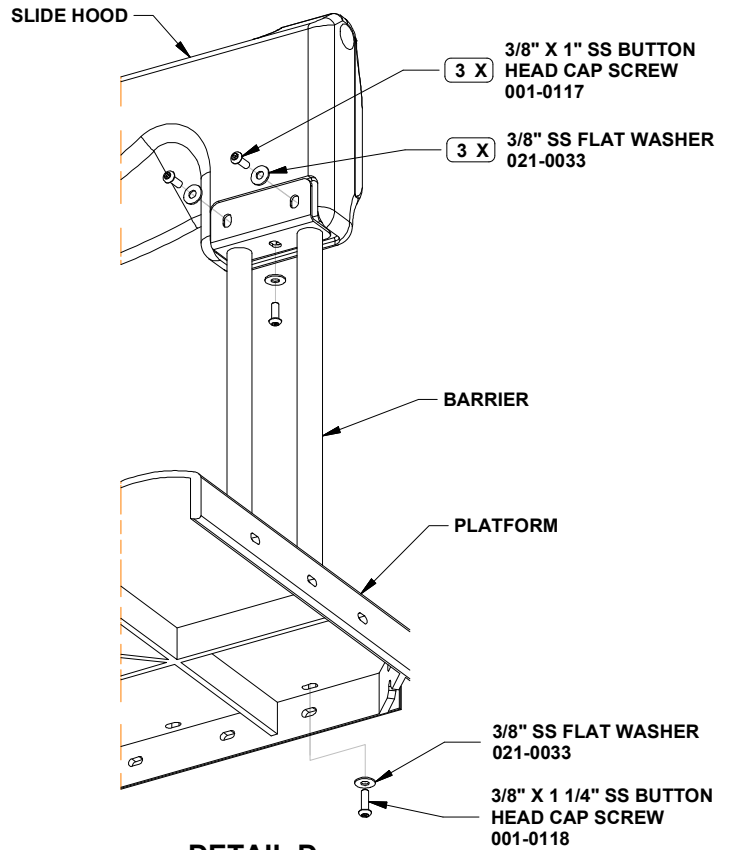


DETAIL C

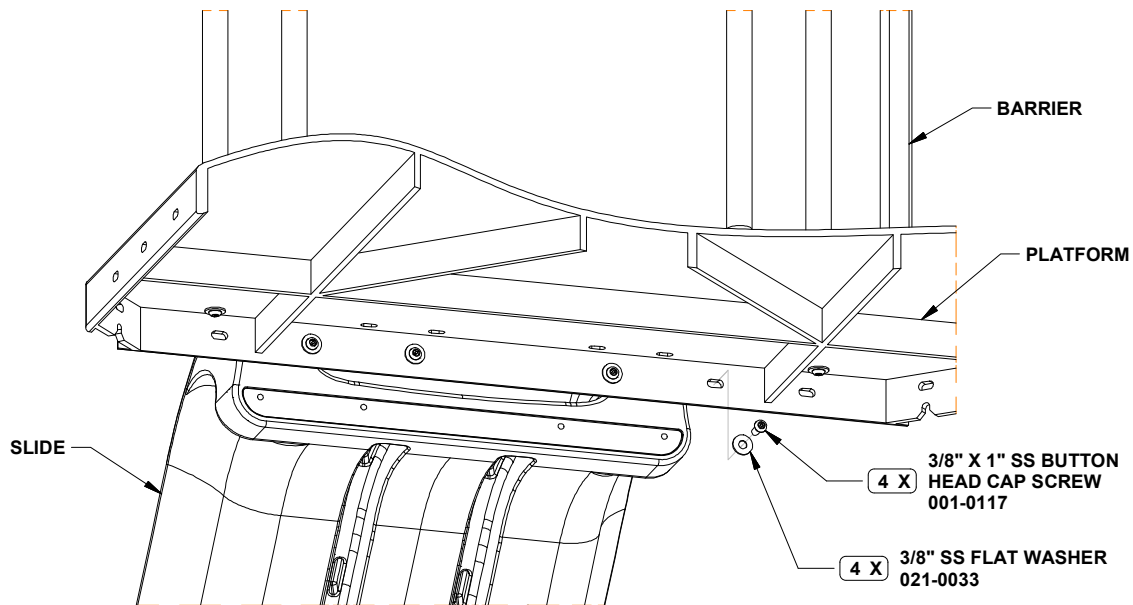
470-0757 VELO XL SLIDE, 88"-96"



BACK VIEW



**DETAIL D
(2 PLACES)**



DETAIL E

470-0757 VELO XL SLIDE, 88"-96"

PARTS LIST

PART NO.	DESCRIPTION	QTY
000-0203	CASTING, STRAIGHT BRACKET	2
000-0208	CASTING, SIDE FILLER, LONG	2
018-0548	SLIDE HOOD , NARROW SLIDES	1
018-2058	VELO SLIDE 88"-96", SINGLE BAY	1
030-0126	SUPPORT, SLIDE EXIT	1
030-0755	MOUNTING TUBE 6 13/16" - S5000	2
030-1589	SIDE BARRIER, RIGHT, SLIDE	1
030-1593	SIDE BARRIER, LEFT, SLIDE	1
030-2646	SUPPORT, VELO SLIDE 88"-96" MID	1
036-1206	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, LONG: A56 Aluminum. Finished with baked on powder coating.

SLIDE HOOD, NARROW SLIDES; SLIDE VELO SLIDE 88"-96", SINGLE BEDWAY: 1/4" thick, linear, low density, rotationally modeled, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SUPPORT, SLIDE EXIT: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and 8 GA galvanized sheet steel. Finished with a baked on powder coating.

MOUNTING TUBE 6 13/16" - S5000: One piece all welded construction consisting of a 1.315" OD x .083" wall galvanized tube and a 12L14 steel threaded insert. Finished with a baked on powder coating.

SIDE BARRIER, RIGHT, SLIDE; SIDE BARRIER, LEFT, SLIDE: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized sheet steel, and HDPE threaded inserts. Finished with a baked on powder coating.

SUPPORT, VELO SLIDE 88"-96" MID: One piece all welded construction consisting of 10 GA galvanized steel plate and 2 3/8" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, washers, lock nuts, barrel nuts, drive rivets. Zinc plated hex head cap screws.

SHIPPING WEIGHT: 169 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

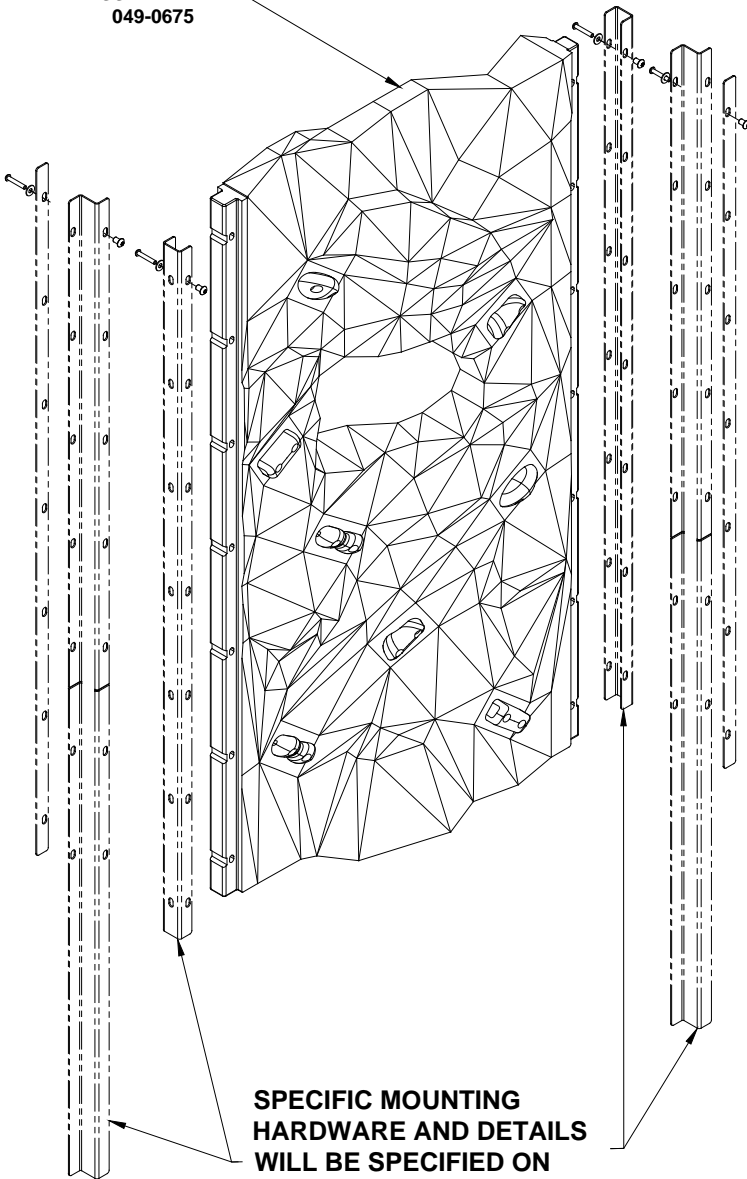
1. After platform has been installed, locate and dig footing holes as per dimensions shown. See footing detail drawing, which is located in the preface of your installation manual.
2. Attach CASTING, SIDE FILLER, LONG to 5" OD posts using hardware specified in DETAIL A.
3. Attach SUPPORT VELO SLIDE 88"-96" MID. and SUPPORT, SLIDE EXIT to VELO SLIDE 88"-96", SINGLE BEDWAY using hardware specified in DETAIL B and DETAIL C. Tighten fasteners.
4. Position slide into footing holes. Attach slide to platform using hardware specified in DETAIL D. Make sure that the slide is flush and tight to platform.
5. Insert MOUNTING TUBE 6 13/16" - S5000 into SLIDE HOOD, NARROW SLIDES and attach using hardware specified in DETAIL A.
6. Attach SIDE BARRIER, RIGHT, SLIDE and SIDE BARRIER, LEFT, SLIDE to SLIDE HOOD, NARROW SLIDES using hardware specified in DETAIL D.
7. Slide CASTING, STRAIGHT BRACKET onto MOUNTING TUBE 6 13/16" - S5000 and attach to 5" OD posts using hardware specified in DETAIL A.
8. Attach side barriers to platform using hardware specified in DETAIL D.
9. Tighten all hardware.
10. Block-up, level and plumb.
11. Pour concrete. Let set for 2-3 days.
- 12. Install resilient material in accordance to installation guidelines, ASTM standards, and CPSC guidelines.**

470-0757 VELO XL SLIDE, 88"-96"
REV: 00 PCN: 17-0350 7/9/2018



10/20/2011

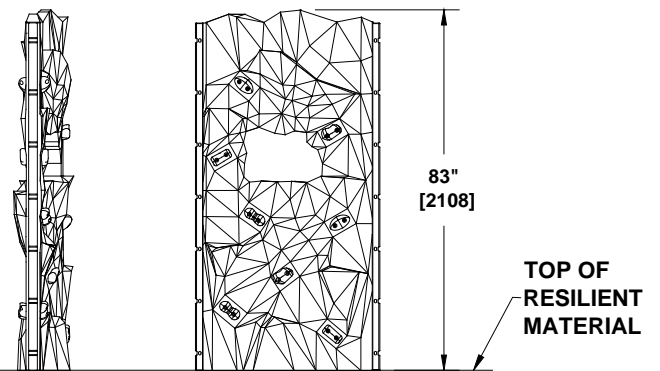
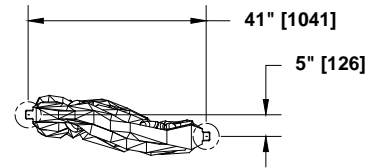
OFFSET PANEL ASSEMBLY 049-0675



SPECIFIC MOUNTING HARDWARE AND DETAILS WILL BE SPECIFIED ON ROCKIT CHANNEL POST INSTRUCTIONS

FOOTING LOCATIONS

(SEE SITE PLAN AND INSTRUCTIONS FOR ROCKIT CHANNEL POSTS)



560-0541
ROCKIT OFFSET PANEL

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
049-0675	OFFSET PANEL ASSEMBLY	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

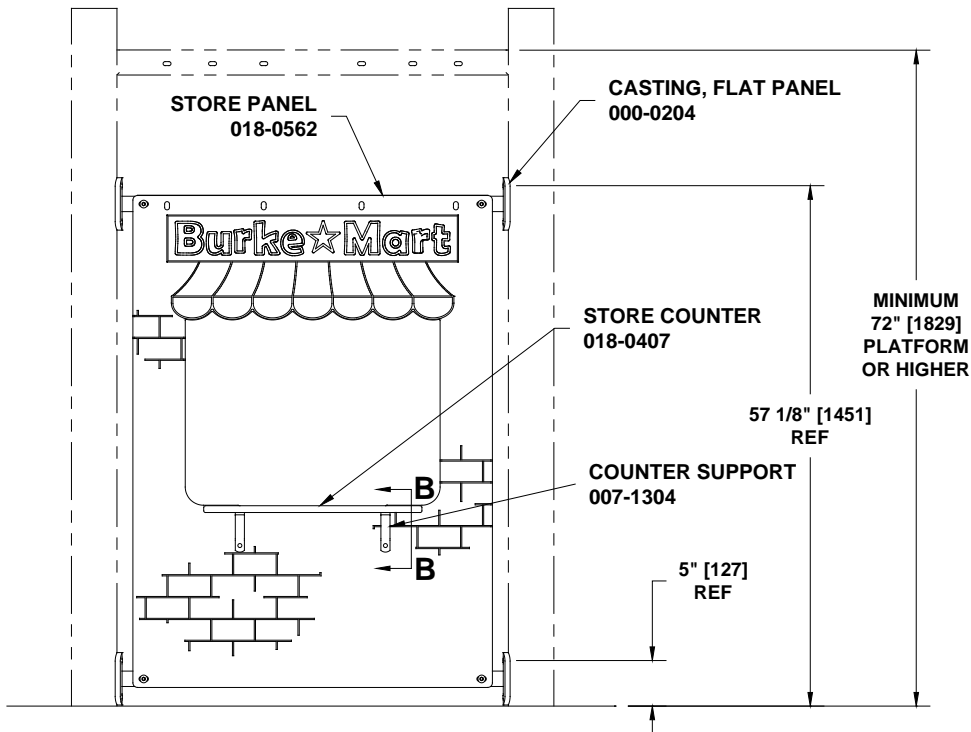
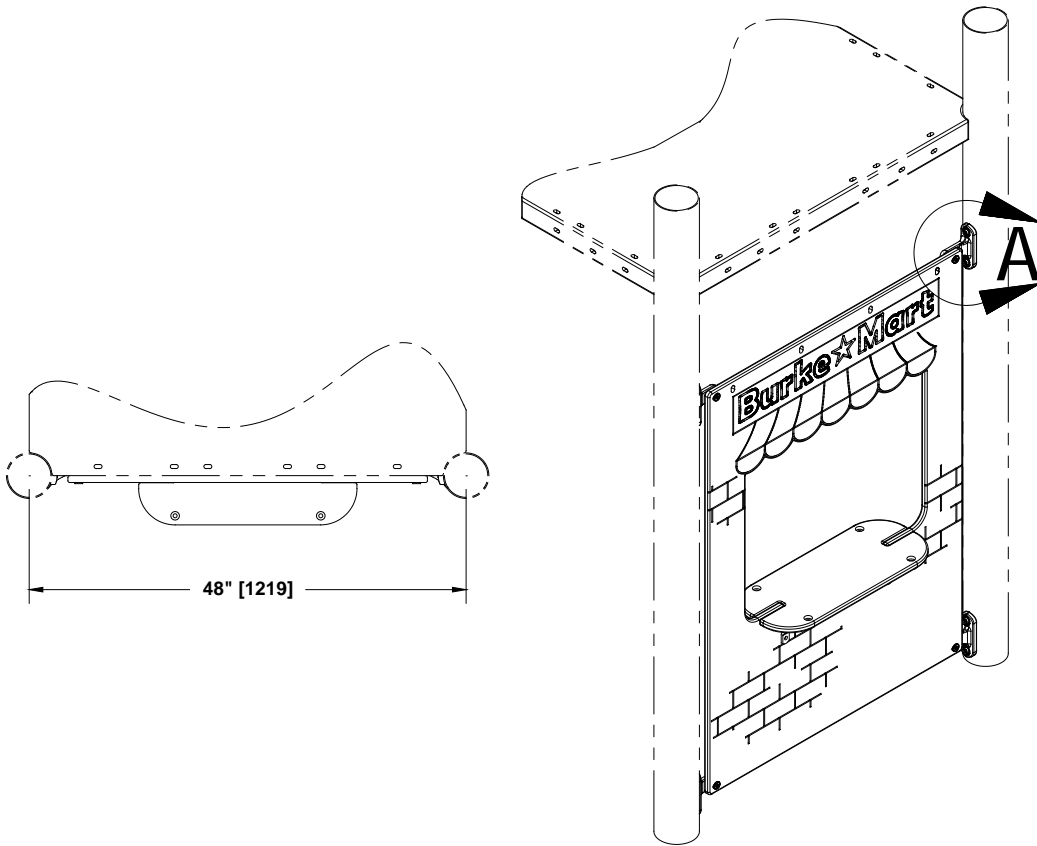
SPECIFICATIONS

OFFSET PANEL ASSEMBLY: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface. Molded professional grade rock climbing hold with stainless steel washers attached with stainless steel bolts.

SHIPPING WEIGHT: 84 LBS.

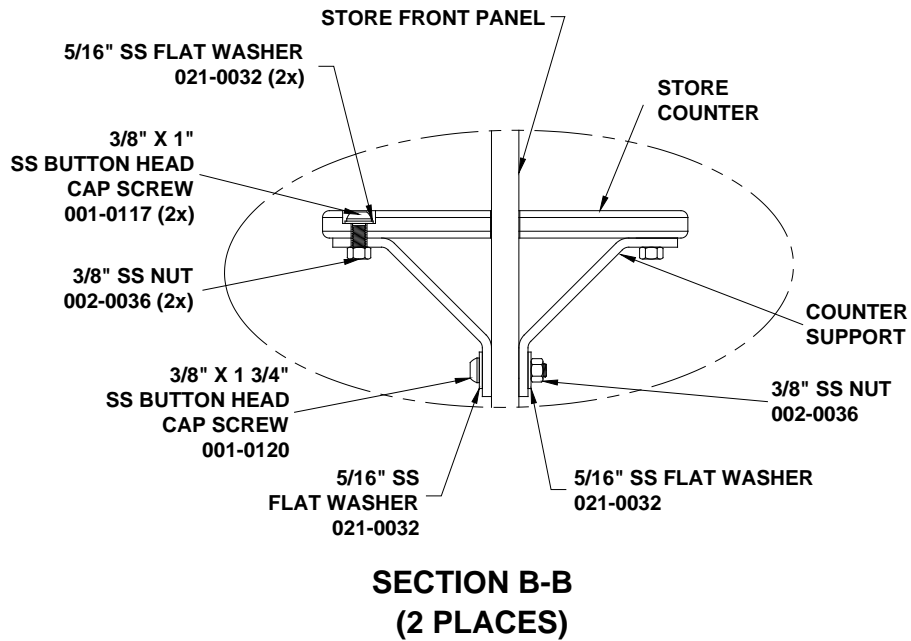
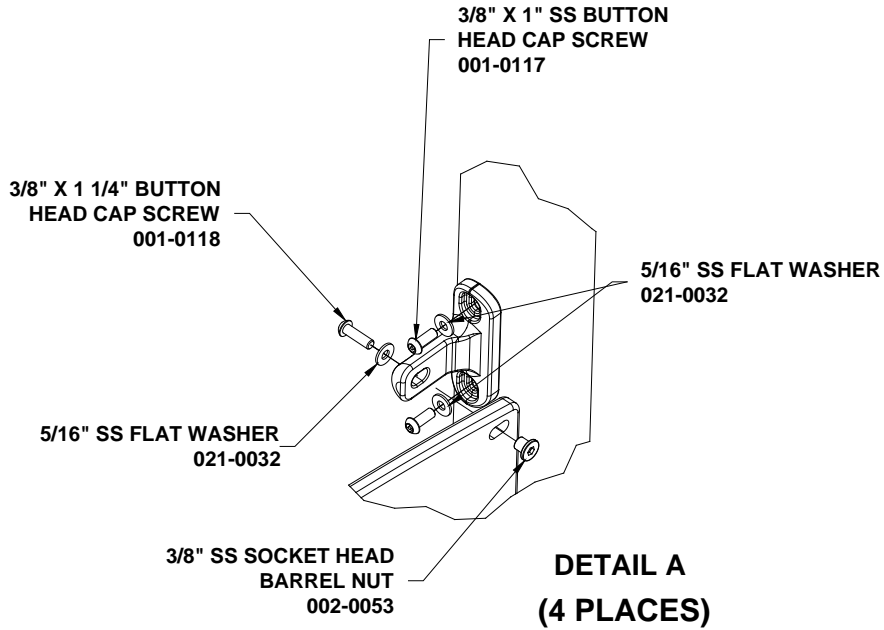
INSTALLATION INSTRUCTIONS

1. Dig footing holes per dimensions shown on this instruction as well as other Rockit components this will be installed with. See typical concrete footing details, which are located in the preface of your installation manual.
2. Reference site plan configuration and the instructions for all other Rockit components to assemble entire structure.
3. Tighten all hardware after all components have been assembled loosely.
4. Block-up, level and plumb climber.
5. Pour concrete. Let set for two to three days.
6. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.



570-0620

BURKE MART PANEL BELOW PLATFORM 72"-112"



570-0620

BURKE MART PANEL BELOW PLATFORM 72"-112"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0204	CASTING, FLAT PANEL	4
007-1304	COUNTER SUPPORT	4
018-0407	STORE COUNTER	1
018-0562	BURKE MART PANEL	1
036-1245	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, FLAT PANEL: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

COUNTER SUPPORT: Formed 8 GA. galvanized sheet steel finished with a baked on powder coating.

STORE COUNTER: 3/4" extruded HDPE.

BURKE MART PANEL: 3/4" co-extruded HDPE.

HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 54 LBS.

INSTALLATION INSTRUCTIONS

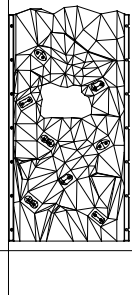
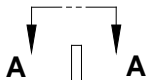
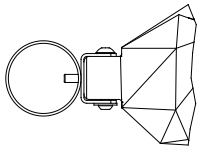
NOTE: Do not tighten hardware until instructed to do so.

1. Attach all four CASTINGS FLAT PANEL to posts using 3/8" x 1" SS button head cap screws and 5/16" SS flat washers. **NOTE: flat panel casting must be positioned so it is offset towards platform.** See DETAIL A.
2. Attach STORE PANEL to flat panel castings using 3/8" x 1 1/4" SS button head cap screws, 5/16" SS flat washers, and 3/8" SS socket head barrel nuts. See DETAIL A.
3. Attach COUNTER SUPPORTS to store panel using 3/8" x 1 3/4" SS button head cap screws, 5/16" SS flat washers, and 3/8" nuts. See SECTION B-B.
4. Slide STORE COUNTER into slot on store front panel with counter bored holes to the top. Attach counter support to store counter using 3/8" x 1" SS button head cap screws, 5/16" flat washers and 3/8" nuts. Tighten hardware. See SECTION B-B.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

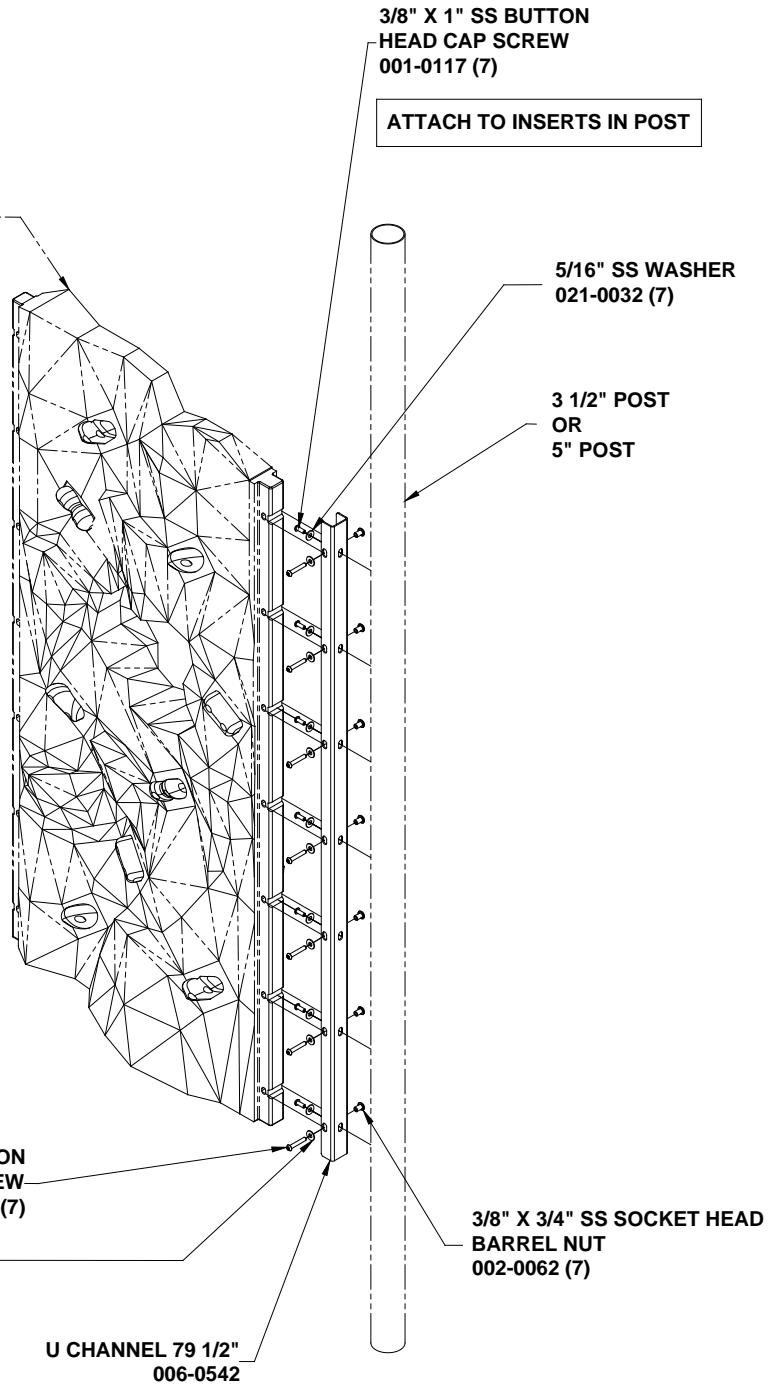


REFERENCE SITE PLAN
FOR SPECIFIC ROCKIT
PANEL INSTRUCTIONS

VIEW A-A



TOP OF
RESILIENT
MATERIAL



3/8" X 1" SS BUTTON
HEAD CAP SCREW
001-0117 (7)

ATTACH TO INSERTS IN POST

5/16" SS WASHER
021-0032 (7)

3 1/2" POST
OR
5" POST

3/8" X 2 1/4" SS BUTTON
HEAD CAP SCREW
001-0122 (7)

5/16" SS WASHER
021-0032 (7)

U CHANNEL 79 1/2"
006-0542

3/8" X 3/4" SS SOCKET HEAD
BARREL NUT
002-0062 (7)

660-0138 ROCKIT ATTACHMENT POST 79 1/2"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
006-0542	U CHANNEL 79 1/2"	1
036-1204	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

U CHANNEL 79 1/2": Formed channel, 10 gage galvanized steel. Finished with a baked on powdercoat finish.

HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 19 LBS.

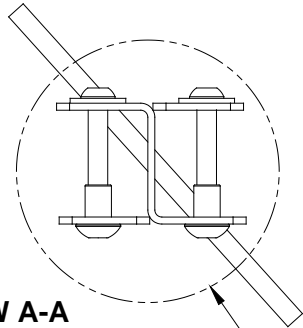
INSTALLATION INSTRUCTIONS

1. Dig footing hole for this post according to the dimensions shown on the site plan as well as other Rockit components that this will be installed with. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach U CHANNEL 79 1/2" to post using hardware specified in the diagram. Tighten Hardware
3. Attach u channel 79 1/2" to the specific Rockit panel components called for on your site plan, using the hardware specified in the diagram.
4. Reference site plan configuration and the instructions for all other Rockit components to assemble entire structure.
5. Tighten all hardware after all components have been assembled loosely.
6. Block-up, level and plumb climber.
7. Pour concrete. Let set for two to three days.
8. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.



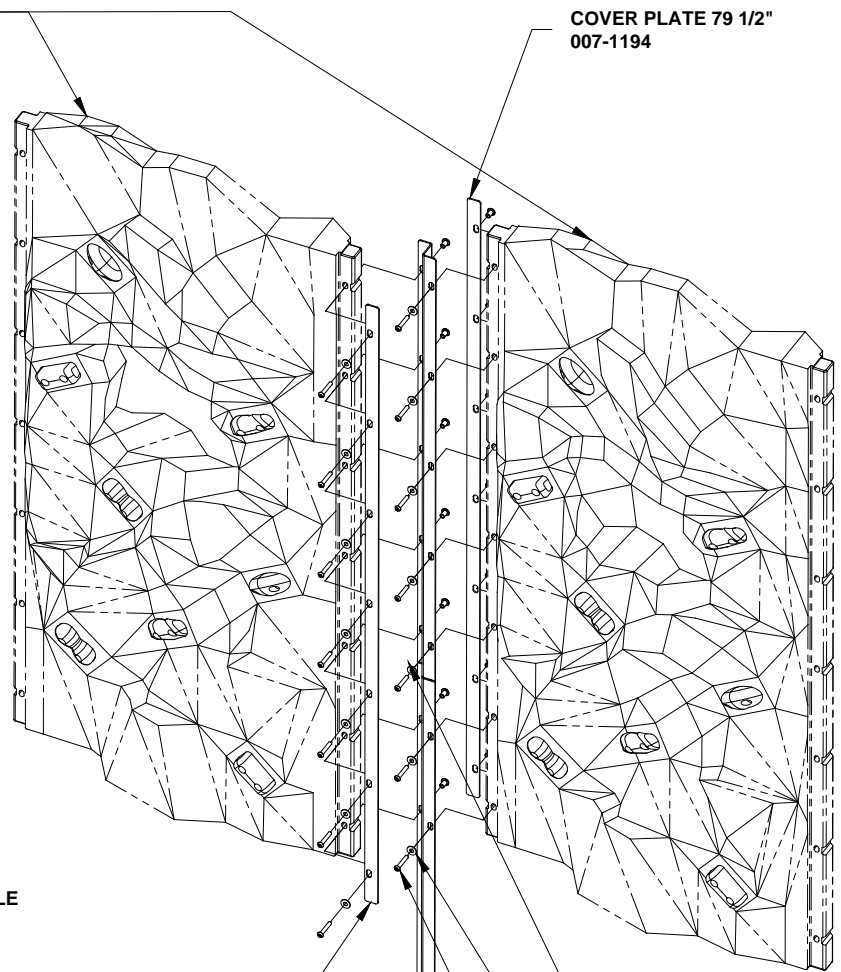
REFERENCE SITE PLAN
FOR SPECIFIC ROCKIT
PANEL INSTRUCTIONS

COVER PLATE 79 1/2"
007-1194



VIEW A-A

FOOTING HOLE



COVER PLATE 79 1/2"
007-1194

3/8" X 3/4" SS SOCKET
HEAD BARREL NUT
002-0062 (14)

3/8" SS WASHER
021-0033 (14)

3/8" X 2 1/4" SS BUTTON
HEAD CAP SCREW
001-0122 (14)

Z CHANNEL 112 3/4"
030-2108

SEE
DETAIL B

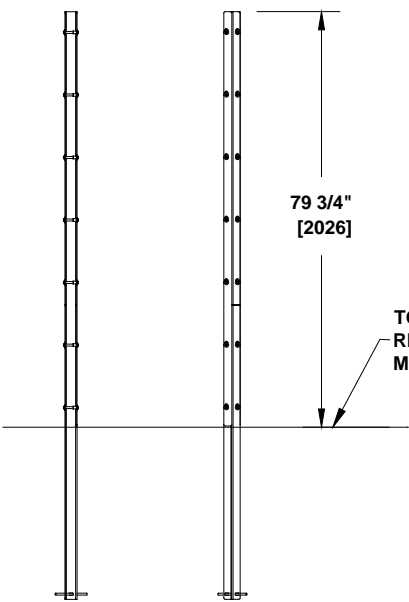
3/8" X 8" ANCHOR ROD
025-0061

DETAIL B

A A

79 3/4"
[2026]

TOP OF
RESILIENT
MATERIAL



660-0141

ROCKIT Z POST 112 3/4"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
007-1194	COVER PLATE 79 1/2"	2
025-0061	3/8" X 8" ANCHOR ROD	1
030-2108	Z CHANNEL 112 3/4"	1
036-1202	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

COVER PLATE 79 1/2": 10 gage galvanized steel plate. Finished with a powdercoat finish.

3/8" X 8" ANCHOR ROD : 3/8" Diameter steel rod.

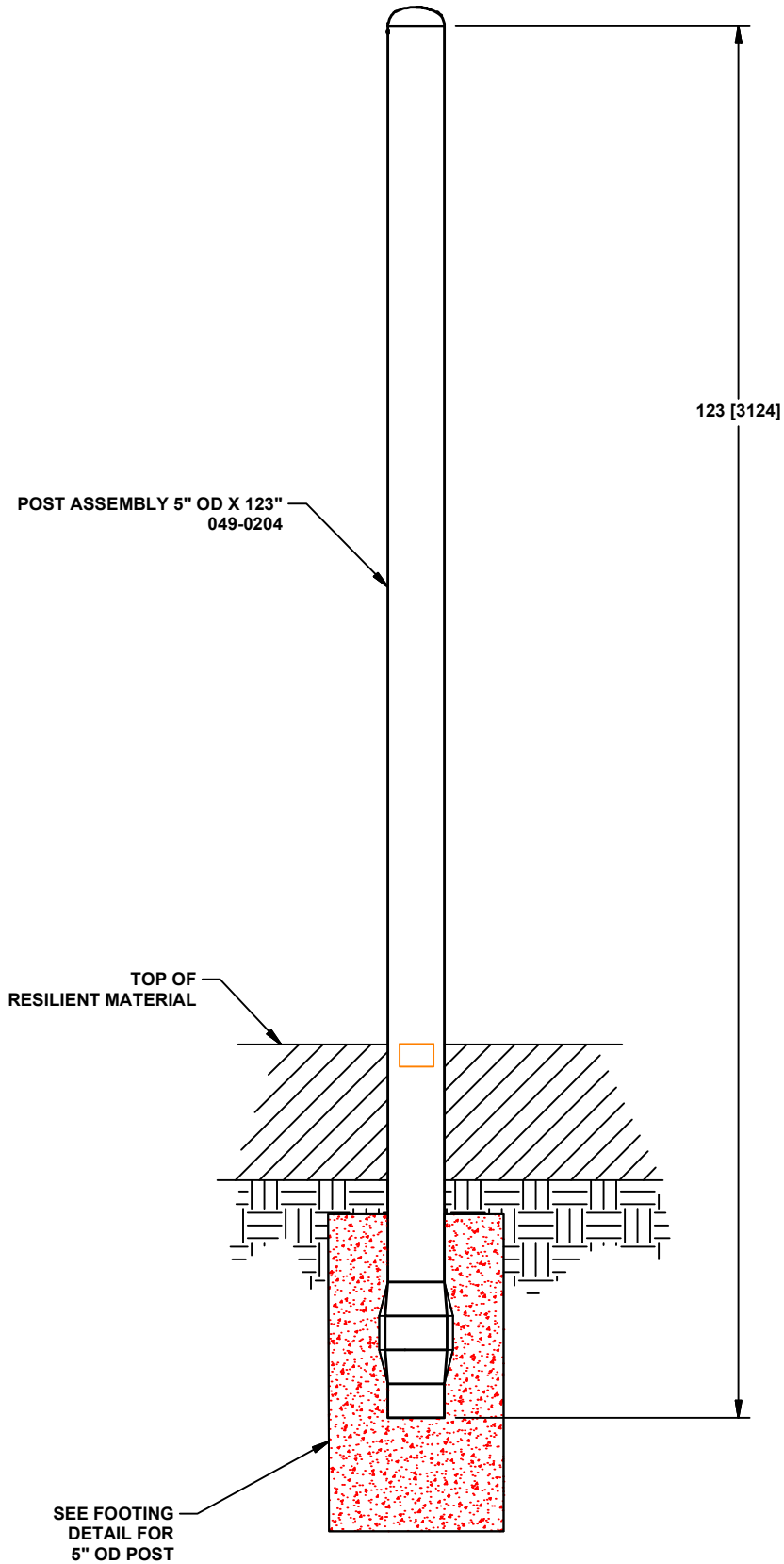
Z CHANNEL 112 3/4": Weldment consisting of formed channels. Finished with baked on powdercoat finish.

HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 38 LBS.

INSTALLATION INSTRUCTIONS

1. Dig footing hole for this post according to the dimensions shown on the site plan as well as other Rockit components that this will be installed with. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach Z CHANNEL 112 3/4" and two cover plates, COVER PLATE 79 1/2" to the specific Rockit panel components called for on your site plan, using the hardware specified in the diagram.
3. Insert 3/8" x 8" ANCHOR ROD into the hole on the bottom of the U channel as shown in DETAIL B.
4. Reference site plan configuration and the instructions for all other Rockit components to assemble entire structure.
5. Tighten all hardware after all components have been assembled loosely.
6. Block-up, level and plumb climber.
7. Pour concrete. Let set for two to three days.
8. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.



670-0165 POST ASSEMBLY 5" OD X 123"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0204	POST ASSEMBLY 5" OD X 123"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

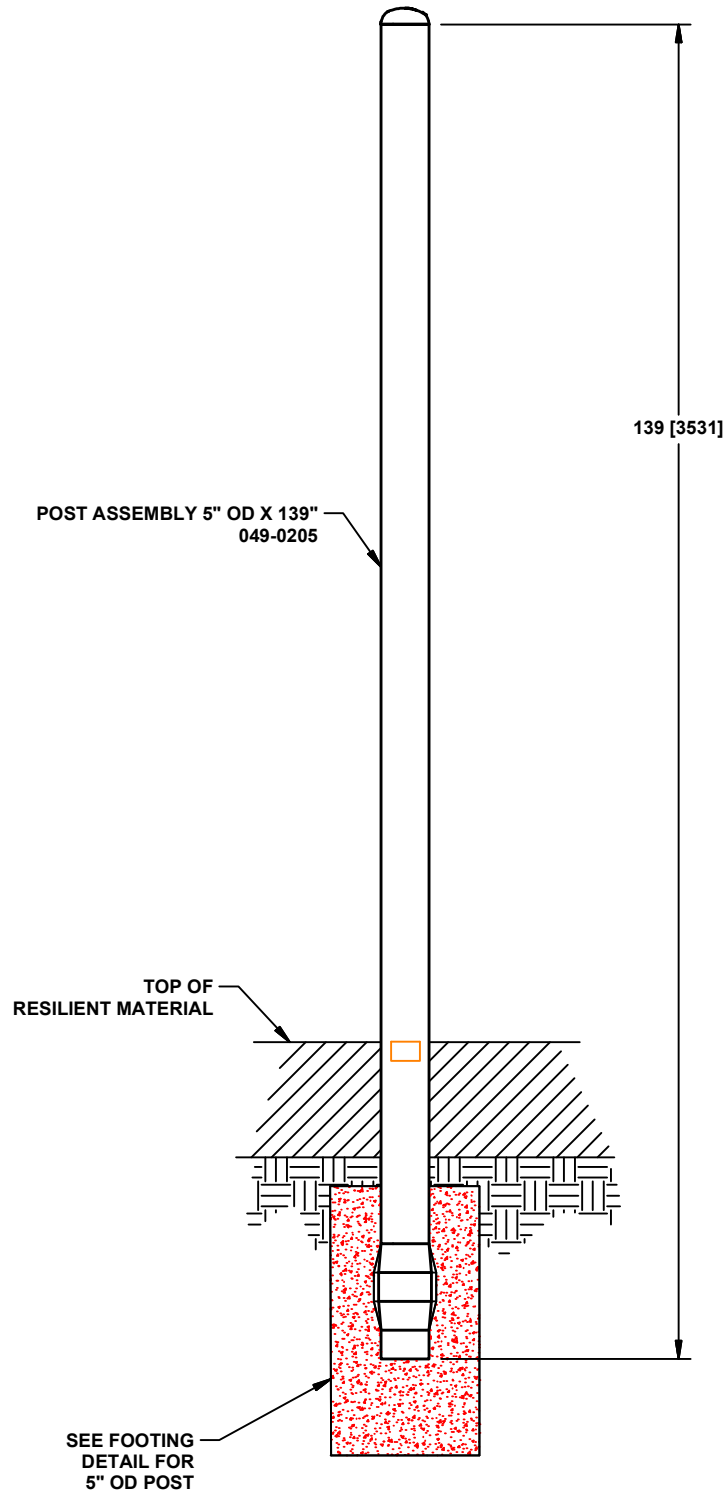
SPECIFICATIONS

POST ASSEMBLY 5" OD X 123": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 66 LBS.

INSTALLATION INSTRUCTIONS

- 1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
- 2. Insert post into footing hole. Block-up and plumb post.
- 3. Pour concrete and let set 2 - 3 days.
- 4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0166 POST ASSEMBLY 5" OD X 139"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0205	POST ASSEMBLY 5" OD X 139"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

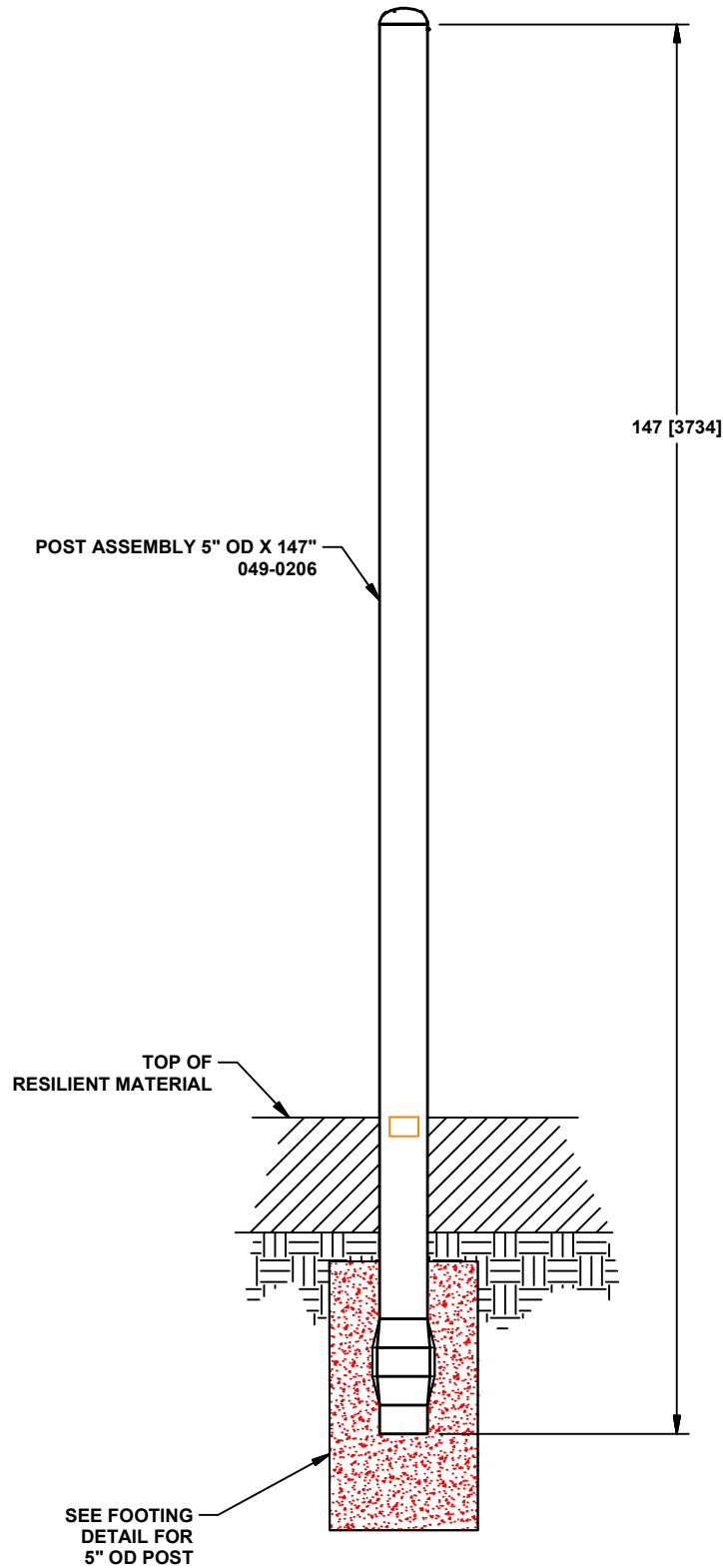
SPECIFICATIONS

POST ASSEMBLY 5" OD X 139": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 74 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0167 POST ASSEMBLY 5" OD X 147"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0206	POST ASSEMBLY 5" OD X 147"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

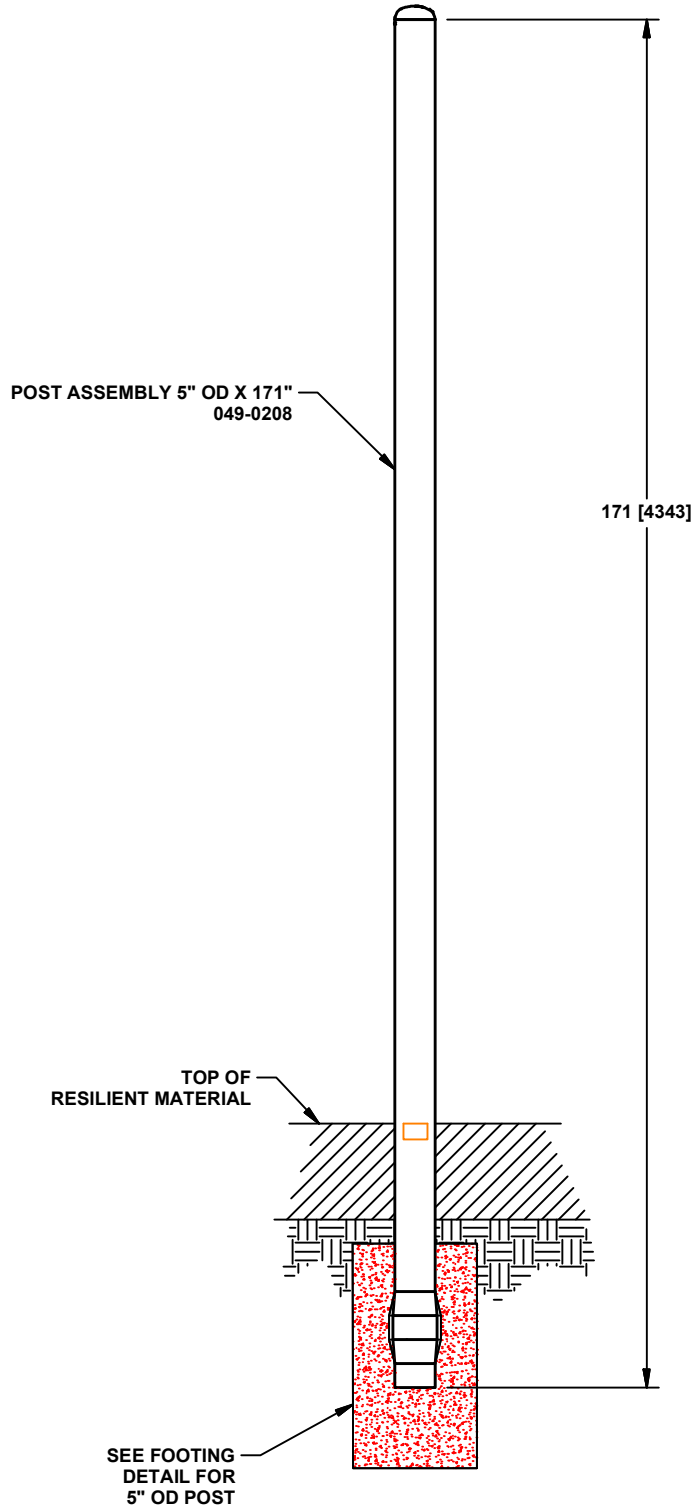
SPECIFICATIONS

POST ASSEMBLY 5" OD X 147": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 78 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0169 POST ASSEMBLY 5" OD X 171"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0208	POST ASSEMBLY 5" OD X 171"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

POST ASSEMBLY 5" OD X 171": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 91 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

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SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) A Handbook for Public Playground Safety** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-Children's Playspaces and Equipment A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

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PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

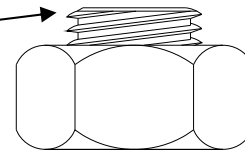


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. **NOTE:** *In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets. See typical mount bracket assembly drawings located in the installation instructions section.*

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

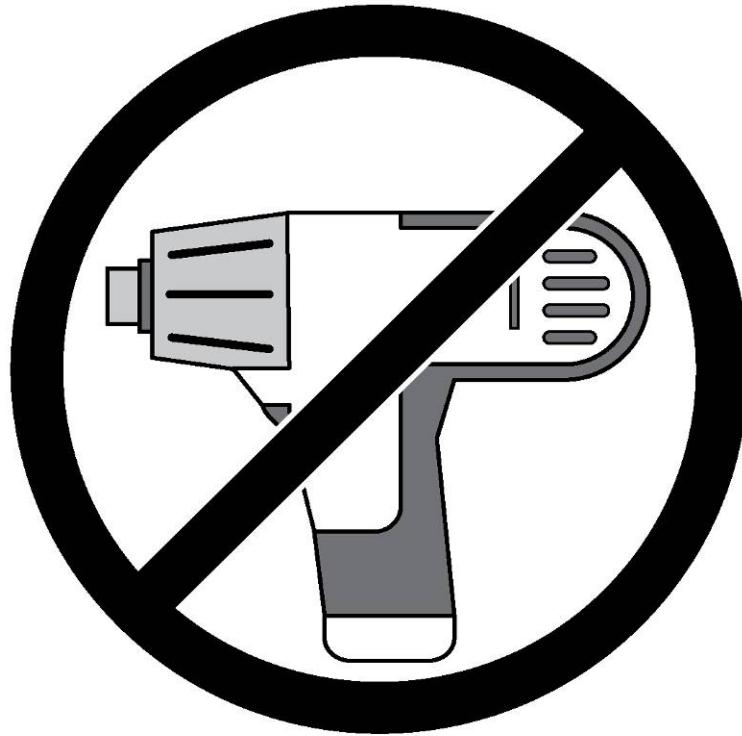
GENERAL INSTALLATION GUIDELINES

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

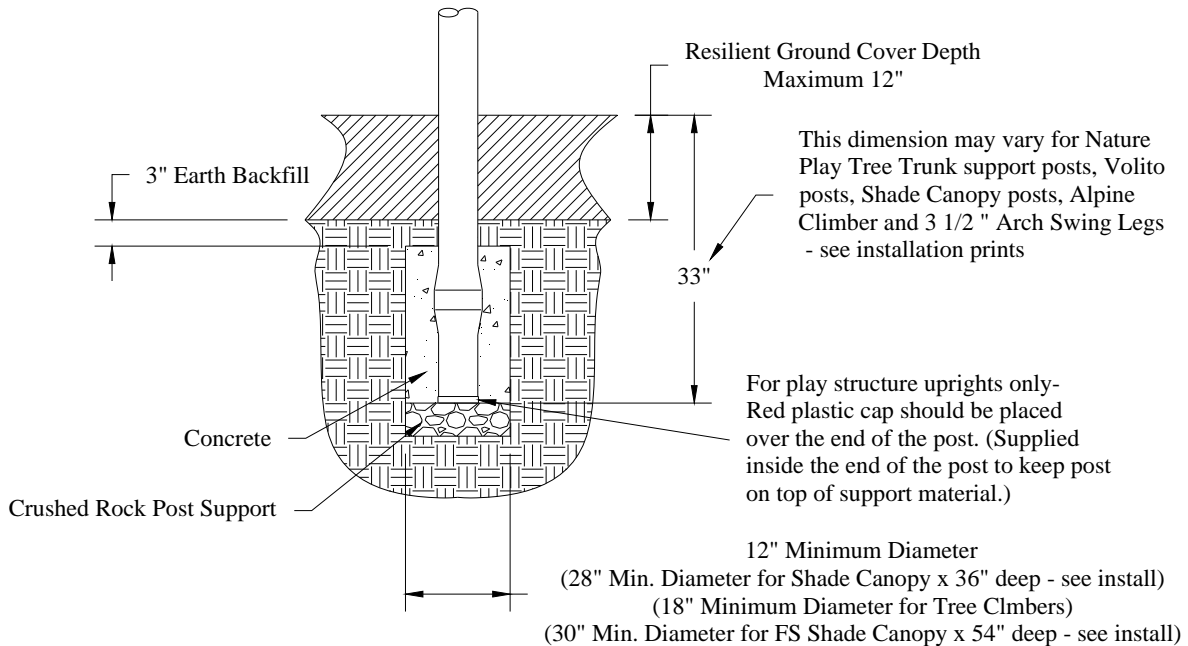


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

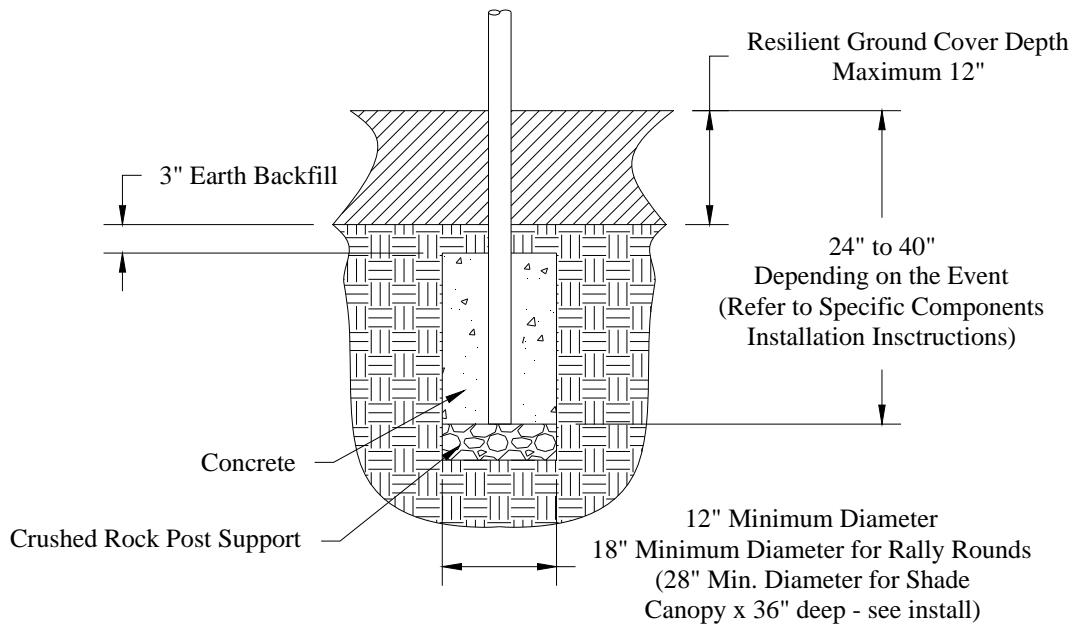


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

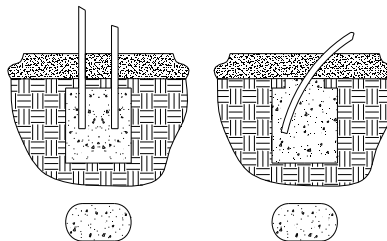


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

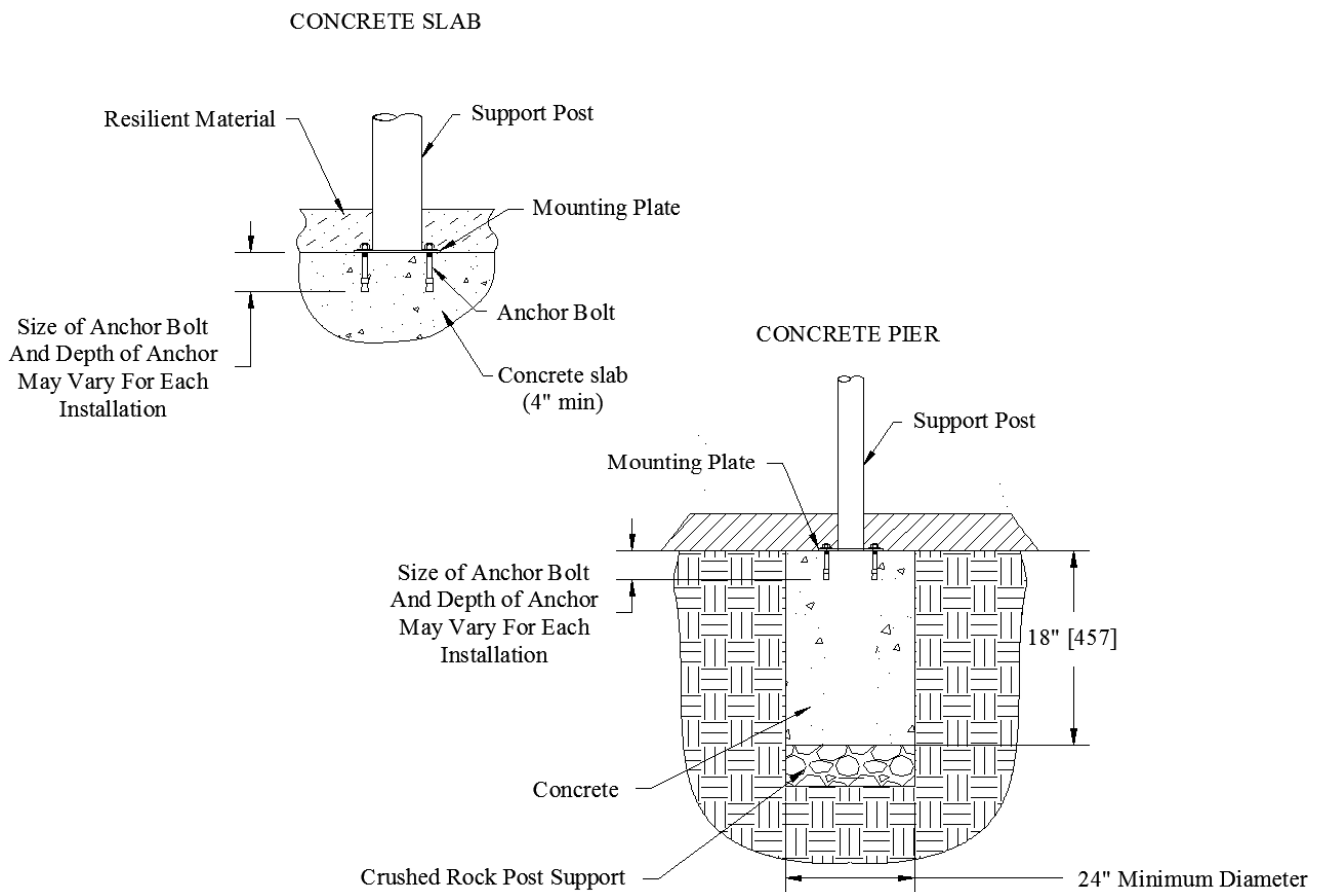


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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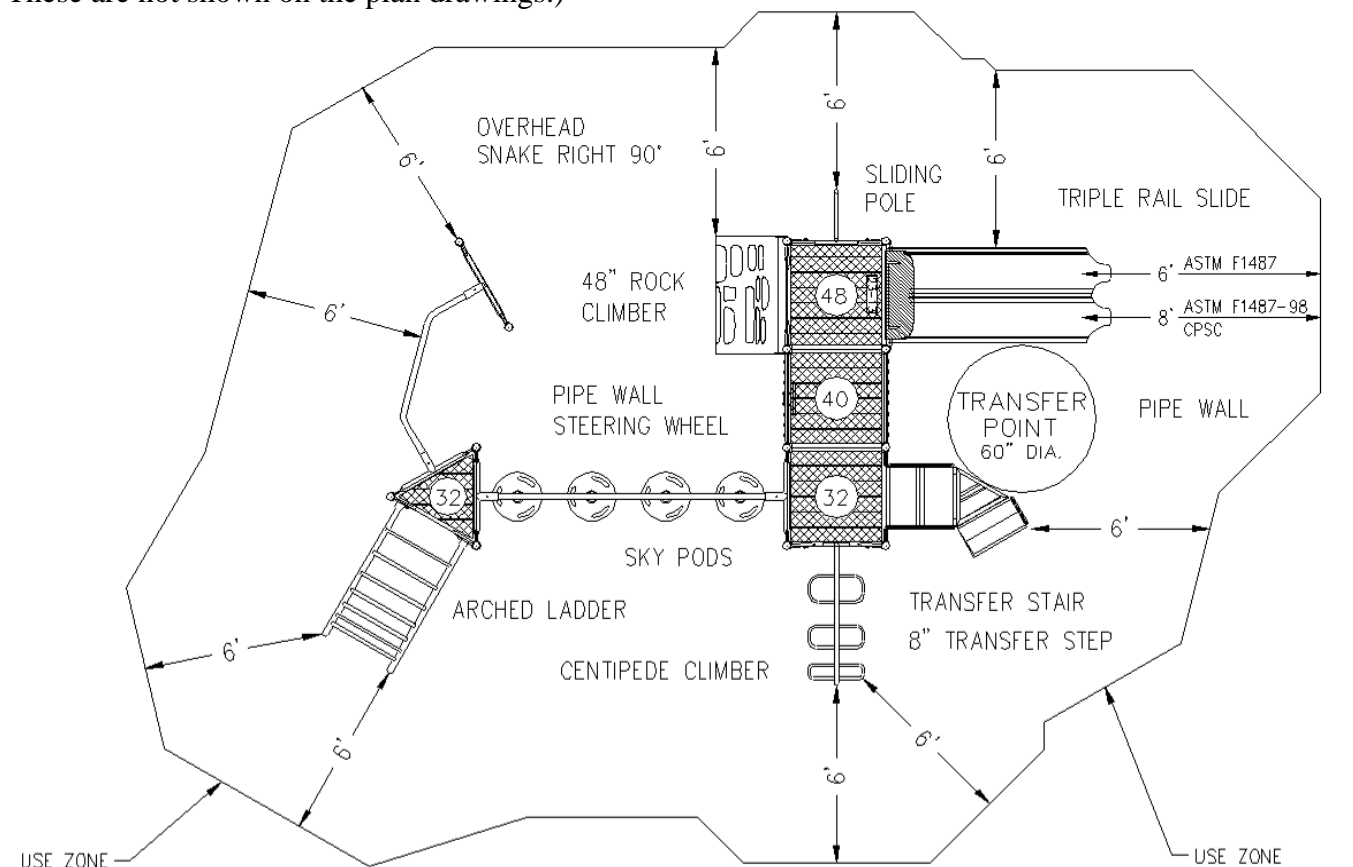
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

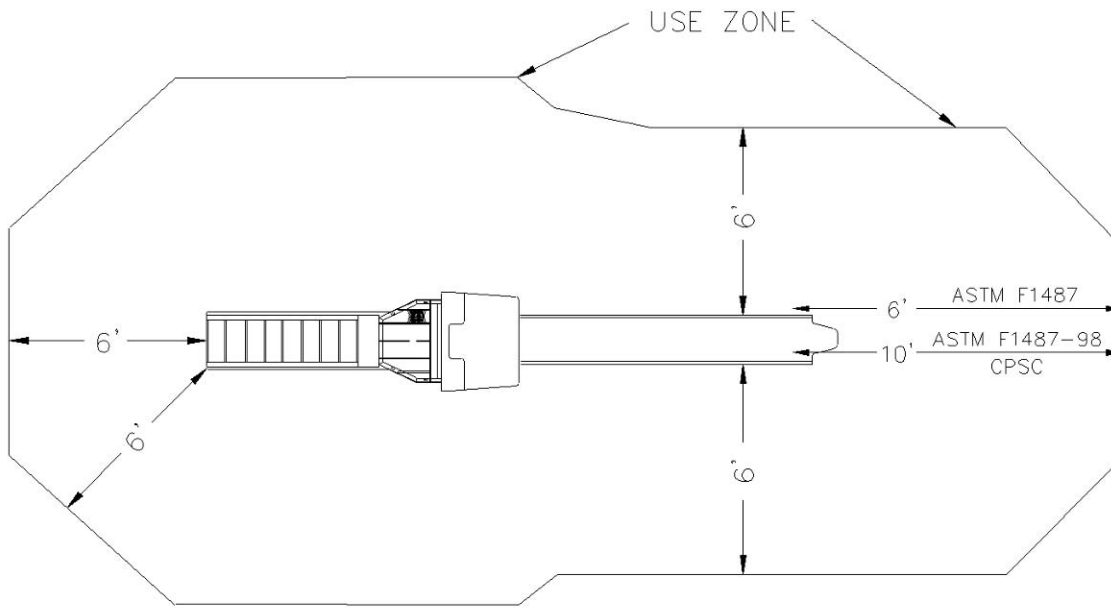


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of Y + 72 in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

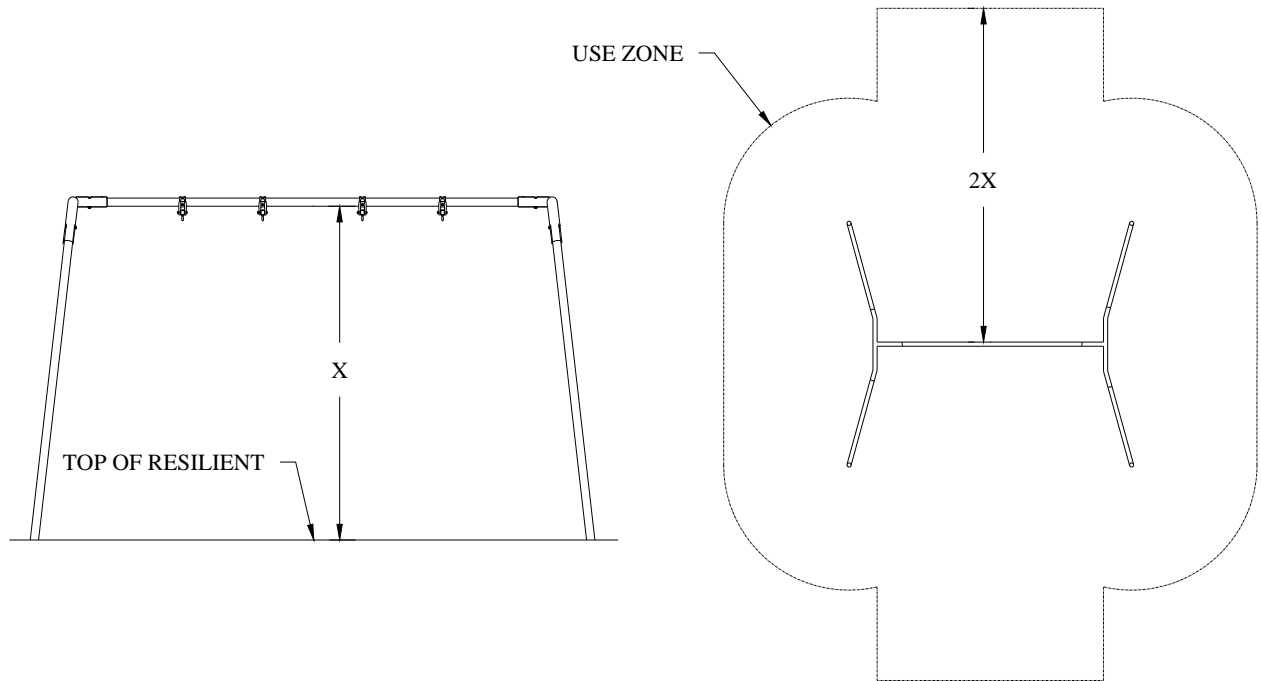


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

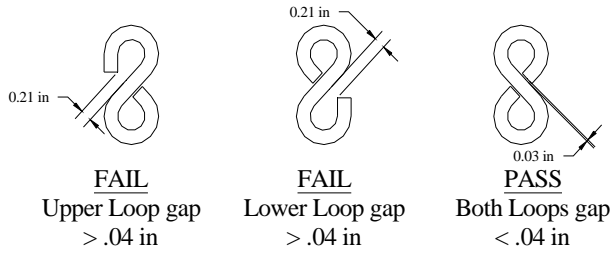


Figure 9: Check loops for .04" gap

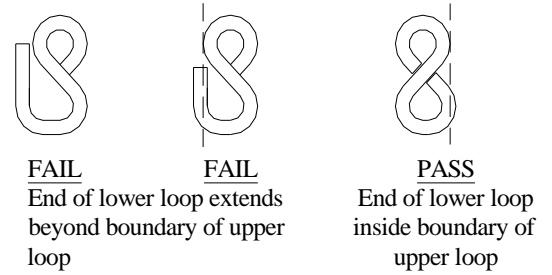


Figure 10: Check lower loop projection



Figure 11: Check upper loop projection

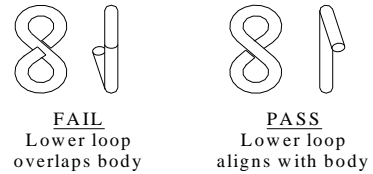


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

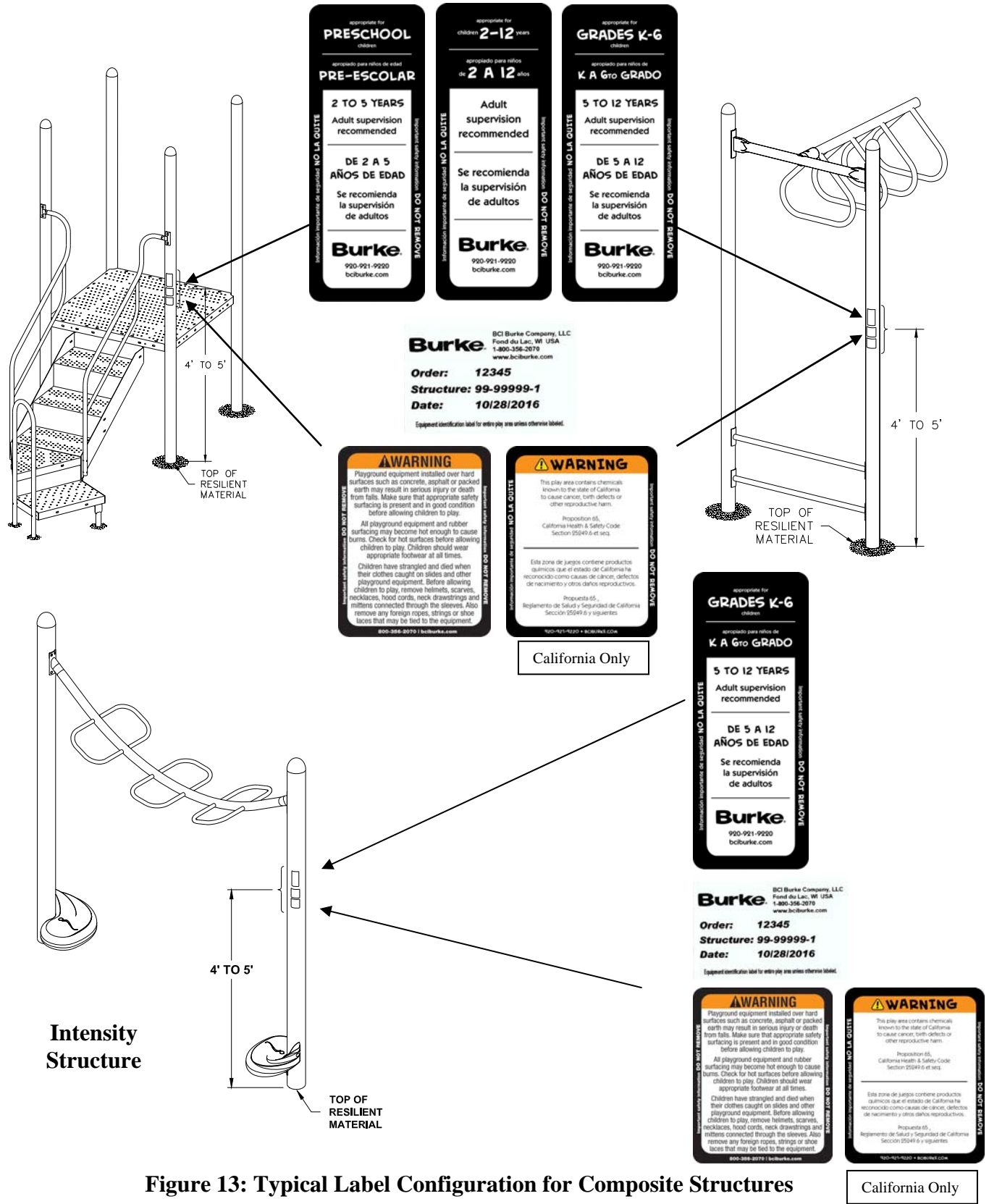


Figure 13: Typical Label Configuration for Composite Structures

California Only

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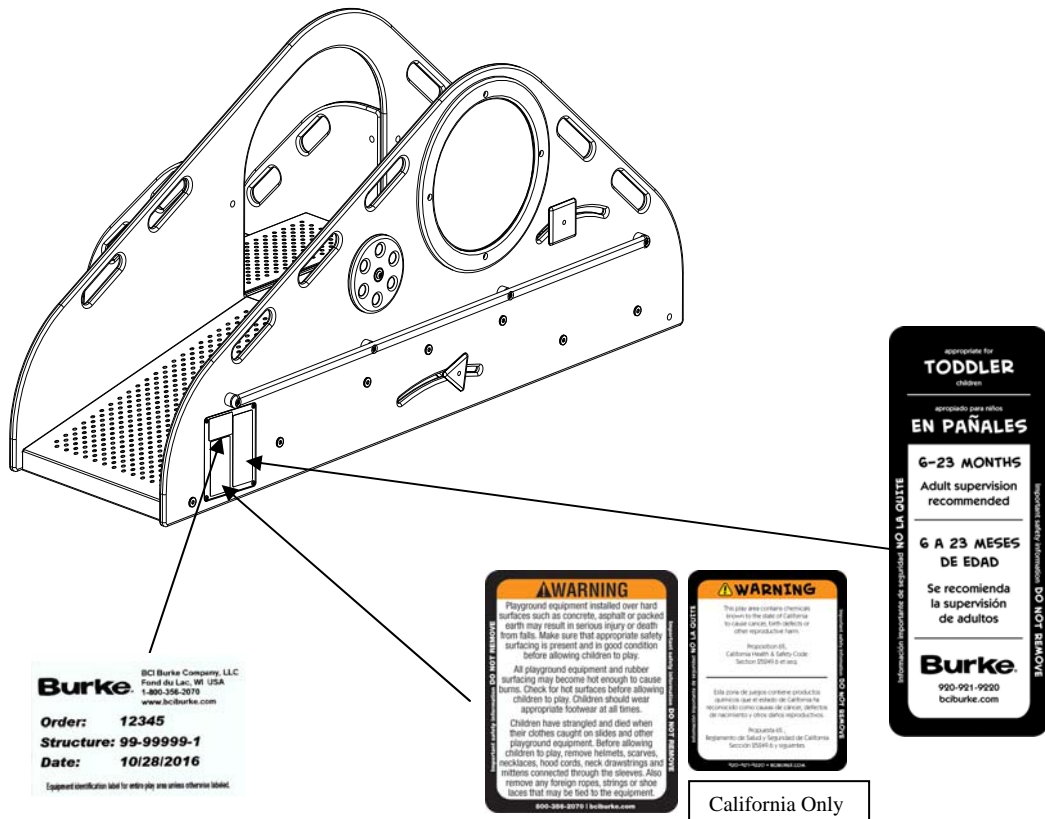


Figure 14: Typical Label Configuration for Composite Structures

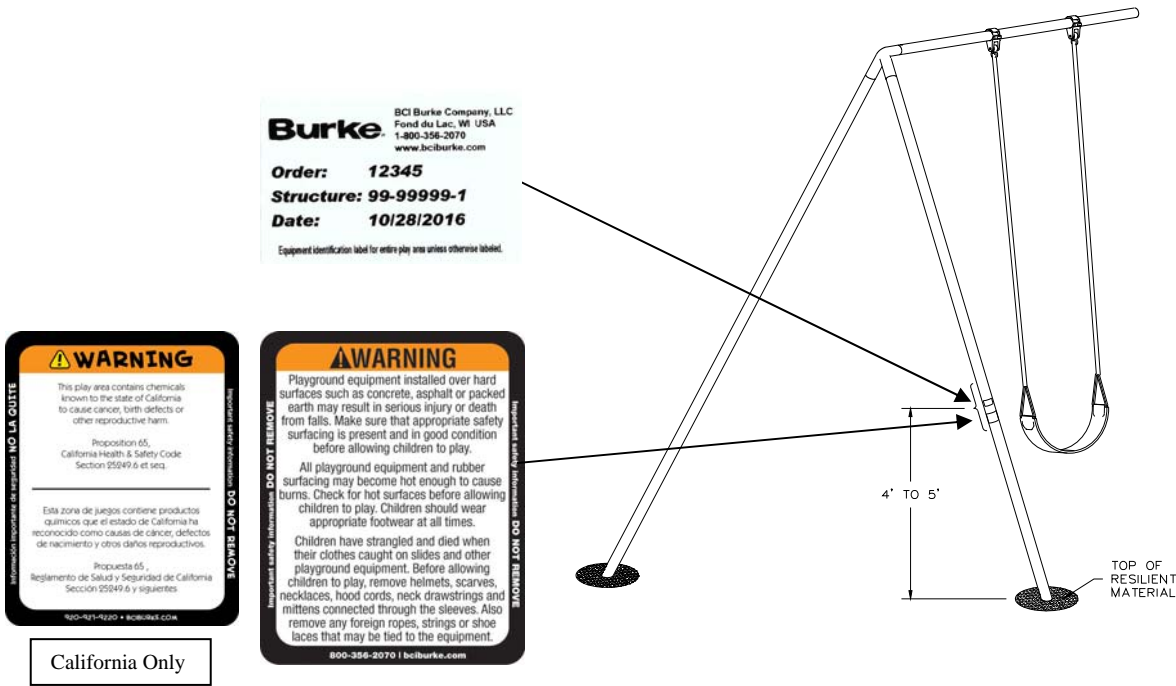


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.
- Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.
 - Clean dried concrete off support posts and any other affected components
 - Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.
 - Insure all post ends have properly installed post caps. Insure the drive rivets are secure.
 - Insure all fasteners are tightened according to specifications listed on your installation instructions.
 - Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.
- Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.
 - Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.
 - Touch up any exposed metal on coated parts following the instructions in the Maintenance section.
 - Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.
 - Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.
 - Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.
 - Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.

Inspected by: _____

Inspection Date: _____

BCI Burke Company, LLC
For questions, call us at:
1-800-356-2070

MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris. **DO NOT** use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

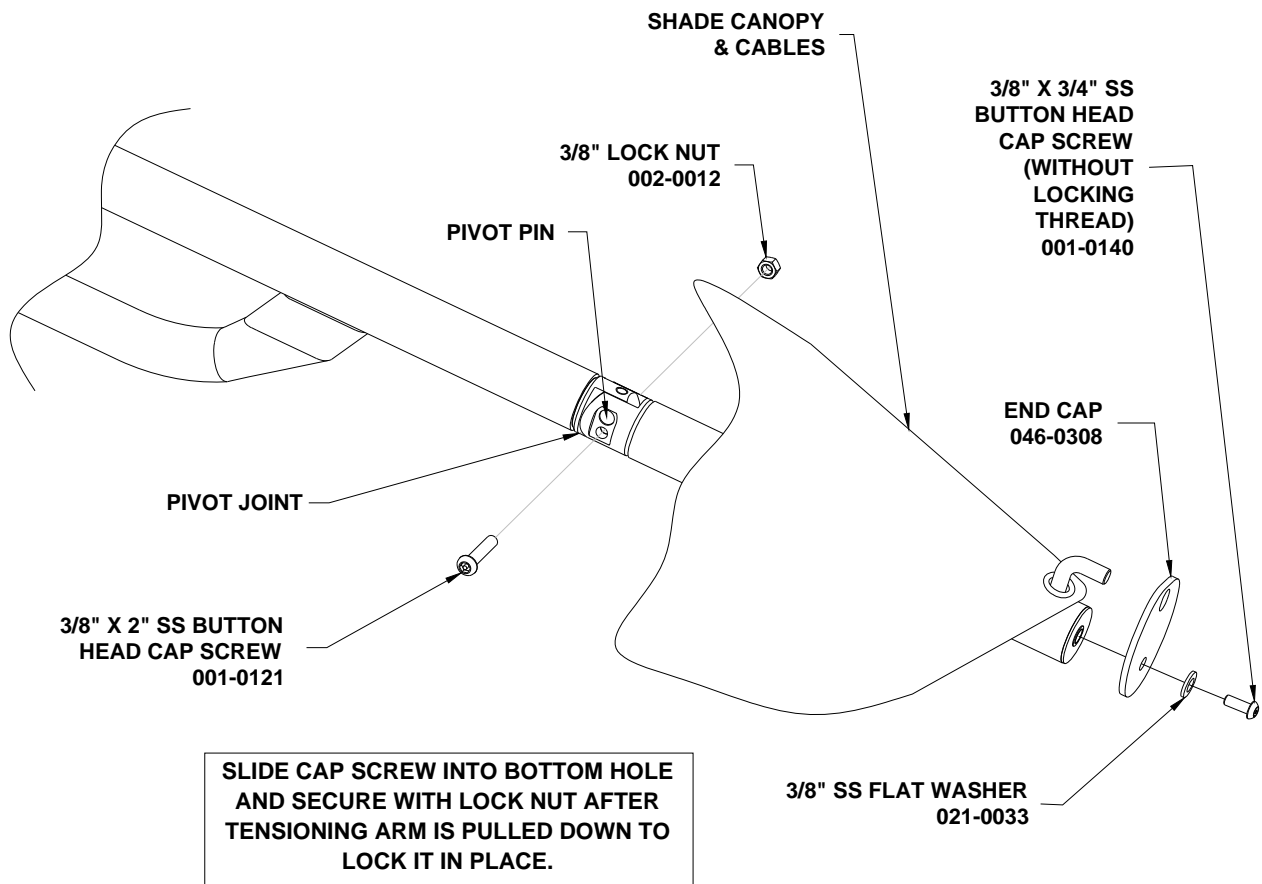


Figure 16: Tensioning Arm in 'Closed Position'

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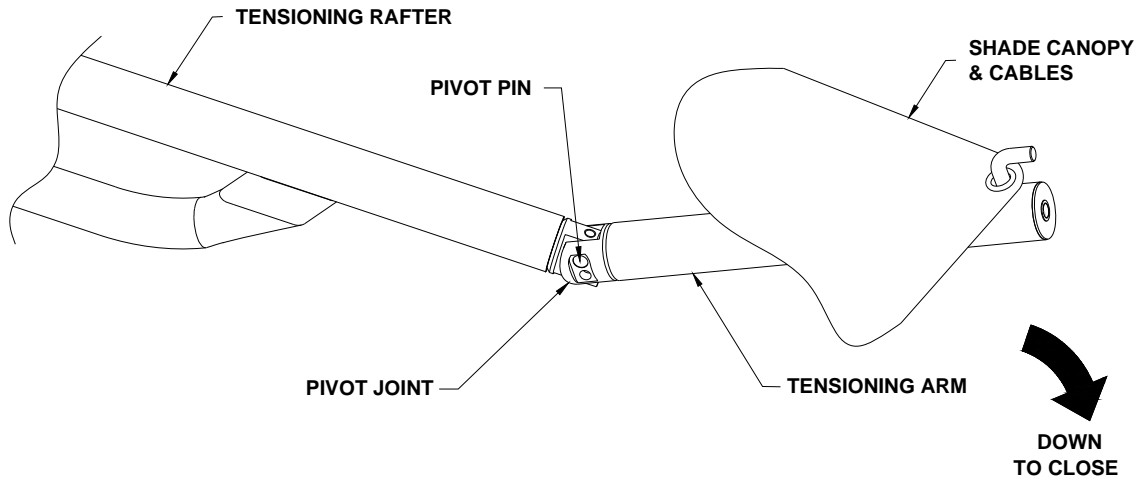


Figure 17: Tensioning Arm in 'Open Position'

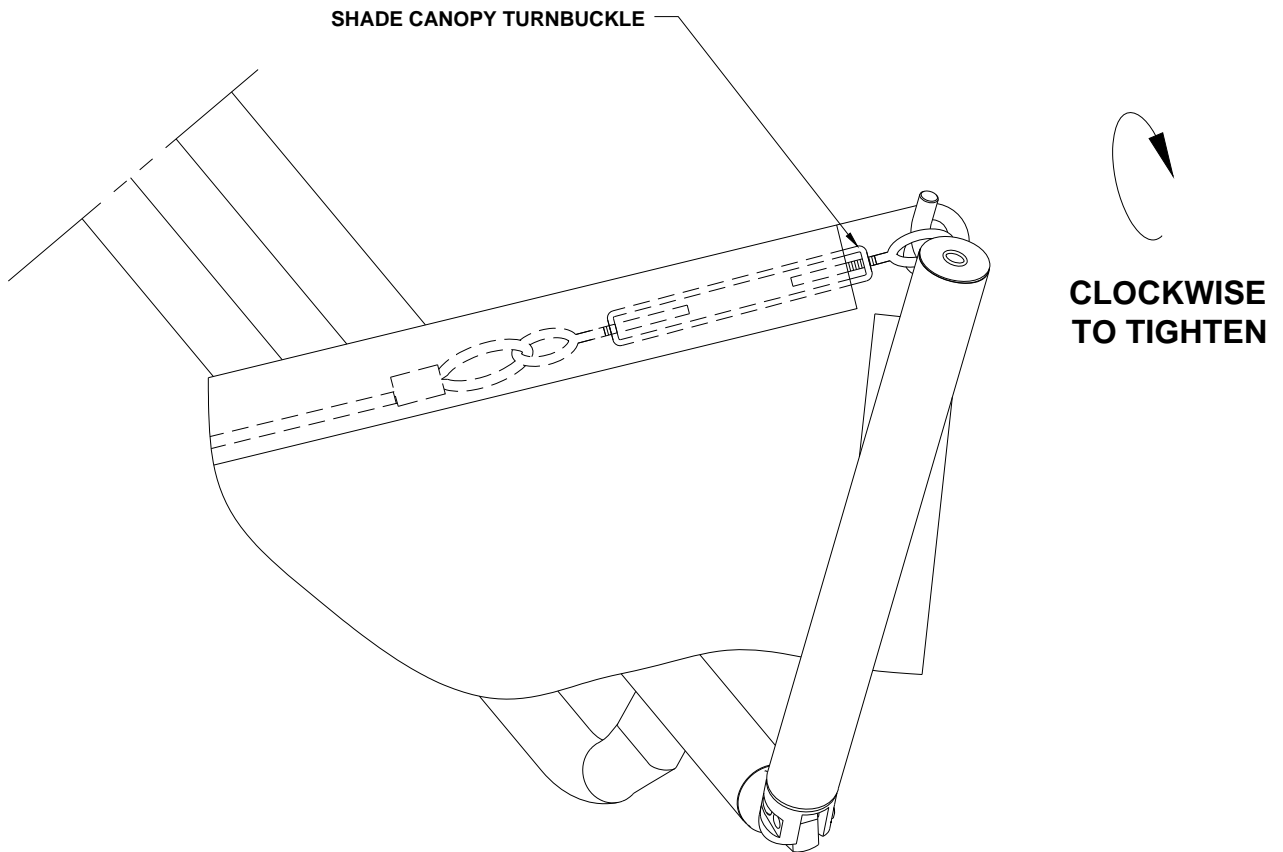


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope **AFTER** flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																		
Visible cracks, bending, warping																		
Accessible sharp edges or points																		
Rusted metal surfaces																		
Rusting of metal and corrosion on aluminum																		
Deformation of open hooks, rings, links, etc.																		
Worn swing hangers and chain																		
Missing or damaged swing seats																		
Heavy swing seats with sharp corners or edges																		
Broken supports/anchors																		
Jagged, exposed or cracked and loose concrete footing																		
Inadequate surfacing material under equipment																		
Exposed ends of pipe. Missing caps or plugs																		
Protruding bolt ends																		
Chipped or peeling paint																		
Cuts or fraying in rope with exposed steel reinforcement strands																		
Vandalism, broken glass, trash, etc.																		
Broken or missing rails, steps, rungs, seats																		
Loose or missing hardware																		
Pinch or crush points																		
Moving components, etc.																		
Lack of lubrication on moving parts																		
Worn bearings																		
Poor drainage areas at footings, slide exits, etc																		
Vandalized or cracked PVC coating																		

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

BCI Burke Company, LLC

For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnnect[®] clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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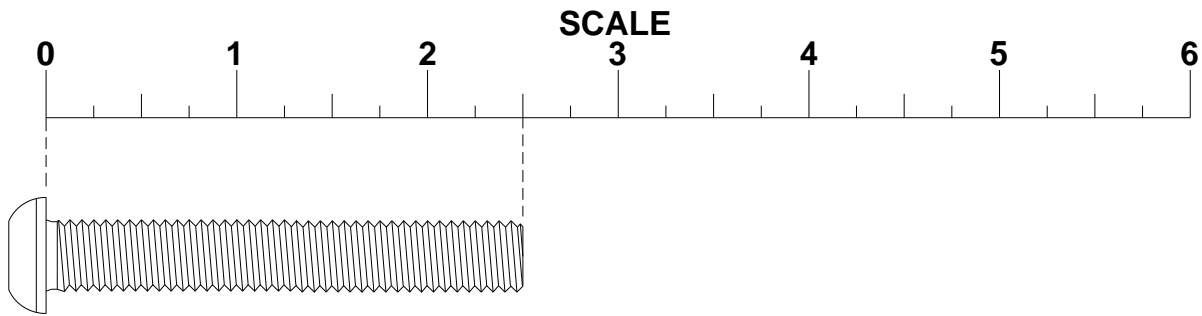
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APPENDIX

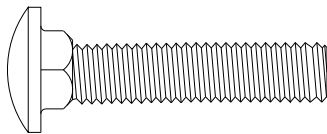
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BCI BURKE HARDWARE

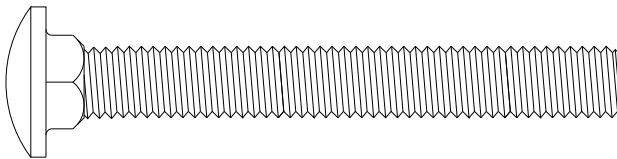


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

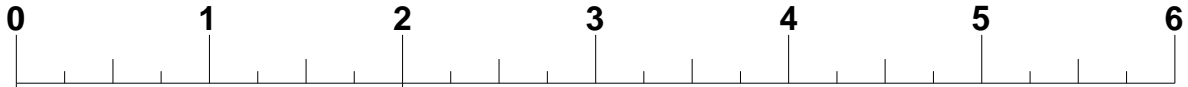
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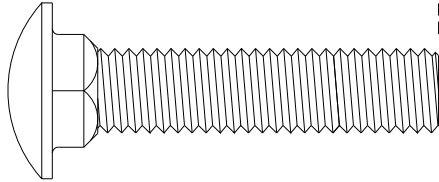
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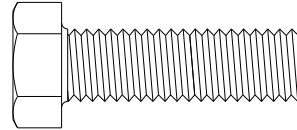
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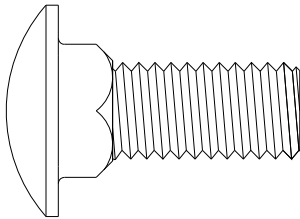
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



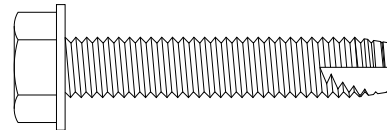
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4 " SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4 " SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

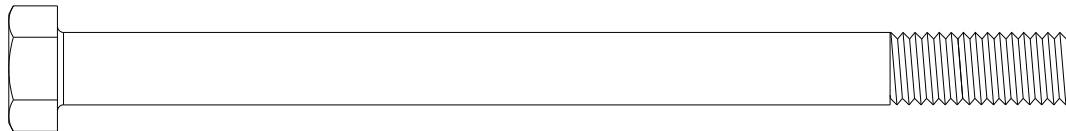


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

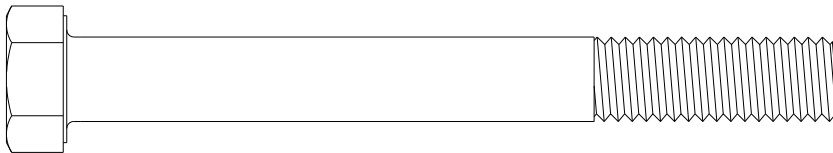
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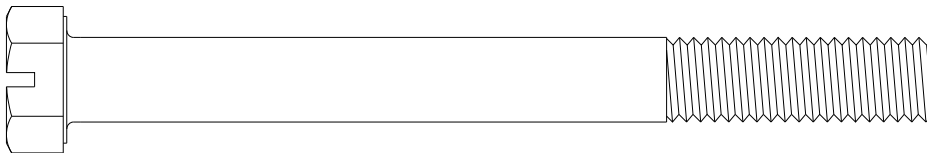
BCI BURKE HARDWARE

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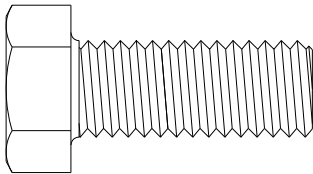
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

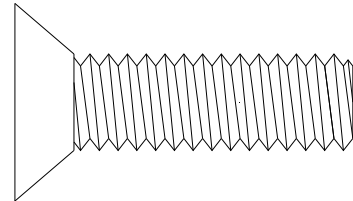


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

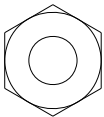
001-0186 - 3/8" X 1 1/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



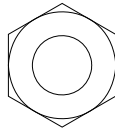
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



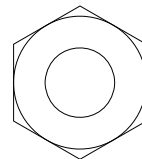
001-0139 - 1/2" X 1 3/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



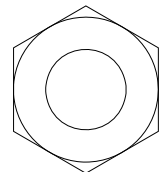
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

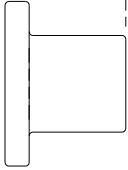
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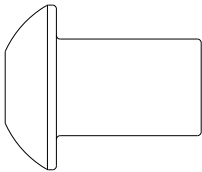
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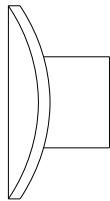
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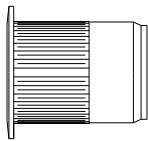
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



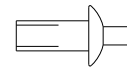
002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



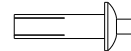
002-0042 - 3/8" NUT INSERT



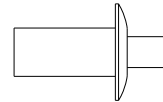
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



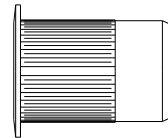
019-0010 - 5/32" X 3/8" DRIVE RIVET



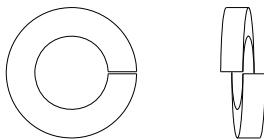
019-0016 - 1/8" X 15/32" DRIVE RIVET



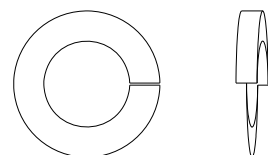
019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0022 - 3/8" LOCK WASHER



021-0027 - 7/16" LOCK WASHER

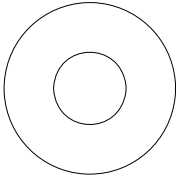
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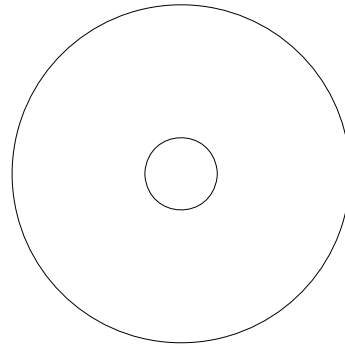
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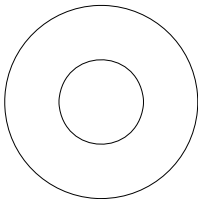
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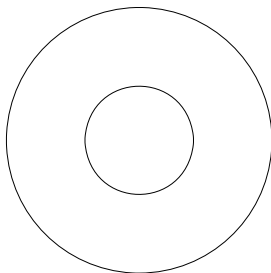
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



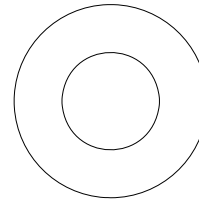
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



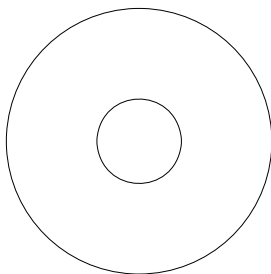
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



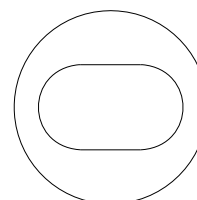
021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

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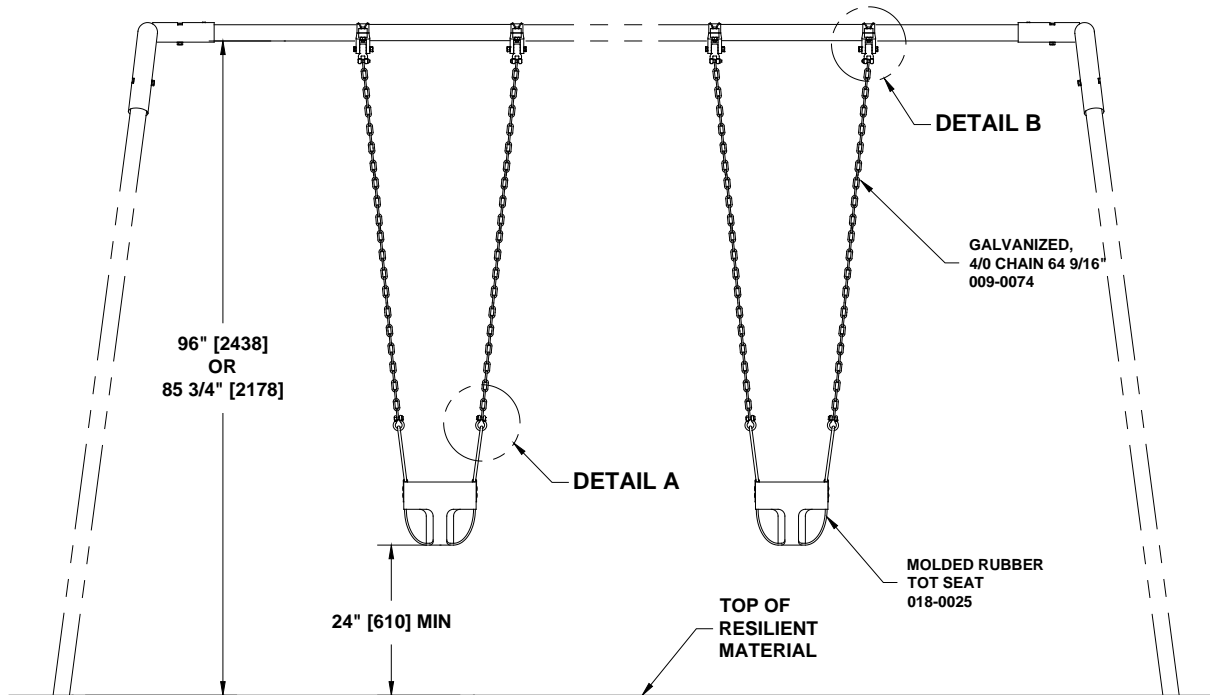
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Installation Instructions

BCI Burke Company, LLC

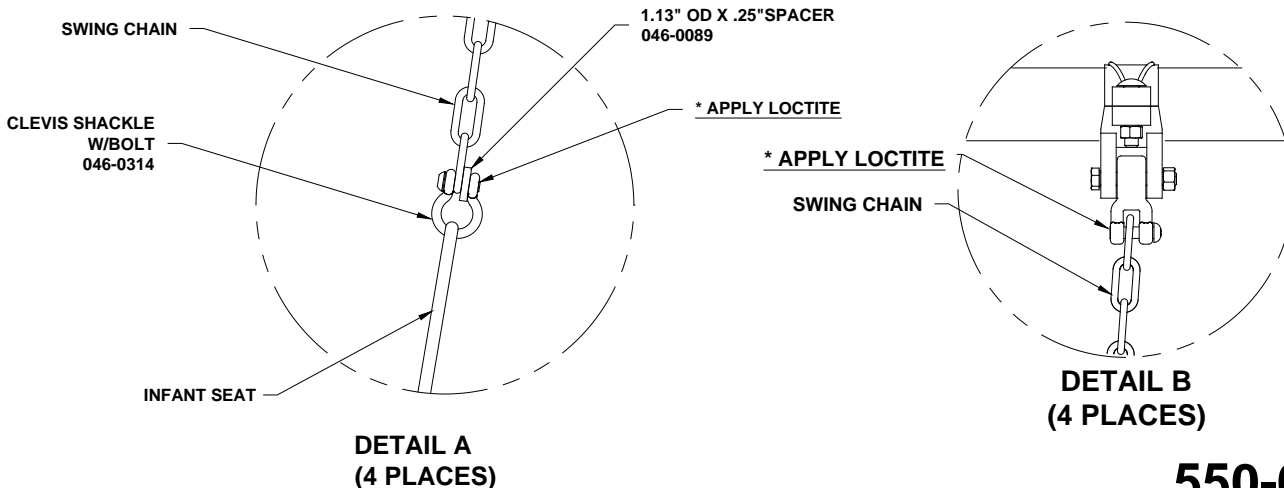
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SWING SEAT HEIGHT REQUIREMENTS
CUT CHAIN OFF THE TOP,
TO ATTAIN 24" MINIMUM
SEAT HEIGHT, MAKE SURE TO
CUT EQUAL AMOUNTS OFF BOTH CHAINS.

IMPORTANT: APPLY LOCTITE
TO BOLT BEFORE TIGHTENING



550-0100
TOT SEAT, 7' & 8' PAIR, STD CHAIN

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
009-0074	GALVANIZED, 4/0 CHAIN 64 9/16"	4
018-0025	MOLDED RUBBER TOT SEAT	2
046-0089	SPACER 1.13" OD X .25"	4
046-0291	LOCTITE	1
046-0314	CLEVIS SHACKLE W/BOLT	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED, 4/0 CHAIN 64 9/16": 3/8" diameter, 4/0 straight coil chain.

MOLDED RUBBER TOT SEAT: Molded rubber, reinforced with a steel insert. Riveted galvanized attachment hardware.

SPACER 1.13" OD X .25": 1/4" Nylatron GS.

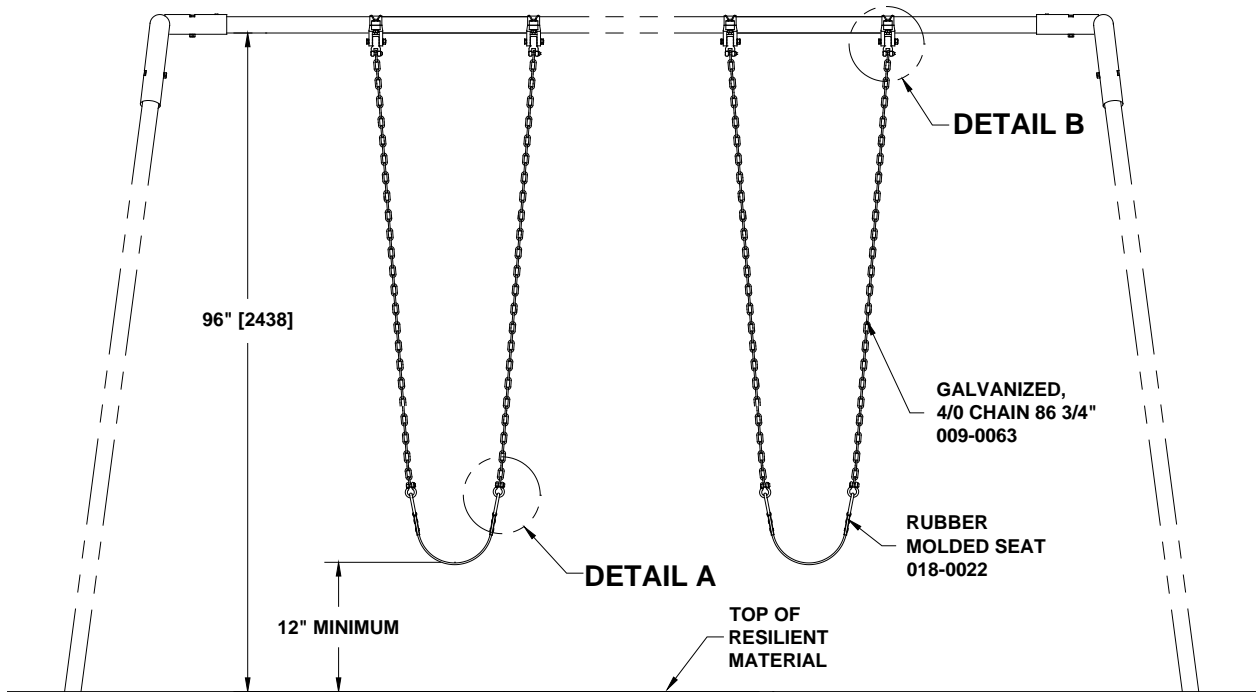
LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

CLEVIS SHACKLE W/BOLT: 5/16" Shackle with a 3/8" X 1 1/2" bolt.

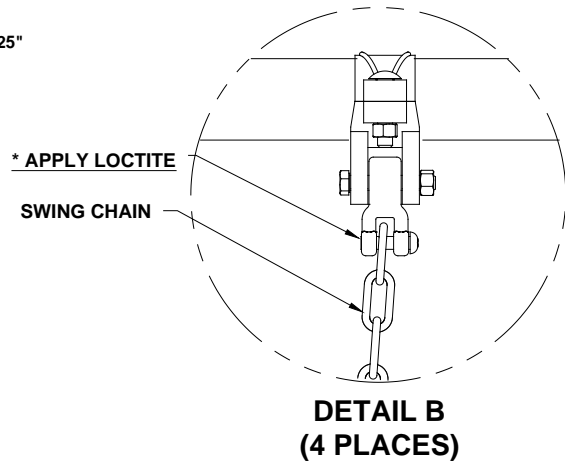
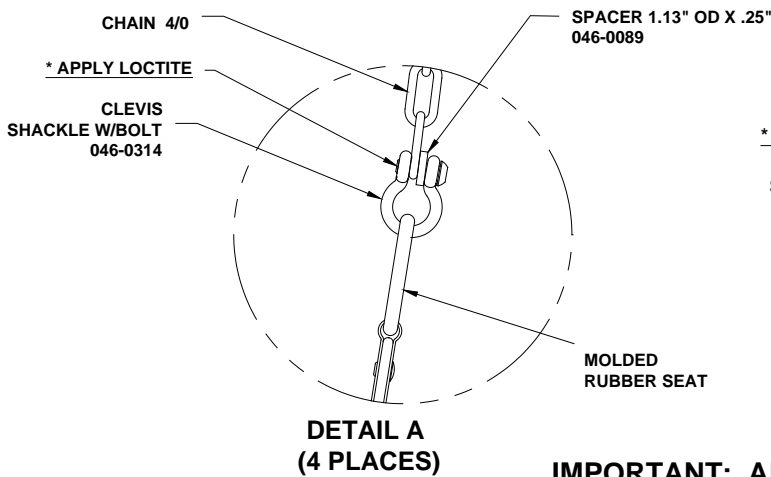
SHIPPING WEIGHT: 24 LBS.

INSTALLATION INSTRUCTIONS

1. Unscrew bolt on swing hanger and attach swing CHAIN 4/0 to swing hanger. Apply LOCTITE to all bolts on hangers before tightening. See DETAIL B.
2. Unscrew bolt in CLEVIS SHACKLE and slide shackles onto both sides of MOLDED RUBBER SEAT. See DETAIL A.
3. Determine what length to cut the chains. Attach the seat to the chains with SPACER and shackle at your desired height. Note there must be a minimum of 24" between the underside of the seat and the top of the resilient material.
4. With the seats at the desired heights and also attaining the 24" minimum clearance, cut and remove the excess chain. Make sure to cut the same length off each chain so that the seat remains level. Apply loctite to all shackle bolts and tighten.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



SWING SEAT HEIGHT REQUIREMENTS
CUT CHAIN OFF THE TOP,
TO ATTAIN 12" MINIMUM
SEAT HEIGHT, MAKE SURE TO
CUT EQUAL AMOUNTS OFF BOTH CHAINS.



IMPORTANT: APPLY LOCTITE
TO END OF BOLTS BEFORE TIGHTENING

550-0112

BELT SEAT, 8' PAIR, STD CHAIN

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
009-0063	GALVANIZED 4/0 CHAIN 86 3/4"	4
018-0022	MOLDED RUBBER SEAT	2
046-0089	SPACER 1.13" OD X .25"	4
046-0291	LOCTITE	1
046-0314	CLEVIS SHACKLE W/BOLT	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED 4/0 CHAIN 86 3/4": 3/8" diameter, 4/0 straight coil chain.

MOLDED RUBBER SEAT: Molded rubber, reinforced with a steel insert. Riveted galvanized attachment hardware.

SPACER 1.13" OD X .25": 1/4" Nylatron GS.

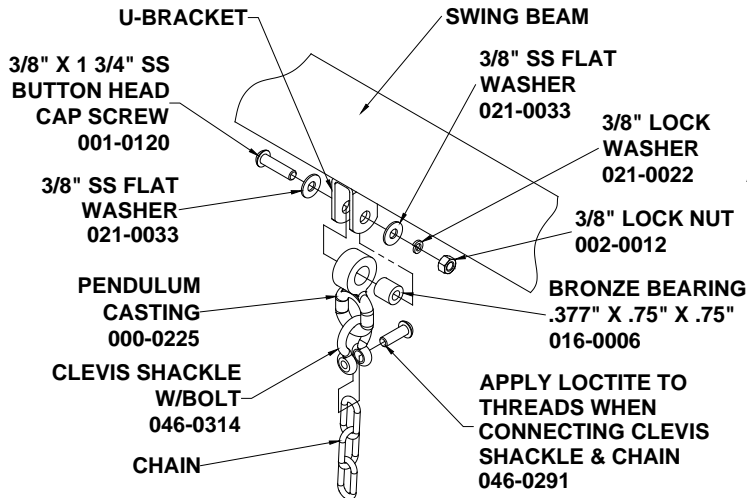
LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

CLEVIS SHACKLE W/BOLT: 5/16" Shackle with a 3/8" X 1 1/2" bolt.

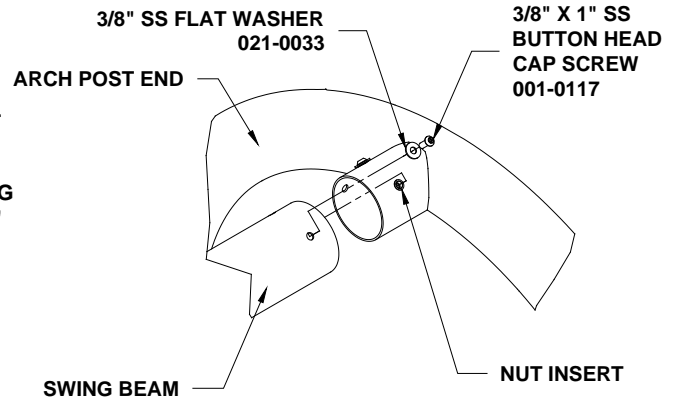
SHIPPING WEIGHT: 20 LBS.

INSTALLATION INSTRUCTIONS

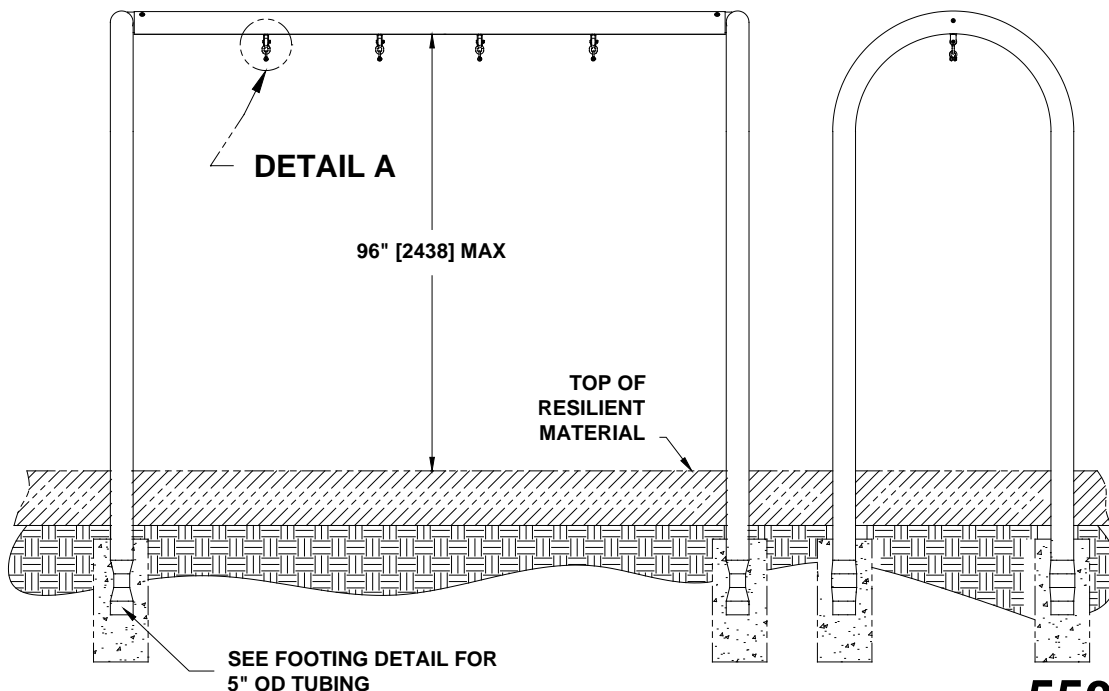
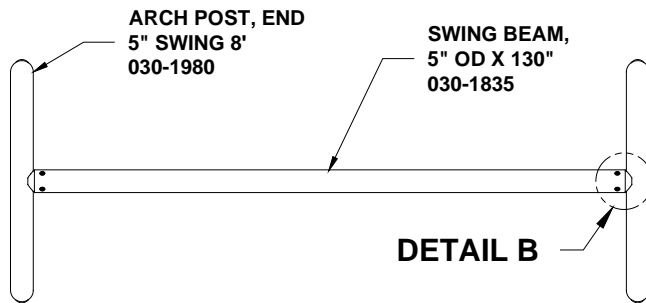
1. Unscrew bolt on swing hanger and attach swing CHAIN 4/0 to swing hanger. Apply LOCTITE to all bolts on hangers before tightening. See DETAIL B.
2. Unscrew bolt in CLEVIS SHACKLE and slide shackles onto both sides of MOLDED RUBBER SEAT. See DETAIL A.
3. Determine what length to cut the chains. Attach the seat to the chains with SPACER and shackle at your desired height. Note there must be a minimum of 12" below the seat between the underside of the seat and the top of the resilient material. When measuring, the seat must be pulled down as if someone were sitting in it and the resilient material must be at it's finished depth.
4. With the seats at the desired heights and also attaining the 12" minimum clearance, cut and remove the excess chain. Make sure to cut the same length off each chain so that the seat remains level. Apply loctite to all shackle bolts and tighten.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



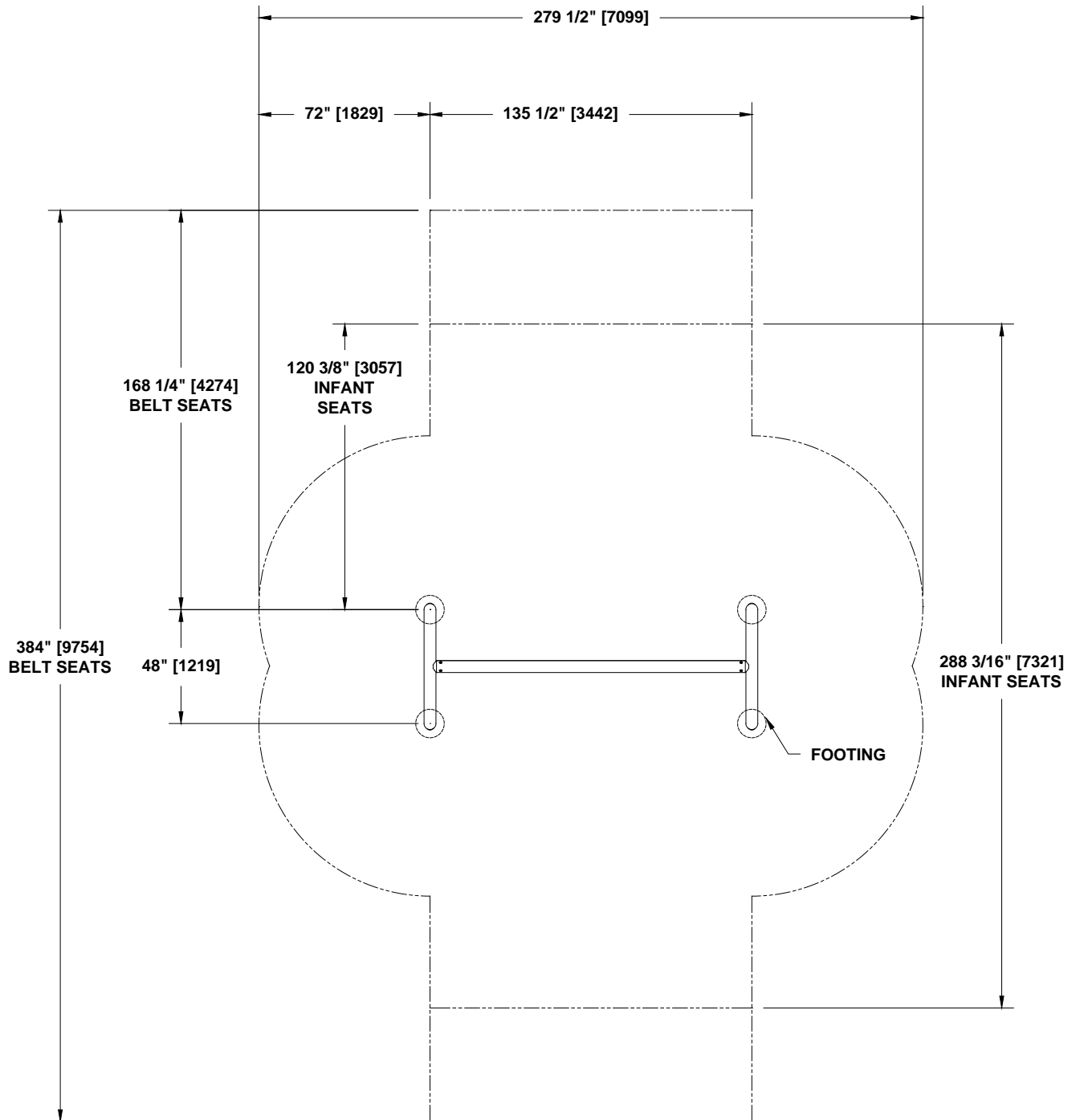
**DETAIL A
(4 PLACES)**



**DETAIL B
(2 PLACES)**



**550-0135
5" OD ARCH SWING**



FALL ZONE PER ASTM/CPSC STANDARDS

550-0135 5" OD ARCH SWING

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0225	PENDULUM CASTING	4
016-0006	BRONZE BEARING .377" X .75" X .75"	4
030-1835	SWING BEAM, 5" OD X 130"	1
030-1980	ARCH POST END, 5" OD SWING	2
036-0227	HARDWARE PACKAGE	1
036-0788	HARDWARE PACKAGE	2
036-1414	HARDWARE PACKAGE	1
046-0291	LOCTITE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PENDULUM CASTING: Galvanize plated, grade 32510, malleable iron

BRONZE BEARING .377" X .75" X .75": Oil impregnated, bronze.

SWING BEAM, 5" OD X 130": One piece all welded construction consisting of 5" OD x 11 GA galvanized steel tubing and 8 GA galvanized steel plate. Finished with a baked on powder coating.

ARCH POST END, 5" OD SWING: One piece all welded construction consisting of 5" OD x 11 GA & 11/16" OD low carbon steel bar and 4 1/2" OD x 11 GA steel tubing w/cadmium and yellow chromate plating, and an assembly of 3/8" nut inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: 5/16" Shackle with a 3/8" X 1 5/32" bolt.

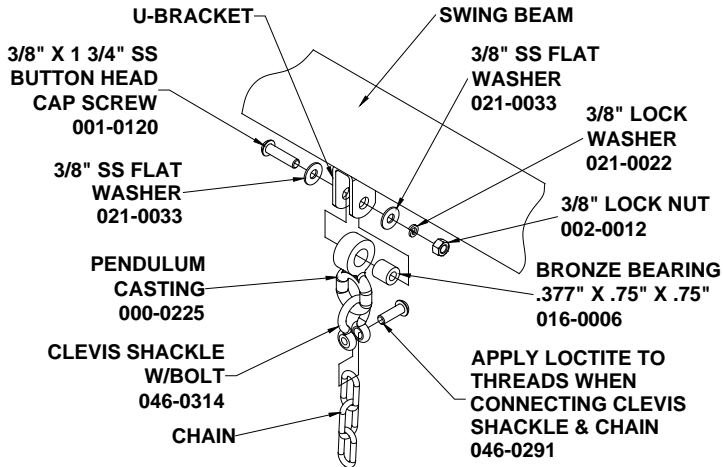
HARDWARE PACKAGE: Stainless steel washers & screws and zinc plated steel lock nuts & washers.

LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

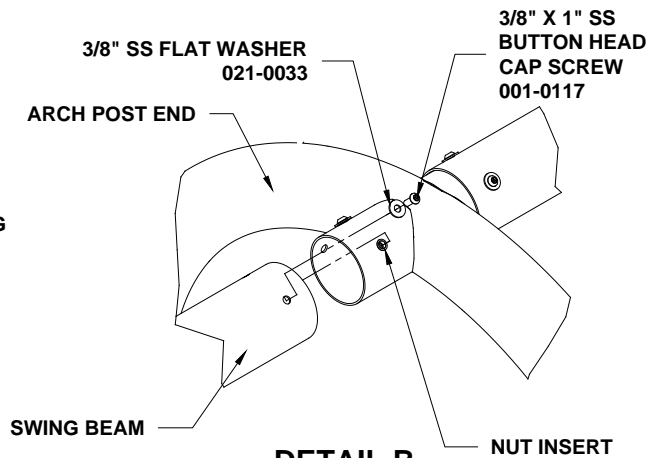
SHIPPING WEIGHT: 367 LBS.

INSTALLATION INSTRUCTIONS

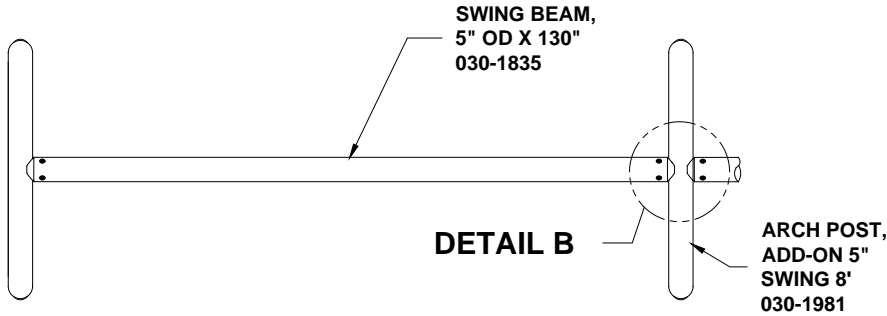
1. Determine 5" OD post locations per dimensions shown.
2. Dig footing holes. See typical concrete footing drawing for 5" OD posts, which is located in the preface of the installation manual.
3. Attach 5" OD x 130" SWING BEAM to both ARCH POST, END 5" OD SWING by sleeving the swing beam over arch post stub and fasten using 3/8" X 1" SS button head cap screws and 3/8" SS flat washers. Tighten hardware. See DETAIL B.
4. Position frame into footing holes. Block up, plumb, and level frame.
5. Pour concrete and allow it to set for 2 to 3 days.
6. Insert BRONZE BEARING .377" X .75" X .75" into PENDULUMS and attach to swing beam as shown in DETAIL A. Tighten hardware.
7. Attach swing chain to pendulum using CLEVIS SHACKLE W/ BOLT. Tighten hardware. See DETAIL A.
8. **INSTALL RESILIENT SURFACING MATERIAL.**



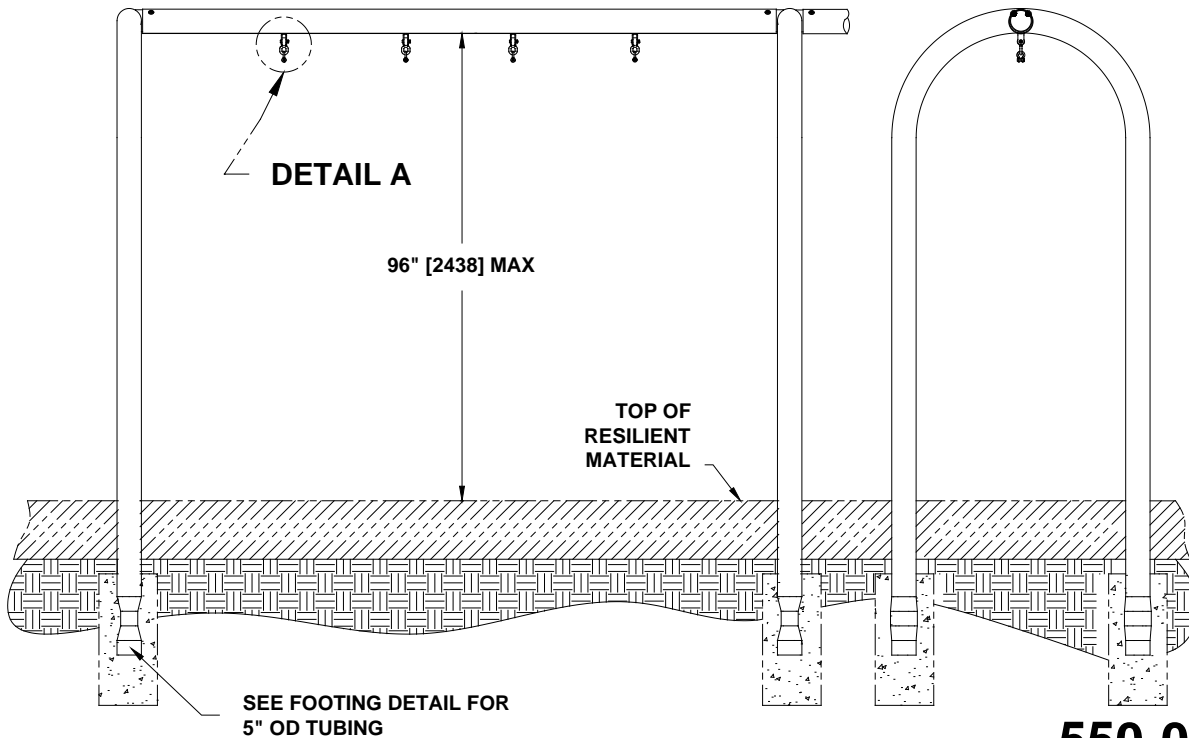
**DETAIL A
(4 PLACES)**



**DETAIL B
(2 PLACES)**



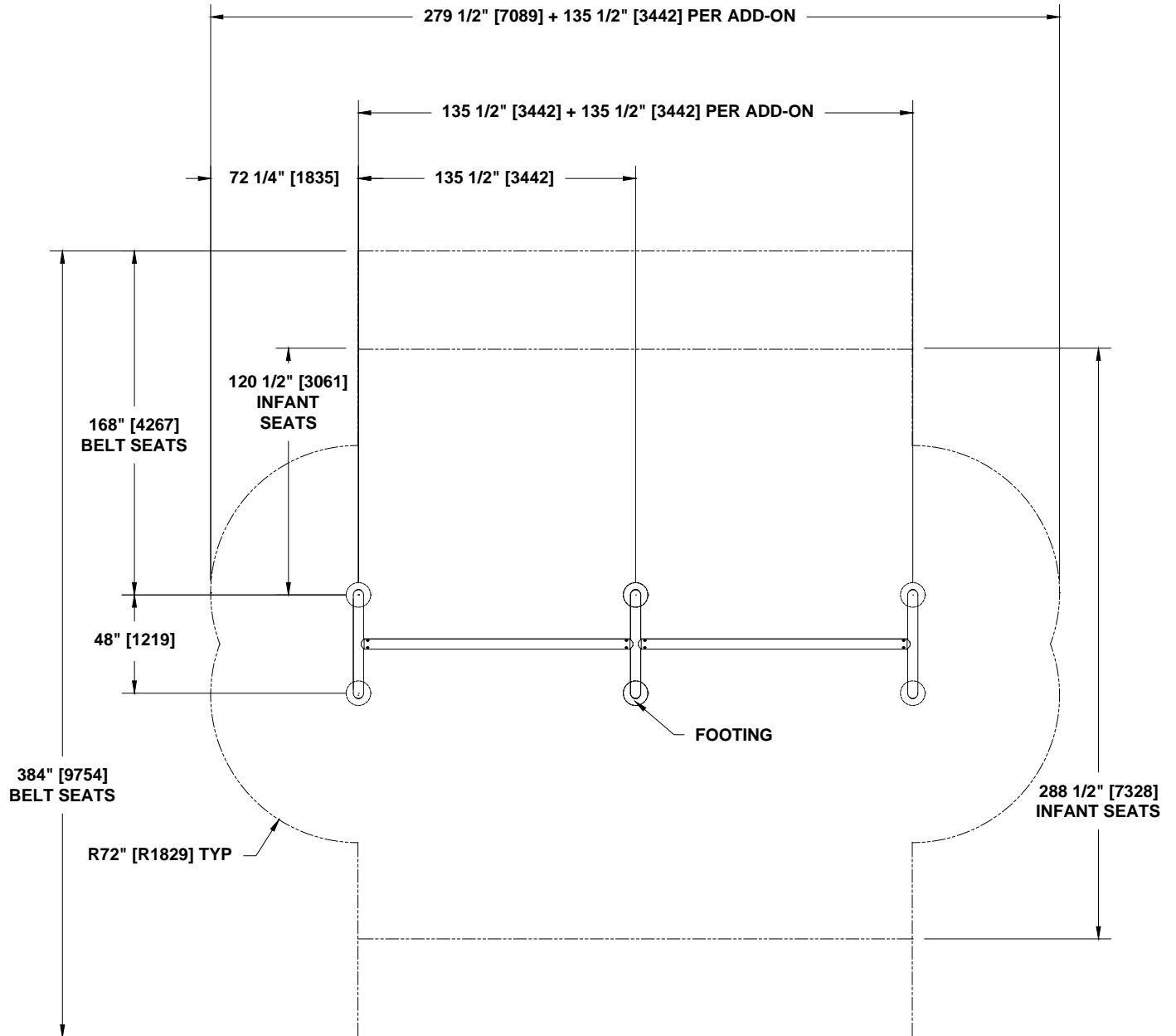
DETAIL B



SEE FOOTING DETAIL FOR
5" OD TUBING

550-0136

5" OD ARCH SWING ADD-ON



FALL ZONE PER ASTM/CPSC STANDARDS

550-0136 5" OD ARCH SWING ADD-ON

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0225	PENDULUM CASTING	4
016-0006	BRONZE BEARING .377" X .75" X .75"	4
030-1835	SWING BEAM, 5" OD X 130"	1
030-1981	ARCH POST, ADD-ON 5" OD SWING	1
036-0227	HARDWARE PACKAGE	1
036-0788	HARDWARE PACKAGE	2
036-1414	HARDWARE PACKAGE	1
046-0291	LOCTITE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PENDULUM CASTING: Galvanize plated, grade 32510, malleable iron

BRONZE BEARING .377" X .75" X .75": Oil impregnated, bronze.

SWING BEAM, 5" OD X 130": One piece all welded construction consisting of 5" OD x 11 GA galvanized steel tubing and 8 GA galvanized steel plate. Finished with a baked on powder coating.

ARCH POST, ADD-ON 5" OD SWING: One piece all welded construction consisting of 5" OD x 11 GA & 3/8" Schedule 40 galvanized steel pipe and 4 1/2" OD x 11 GA steel tubing w/cadmium and yellow chromate plating, and an assembly of 3/8" nut inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: 5/16" Shackle with a 3/8" X 1 5/32" bolt.

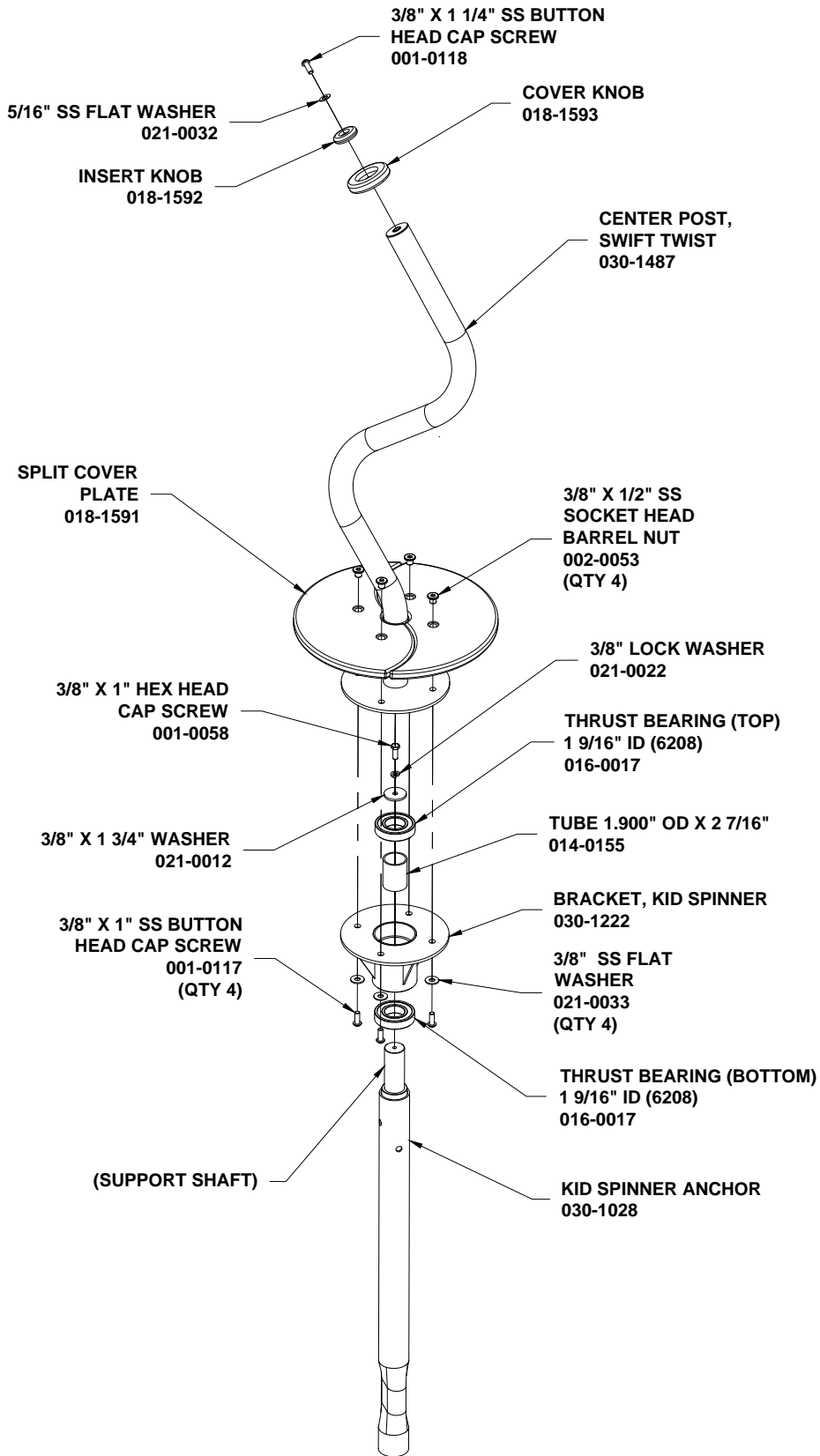
HARDWARE PACKAGE: Stainless steel washers & screws and zinc plated steel lock nuts & washers.

LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

SHIPPING WEIGHT: 224 LBS.

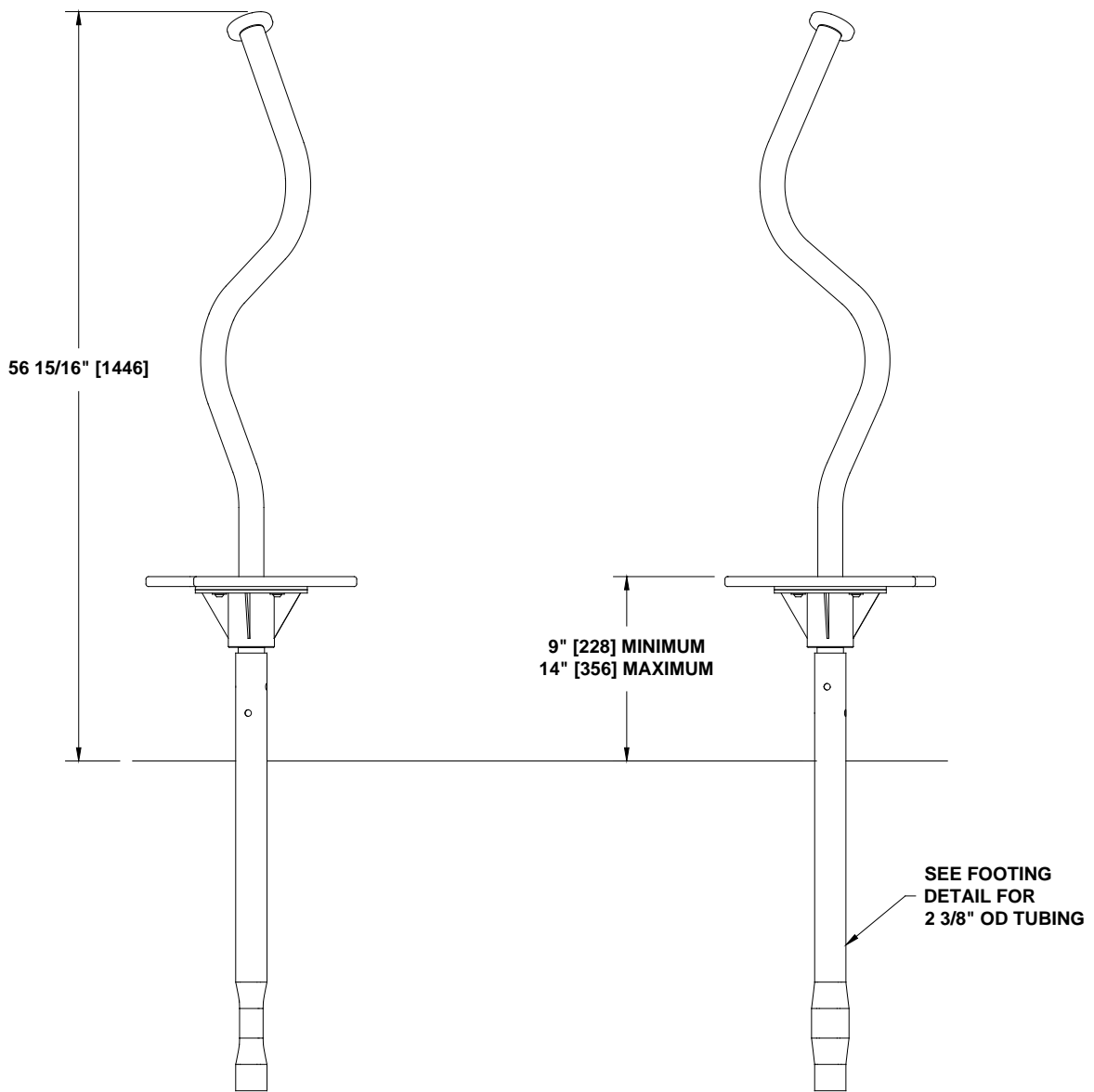
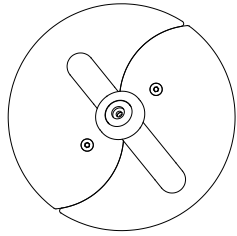
INSTALLATION INSTRUCTIONS

1. Determine 5" OD post locations per dimensions shown.
2. Dig footing holes. See typical concrete footing drawing for 5" OD posts, which is located in the preface of the installation manual.
3. Attach 5" OD x 130" SWING BEAM to arch post end and ARCH POST, ADD-ON 5" SWING 8' by sleeving the swing beam over arch post and fasten using 3/8" X 1" SS button head cap screws. Tighten the hardware. See DETAIL B.
4. Position frame into footing holes. Block up, plumb, and level frame.
5. Pour concrete and allow it to set for 2 to 3 days.
6. Insert BRONZE BEARING .377" X .75" X .75" into PENDULUMS and attach to swing beam as shown in DETAIL A. Tighten hardware.
7. Attach swing chain to pendulum using CLEVIS SHACKLE W/ BOLT. Tighten hardware. See DETAIL A.
8. **INSTALL RESILIENT SURFACING MATERIAL.**



EXPLODED VIEW

560-0457 SWIFT TWIST SPINNER



560-0457 SWIFT TWIST SPINNER

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
014-0155	TUBE, 1.900" OD X 11 GA X 2 7/16"	1
016-0017	THRUST BEARING 1 9/16" ID	2
018-1591	SPLIT COVER PLATE	2
018-1592	INSERT, KNOB	1
018-1593	COVER, KNOB	1
030-1028	KID SPINNER ANCHOR	1
030-1222	BRACKET, KID SPINNER	1
030-1487	CENTER POST, SWIFT TWIST	1
036-0838	HARDWARE PACKAGE	2
036-0844	HARDWARE PACKAGE	1
036-1439	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TUBE, 1.900" OD X 11 GA X 2 7/16": 1.900" OD x 11 GA galvanized steel tube.

THRUST BEARING 1 9/16" ID: Heavy duty, precision thrust, sealed ball bearing.

SPLIT COVER PLATE: 3/4" extruded HDPE.

INSERT, KNOB: 1/2" extruded HDPE

COVER, KNOB: 3/4" extruded HDPE

KID SPINNER ANCHOR: One piece all welded construction consisting of 2 3/8" OD x 10 GA galvanized steel tubing and 1 7/8" dia. plated solid steel round. Finished with a baked on powder coating.

BRACKET, KID SPINNER: One piece all welded construction consisting of 3 1/2" OD x 3/8" wall DOM steel tubing, 1/4" HR steel plate with zinc chromate plating, and 10 GA galvanized steel plate. Finished with a baked on powder coating.

CENTER POST, SWIFT TWIST: One piece all welded construction consisting of 1.900" OD x 11 GA galvanized steel tubing and 1/4" HR steel plate. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless Steel.

HARDWARE PACKAGE: Stainless steel

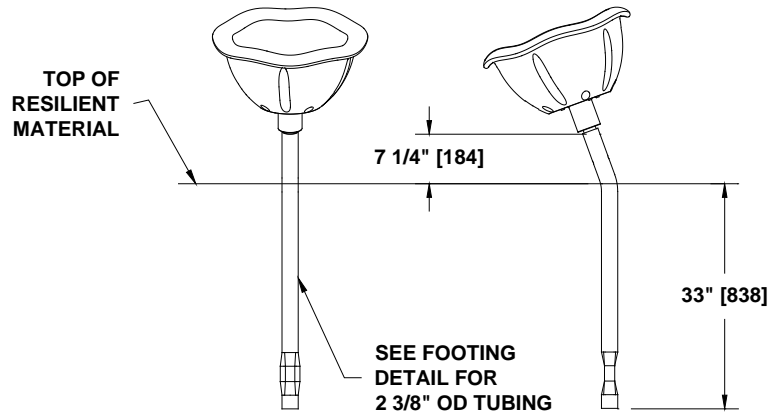
HARDWARE PACKAGE: Zinc plated steel screw & washers, stainless steel screws & washers.

SHIPPING WEIGHT: 52 LBS.

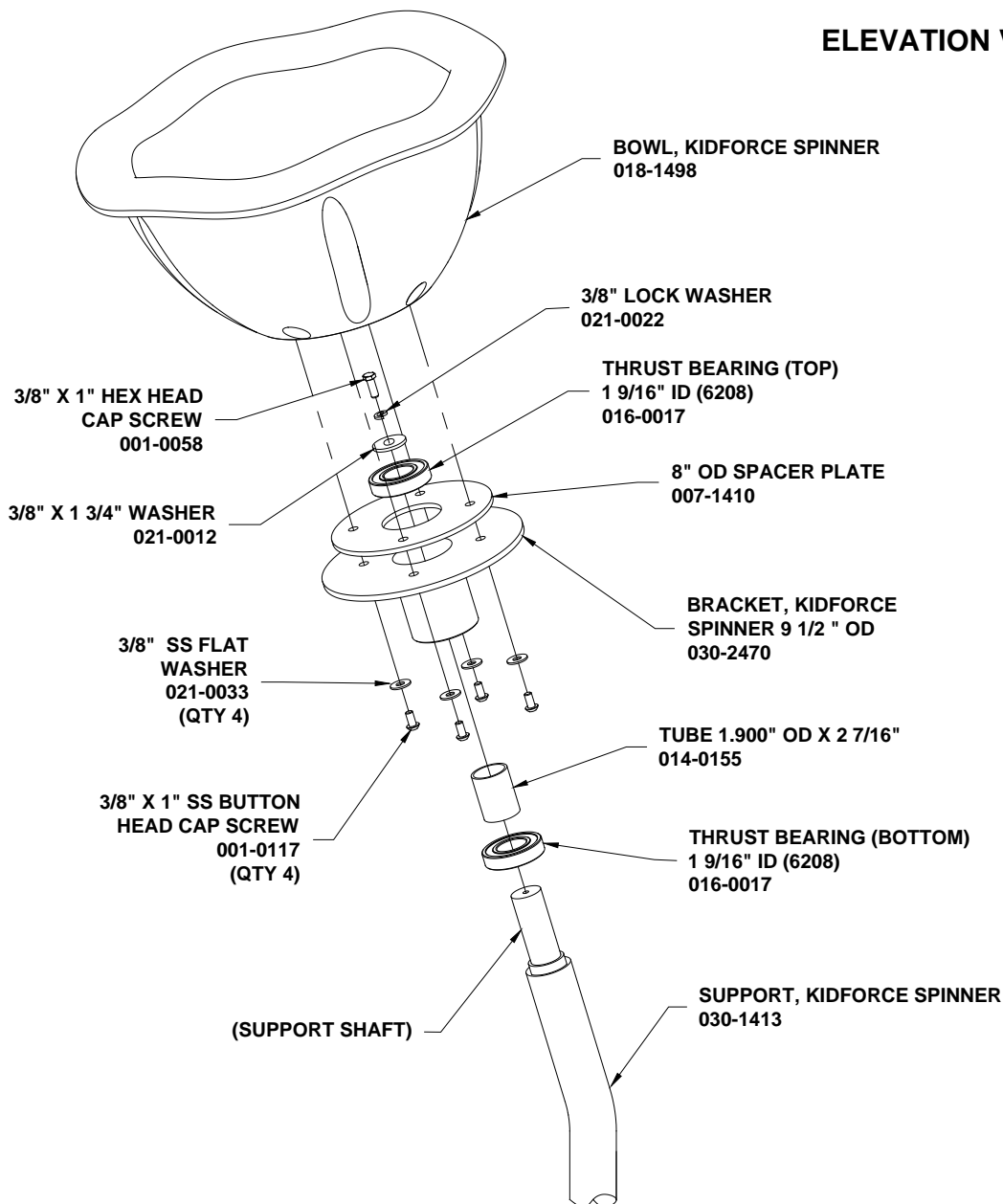
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

1. Dig footing for KID SPINNER ANCHOR. See typical footing details for 2 3/8" OD tubing, which is located in the preface of your installation manual.
2. Apply a liberal amount of grease to the bearing housing of KID SPINNER BRACKET and support shaft of the KID SPINNER ANCHOR to aid bearing installation. Using a wooden block and a hammer, tap THRUST BEARING 1 9/16" ID (6208) into the bottom bearing housing of the spinner bracket. SEE EXPLODED VIEW.
3. Sleeve Kid spinner bracket with bottom bearing onto support shaft of Kid spinner anchor. SEE EXPLODED VIEW.
4. Sleeve TUBE 1.900" OD x 2 7/16" onto shaft of spinner anchor inside Kid spinner bracket. Using a wooden block and a hammer, tap THRUST BEARING 1 9/16" ID (6208) into the top bearing housing of the spinner bracket. SEE EXPLODED VIEW.
5. Secure bearings into housing using the 3/8" x 1 3/4" WASHER, 3/8" X 1" hex head cap screw and 3/8" lock washer. SEE EXPLODED VIEW.
6. Attach SWIFT TWIST CENTER POST and SPLIT COVER PLATES to bracket using 3/8" X 1/2" SS socket head barrel nut, 3/8" X 1" button head cap screws and 3/8" flat washers. Tighten hardware. SEE EXPLODED VIEW.
7. Attach KNOB INSERT, KNOB COVER to the Swift Twist center post using a 3/8" X 1 1/4" button head cap screw. SEE EXPLODED VIEW.
8. Insert assembled Swift Twist spinner assembly into footing hole. Block up and plumb.
9. Pour concrete and allow concrete to set for 2-3 days.
10. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



ELEVATION VIEW



560-2573
KIDFORCE SPINNER

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
007-1410	8" OD SPACER PLATE	1
014-0155	TUBE, 1.900" OD X 11 GA X 2 7/16"	1
016-0017	THRUST BEARING 1 9/16" ID	2
018-1498	BOWL, KIDFORCE SPINNER	1
030-1413	SUPPORT, KIDFORCE SPINNER	1
030-2470	BRACKET, KIDFORCE SPINNER 9 1/2" OD	1
036-1439	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

8" OD SPACER PLATE: 8 GA Galvanized Steel Sheet finished with a baked on powder coat.

TUBE, 1.900" OD X 11 GA X 2 7/16": 1.900" OD x 11 GA galvanized steel tube.

THRUST BEARING 1 9/16" ID: Heavy duty, precision thrust, sealed ball bearing.

BOWL, KIDFORCE SPINNER: An average of 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with single wall construction, molded in 3/8" T-nut inserts, and a textured outside surface.

SUPPORT, KIDFORCE SPINNER: One piece all welded construction consisting of 2 3/8" OD x 10 GA galvanized steel tubing and 2" dia. solid steel round. Finished with a baked on powder coating.

BRACKET, KIDFORCE SPINNER 9 1/2" OD: One piece all welded construction consisting of 3 1/2" OD x 3/8" wall DOM steel tubing, 8 GA galvanized steel plate with zinc chromate plating after welding. Finished with a baked on powder coating.

HARDWARE PACKAGE: Zinc plated steel screw & washers, stainless steel screws & washers.

SHIPPING WEIGHT: 44 LBS.

INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

1. Dig footing for KIDFORCE SPINNER SUPPORT. See typical footing details for 2 3/8" OD tubing, which is located in the preface of your installation manual.
2. Apply a liberal amount of grease to the bearing housing of KIDFORCE SPINNER BRACKET 9 1/2 " OD and support shaft of KIDFORCE SPINNER SUPPORT to aid bearing installation. Using a wooden block and a hammer, tap THRUST BEARING 1 9/16" ID (6208) into the bottom bearing housing of the spinner bracket
3. Sleeve KidForce spinner bracket with bottom bearing onto support shaft of KidForce spinner support.
4. Sleeve TUBE 1.900" OD x 2 7/16" onto shaft of spinner anchor inside KidForce spinner bracket. Using a wooden block and a hammer, tap THRUST BEARING 1 9/16" ID (6208) into the top bearing housing of the spinner bracket.
5. Secure bearings into housing using the 3/8" x 1 3/4" WASHER, 3/8" X 1" hex head cap screw and 3/8" lock washer.
6. Attach KIDFORCE SPINNER BOWL and 8" OD SPACER PLATE to bracket using 3/8" X 1" SS button head cap screws and 3/8" flat washers. Tighten hardware.
7. Insert KidForce spinner assembly into footing hole. Block up and plumb.
8. Pour concrete and allow concrete to set for 2-3 days.
9. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



A1

Support Post Identifier & Footing

NP1

Nature Play Tree House Post Identifier

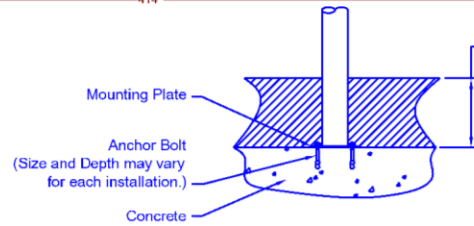
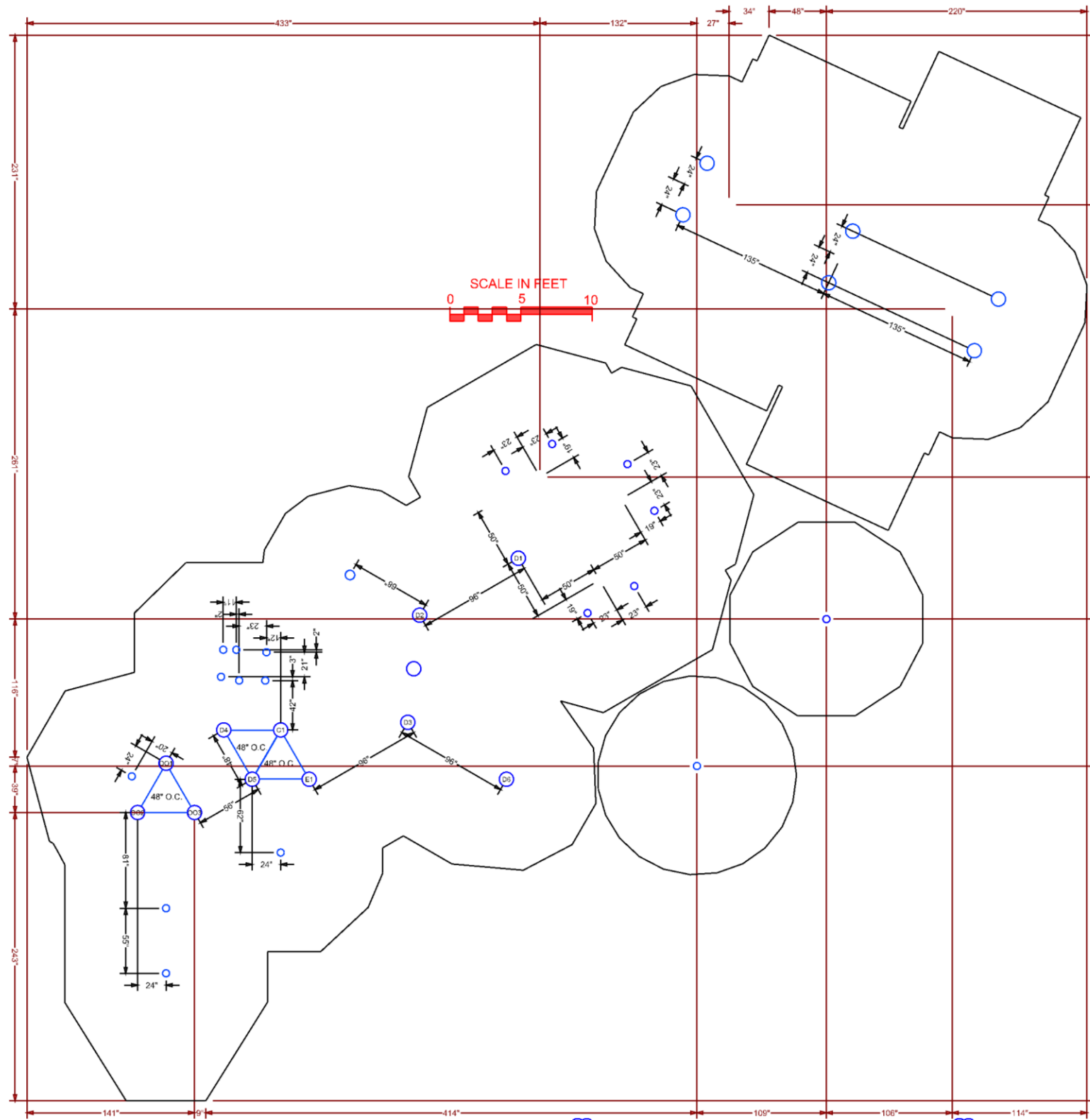
○

Component Footing

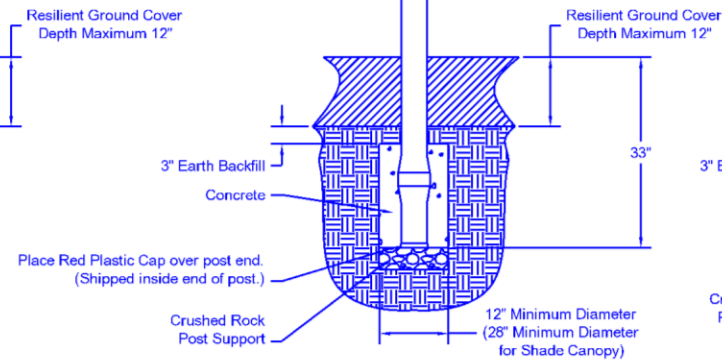
FOOTING LEGEND

NOTES:

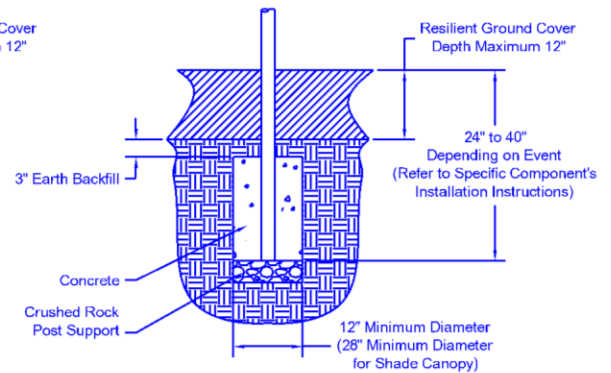
- 1.) Dimensions are for locations for footing holes, not exact placement of equipment.
- 2.) Assemble, plumb, and level equipment before pouring concrete.



Surface Mount Detail

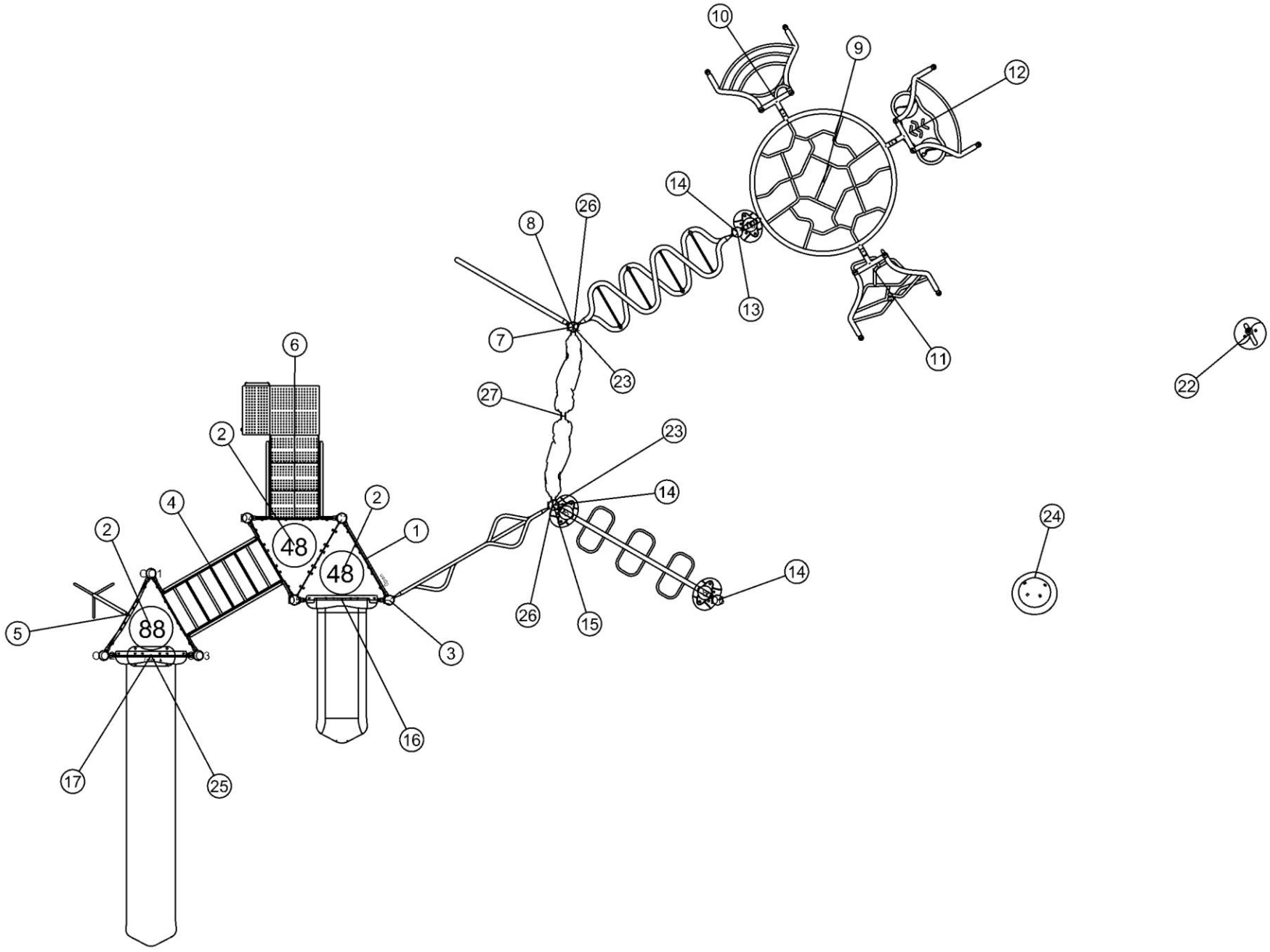
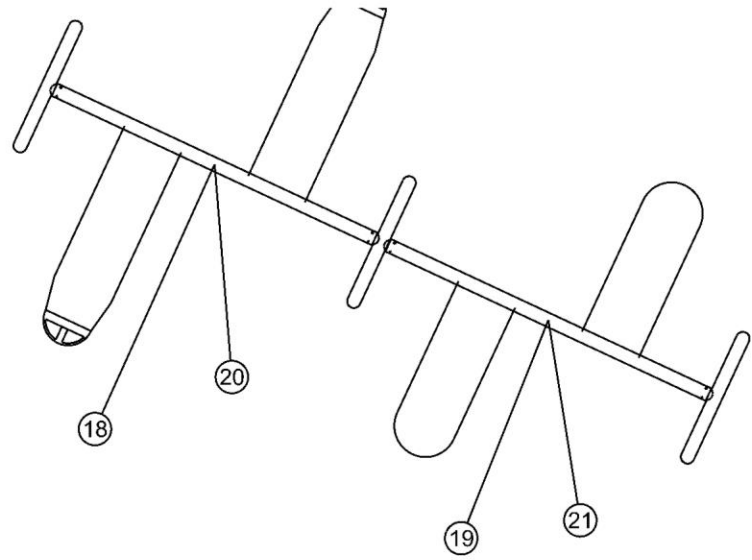


Support Post Footing Detail



Component Footing Detail

ITEM	COMP.	DESCRIPTION
1	270-0001	OFFSET ENCLOSURE
2	270-0129	TRIANGLE PLATFORM
3	370-0004	POWER PIPES CLIMBER
4	370-0469	40° TRANSITION STAIR W/BARR
5	370-0556	ATOM CLIMBER 80"-96"
6	370-0720	TRANSFER STATION, HANDRAIL
7	370-0808	TWISTING TRAVERSE
8	370-0809	POWER PEAK W/OUT PANELS
9	370-0829	PLEXUS OVERHEAD
10	370-0831	PLEXUS RUNG CLIMBER
11	370-0832	PLEXUS TANGLE CLIMBER
12	370-0833	PLEXUS STEP CLIMBER
13	370-0834	OVERHEAD POST ATTACHMENT
14	370-1608	OVISTEP LAUNCH PAD
15	370-1610	ATHLETIC ARCH OH
16	470-0507	ROCK'N ROLL SLIDE, 40" - 48"
17	470-0757	VELO XL SLIDE, 88"-96"
18	550-0100	TOT SEAT, 7' & 8' PAIR, STD CH
19	550-0112	BELT SEAT, 8' PAIR, STD CHAIN
20	550-0135	5" OD ARCH SWING
21	550-0136	5" OD ARCH SWING ADD-ON
22	560-0457	SWIFT TWIST SPINNER
23	560-0541	ROCKIT OFFSET PANEL
24	560-2573	KIDFORCE SPINNER
25	570-0620	BURKE MART PANEL BELOW PL
26	660-0138	ROCKIT ATTACHMENT POST 79"
27	660-0141	ROCKIT Z POST 112 3/4"



Burke

SERIES: Basics, Intensity, Nucleus
 COMPONENT PLAN
 DRAWN BY: Joel Schleis

BCI Burke Company, LLC PO Box 549 Fond du Lac, Wisconsin 54936-0549 Telephone 920-921-9220

Lake View Heights Park
 1621 Sunfield St.
 Madison, WI 53703

Lee Recreation, LLC
 142-114468-3
 032219

March 22, 2019



Proposal Number: 142-114468-3A

3/22/2019

Order # 032219

Component No.	Description	Quantity	Ext. Weight
Burke Basics			
600-0104	NPPS SUPERVISION SAFETY KIT	1	3
		1	3
Intensity			
370-0004	POWER PIPES CLIMBER	1	47
370-0808	TWISTING TRAVERSE	1	103
370-0829	PLEXUS OVERHEAD	1	96
370-0831	PLEXUS RUNG CLIMBER	1	83
370-0832	PLEXUS TANGLE CLIMBER	1	89
370-0833	PLEXUS STEP CLIMBER	1	121
370-0834	OVERHEAD POST ATTACHMENT	1	3
370-1608	OVISTEP LAUNCH PAD	3	30
370-1610	ATHLETIC ARCH OH	1	45
670-0099	INSTALLATION KIT, INTENSITY	1	2
670-0103	MAINTENANCE KIT, INTENSITY	1	0
		13	619
Nucleus			
270-0001	OFFSET ENCLOSURE	1	30
270-0129	TRIANGLE PLATFORM	3	144
370-0469	40" TRANSITION STAIR W/BARRIERS	1	279
370-0556	ATOM CLIMBER 80"-96"	1	85
370-0720	TRANSFER STATION, HANDRAIL 48"	1	236
370-0809	POWER PEAK W/OUT PANELS	1	69
470-0507	ROCK'N ROLL SLIDE, 40" - 48"	1	107
470-0757	VELO XL SLIDE, 88"-96"	1	169
570-0620	BURKE MART PANEL BELOW PLATFORM 72"-112"	1	54
670-0165	POST ASSEMBLY 5" OD X 123"	1	66
670-0166	POST ASSEMBLY 5" OD X 139"	6	444
670-0167	POST ASSEMBLY 5" OD X 147"	1	78
670-0169	POST ASSEMBLY 5" OD X 171"	3	273
		22	2034
Rockit			
560-0541	ROCKIT OFFSET PANEL	2	166
660-0138	ROCKIT ATTACHMENT POST 79 1/2"	2	36
660-0141	ROCKIT Z POST 112 3/4"	1	37
		5	239



Proposal Number: 142-114468-3A

3/22/2019

Order # 032219

Parts List

Comp. No.	Part No.	Description	Qty.	Total Qty.
Burke Basics				
600-0104		NPPS SUPERVISION SAFETY KIT	1	
	099-0009	NPPS DVD	1	1
Intensity				
370-0004		POWER PIPES CLIMBER	1	
	030-1503	POWER PIPE	3	3
	036-0258	HARDWARE PACKAGE	6	6
370-0808		TWISTING TRAVERSE	1	
	020-0016	ROPE ASSEMBLY, SINGLE, 71 3/4"	4	4
	030-0192	WAVY WELDMENT	2	2
	036-0818	INTENSITY SHIM PACK	2	2
	036-1311	HARDWARE PACKAGE	3	3
	046-0334	BRASS SPACER 7/16" OD X 1 1/4"	8	8
370-0829		PLEXUS OVERHEAD	1	
	030-2356	INTENSITY RING OVERHEAD	1	1
	036-1184	HARDWARE PACKAGE	3	3
370-0831		PLEXUS RUNG CLIMBER	1	
	018-1824	CAP	2	2
	030-2374	RUNG CLIMBER	1	1
	036-0258	HARDWARE PACKAGE	2	2
370-0832		PLEXUS TANGLE CLIMBER	1	
	018-1824	CAP	2	2
	030-2375	TANGLE CLIMBER	1	1
	036-0258	HARDWARE PACKAGE	2	2
370-0833		PLEXUS STEP CLIMBER	1	
	018-0545	DYNAMIC PAD	1	1
	018-1824	CAP	2	2
	030-2376	STEP CLIMBER	1	1
	036-0258	HARDWARE PACKAGE	2	2
	036-0784	HARDWARE PACKAGE	2	2
370-0834		OVERHEAD POST ATTACHMENT	1	
	030-2370	POST BRACKET	1	1
	036-0258	HARDWARE PACKAGE	2	2
370-1608		OVISTEP LAUNCH PAD	3	
	018-1944	OVISTEP LANDING PANEL	1	3
	030-1569	BRACKET, STEP MOUNTING	1	3
	036-1305	HARDWARE PACKAGE	1	3



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3/22/2019

Order # 032219

370-1610		ATHLETIC ARCH OH	1		
	030-1504	OVERHEAD BEAM, ATHLETIC ARCH		1	1
	036-0258	HARDWARE PACKAGE		4	4
670-0099		INSTALLATION KIT, INTENSITY	1		
	002-0042	3/8 NUT INSERT		10	10
	031-0007	T-30 BIT ADAPTER		2	2
	031-0031	INSERT TOOL		1	1
	031-0041	HEX ALLEN WRENCH		1	1
	031-0042	SET SCREW WRENCH		1	1
	031-0043	5/16 HEX BIT		2	2
	036-9999	HARDWARE PACKAGE - EXTRA		1	1
	099-0002	INSTALLATION KIT B		1	1
670-0103		MAINTENANCE KIT, INTENSITY	1		
	031-0041	HEX ALLEN WRENCH		1	1
	031-0042	SET SCREW WRENCH		1	1
	099-0003	MAINTENANCE KIT		1	1
Nucleus					
270-0001		OFFSET ENCLOSURE	1		
	000-0203	CASTING, STRAIGHT BRACKET		2	2
	030-1676	S5 OFFSET ENCLOSURE		1	1
	036-1284	HARDWARE PACKAGE		1	1
270-0129		TRIANGLE PLATFORM	3		
	030-1657	TRIANGLE PLATFORM S5P		1	3
	036-1100	HARDWARE PACKAGE		1	3
370-0469		40" TRANSITION STAIR W/BARRIERS	1		
	000-0203	CASTING, STRAIGHT BRACKET		4	4
	030-1698	TOP STAIR BARRIER		2	2
	030-1744	40" TRANSITION BARRIER		2	2
	030-1746	BOTTOM STAIR TRANSITION BARRIER		2	2
	036-1125	HARDWARE PACKAGE		1	1
	046-0143	40" ACCESSIBLE STAIRS		1	1
370-0556		ATOM CLIMBER 80"-96"	1		
	000-0203	CASTING, STRAIGHT BRACKET		2	2
	030-1673	S5 STANCHION		1	1
	030-1734	ATOM CLIMBER 80"-96"		1	1
	036-0737	HARDWARE PACKAGE		1	1
	036-0819	HARDWARE PACKAGE		1	1



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370-0720		TRANSFER STATION, HANDRAIL 48"	1		
	000-0203	CASTING, STRAIGHT BRACKET		2	2
	015-0367	SINGLE STEP HANDRAIL		1	1
	015-0488	TUBE, 1.315 x 47 1/2"		3	3
	018-0564	SPACER, STAIR HANDRAIL		2	2
	026-0005	EXIT SUPPORT		1	1
	030-1034	SINGLE STEP P		1	1
	030-1903	LEFT HANDRAIL 40"		1	1
	030-1904	RIGHT HANDRAIL 40"		1	1
	036-1123	HARDWARE PACKAGE		1	1
	046-0142	32" ACCESSIBLE STAIRS		1	1
	046-0218	TRANSFER PLATFORM SQUARE		1	1
370-0809		POWER PEAK W/OUT PANELS	1		
	030-0193	POWER PEAK CLIMBER		1	1
	036-0258	HARDWARE PACKAGE		2	2
470-0507		ROCK'N ROLL SLIDE, 40" - 48"	1		
	000-0203	CASTING, STRAIGHT BRACKET		2	2
	000-0208	CASTING, SIDE FILLER, LONG		2	2
	018-0547	NARROW SLIDE, 40"-48"		1	1
	018-0548	SLIDE HOOD , NARROW SLIDES		1	1
	030-0126	SUPPORT,SLIDE EXIT		1	1
	030-0755	MOUNT TUBE		2	2
	030-1589	SIDE BARRIER, RIGHT, SLIDE		1	1
	030-1593	SIDE BARRIER, LEFT, SLIDE		1	1
	036-1371	HARDWARE PACKAGE		1	1
470-0757		VELO XL SLIDE, 88"-96"	1		
	000-0203	CASTING, STRAIGHT BRACKET		2	2
	000-0208	CASTING, SIDE FILLER, LONG		2	2
	018-0548	SLIDE HOOD , NARROW SLIDES		1	1
	018-2058	VELO SLIDE 88"-96", SINGLE BEDWAY		1	1
	030-0126	SUPPORT,SLIDE EXIT		1	1
	030-0755	MOUNT TUBE		2	2
	030-1589	SIDE BARRIER, RIGHT, SLIDE		1	1
	030-1593	SIDE BARRIER, LEFT, SLIDE		1	1
	030-2646	SUPPORT, VELO SLIDE 88"-96" MID		1	1
	036-1206	HARDWARE PACKAGE		1	1
570-0620		BURKE MART PANEL BELOW PLATFORM 72"-1	1		
	000-0204	CASTING, FLAT PANEL		4	4
	007-1304	COUNTER SUPPORT		4	4
	018-0407	STORE COUNTER		1	1
	018-0562	BURKE MART PANEL		1	1
	036-1245	HARDWARE PACKAGE		1	1
670-0165		POST ASSEMBLY 5" OD X 123"	1		
	000-0226	POST CAP 5" OD AL		1	1
	049-0204	POST ASSEMBLY 5" OD X 123"		1	1



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670-0166		POST ASSEMBLY 5" OD X 139"	6		
	000-0226	POST CAP 5" OD AL		1	6
	049-0205	POST ASSEMBLY 5" OD X 139"		1	6
670-0167		POST ASSEMBLY 5" OD X 147"	1		
	000-0226	POST CAP 5" OD AL		1	1
	049-0206	POST ASSEMBLY 5" OD X 147"		1	1
670-0169		POST ASSEMBLY 5" OD X 171"	3		
	000-0226	POST CAP 5" OD AL		1	3
	049-0208	POST ASSEMBLY 5" OD X 171"		1	3
RockIt					
560-0541		ROCKIT OFFSET PANEL	2		
	049-0675	OFFSET PANEL ASSEMBLY		1	2
660-0138		ROCKIT ATTACHMENT POST 79 1/2"	2		
	006-0542	U CHANNEL 79 1/2"		1	2
	036-1204	HARDWARE PACKAGE		1	2
660-0141		ROCKIT Z POST 112 3/4"	1		
	007-1194	COVER PLATE 79 1/2"		2	2
	025-0061	3/8" X 8" ANCHOR ROD		1	1
	030-2108	Z CHANNEL 112 3/4"		1	1
	036-1202	HARDWARE PACKAGE		1	1



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3/22/2019

Order # 032219

Packing List

Part. No.	Description	Qty.	Skid
000-0203	CASTING, STRAIGHT BRACKET	14	
000-0204	CASTING, FLAT PANEL	4	
000-0208	CASTING, SIDE FILLER, LONG	4	
000-0226	POST CAP 5" OD AL	11	
002-0042	3/8 NUT INSERT	10	
006-0542	U CHANNEL 79 1/2"	2	
007-1194	COVER PLATE 79 1/2"	2	
007-1304	COUNTER SUPPORT	4	
015-0367	SINGLE STEP HANDRAIL	1	
015-0488	TUBE, 1.315 x 47 1/2"	3	
018-0407	STORE COUNTER	1	
018-0545	DYNAMIC PAD	1	
018-0547	NARROW SLIDE, 40"-48"	1	
018-0548	SLIDE HOOD , NARROW SLIDES	2	
018-0562	BURKE MART PANEL	1	
018-0564	SPACER, STAIR HANDRAIL	2	
018-1824	CAP	6	
018-1944	OVISTEP LANDING PANEL	3	
018-2058	VELO SLIDE 88"-96", SINGLE BEDWAY	1	
020-0016	ROPE ASSEMBLY, SINGLE, 71 3/4"	4	
025-0061	3/8" X 8" ANCHOR ROD	1	
026-0005	EXIT SUPPORT	1	
030-0126	SUPPORT,SLIDE EXIT	2	
030-0192	WAVY WELDMENT	2	
030-0193	POWER PEAK CLIMBER	1	
030-0755	MOUNT TUBE	4	
030-1034	SINGLE STEP P	1	
030-1503	POWER PIPE	3	
030-1504	OVERHEAD BEAM, ATHLETIC ARCH	1	
030-1569	BRACKET, STEP MOUNTING	3	
030-1589	SIDE BARRIER, RIGHT, SLIDE	2	
030-1593	SIDE BARRIER, LEFT, SLIDE	2	
030-1657	TRIANGLE PLATFORM S5P	3	
030-1673	S5 STANCHION	1	
030-1676	S5 OFFSET ENCLOSURE	1	
030-1698	TOP STAIR BARRIER	2	
030-1734	ATOM CLIMBER 80"-96"	1	
030-1744	40" TRANSITION BARRIER	2	
030-1746	BOTTOM STAIR TRANSITION BARRIER	2	
030-1903	LEFT HANDRAIL 40"	1	
030-1904	RIGHT HANDRAIL 40"	1	
030-2108	Z CHANNEL 112 3/4"	1	
030-2356	INTENSITY RING OVERHEAD	1	
030-2370	POST BRACKET	1	
030-2374	RUNG CLIMBER	1	
030-2375	TANGLE CLIMBER	1	
030-2376	STEP CLIMBER	1	
030-2646	SUPPORT, VELO SLIDE 88"-96" MID	1	
031-0007	T-30 BIT ADAPTER	2	
031-0031	INSERT TOOL	1	



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031-0041	HEX ALLEN WRENCH	2	_____	_____
031-0042	SET SCREW WRENCH	2	_____	_____
031-0043	5/16 HEX BIT	2	_____	_____
036-0258	HARDWARE PACKAGE	20	_____	_____
036-0737	HARDWARE PACKAGE	1	_____	_____
036-0784	HARDWARE PACKAGE	2	_____	_____
036-0818	INTENSITY SHIM PACK	2	_____	_____
036-0819	HARDWARE PACKAGE	1	_____	_____
036-1100	HARDWARE PACKAGE	3	_____	_____
036-1123	HARDWARE PACKAGE	1	_____	_____
036-1125	HARDWARE PACKAGE	1	_____	_____
036-1184	HARDWARE PACKAGE	3	_____	_____
036-1202	HARDWARE PACKAGE	1	_____	_____
036-1204	HARDWARE PACKAGE	2	_____	_____
036-1206	HARDWARE PACKAGE	1	_____	_____
036-1245	HARDWARE PACKAGE	1	_____	_____
036-1284	HARDWARE PACKAGE	1	_____	_____
036-1305	HARDWARE PACKAGE	3	_____	_____
036-1311	HARDWARE PACKAGE	3	_____	_____
036-1371	HARDWARE PACKAGE	1	_____	_____
036-9999	HARDWARE PACKAGE - EXTRA	1	_____	_____
046-0142	32" ACCESSIBLE STAIRS	1	_____	_____
046-0143	40" ACCESSIBLE STAIRS	1	_____	_____
046-0218	TRANSFER PLATFORM SQUARE	1	_____	_____
046-0334	BRASS SPACER 7/16" OD X 1 1/4"	8	_____	_____
049-0204	POST ASSEMBLY 5" OD X 123"	1	_____	_____
049-0205	POST ASSEMBLY 5" OD X 139"	6	_____	_____
049-0206	POST ASSEMBLY 5" OD X 147"	1	_____	_____
049-0208	POST ASSEMBLY 5" OD X 171"	3	_____	_____
049-0675	OFFSET PANEL ASSEMBLY	2	_____	_____
099-0002	INSTALLATION KIT B	1	_____	_____
099-0003	MAINTENANCE KIT	1	_____	_____
099-0009	NPPS DVD	1	_____	_____

Playground Installation Instructions: Penn Park

PENN PARK

MADISON, WI - OPTION 1-2 - VIEW A

LR
LEE
RECREATION, LLC

Office (800) 775-8937
Fax (608) 423-7655

260 W. Main Street
Cambridge, WI 53523

info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



PENN PARK

MADISON, WI - OPTION 1-2 - VIEW B

LR
LEE
RECREATION, LLC

Office (800) 775-8937
Fax (608) 423-7655

260 W. Main Street
Cambridge, WI 53523

info@leerecreation.com
www.leerecreation.com

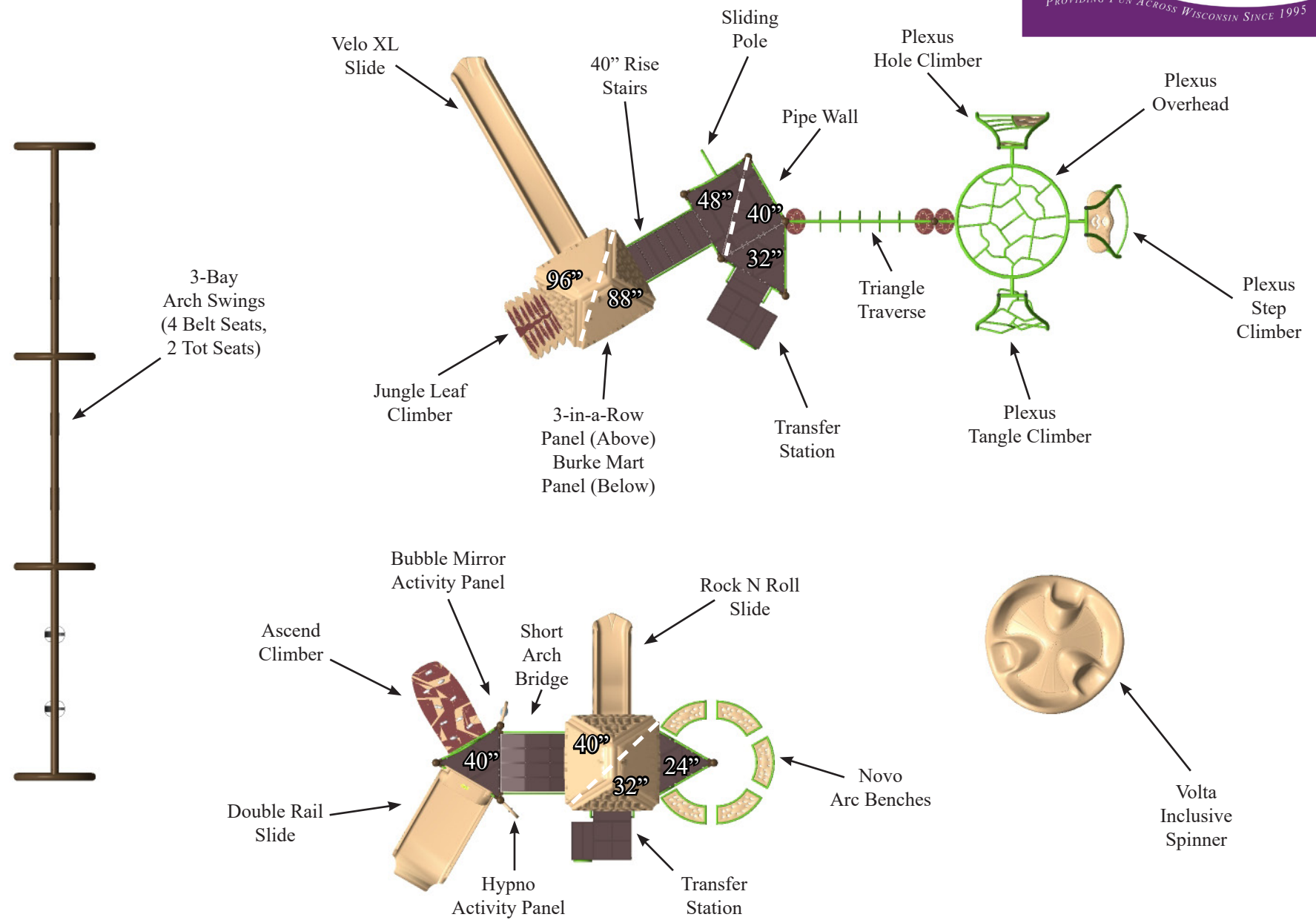
PROVIDING FUN ACROSS WISCONSIN SINCE 1995



PENN PARK

MADISON, WI - OPTION 1-2 - OVERVIEW

LR
LEE RECREATION, LLC
Office (800) 775-8937
Fax (608) 423-7655
260 W. Main Street
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com
PROVIDING FUN ACROSS WISCONSIN SINCE 1995



INFORMATION
MINIMUM FALL ZONE
SURFACED WITH
RESILIENT MATERIAL
AREA

3197 SQ.FT.

PERIMETER

492 FT.

STRUCTURE SIZE

59' 2" x 79' 10"

STRUCTURE IS DESIGNED
FOR CHILDREN AGES:

- 6-23 MONTH OLDS
- 2-5 YEAR OLDS
- 5-12 YEAR OLDS
- 13 + YEAR OLDS



Registered
to ISO 9001



Registered
to ISO 14001

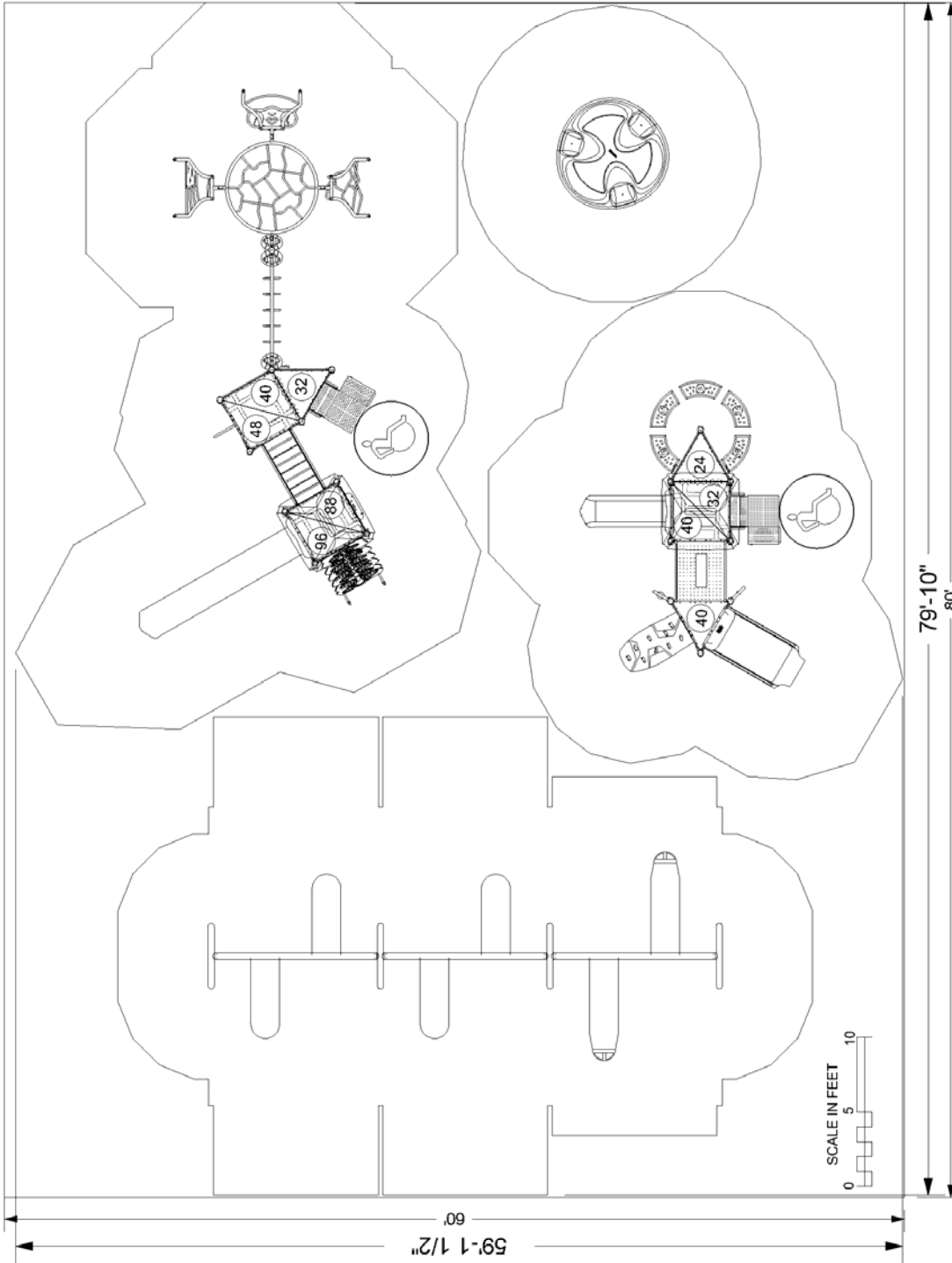


To verify product certification,
visit www.ipema.org

The play components identified
in this plan are IPEMA
certified. The use and layout of
these components conform to the
requirements of ASTM F1487.
To verify product certification,
visit www.ipema.org

The space requirements shown
here are to ASTM standards.
Requirements for other standards
may be different.

The use and layout of play
components identified in this plan
conform to the CPSC guidelines.
U.S. CPSC recommends the
separation of age groups in
playground layouts.



WARNING!

ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH
AND AROUND THIS EQUIPMENT.
FOR SLIDE FALL ZONE SURFACING AREA SEE CPSC's Handbook for
Public Playground Safety.
PLATFORM HEIGHTS ARE IN INCHES ABOVE RESILIENT MATERIAL.

ADA ACCESSIBILITY GUIDELINE (ADAAG CONFORMANCE)

NUMBER OF PLAY EVENTS:	27
NUMBER OF ELEVATED PLAY EVENTS:	6
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP:	PROVIDED: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY TRANSFER SYSTEM:	PROVIDED: 8
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP OR TRANSFER SYSTEM:	PROVIDED: 19
NUMBER OF GROUND LEVEL PLAY EVENTS:	PROVIDED: 8
NUMBER OF TYPES OF GROUND LEVEL PLAY EVENTS:	PROVIDED: 3



SERIES: Basics, Intensity, Nucleus

SITE PLAN

DRAWN BY: Jacinda Pearson

Penn Park

2101 Fisher S

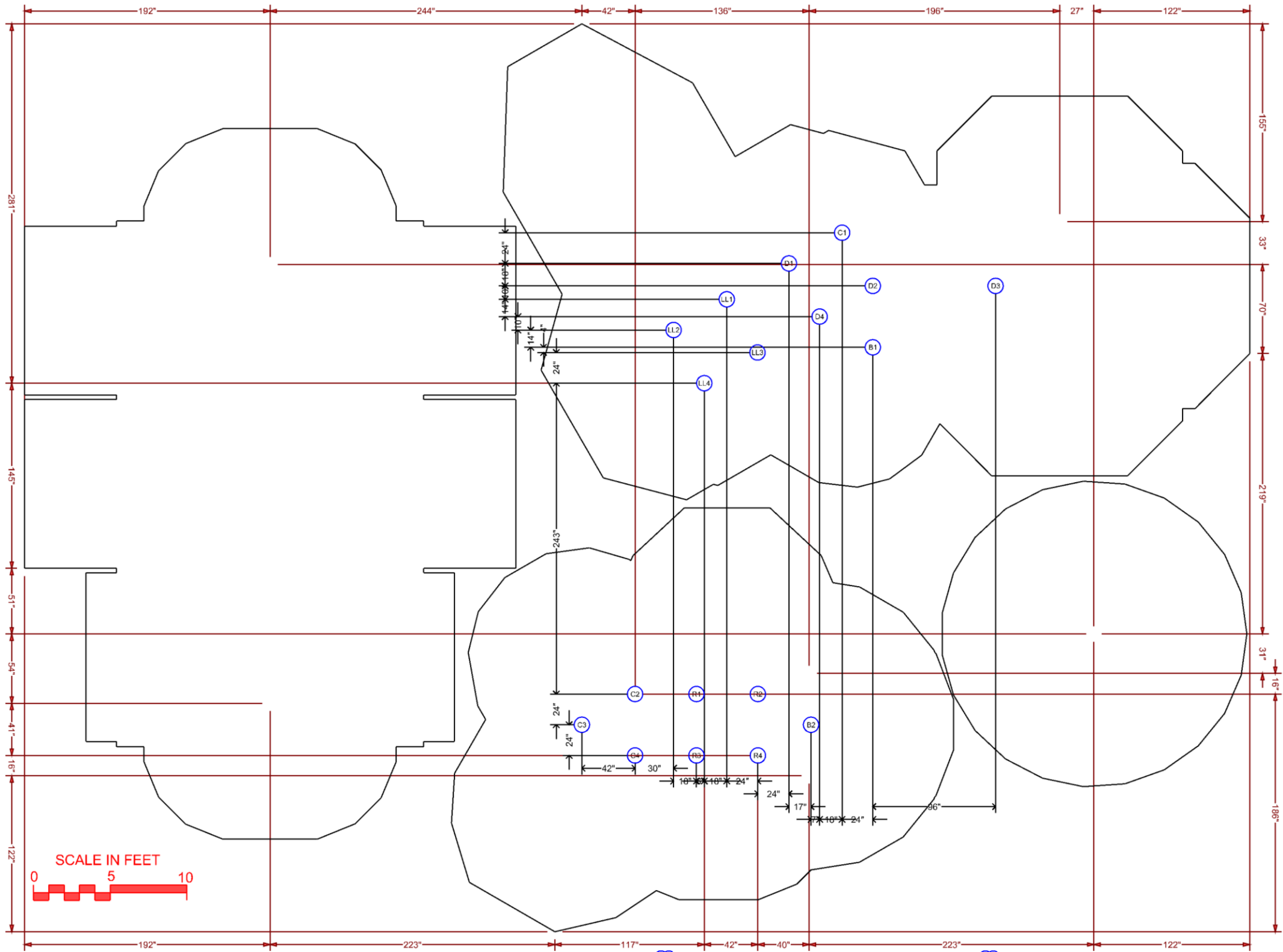
Madison, WI 53713

March 25, 2019

Lee Recreation, LLC

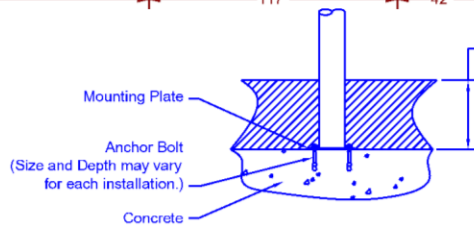
142-115521-2

March 26, 2019

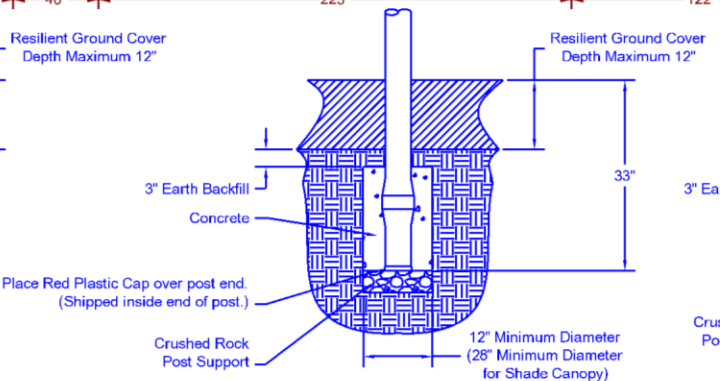


- FOOTING LEGEND**
- A1 Support Post Identifier & Footing
 - NP1 Nature Play Tree House Post Identifier
 - Component Footing

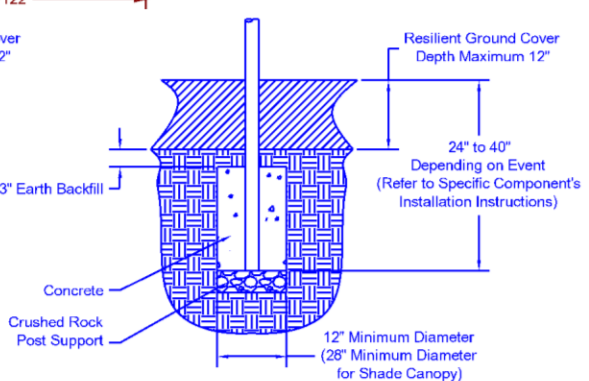
NOTES:
 1.) Dimensions are for locations for footing holes, not exact placement of equipment.
 2.) Assemble, plumb, and level equipment before pouring concrete.
 3.) Dimensions are rounded to nearest whole inch.



Surface Mount Detail



Support Post Footing Detail



Component Footing Detail

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

BCI Burke Company, LLC

660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566
www.bciburke.com

SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) A Handbook for Public Playground Safety** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-Children's Playspaces and Equipment A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

BCI Burke Company, LLC
660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566
www.bciburke.com

PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

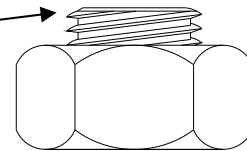


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. **NOTE:** *In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets. See typical mount bracket assembly drawings located in the installation instructions section.*

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

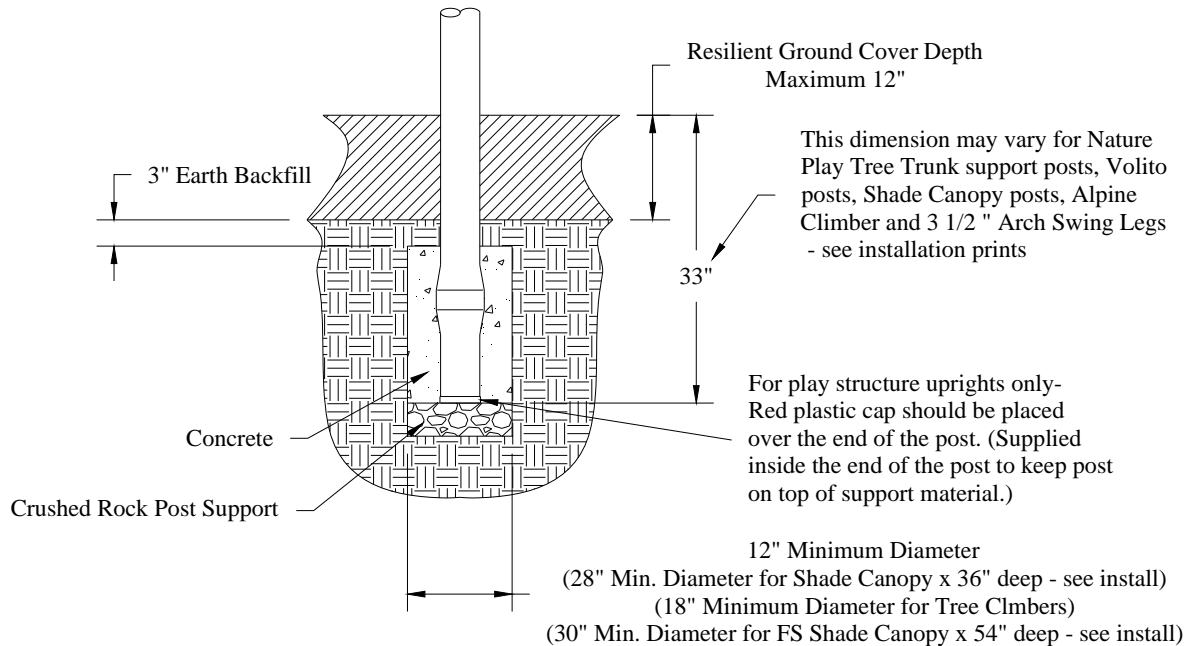


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

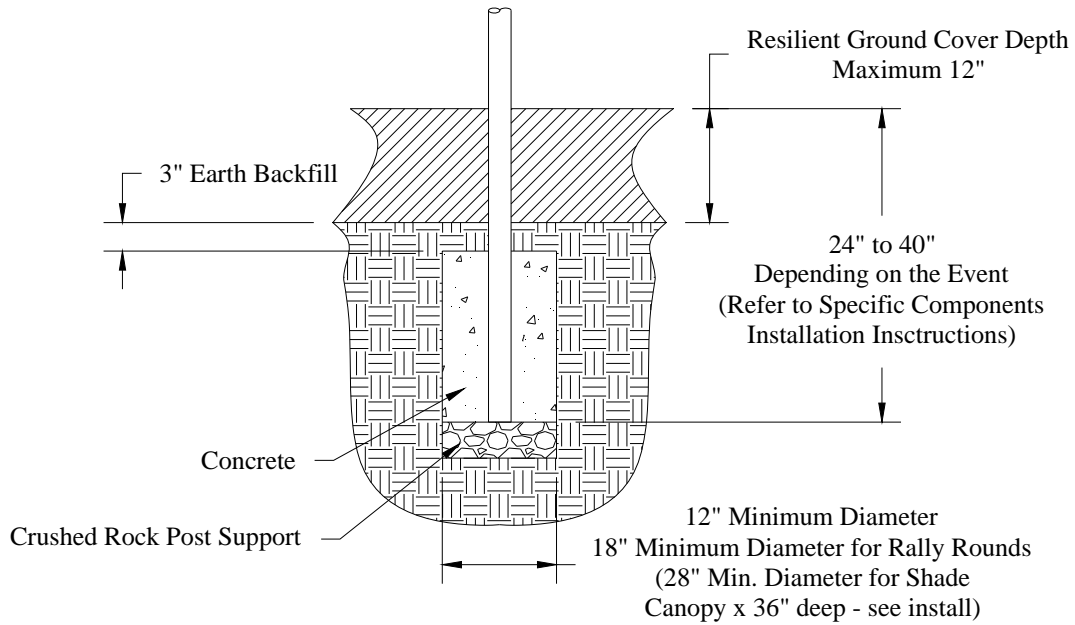


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

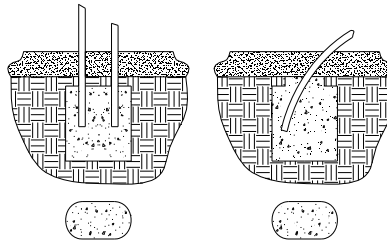


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

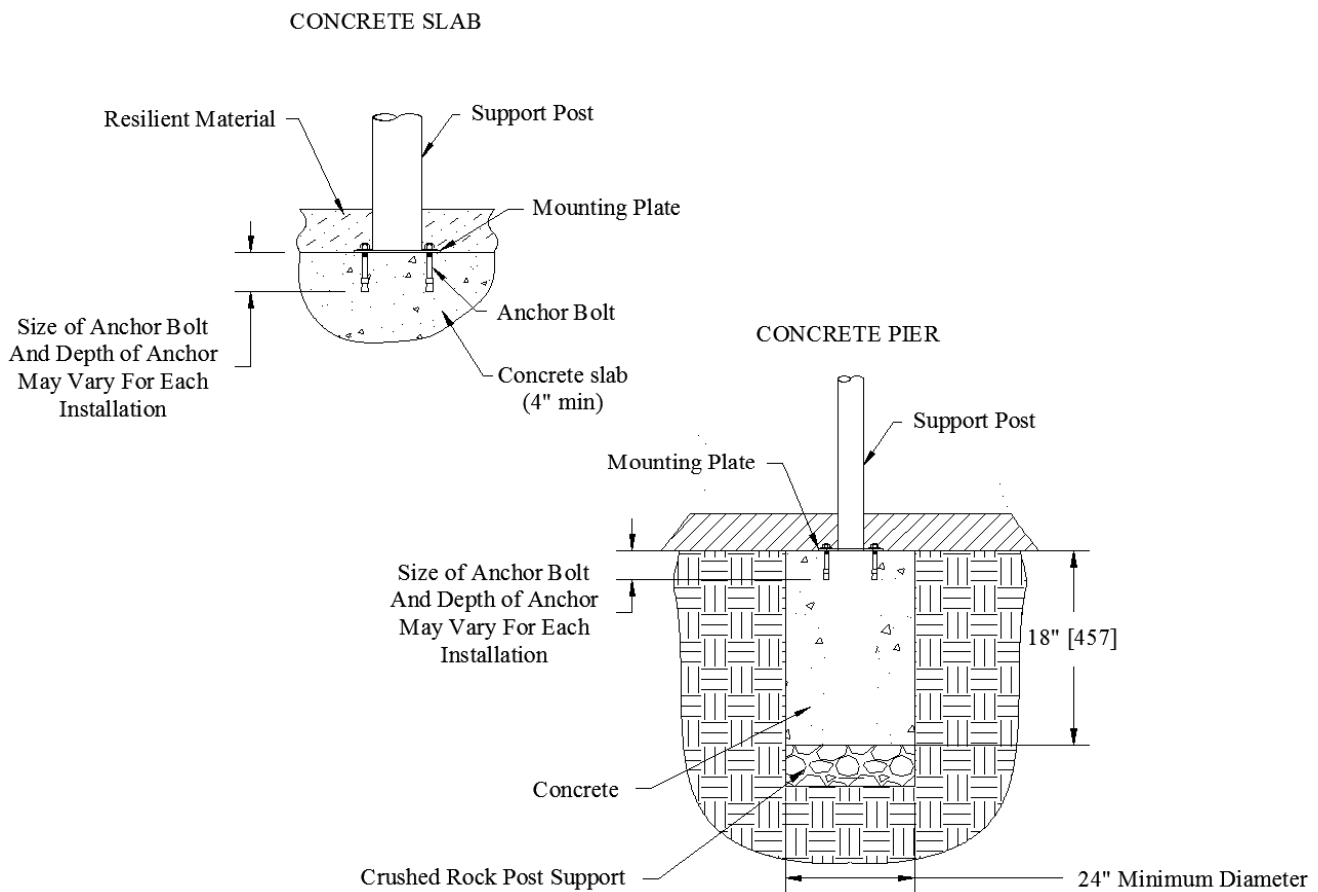


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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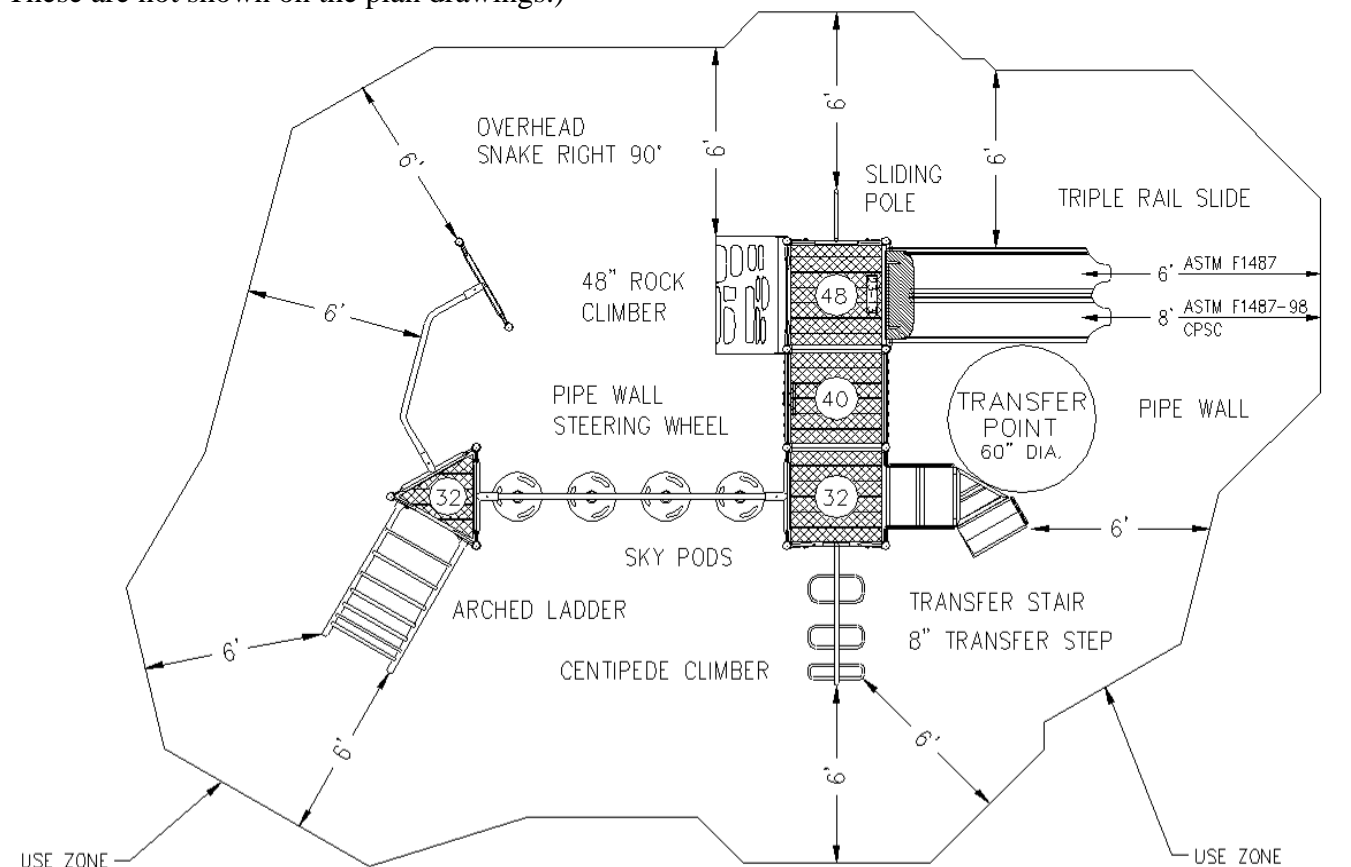
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

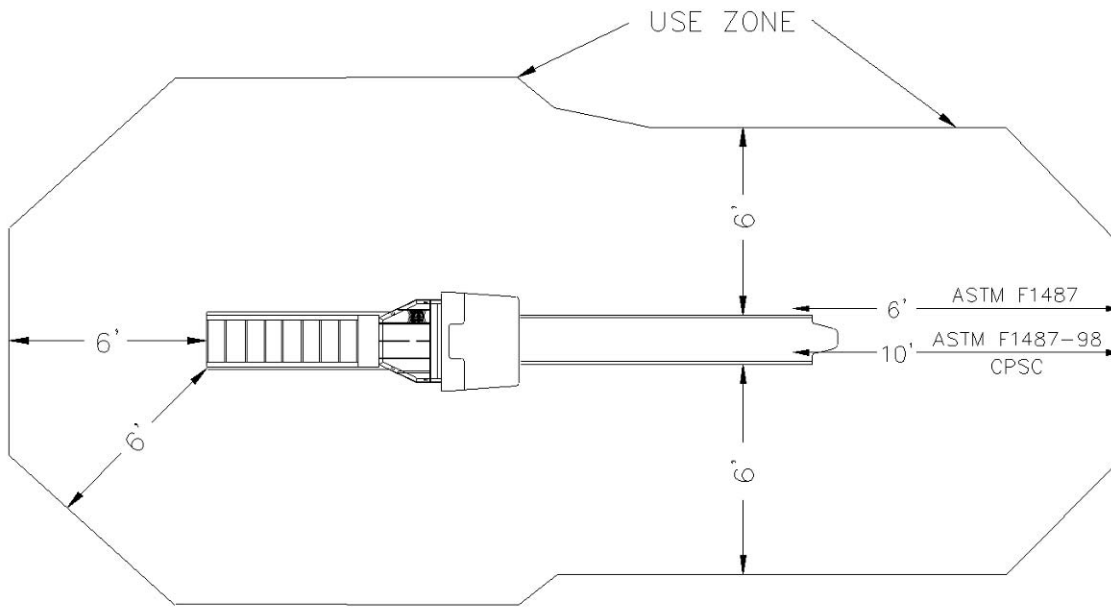


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of $Y + 72$ in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

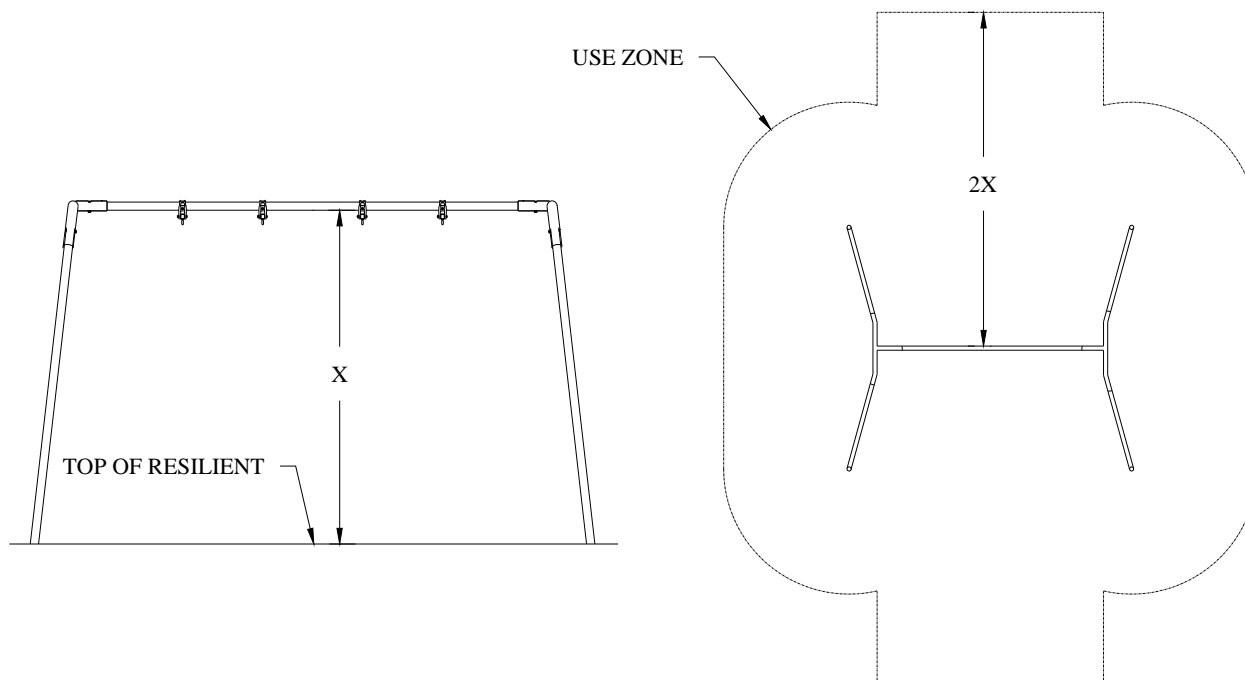


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

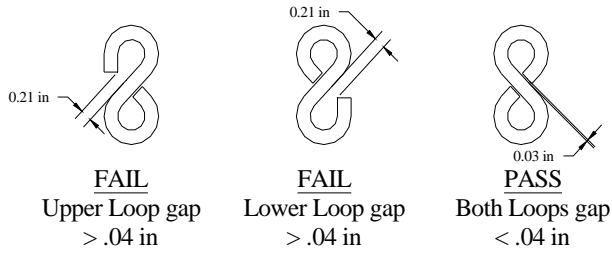


Figure 9: Check loops for .04" gap

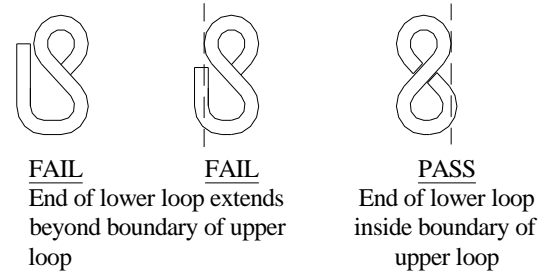


Figure 10: Check lower loop projection

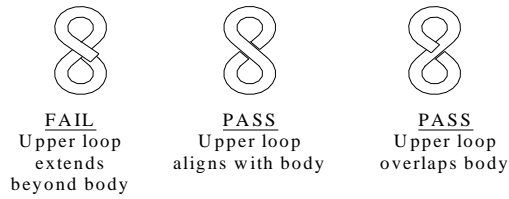


Figure 11: Check upper loop projection

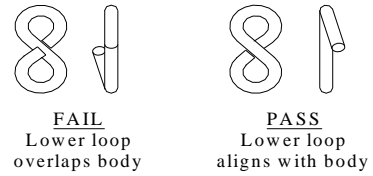


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

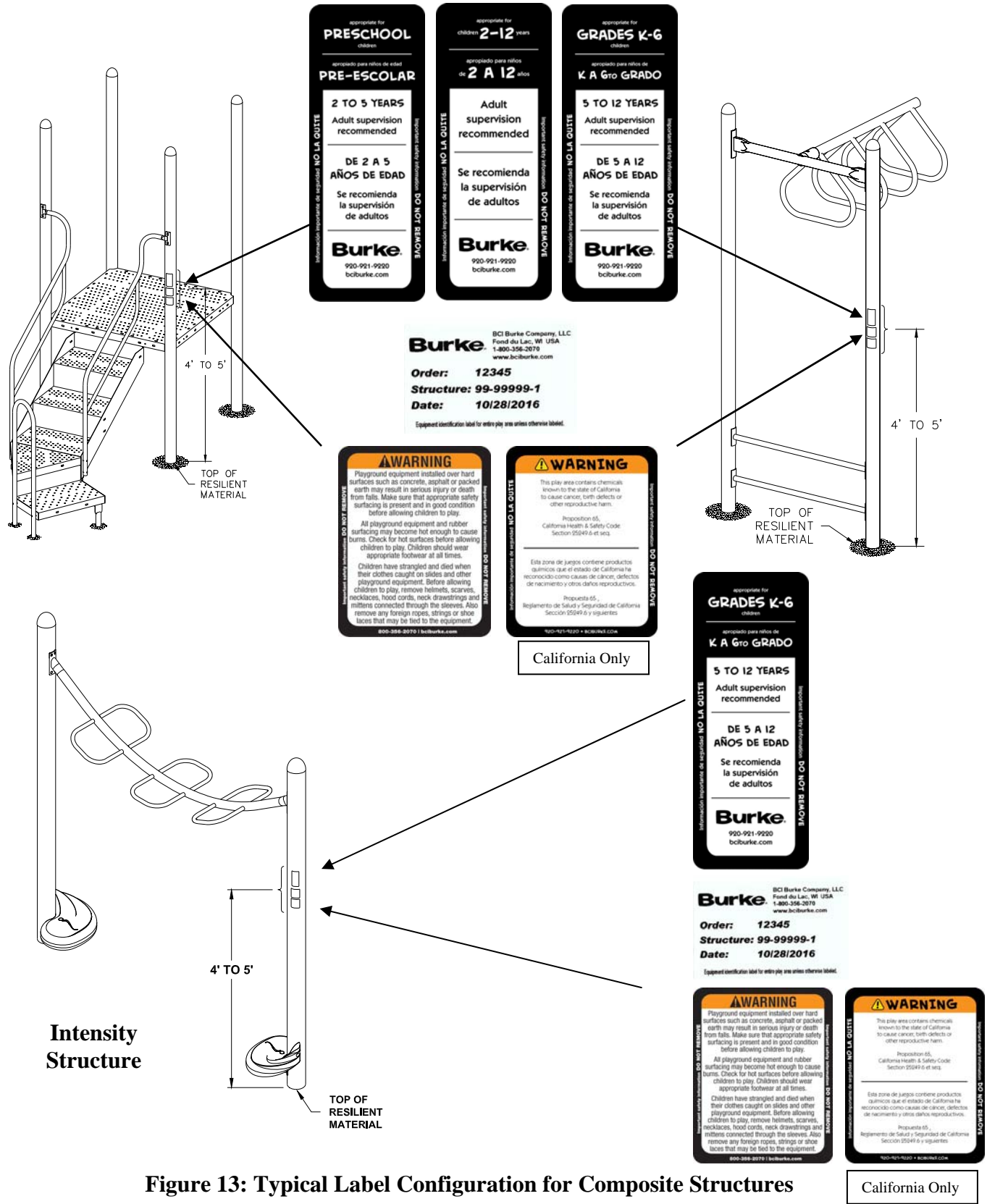


Figure 13: Typical Label Configuration for Composite Structures

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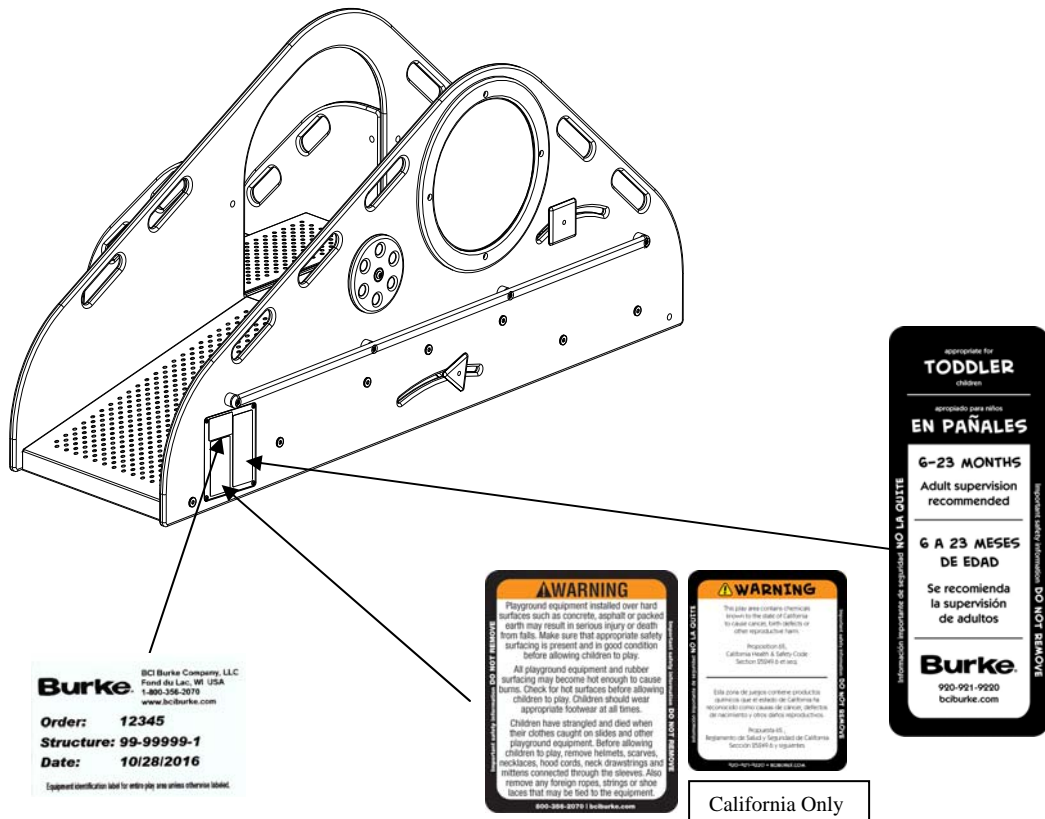


Figure 14: Typical Label Configuration for Composite Structures

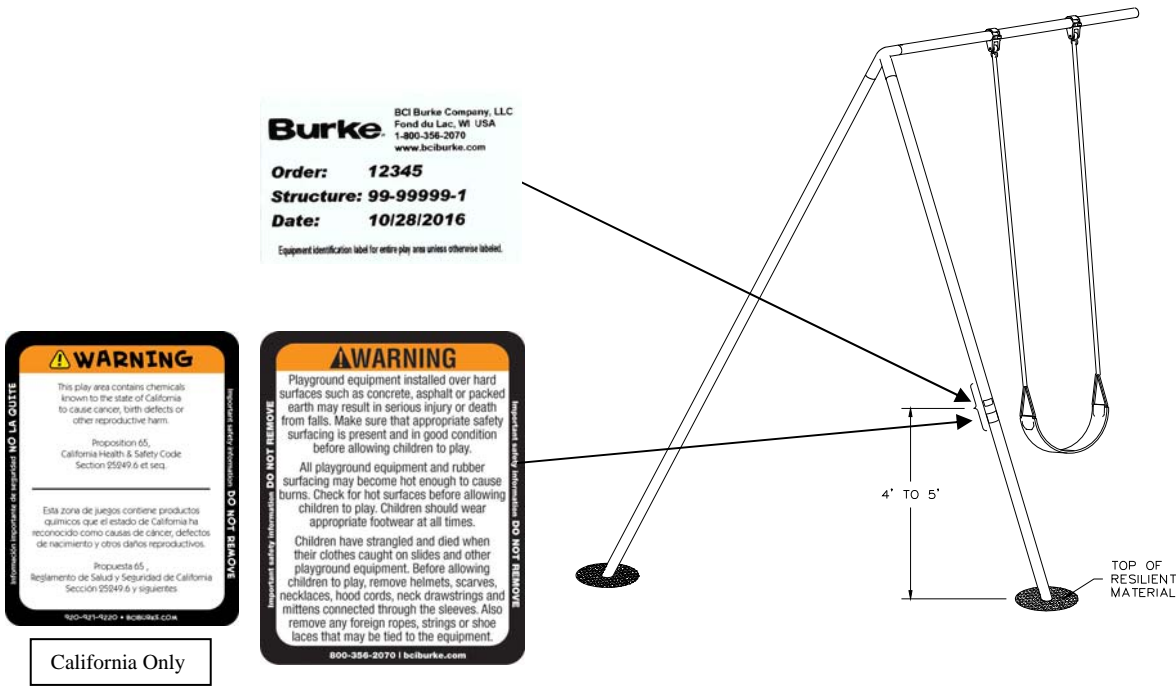


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- | | |
|--|--|
| <p>Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.</p> | <p><input type="checkbox"/> Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.</p> |
| <p><input type="checkbox"/> Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.</p> | <p><input type="checkbox"/> Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.</p> |
| <p><input type="checkbox"/> Clean dried concrete off support posts and any other affected components</p> | <p><input type="checkbox"/> Touch up any exposed metal on coated parts following the instructions in the Maintenance section.</p> |
| <p><input type="checkbox"/> Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.</p> | <p><input type="checkbox"/> Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.</p> |
| <p><input type="checkbox"/> Insure all post ends have properly installed post caps. Insure the drive rivets are secure.</p> | <p><input type="checkbox"/> Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.</p> |
| <p><input type="checkbox"/> Insure all fasteners are tightened according to specifications listed on your installation instructions.</p> | <p><input type="checkbox"/> Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.</p> |
| <p><input type="checkbox"/> Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.</p> | <p><input type="checkbox"/> Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.</p> |

Inspected by: _____

Inspection Date: _____

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For questions, call us at:
1-800-356-2070

MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris. **DO NOT** use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

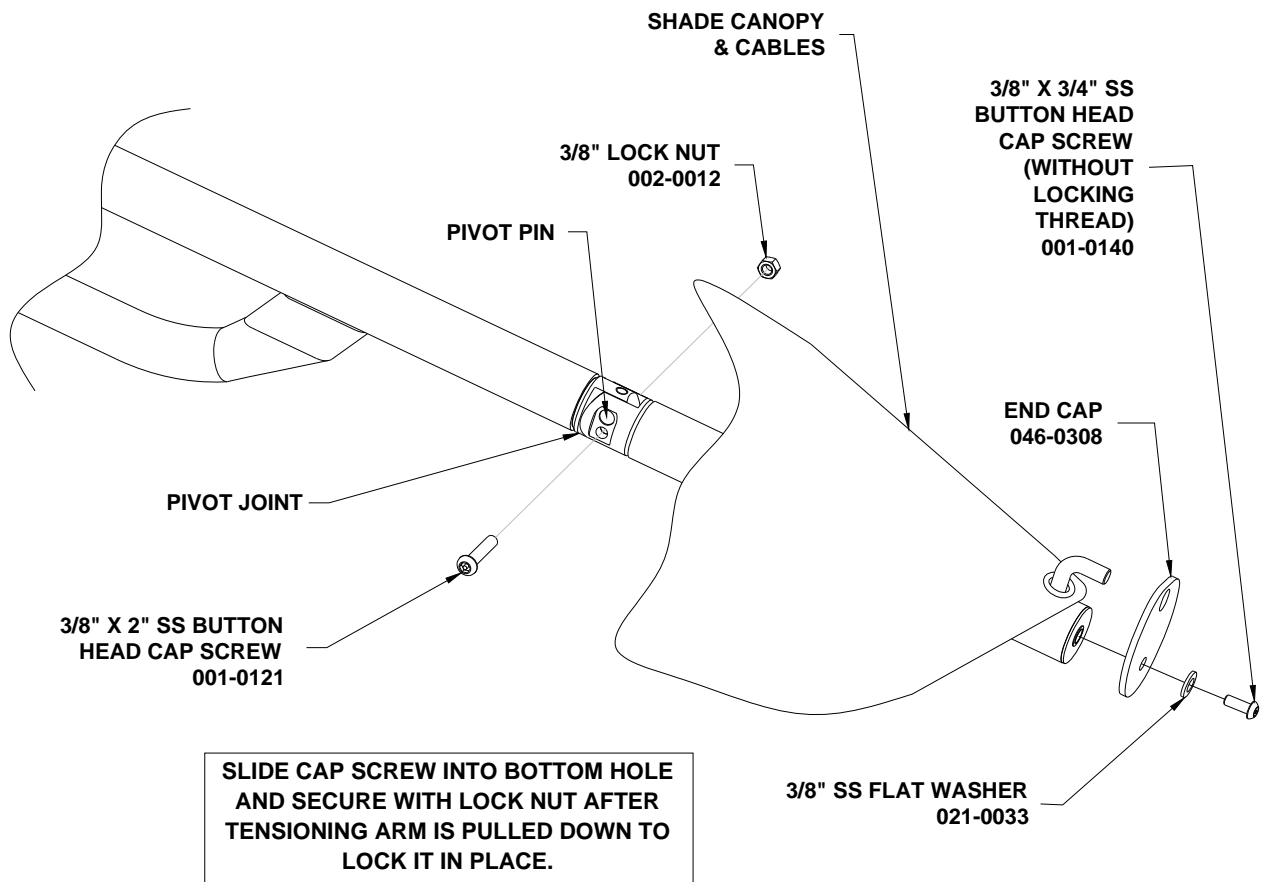


Figure 16: Tensioning Arm in 'Closed Position'

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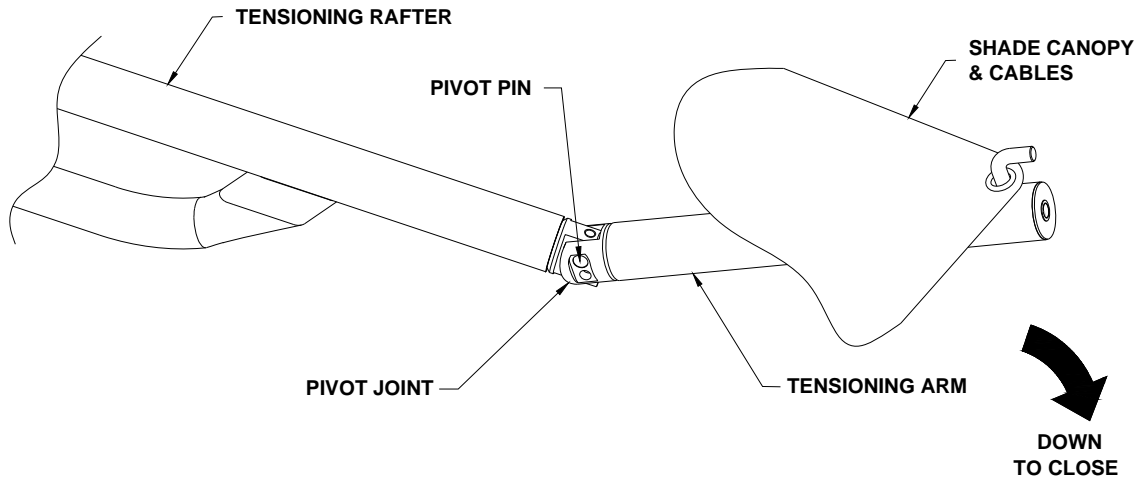


Figure 17: Tensioning Arm in 'Open Position'

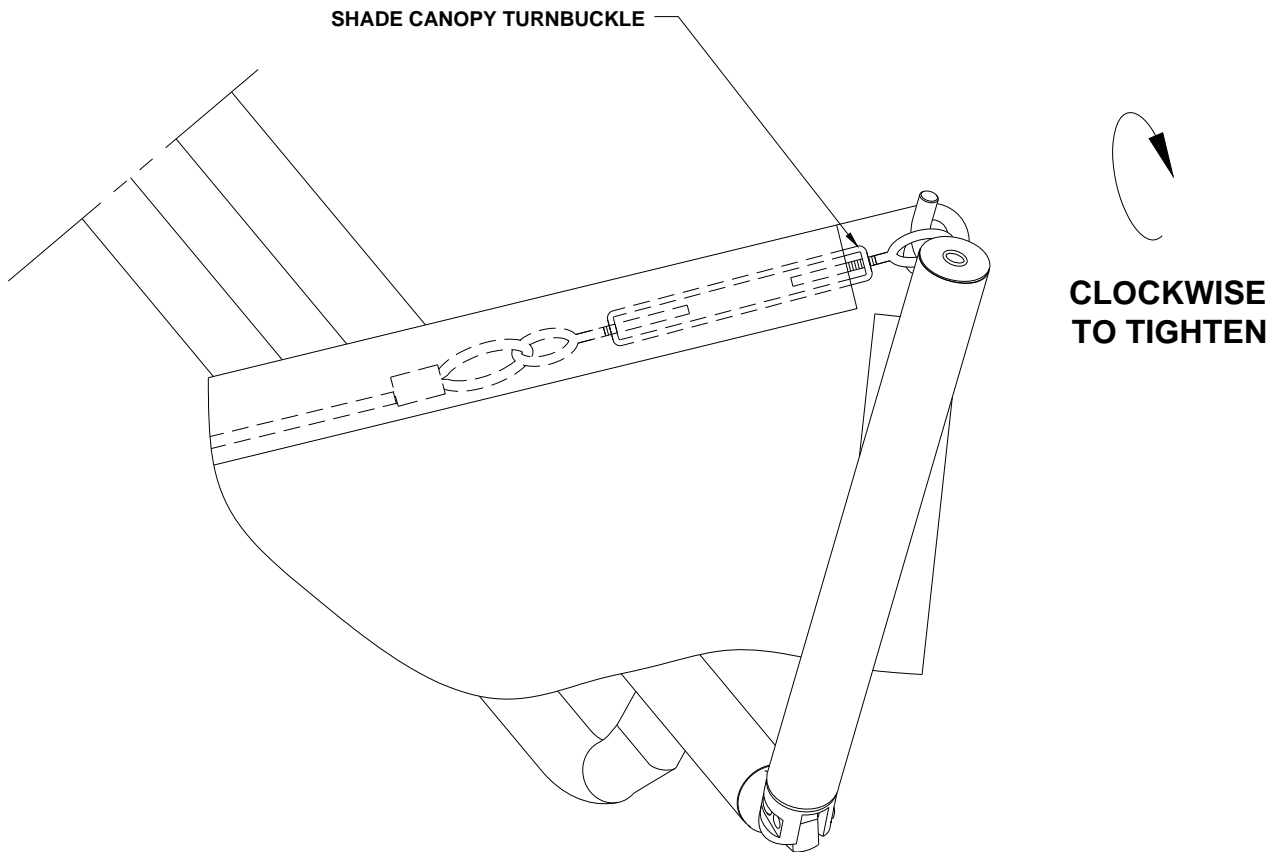


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope **AFTER** flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																			
Visible cracks, bending, warping																			
Accessible sharp edges or points																			
Rusted metal surfaces																			
Rusting of metal and corrosion on aluminum																			
Deformation of open hooks, rings, links, etc.																			
Worn swing hangers and chain																			
Missing or damaged swing seats																			
Heavy swing seats with sharp corners or edges																			
Broken supports/anchors																			
Jagged, exposed or cracked and loose concrete footing																			
Inadequate surfacing material under equipment																			
Exposed ends of pipe. Missing caps or plugs																			
Protruding bolt ends																			
Chipped or peeling paint																			
Cuts or fraying in rope with exposed steel reinforcement strands																			
Vandalism, broken glass, trash, etc.																			
Broken or missing rails, steps, rungs, seats																			
Loose or missing hardware																			
Pinch or crush points																			
Moving components, etc.																			
Lack of lubrication on moving parts																			
Worn bearings																			
Poor drainage areas at footings, slide exits, etc																			
Vandalized or cracked PVC coating																			

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

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For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnnect[®] clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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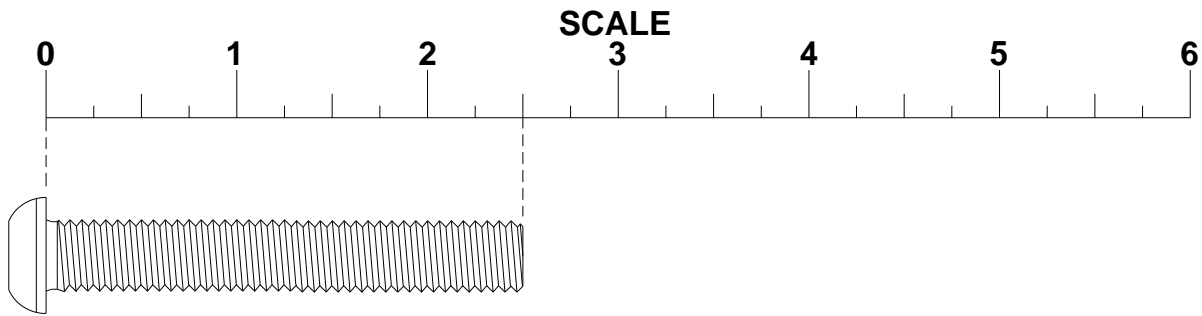
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APPENDIX

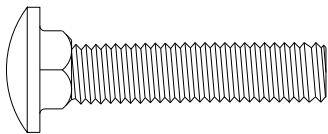
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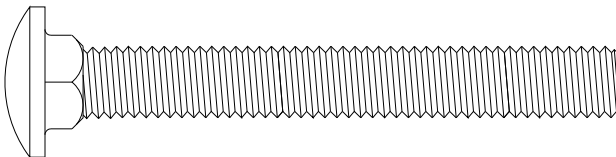


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

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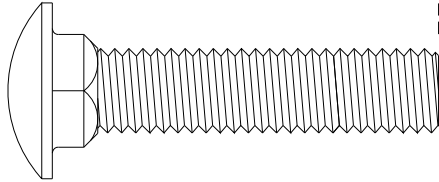
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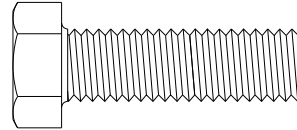
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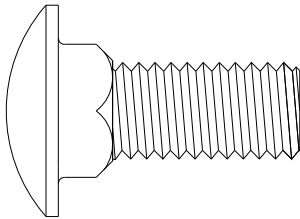
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



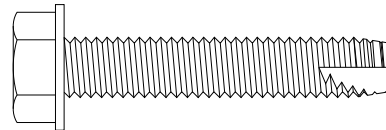
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4" SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4" SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

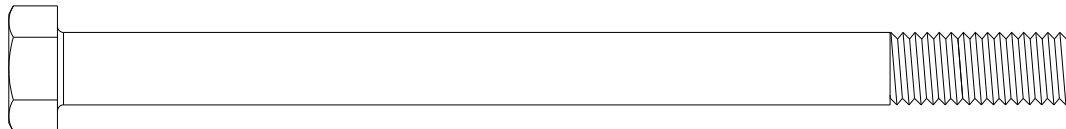


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

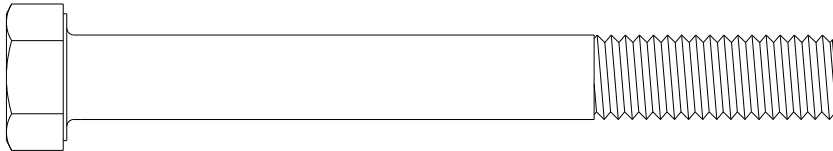
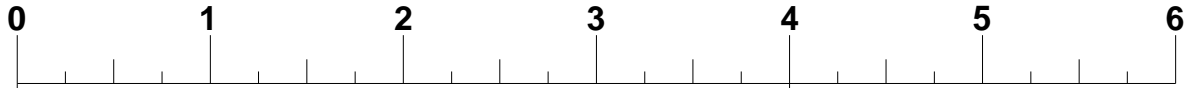
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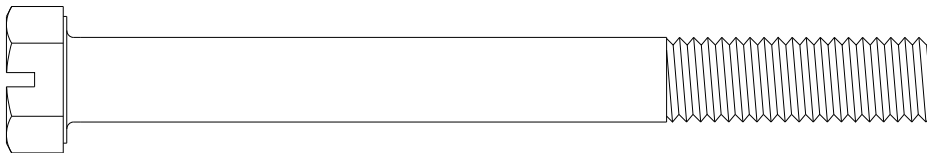
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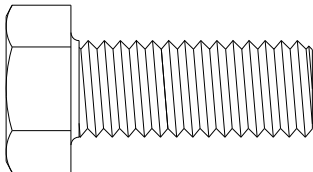
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

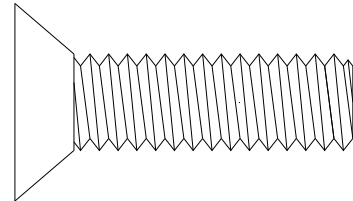


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

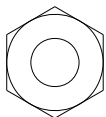
001-0186 - 3/8" X 1 1/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



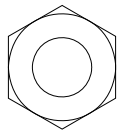
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



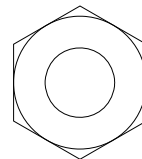
001-0139 - 1/2" X 1 3/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



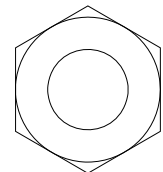
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

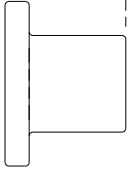
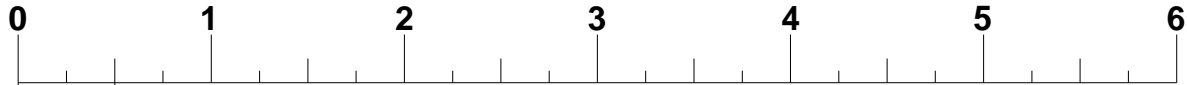
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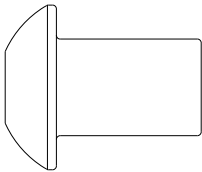
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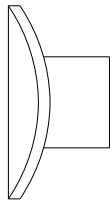
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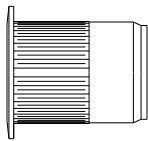
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



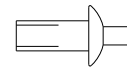
002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



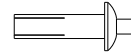
002-0042 - 3/8" NUT INSERT



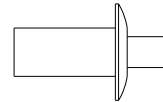
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



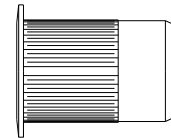
019-0010 - 5/32" X 3/8" DRIVE RIVET



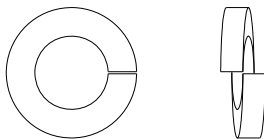
019-0016 - 1/8" X 15/32" DRIVE RIVET



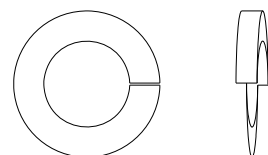
019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0022 - 3/8" LOCK WASHER



021-0027 - 7/16" LOCK WASHER

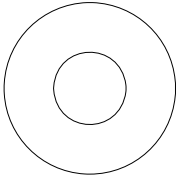
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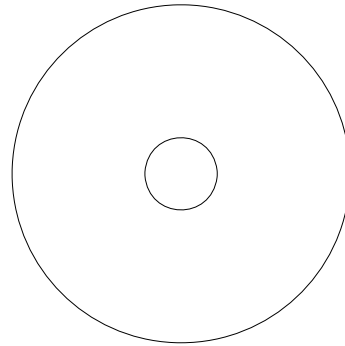
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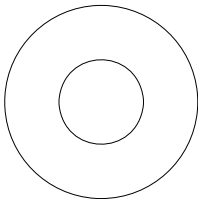
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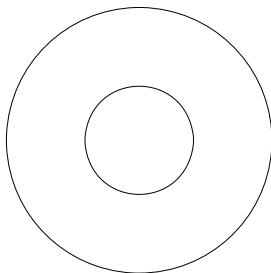
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



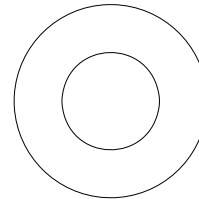
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



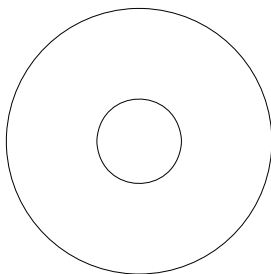
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



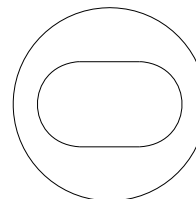
021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

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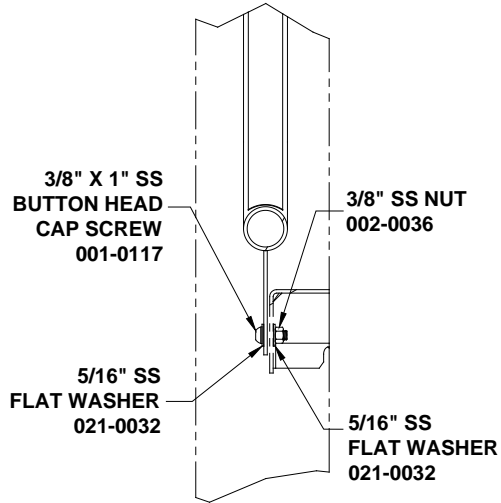
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Installation Instructions

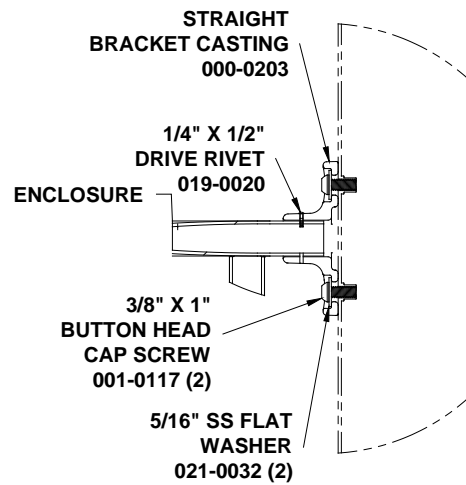
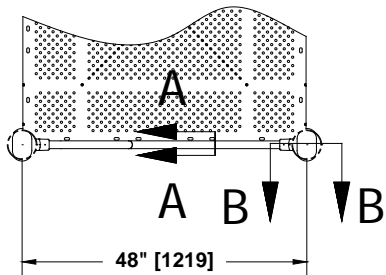
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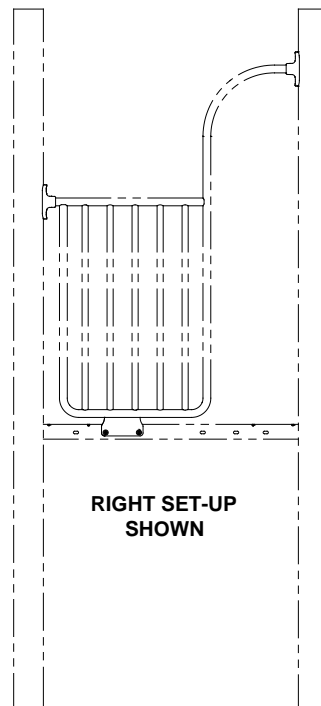
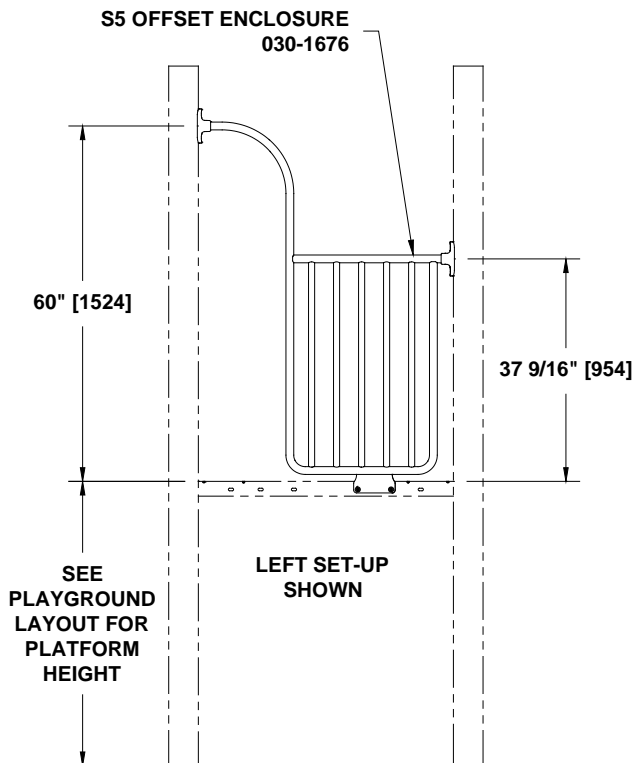
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SECTION A-A
(2 PLACES)



SECTION B-B
(2 PLACES)



270-0001 OFFSET ENCLOSURE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1676	S5 OFFSET ENCLOSURE	1
036-1284	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 OFFSET ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and 10 GA sheet steel. Finished with a baked on powder coating.

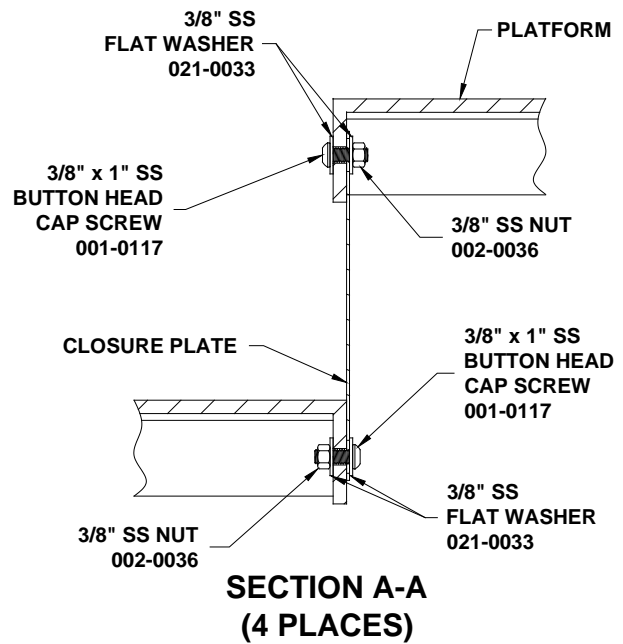
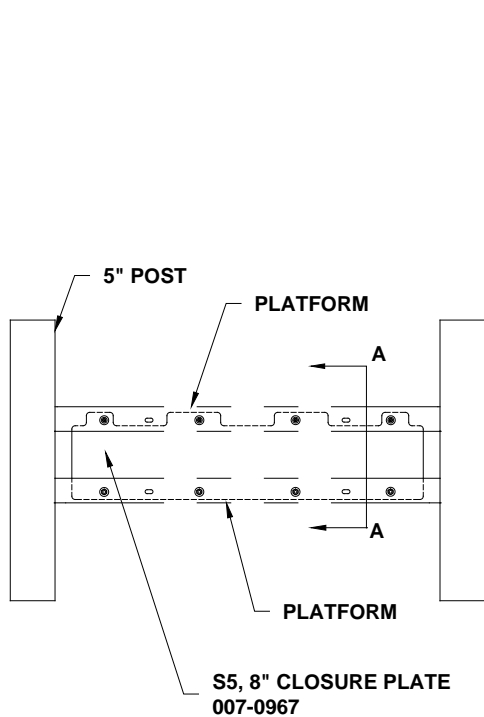
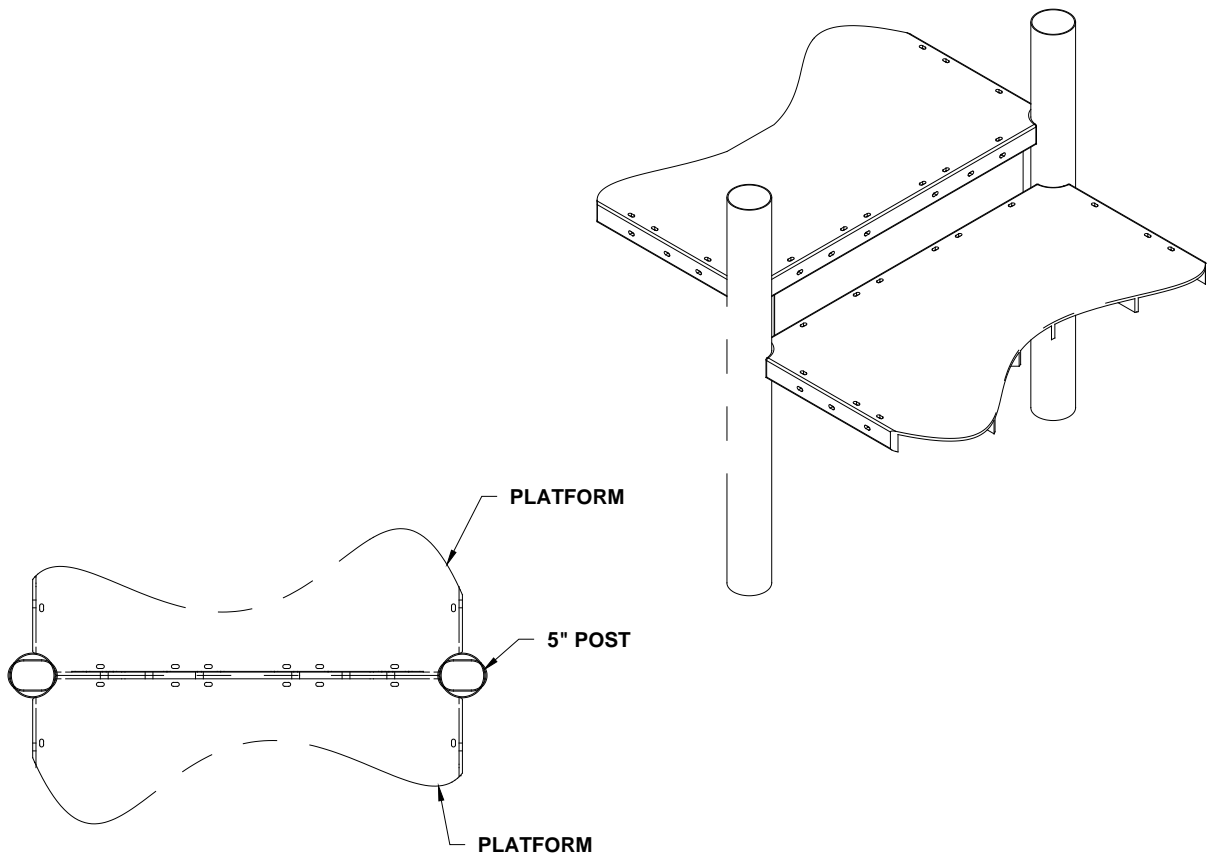
HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 30 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

1. Locate holes for BRACKETS CASTINGS to 5" O.D. posts as per dimensions shown.
2. Insert bracket castings onto ends of OFFSET ENCLOSURE and attach bracket castings to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
3. Attach bottom of pipe wall to platform using 3/8" x 1" SS button head cap screws, 5/16" SS washers and 3/8" SS nuts. Tighten all hardware. See SECTION A-A.
4. Drill 1/4" diameter holes through pilot hole in casting and into enclosure. See SECTION B-B.
5. Drive rivets flush with brackets.
6. Tighten All Hardware.



270-0050 8" CLOSURE PLATE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
007-0967	S5 8" CLOSURE PLATE	1
036-1380	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

S5 8" CLOSURE PLATE: 14 GA galvanized steel plate finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, nuts and washers.

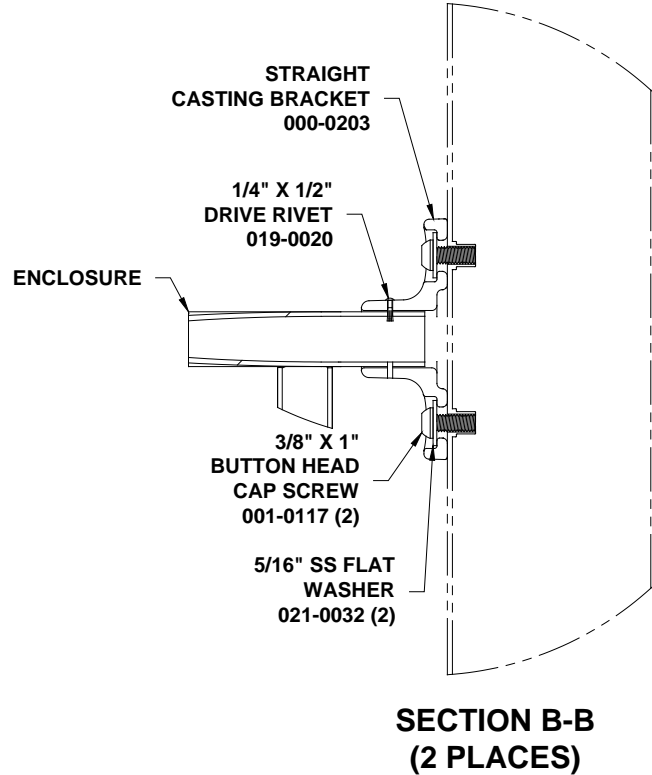
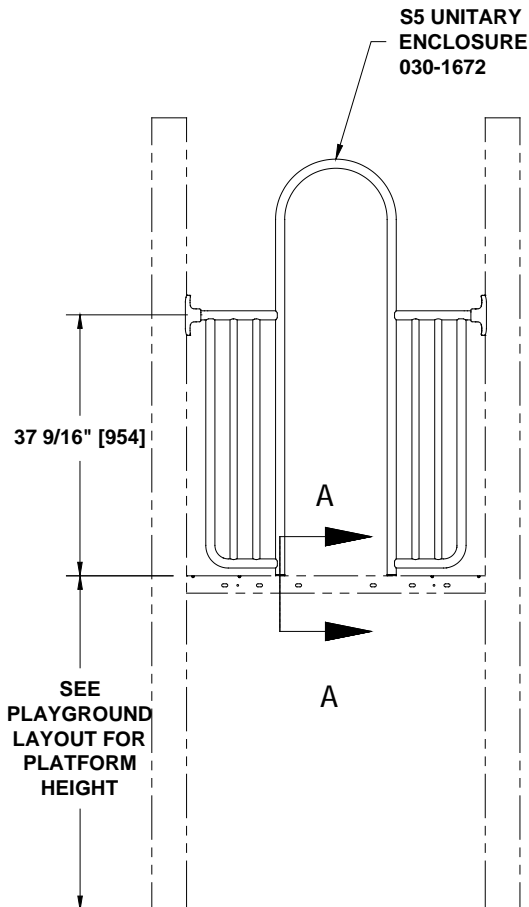
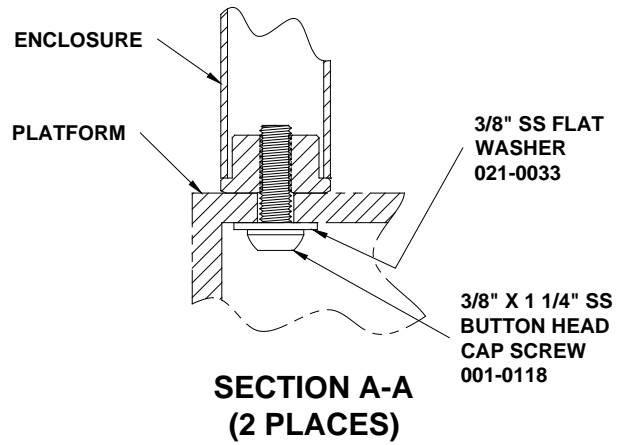
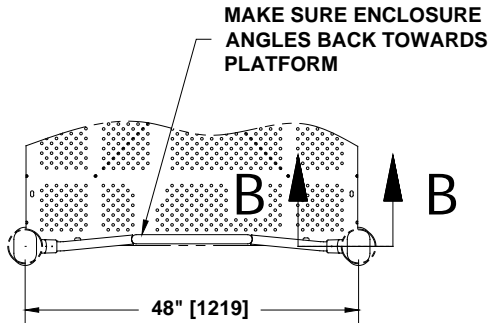
SHIPPING WEIGHT: 10 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of platforms before installation.

1. Attach CLOSURE PLATE to upper and lower platform using 3/8" x 3/4"SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. See SECTION A-A.
2. Tighten hardware.

270-0050.doc Description: 8" CLOSURE PLATE
REV: 03 PCN: 18-0082 3/8/2018



270-0112 UNITARY ENCLOSURE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1672	NUCLEUS UNITARY ENCLOSURE	1
036-0258	HARDWARE PACKAGE	2
036-0819	HARDWARE PACKAGE	1
036-1207	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

NUCLEUS UNITARY ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and HDPE threaded inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: Aluminum Rivets

HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 35 LBS.

INSTALLATION INSTRUCTIONS

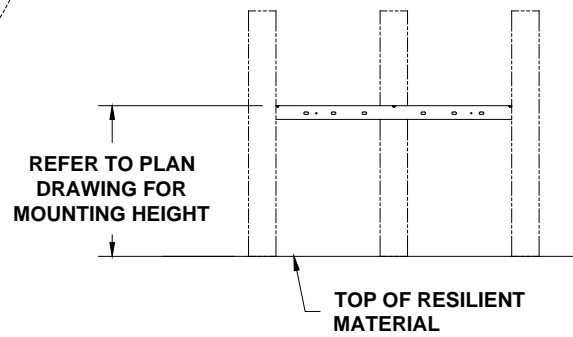
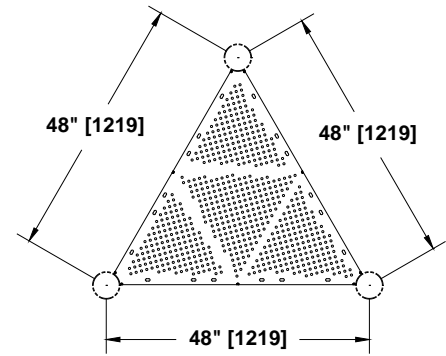
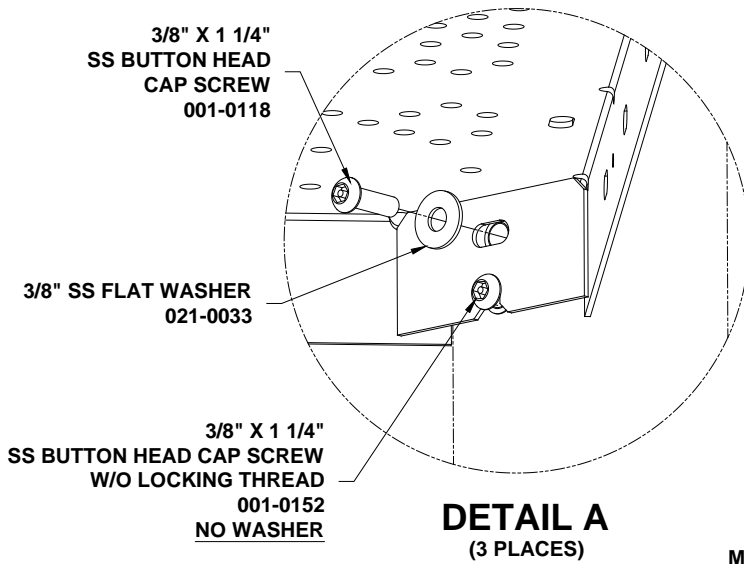
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

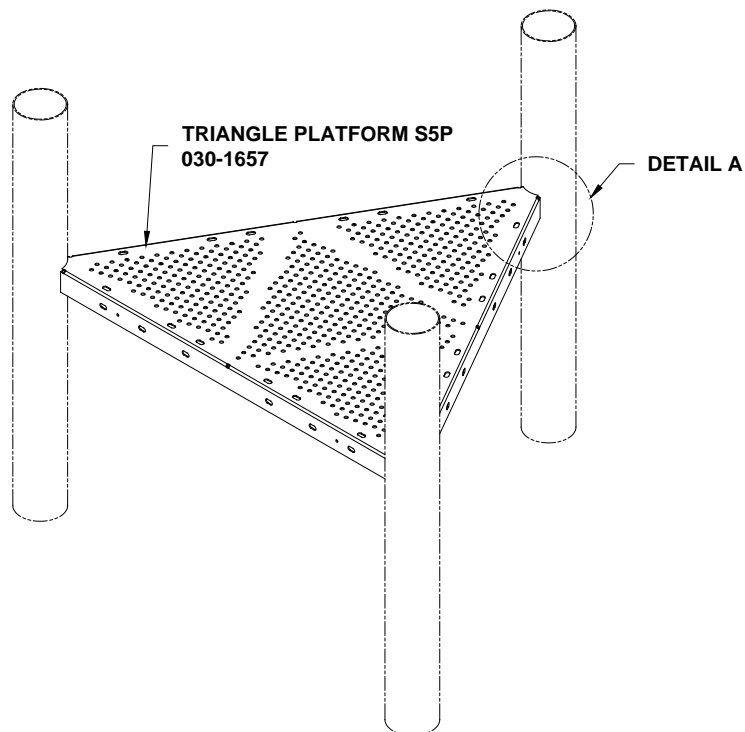
NOTE: Make sure enclosure angles back towards platform. (See Top View)

1. Locate holes for CASTING BRACKETS to 5" O.D. posts as per dimensions shown.
2. Insert castings onto ends of UNITARY ENCLOSURE and attach top hole of brackets to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
3. Rotate unitary enclosure up 90 degrees and attach bottom hole of brackets to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
4. Rotate unitary enclosure down 90 degrees and attach to platform using 3/8" x 1 1/4" button head cap screws and 3/8" washers as shown. Tighten screws. See SECTION A-A. See FRONT VIEW.
5. Drill 1/4" diameter hole through pilot hole in brackets through enclosure. Insert DRIVE RIVET. Drive rivets flush.
6. Tighten all Hardware.

270-0112.doc Description: UNITARY ENCLOSURE
REV: 02 PCN: 17-0260 8/28/2017



ELEVATION VIEW



**270-0129
TRIANGLE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1657	TRIANGLE PLATFORM S5P	1
036-1100	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TRIANGLE PLATFORM S5P: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

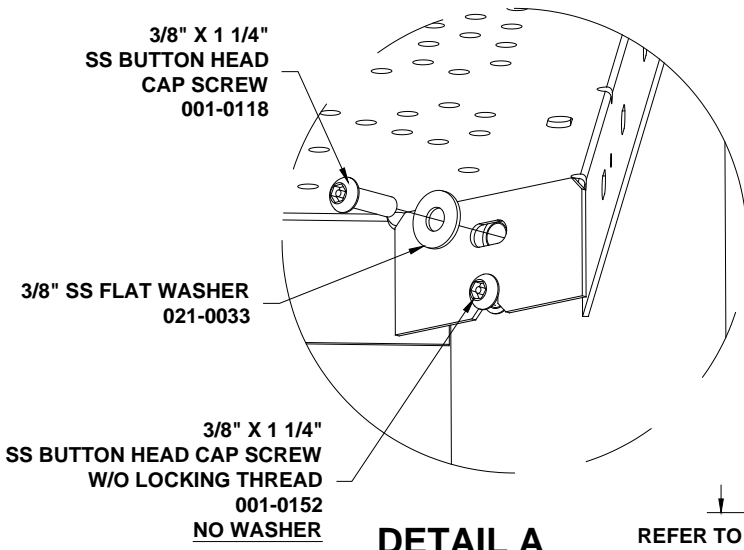
SHIPPING WEIGHT: 48 LBS.

INSTALLATION INSTRUCTIONS

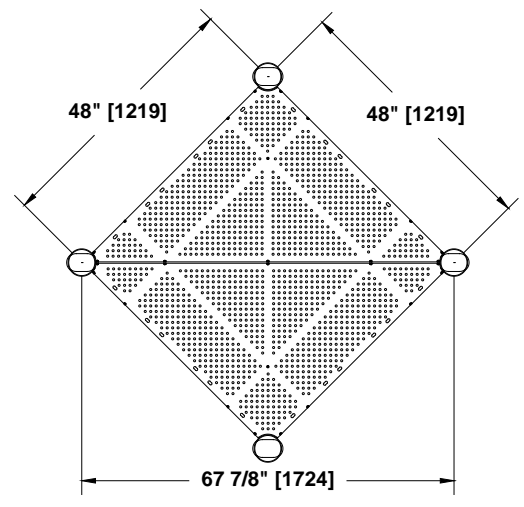
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

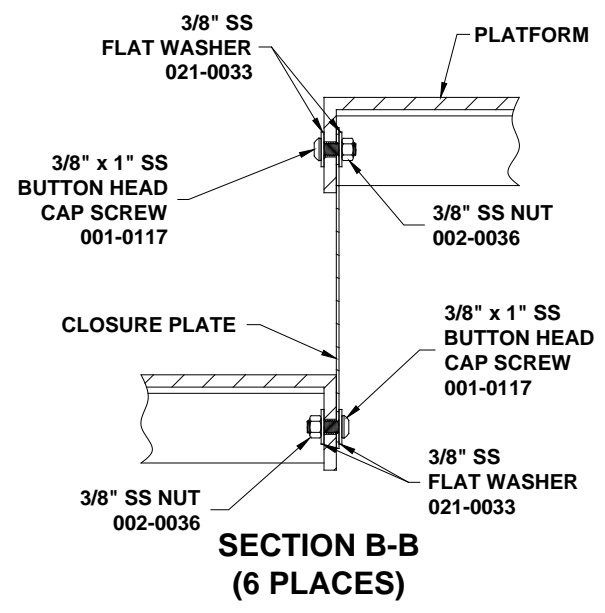
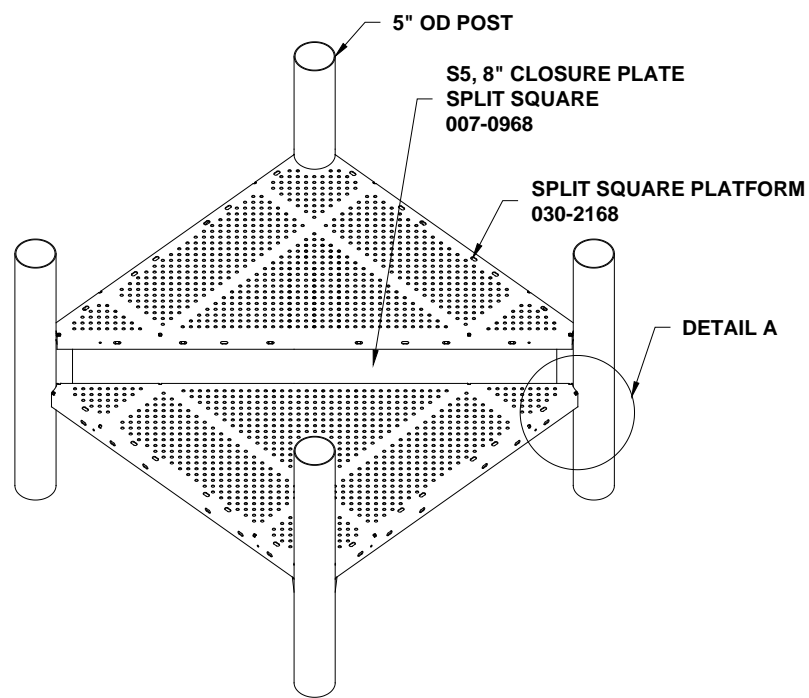
1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the three corners of the TRIANGLE PLATFORM S5P on the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Tighten all hardware.
7. Pour concrete. Let set for two to three days.
8. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



**DETAIL A
(6 PLACES)**



ELEVATION VIEW



**270-0136
SPLIT SQUARE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
007-0968	S5, 8" CLOSURE PLATE, SPLIT SQUARE	1
030-2168	SPLIT SQUARE PLATFORM	2
036-1107	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

S5, 8" CLOSURE PLATE, SPLIT SQUARE: 14 GA galvanized steel plate finished with a baked on powder coating.

SPLIT SQUARE PLATFORM: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

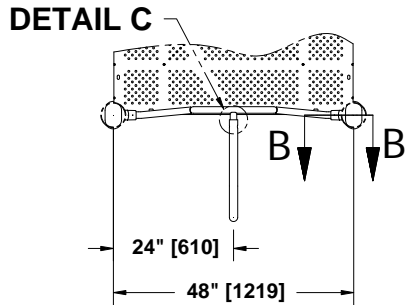
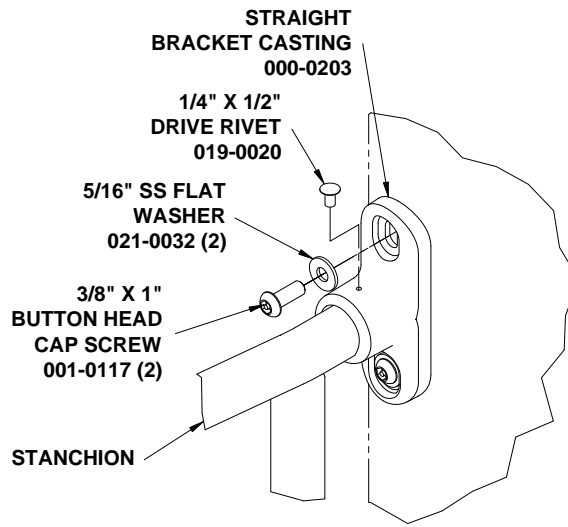
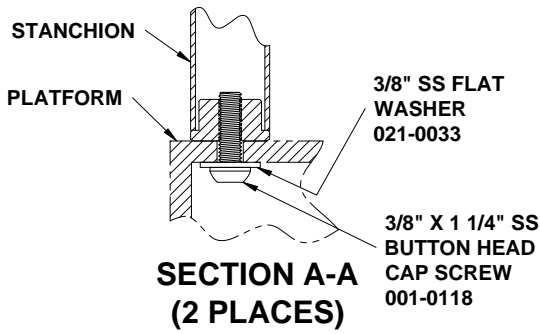
SHIPPING WEIGHT: 103 LBS.

INSTALLATION INSTRUCTIONS

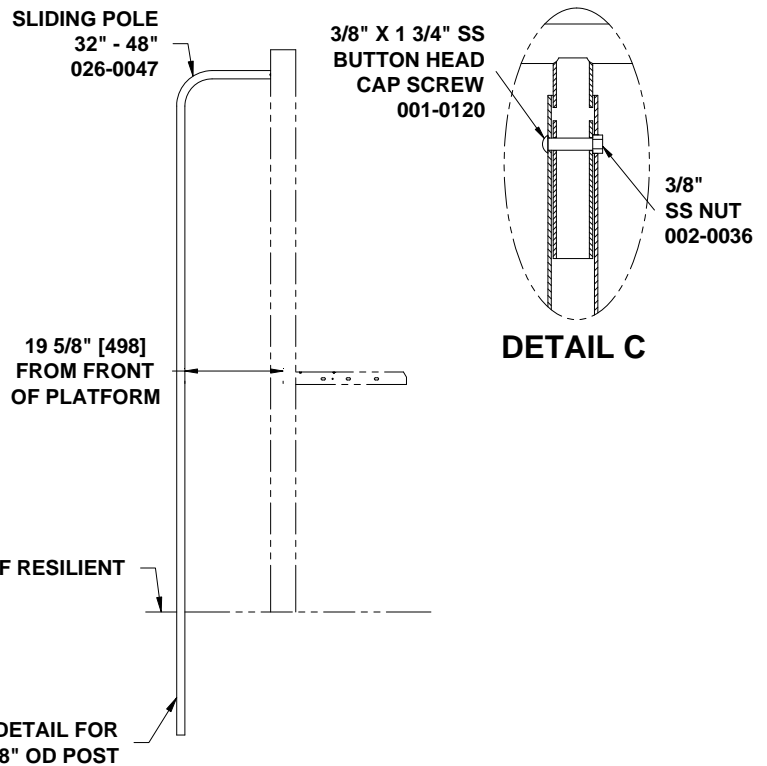
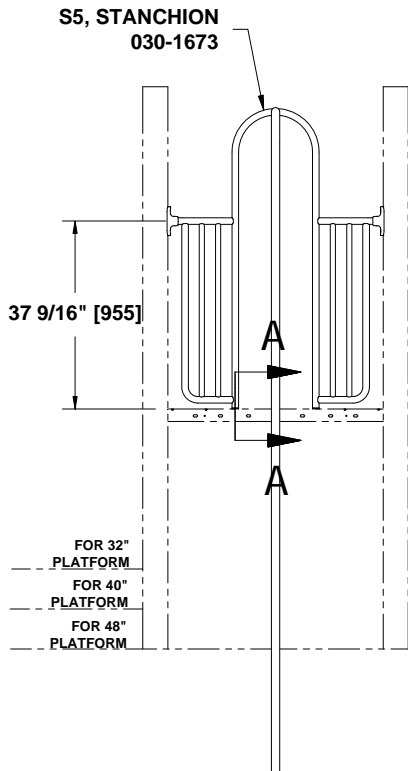
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the three corners of the SPLIT SQUARE PLATFORM onto the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Attach CLOSURE PLATE to platforms using 3/8" x 1" SS button head cap screws, 3/8" washers, and 3/8" nuts. See SECTION B-B.
7. Tighten all hardware.
8. Pour concrete. Let set for two to three days.
9. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



**SECTION B-B
(2 PLACES)**



370-0147
S5000 SLIDING POLE 32" - 48"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
026-0047	SLIDING POLE 32"-48"	1
030-1673	S5 STANCHION	1
036-0737	HARDWARE PACKAGE	1
036-0819	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

SLIDING POLE 32"-48": 1.660" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

S5 STANCHION: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and HDPE threaded inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, nuts and flat washers; zinc plated steel self tapping screws; aluminum drive rivets.

HARDWARE PACKAGE: Aluminum Rivets

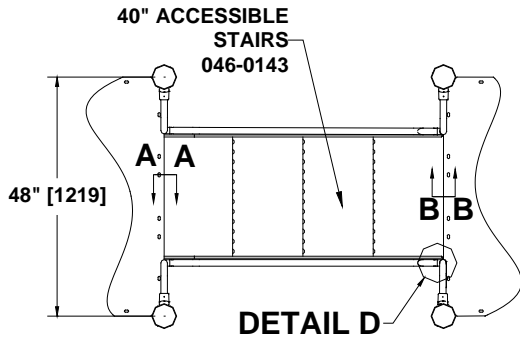
SHIPPING WEIGHT: 56 LBS.

INSTALLATION INSTRUCTIONS

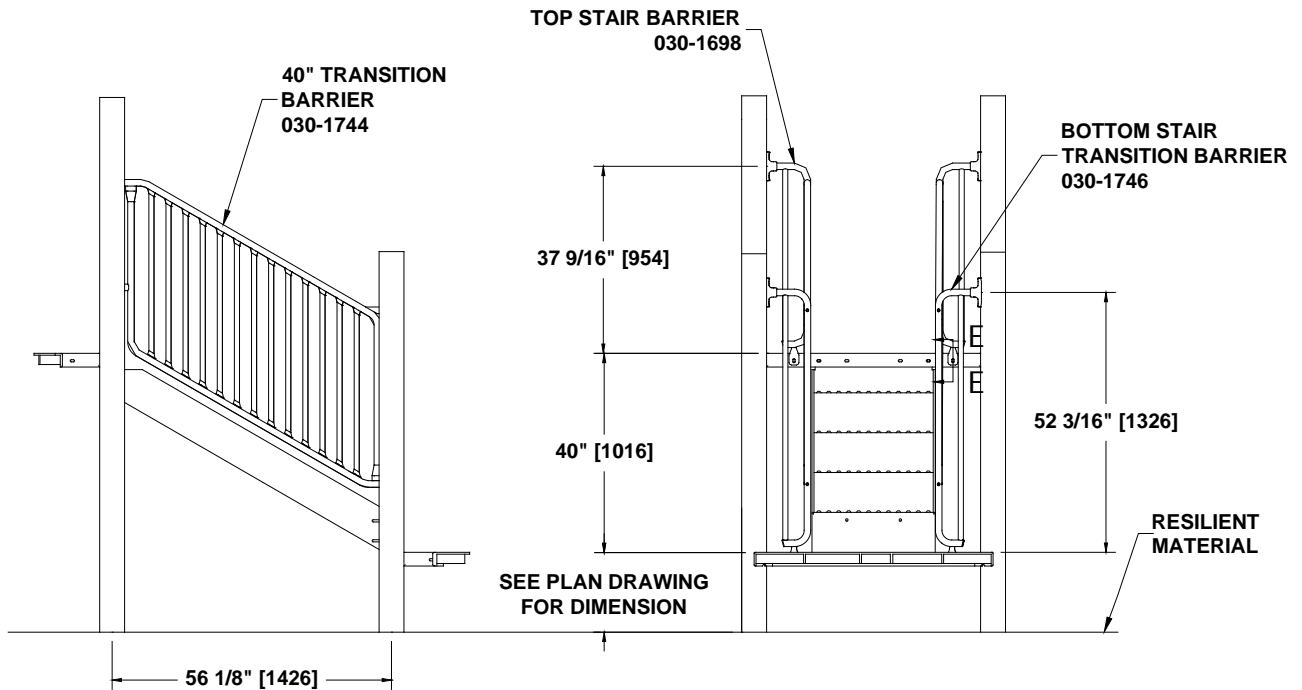
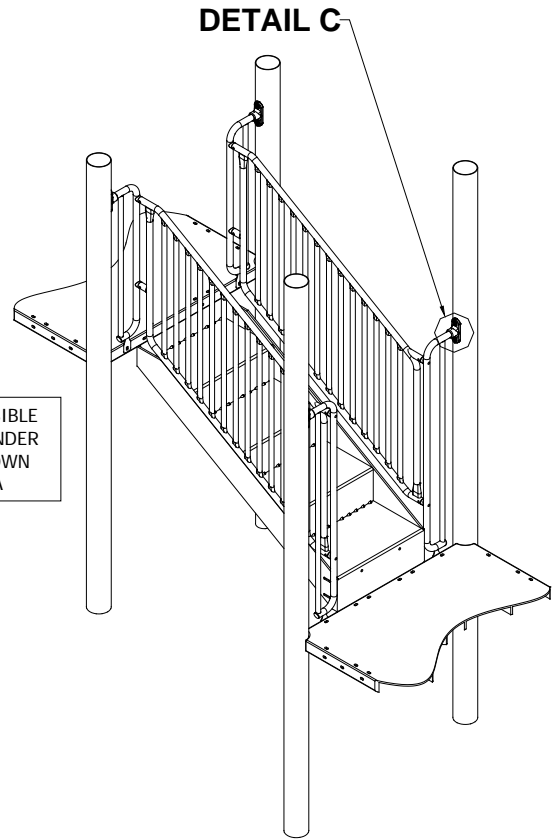
NOTE: Plastisol coating may need to be removed from mounting holes on platform before installing this climber.

1. Locate and dig footing hole as per dimensions shown. See typical concrete footing details, which are located in the preface of your installation manual.
2. Locate mounting holes for STANCHIONS on 5" O.D. posts.
3. Slide STRAIGHT BRACKET CASTING over ends of stanchion. Position stanchion with brackets into opening. Install 3/8" x 1" BUTTON HEAD CAP SCREWS and 5/16" WASHERS through upper holes of brackets and into 5" O.D. posts. See SECTION B-B.
4. Rotate stanchion up 90 degrees and install 3/8" x 1" BUTTON HEAD CAP SCREWS and 5/16" WASHERS into bottom holes of brackets. See DETAIL B. Tighten all hardware.
5. Rotate stanchion down to align holes in platform with stanchion nutserts.
6. Attach stanchion to platform using 3/8" x 1 1/4" BUTTON HEAD CAP SCREWS and 3/8" WASHERS. See SECTION A-A. Tighten all hardware.
7. Drill 1/4" diameter holes through pilot hole, into stanchion and through bracket. See SECTION B-B.
8. Drive rivets flush with brackets and handrails.
9. Position SLIDING POLE into footing hole and attach to stanchion using 3/8" x 1 3/4" BUTTON HEAD CAP SCREWS and 3/8" NUT. See DETAIL C. Tighten all hardware.
10. Block-up and plumb.
11. Pour concrete and allow concrete to set for 2-3 days.
12. Install resilient surfacing material.

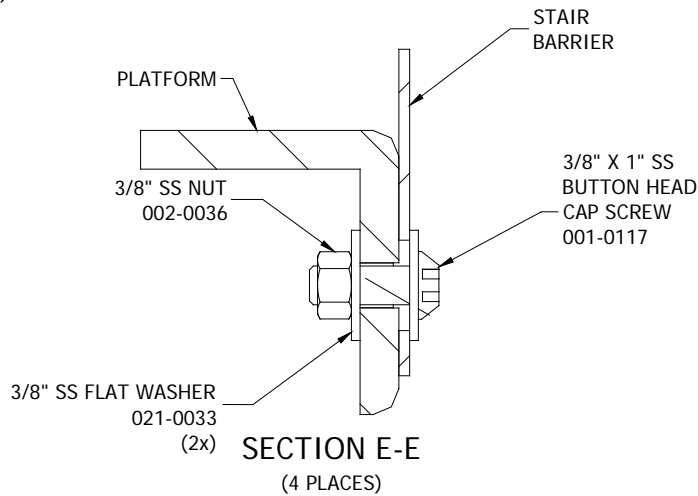
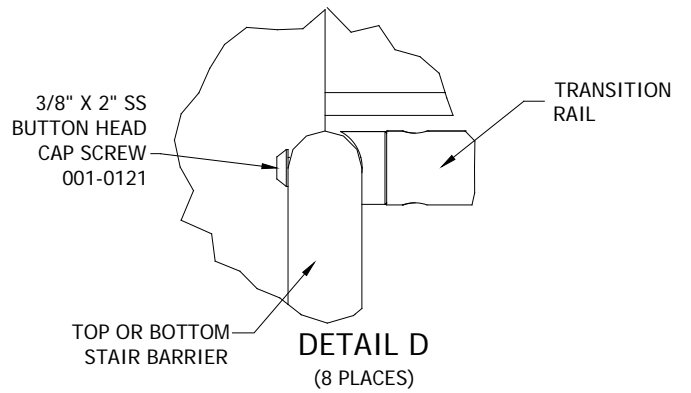
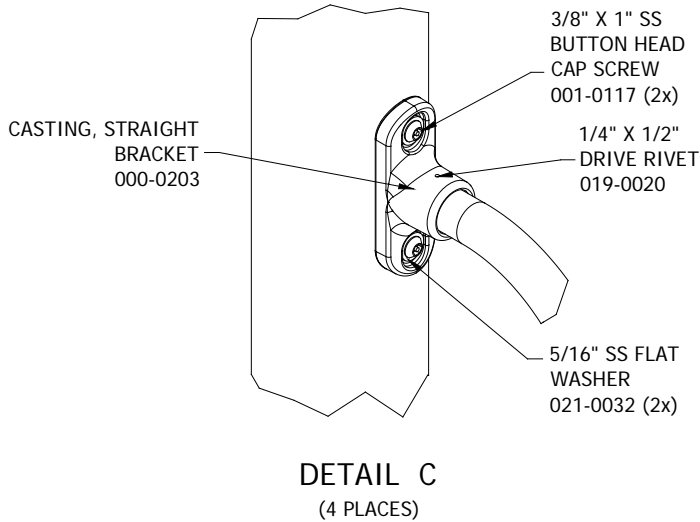
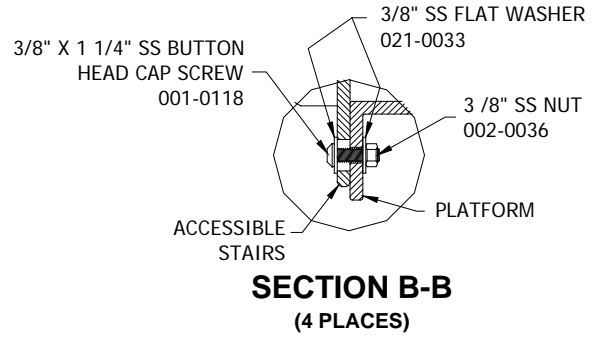
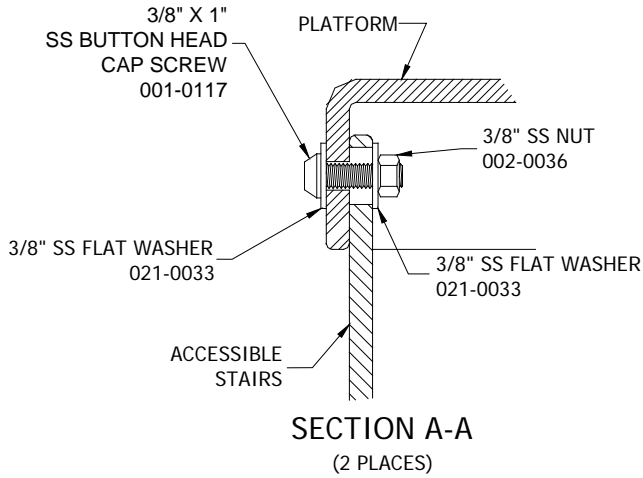
370-0147.doc Description: SLIDING POLE 32"-48"
REV: 00 PCN: 09-0015 8/21/2009



TOP OF 40" ACCESSIBLE STAIR MOUNTED UNDER PLATFORM AS SHOWN IN SECTION A-A



370-0469
40" TRANSITION STAIR W/BARRIERS



370-0469

40" TRANSITION STAIR W/BARRIERS

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	4
030-1698	TOP STAIR BARRIER	2
030-1744	40" TRANSITION BARRIER	2
030-1746	BOTTOM STAIR TRANSITION BARRIER	2
036-1125	HARDWARE PACKAGE	1
046-0143	40" ACCESSIBLE STAIRS	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

TOP STAIR BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing and 10 GA galvanized steel plate. Finished with a baked on powder coating.

40" TRANSITION BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing, malleable iron plug and 10 GA galvanized steel plate. Finished with a baked on powder coating.

BOTTOM STAIR TRANSITION BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing and 10 GA galvanized steel plate. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

40" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

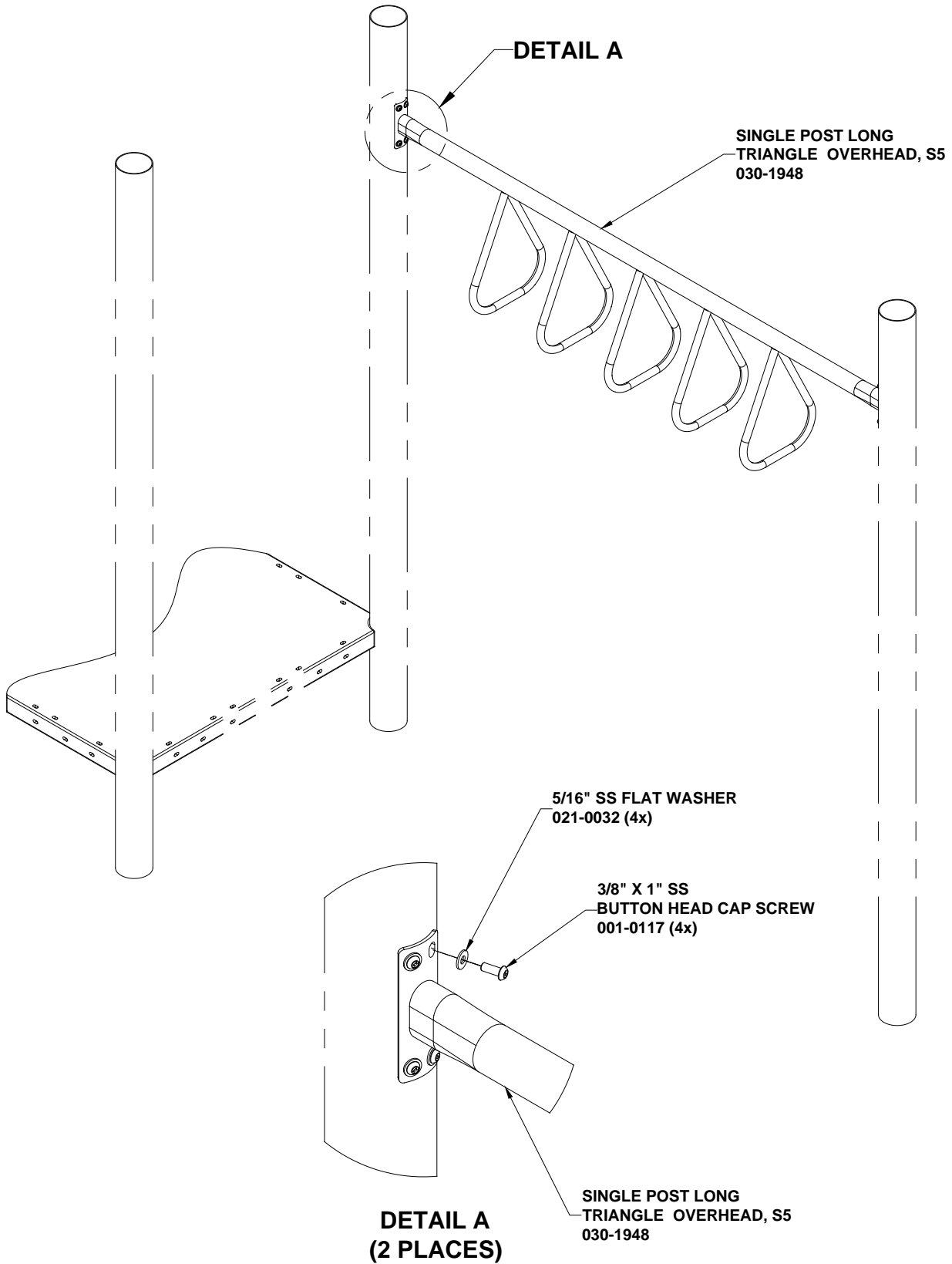
SHIPPING WEIGHT: 279 LBS.

INSTALLATION INSTRUCTIONS

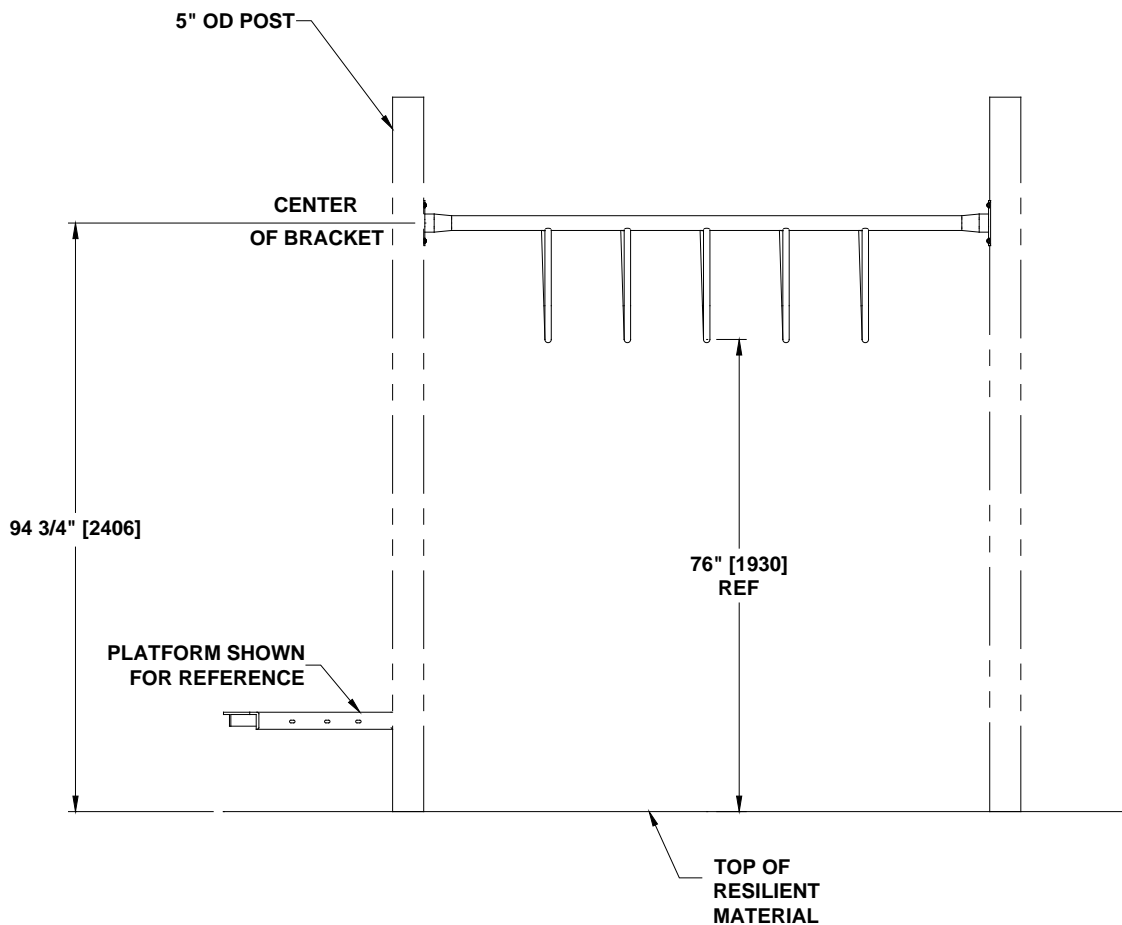
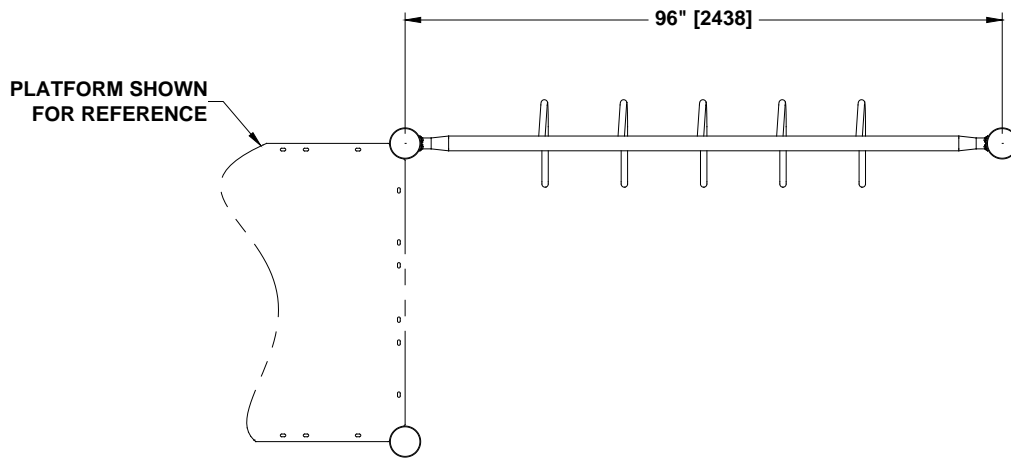
N NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Install platforms. See appropriate installation instructions.
2. Attach 40" ACCESSIBLE STAIRS to upper platform using 3/8" x 1" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. **NOTE: Make sure the stairs are centered between the posts.** See SECTION A-A.
3. Attach 40" accessible stairs to lower platform using 3/8" x 1 1/4" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. **NOTE: Make sure the stairs are centered between the posts.** See SECTION B-B.
4. Attach STRAIGHT BRACKET CASTINGS to 5" OD posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
5. Attach TOP STAIR BARRIER to 40" TRANSITION BARRIER using 3/8" x 2" SS button head cap screws. See DETAIL D.
6. Attach BOTTOM STAIR TRANSITION BARRIER to 40" TRANSITION BARRIER using 3/8" x 2" SS button head cap screws. See DETAIL D.
7. Sleeve TOP STAIR BARRIER and BOTTOM STAIR TRANSITION BARRIER into straight bracket castings. Attach bottom of barriers to platforms using 3/8" x 1" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. See FRONT PAGE of this installation print for orientation. Also see DETAIL C and SECTION E-E.
8. Repeat steps 5 thru 7 for the opposite side of the stair.
9. Tighten all hardware.
10. Drill 1/4" diameter holes thru brackets and barriers. Insert 1/4" diameter drive rivets and pound center pins flush to engage rivets. Apply touch up paint to exposed heads of rivets.
11. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



370-0710 TRIANGLE TRAVERSE



370-0710 TRIANGLE TRAVERSE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1948	SINGLE POST LONG TRIANGLE OVERHEAD, S5	1
036-0258	HARDWARE PACKAGE	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

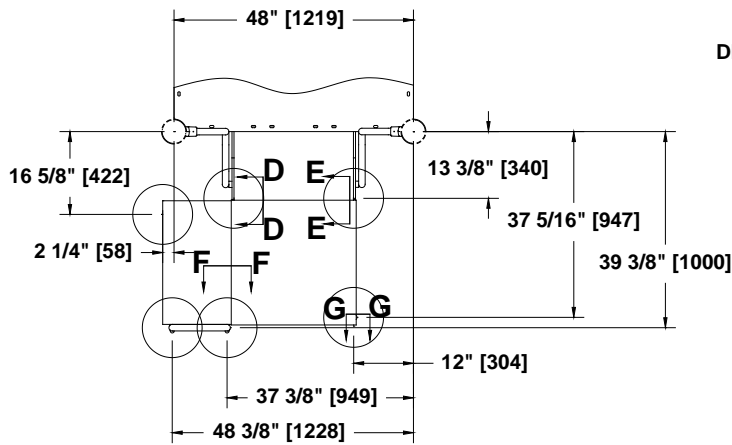
SINGLE POST LONG TRIANGLE OVERHEAD, S5: One piece all welded construction consisting of 2.375" x 12 GA, 1.029" OD X 14 GA galvanized steel tubing & 7 GA Stainless Steel Sheet. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

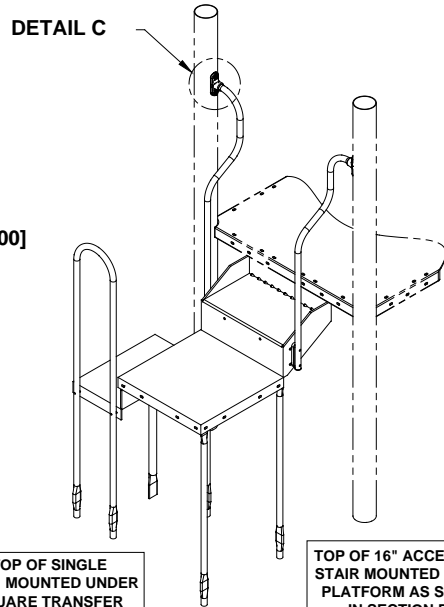
SHIPPING WEIGHT: 41 LBS.

INSTALLATION INSTRUCTIONS

1. Attach SINGLE POST LONG TRIANGLE OVERHEAD, S5 to posts using 3/8" x 1" SS button head cap screw and 5/16" SS flat washer. See DETAIL A.
2. Plumb and level components. Tighten all hardware.
3. Pour concrete and let set 2-3 days.
4. **INSTALL RESILIENT SURFACING MATERIAL IN ACCORDANCE TO INSTALLATION GUIDELINES.**

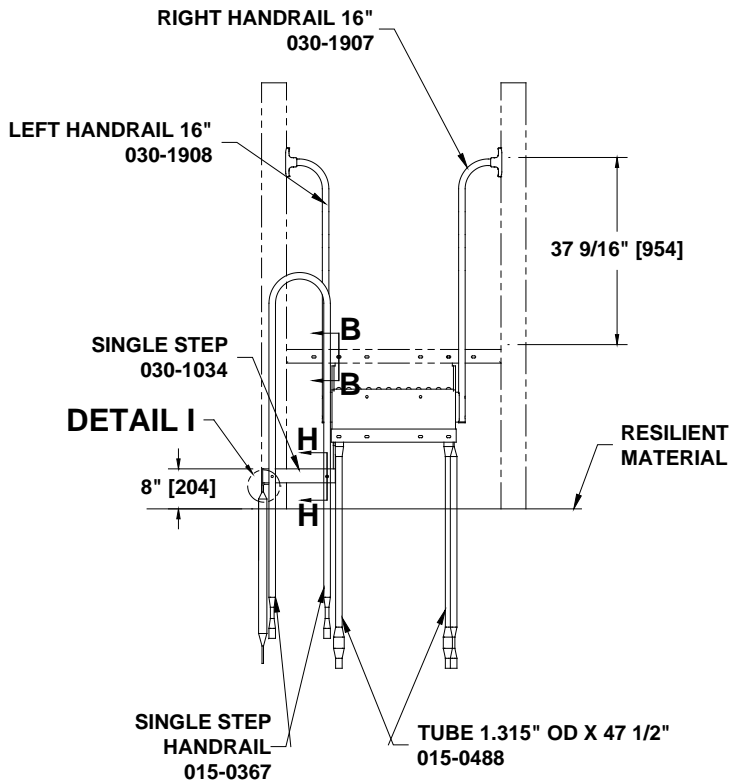


LEFT SETUP SHOWN

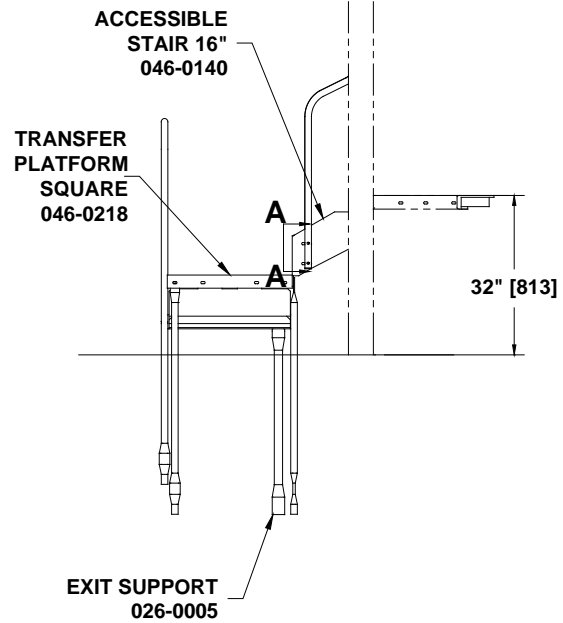


TOP OF SINGLE STEP MOUNTED UNDER SQUARE TRANSFER PLATFORM AS SHOWN IN SECTION F-F

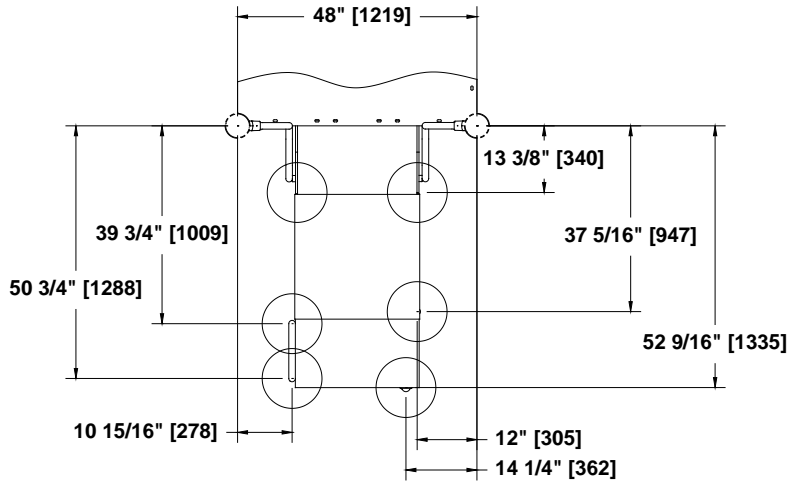
TOP OF 16" ACCESSIBLE STAIR MOUNTED UNDER PLATFORM AS SHOWN IN SECTION B-B



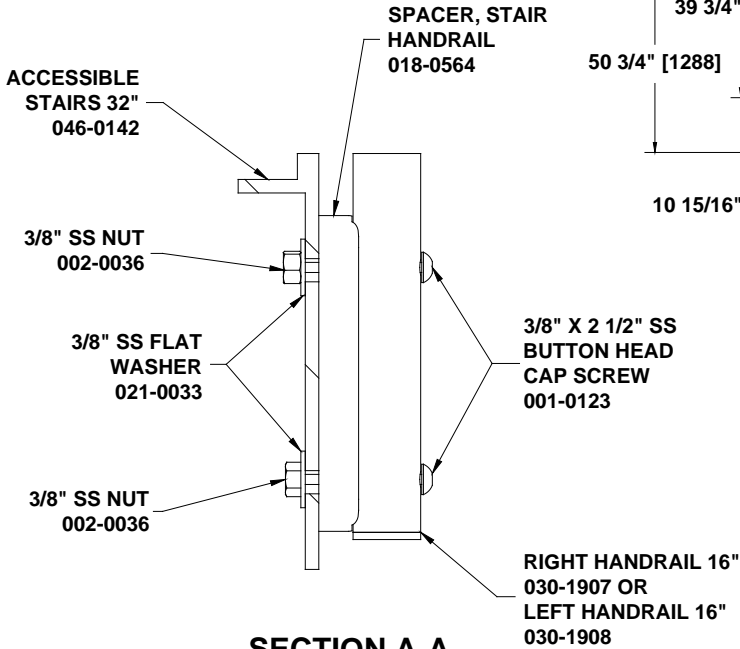
DETAIL I



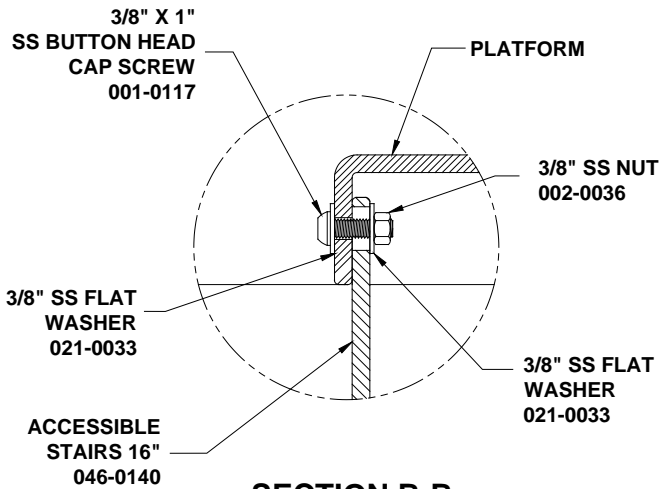
370-0718
TRANSFER STATION, HANDRAIL 32"



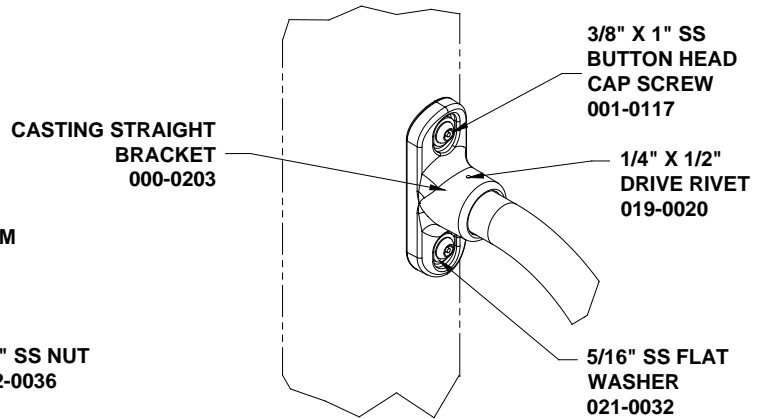
OPTIONAL SETUP



SECTION A-A
2 PLACES

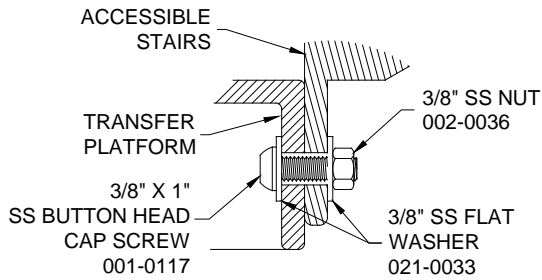


SECTION B-B
2 PLACES

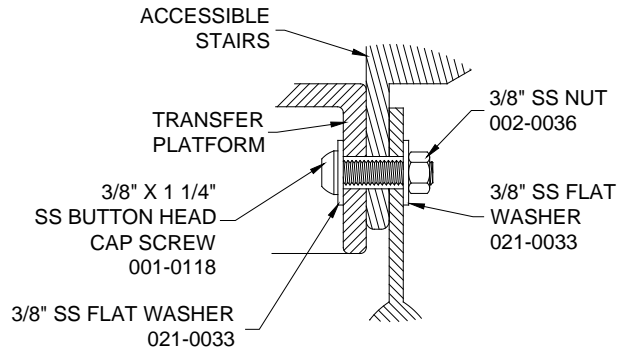


DETAIL C
2 PLACES

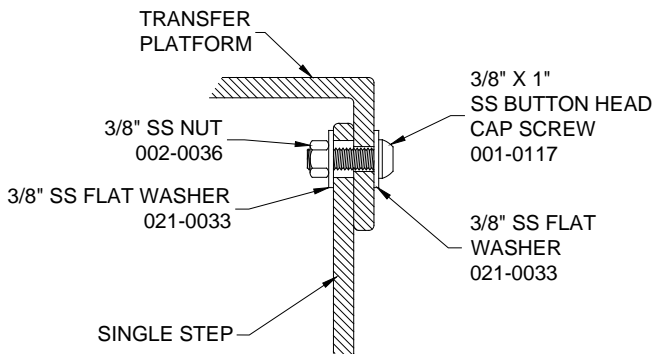
370-0718 TRANSFER STATION, HANDRAIL 32"



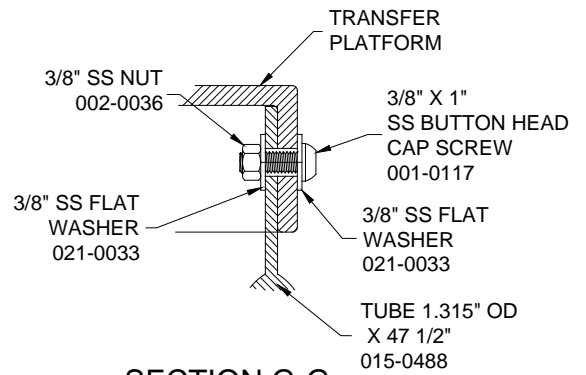
SECTION D-D
2 PLACES



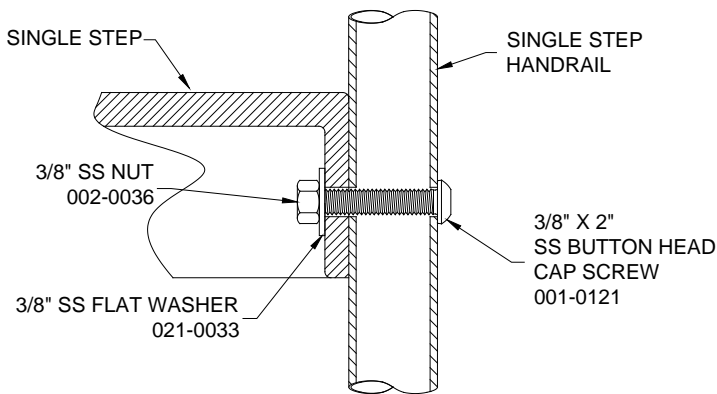
SECTION E-E
2 PLACES



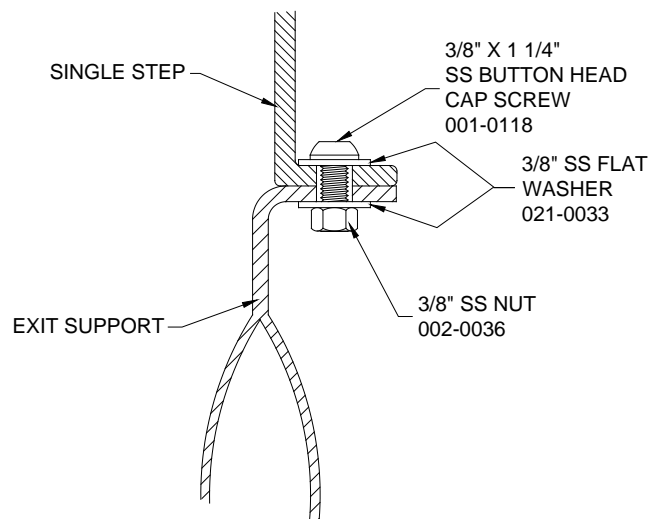
SECTION F-F
2 PLACES



SECTION G-G



SECTION H-H
2 PLACES



DETAIL I

370-0718

TRANSFER STATION, HANRAIL 32"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
015-0367	SINGLE STEP HANDRAIL	1
015-0488	TUBE 1.315" OD X 47 1/2"	3
018-0564	SPACER, STAIR HANDRAIL	2
026-0005	SUPPORT, EXIT, 37.29"	1
030-1034	SINGLE STEP	1
030-1907	RIGHT HANDRAIL 16"	1
030-1908	LEFT HANDRAIL 16"	1
036-1123	HARDWARE PACKAGE	1
046-0140	16" ACCESSIBLE STAIRS	1
046-0218	SQUARE TRANSFER PLATFORM	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

SINGLE STEP HANDRAIL: Formed 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

TUBE 1.315" OD X 47 1/2": 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

SPACER, STAIR HANDRAIL: 3/4" extruded HDPE.

SUPPORT, EXIT, 37.29": 1.660" OD x 13 GA galvanized steel tubing finished with a baked on powder coating.

SINGLE STEP: One piece all welded construction consisting of 12 GA surfaces and gussets. PVC coated after fabrication.

RIGHT HANDRAIL 16"; LEFT HANDRAIL 16": Formed 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

16" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

SQUARE TRANSFER PLATFORM: One piece all welded construction consisting of 12 GA surfaces, gussets, and corners. PVC coated after fabrication.

SHIPPING WEIGHT: 163 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

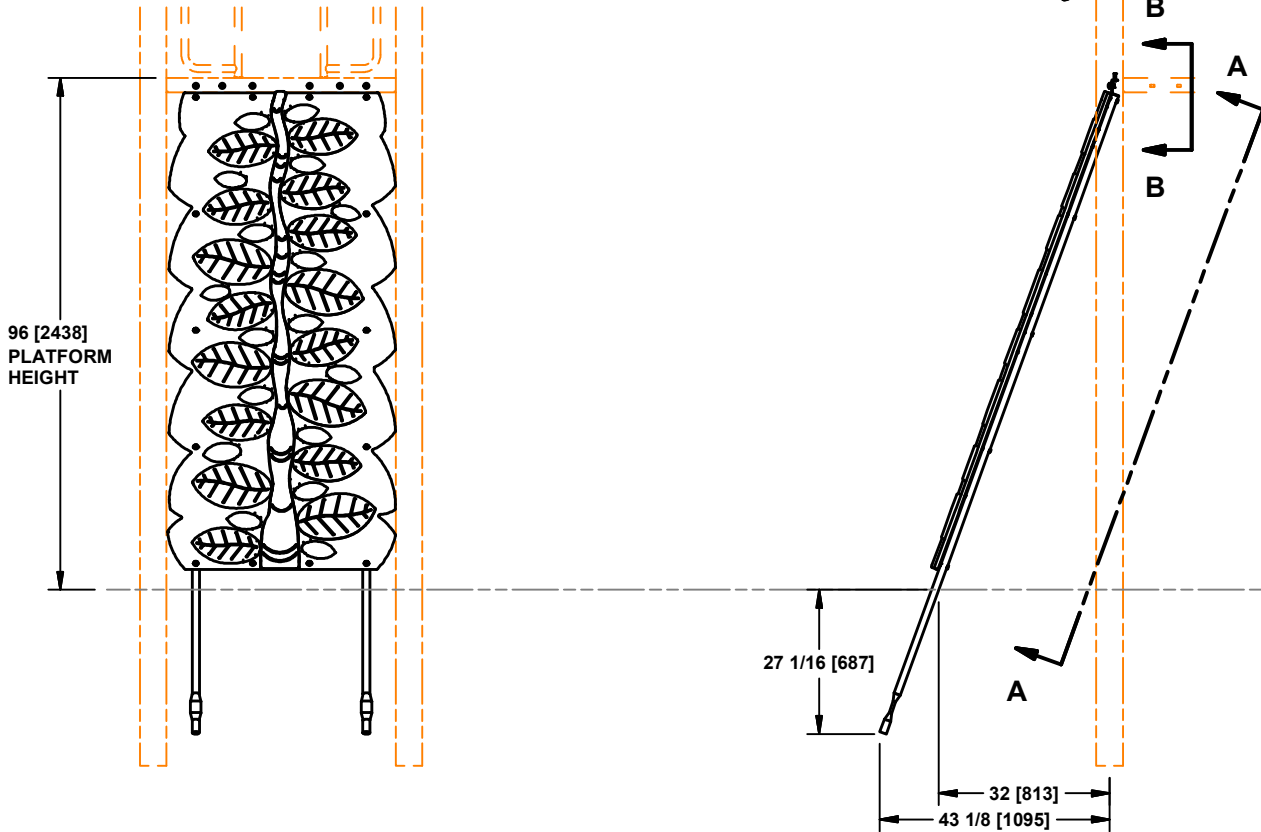
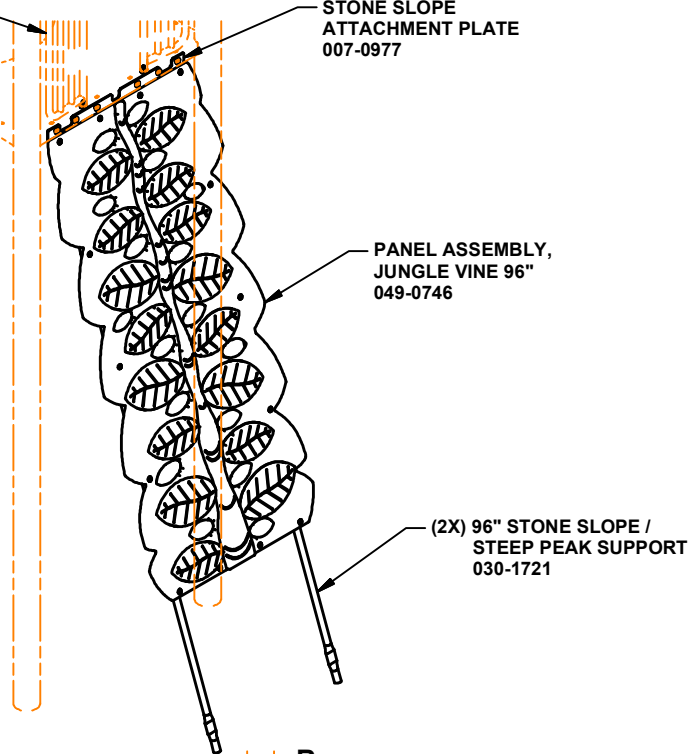
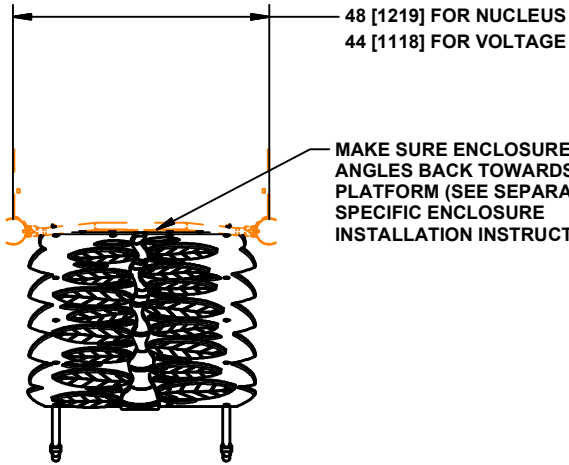
1. Install platforms. See appropriate installation instructions.
2. Dig footing holes per dimensions shown. See concrete footing drawing for 1.315" OD and 1.660" OD tubing, which is located in the preface of your installation manual.
3. Attach TUBES and TRANSFER PLATFORM to 16" ACCESSIBLE STAIRS using 3/8" x 1 1/4" SS button head cap screws with tubes, 3/8" x 1" SS button head cap screws without tubes, 3/8" SS nuts and 3/8" SS flat washers. Refer to SECTION D-D and E-E.
4. Attach Tube to Transfer Platform using 3/8" x 1" SS button head cap screw, 3/8" SS nut and 3/8" SS flat washers. Refer to SECTION G-G.
5. Attach SINGLE STEP to TRANSFER PLATFORM using 3/8" x 1" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION F-F.
6. Attach EXIT SUPPORT to Single Step using a 3/8" x 1 1/4" SS button head cap screw, 3/8" SS washers and a 3/8" SS nut. See DETAIL I.
7. Attach SINGLE STEP HANDRAIL to side of Single Step using 3/8" x 2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION H-H. **Note: the heads of the button head cap screws must be on the outside of the step assembly.**
8. Position transfer station assembly into footing holes. Attach Accessible Stair to platform using 3/8" x 1" SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. Do not tighten nuts. See SECTION B-B.
9. Block-up and level transfer station assembly.
10. Attach CASTING STRAIGHT BRACKETS to 5" OD posts using 3/8" X 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
11. Sleeve RIGHT AND LEFT HANDRAILS into brackets. See DETAIL C.
12. Attach right and left handrails to Accessible Stairs using STAIR HANDRAIL SPACER, 3/8" x 2 1/2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. **Note: the head of the button head cap screw must be on the outside of the stair.** See SECTION A-A.
13. Drill 1/4" diameter holes through pilot holes on handrails and into mount brackets. Insert drive rivets and drive flush with handrails. See DETAIL C.
14. Tighten all hardware.
15. Pour concrete and allow concrete to set for 2-3 days.
16. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.

REFERENCE SITE PLAN TO IDENTIFY AND INSTALL SPECIFIC UNITARY ENCLOSURE

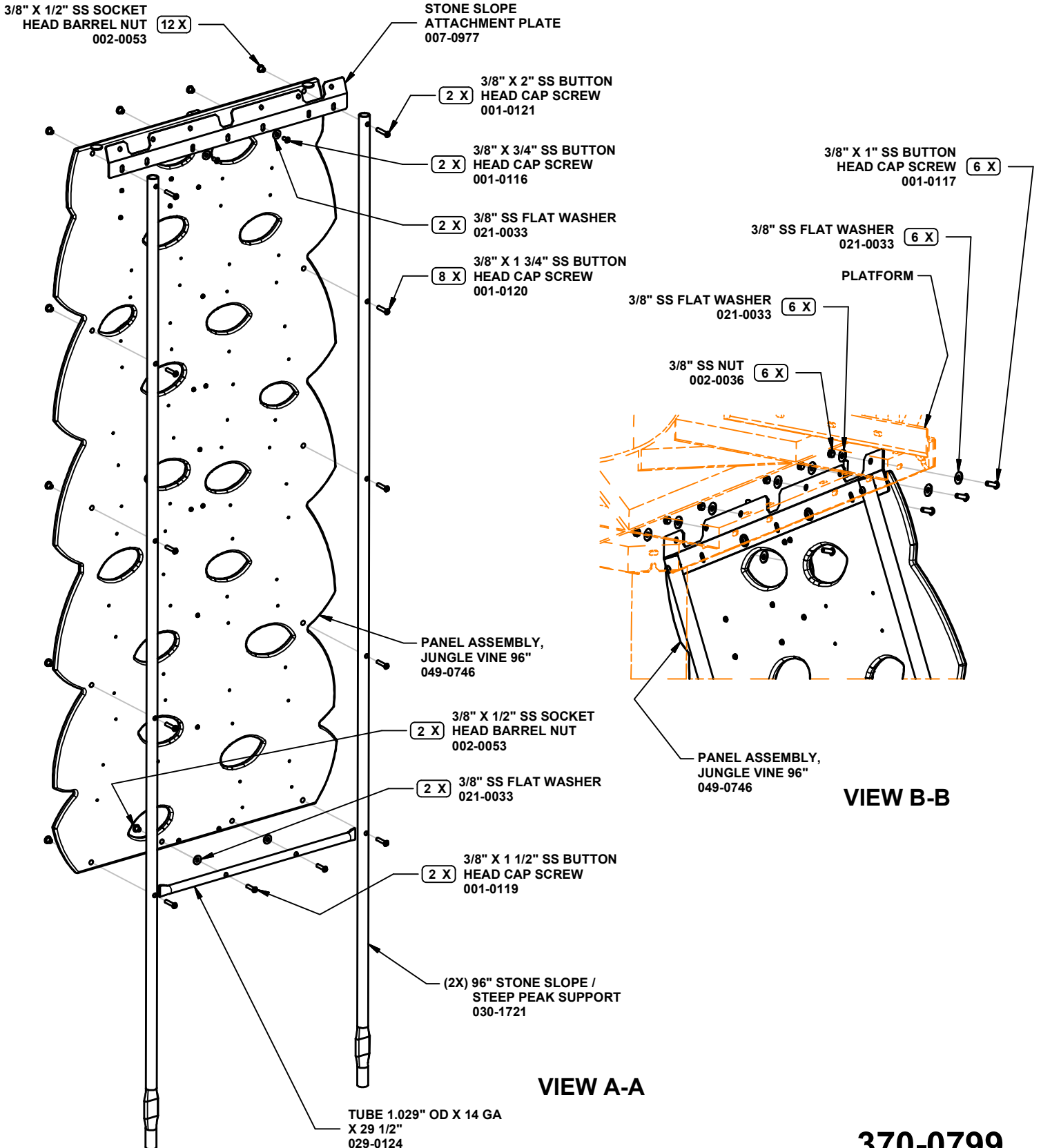
STONE SLOPE ATTACHMENT PLATE 007-0977



370-0799 JUNGLE VINE CLIMBER 96"



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



370-0799
JUNGLE VINE CLIMBER 96"

PARTS LIST

PART NO.	DESCRIPTION	QTY
007-0977	STONE SLOPE ATTACHMENT PLATE	1
029-0124	TUBE 1.029" OD X 14 GA X 29 1/2"	1
030-1721	96" STONE SLOPE / STEEP PEAK SUPPORT	2
036-1390	HARDWARE PACKAGE	1
049-0746	PANEL ASSEMBLY, JUNGLE VINE 96"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

STONE SLOPE ATTACHMENT PLATE: 10 GA. Galv. Sheet

TUBE 1.029" OD X 14 GA X 29 1/2": Formed from galvanized steel tubing of at least 1.029" OD x 14 GA wall. Finished with a baked on powder coating.

96" STONE SLOPE / STEEP PEAK SUPPORT: One piece all welded 1.315" OD tubing w/ 10 GA sheet steel. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel

PANEL ASSEMBLY, JUNGLE VINE 96": Assembly consisting of: 3/4" extruded and co-extruded HDPE, zinc plated steel screws and 18-8 stainless steel flat and split lock washers.

SHIPPING WEIGHT: 161 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes on platform before installing.

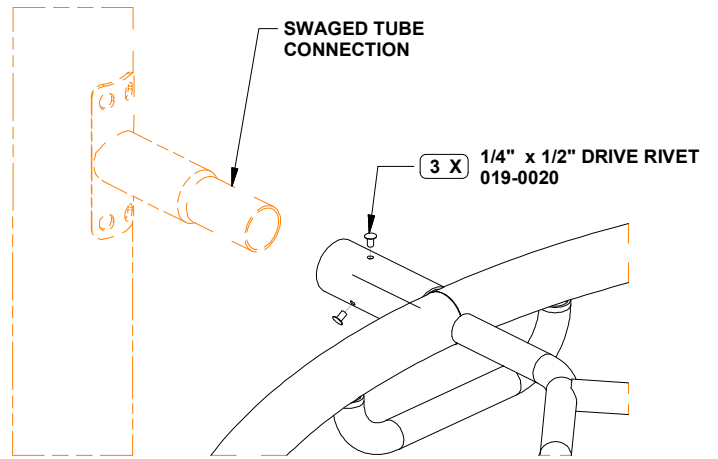
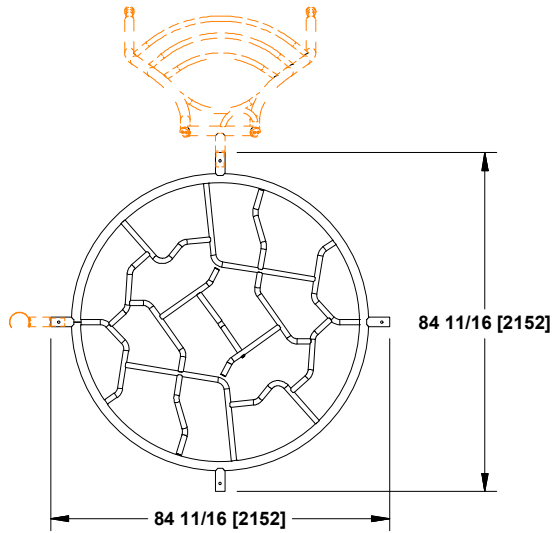
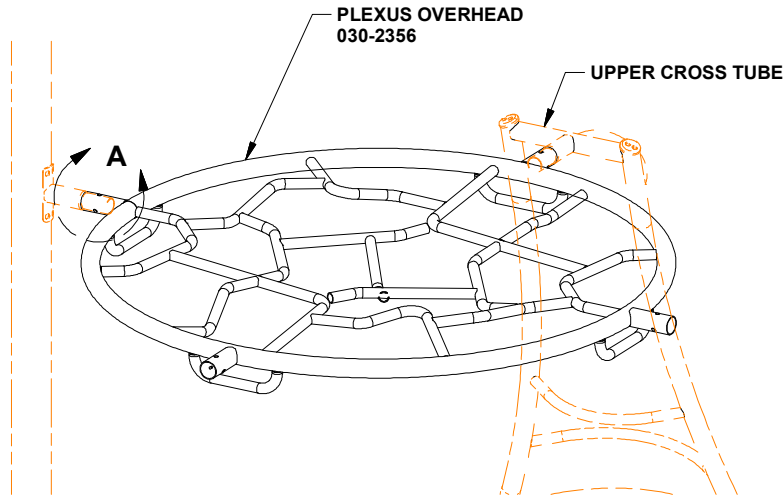
NOTE: Do not tighten hardware until instructed to do so.

NOTE: Make sure enclosure angles back towards platform. (See Top View)

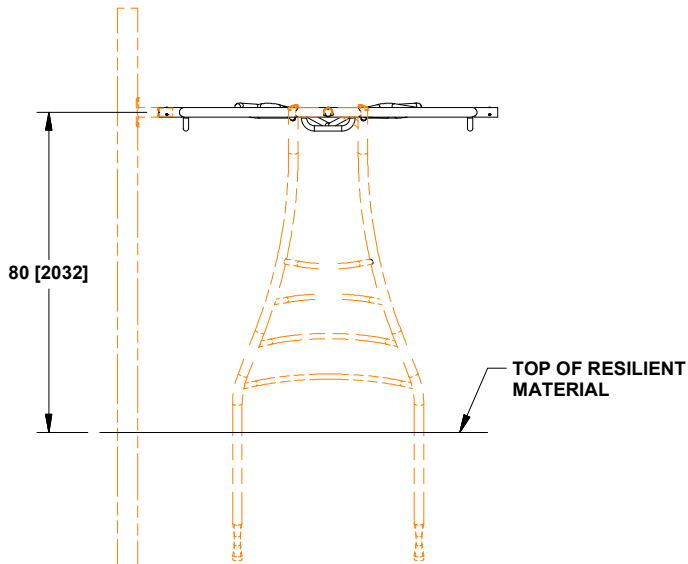
1. Locate and dig footing holes per dimensions. See typical concrete footing details, which are located in the preface of your installation manual. The hole will have to be big enough to accept the anchor tubes on the angle.
2. Identify the correct unitary enclosure from the site plan and install it according to it's specific installation instructions.
3. Attach STONE SLOPE ATTACHMENT PLATE and 96" STONE SLOPE / STEEP PEAK SUPPORT to PANEL ASSEMBLY using hardware specified in VIEW A-A.
4. Attach 1.029" OD TUBE to the back of the panel using hardware specified in VIEW A-A. Tighten all hardware.
5. Insert assembly into footing holes and attach to backside of platform using hardware specified in VIEW B-B. Tighten all hardware.
6. Block up and plumb.
7. Once entire structure is set, pour concrete. Allow concrete to set for 2-3 days.
8. **Install resilient surfacing material in accordance with installation guidelines, ASTM standards and CPSC.**



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



DETAIL A
4 PLACES



370-0829 PLEXUS OVERHEAD

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-2356	PLEXUS OVERHEAD	1
036-1184	HARDWARE PACKAGE	3

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PLEXUS OVERHEAD: One piece all welded construction consisting of formed 2 3/8" OD x 12 GA & 1.315" OD x 14 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Aluminum rivets with stainless steel pins.

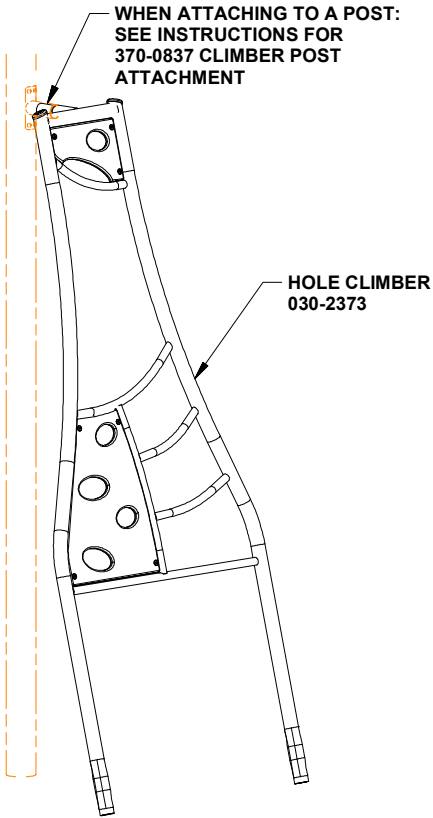
SHIPPING WEIGHT: 96 LBS.

INSTALLATION INSTRUCTIONS

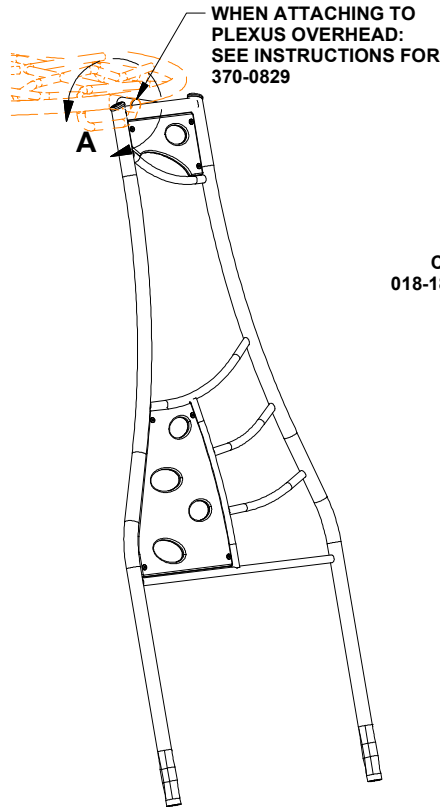
1. Determine location of Plexus Overhead and four attached components from site plan.
2. Slide the swaged tube connection of the climbers or overhead post bracket into the tube connections of the PLEXUS OVERHEAD. See specific mating component installation instructions for attachment. Make sure the climbers are rotated on the swaged tube connection so that the sides of the climbers are perpendicular and the upper cross tube is horizontal. Make sure the overhead ring is level.
4. Once the overhead ring and all climbers or post attachments are in place, install rivets at each of the 4 connection points. Using the 3 holes in each of the 4 connection points of the overhead climber as a guide, drill 1/4" diameter holes through the inner tube. Insert 1/4" drive rivets and pound center pins flush to engage rivets. Apply touch up paint to exposed heads of rivets.
5. Pour concrete in footings for components attached to the overhead and let stand for 2 to 3 days.
6. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



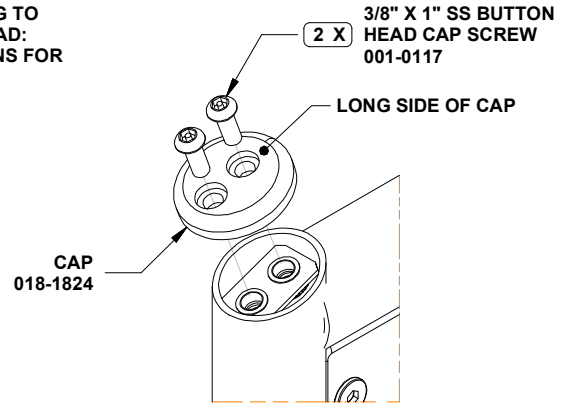
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



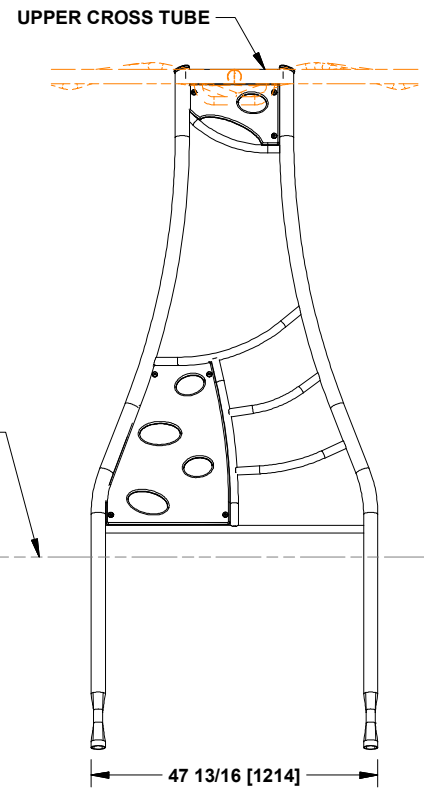
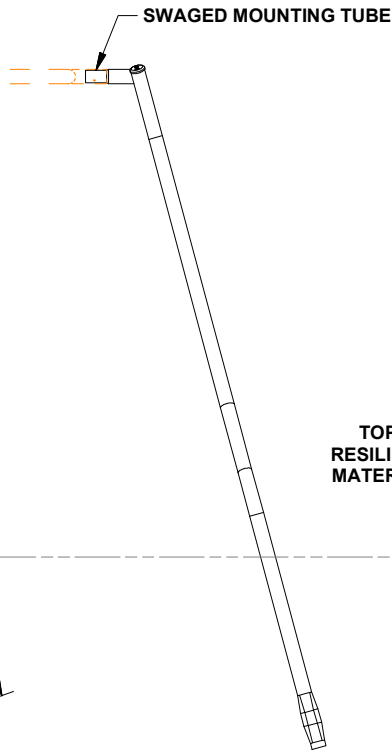
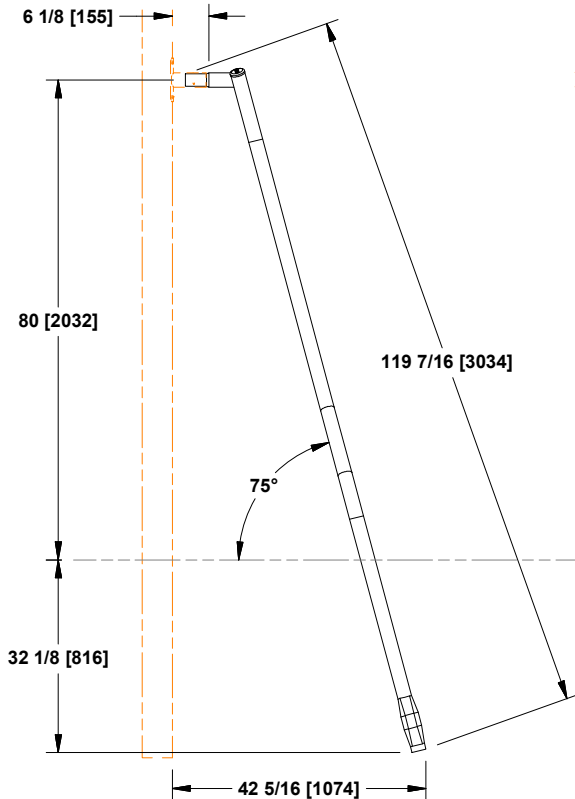
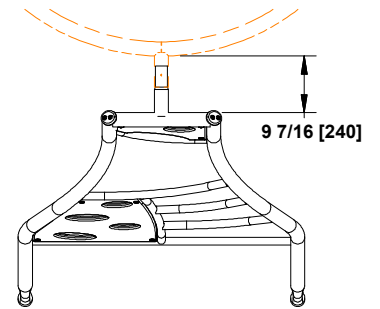
ATTACHED TO A POST



ATTACHED TO PLEXUS OVERHEAD



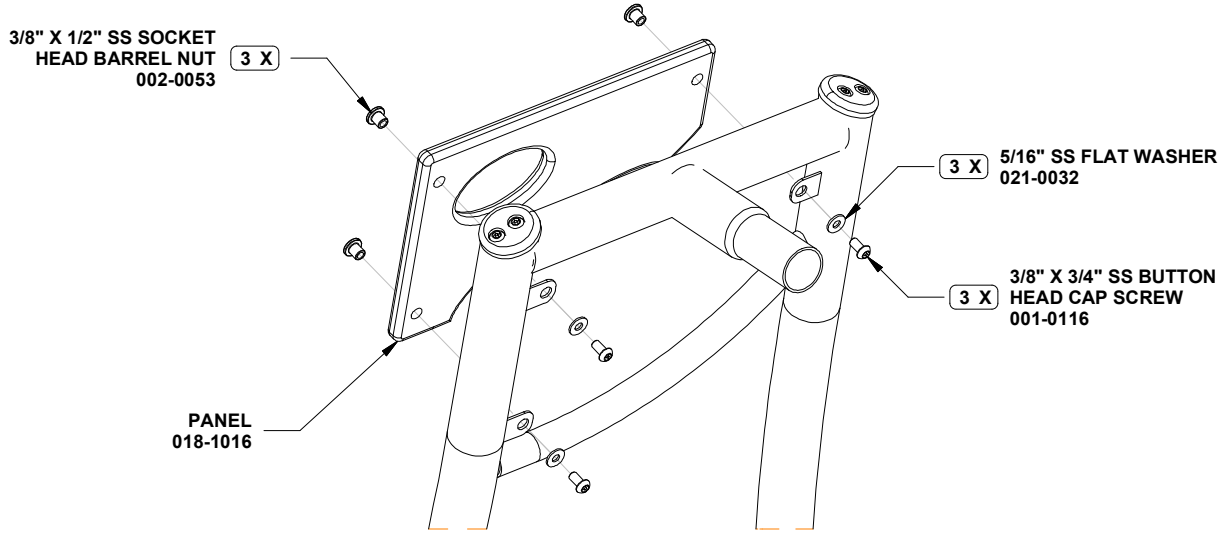
DETAIL A
2 PLACES



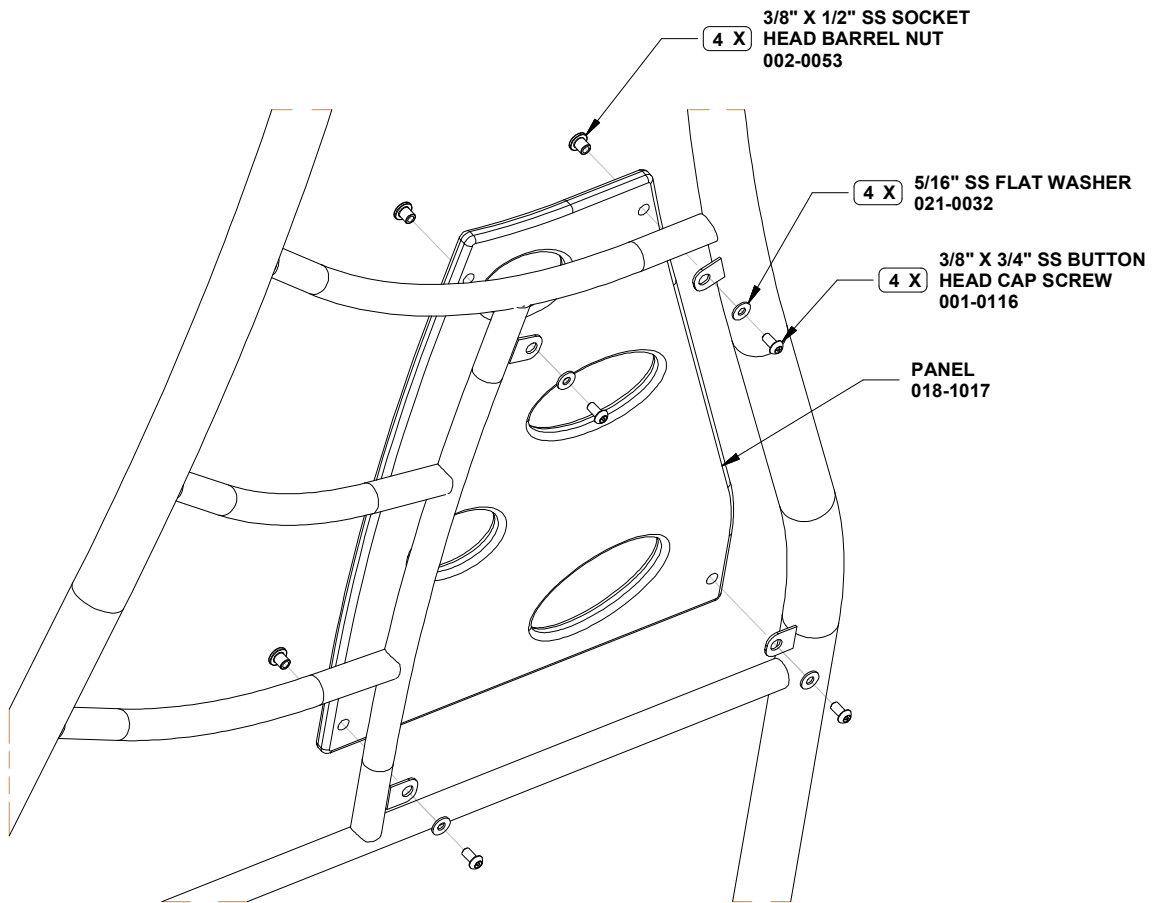
370-0830 PLEXUS HOLE CLIMBER



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



DETAIL B



DETAIL C

370-0830 PLEXUS HOLE CLIMBER

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-1016	PANEL	1
018-1017	PANEL	1
018-1824	CAP	2
030-2373	HOLE CLIMBER	1
036-1415	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PANEL; PANEL, CAP: 3/4" Extruded HDPE

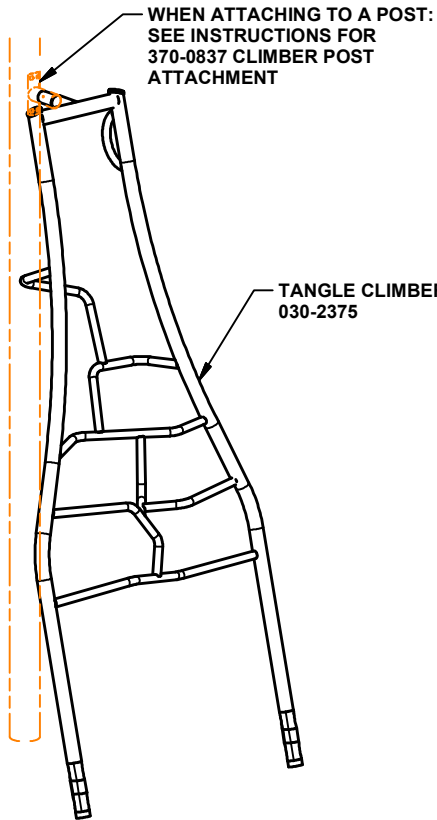
HOLE CLIMBER: Weldment consisting of formed 2.375" OD x 12 GA and 1.315" OD x 12 GA galvanized tubing, 12 GA galvanized steel plate and nut inserts. Finished with a baked on powder coat finish.

HARDWARE PACKAGE: Stainless steel

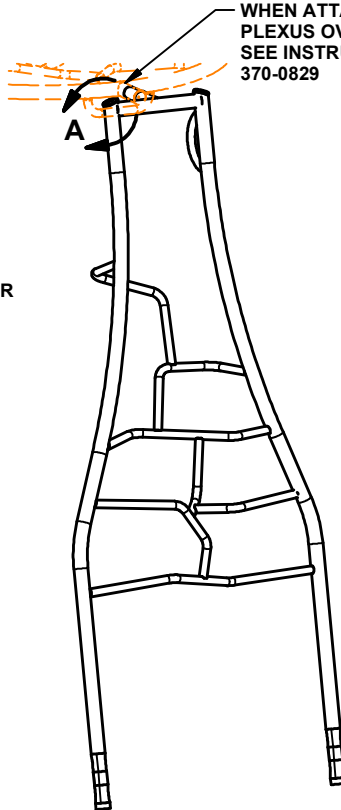
SHIPPING WEIGHT: 97 LBS.

INSTALLATION INSTRUCTIONS

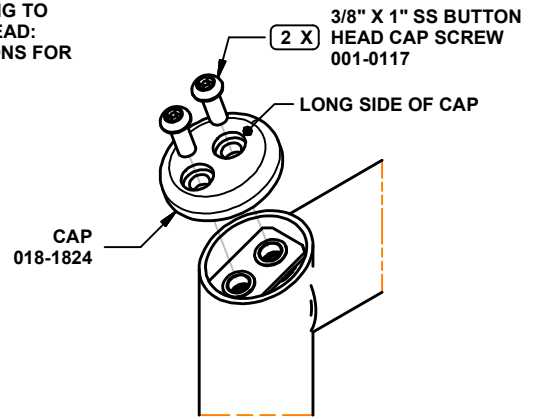
1. Determine location of climber from site plan and dig footing holes accordingly. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach CAP(s) to HOLE CLIMBER with hardware specified in DETAIL A. Make sure the long side of the cap is oriented correctly so that it is centered on the opening and completely covers the open tube. Tighten hardware.
3. Slide the upper swaged mounting tube of the hole climber into the tube connection of either the Climber Post Attachment bracket or the Plexus Overhead. See specific mating component installation instructions for attachment. Make sure the hole climber is rotated on the swaged tube connection so that the sides of the hole climber are perpendicular and the upper cross tube is horizontal.
4. Attach PANELS to the tabs on hole climber using the hardware specified in DETAIL B and DETAIL C. Tighten hardware.
5. Pour concrete. Let set for two to three days.
6. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



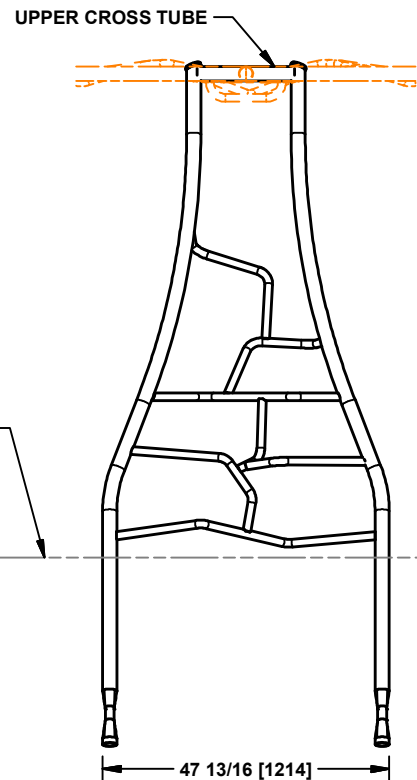
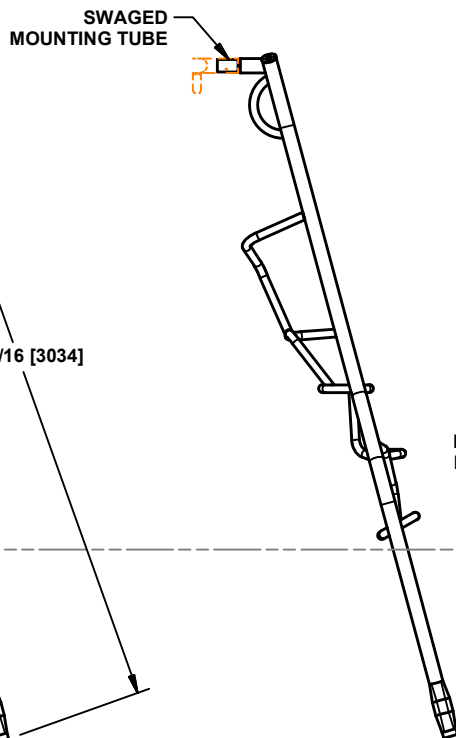
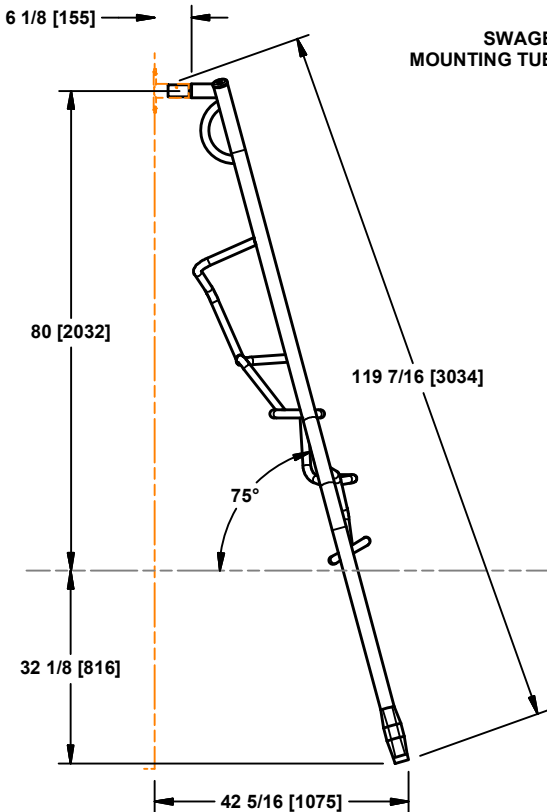
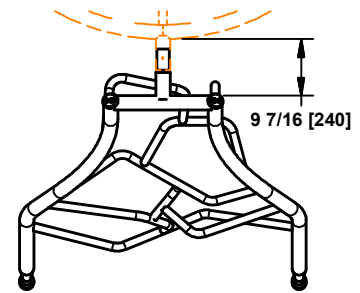
ATTACHED TO A POST



ATTACHED TO PLEXUS OVERHEAD



**DETAIL A
2 PLACES**



370-0832 PLEXUS TANGLE CLIMBER

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-1824	CAP	2
030-2375	TANGLE CLIMBER	1
036-0258	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CAP: 3/4" Extruded HDPE

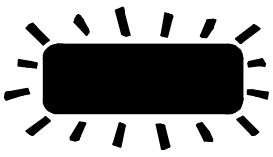
TANGLE CLIMBER: Weldment consisting of formed 2.375" OD x 10 GA and 1.315" OD x 12 GA galvanized tubing, 12 GA galvanized steel plate and nut inserts. Finished with a baked on powder coat finish.

HARDWARE PACKAGE: Stainless steel

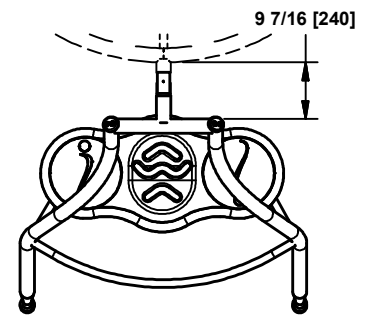
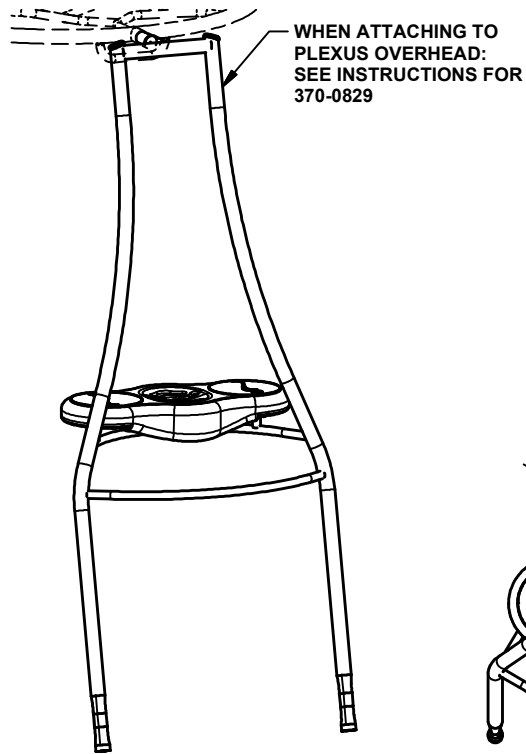
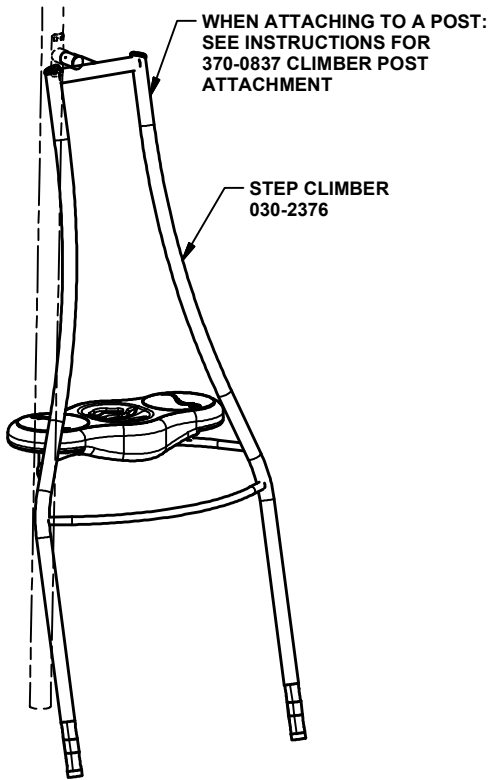
SHIPPING WEIGHT: 89 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of climber from site plan and dig footing holes accordingly. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach CAP(s) to TANGLE CLIMBER with hardware specified in DETAIL A. Make sure the long side of the cap is oriented correctly so that it is centered on the opening and completely covers the open tube. Tighten hardware.
3. Slide the upper swaged mounting tube of the tangle climber into the tube connection of either the Climber Post Attachment bracket or the Plexus Overhead. See specific mating component installation instructions for attachment. Make sure the tangle climber is rotated on the swaged tube connection so that the sides of the tangle climber are perpendicular and the upper cross tube is horizontal.
4. Pour concrete. Let set for two to three days.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

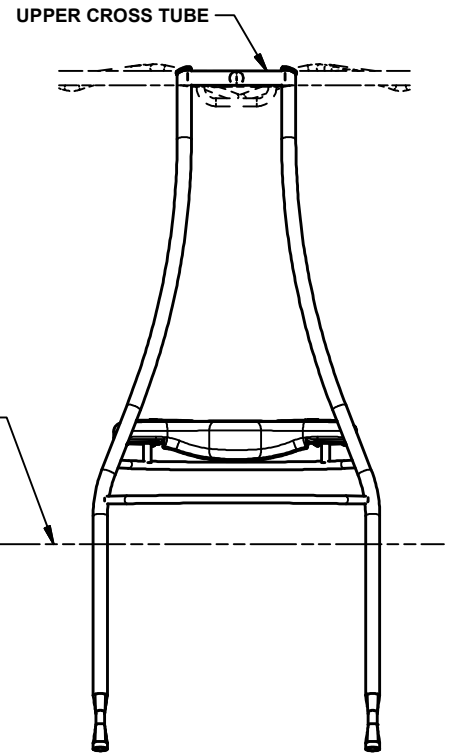
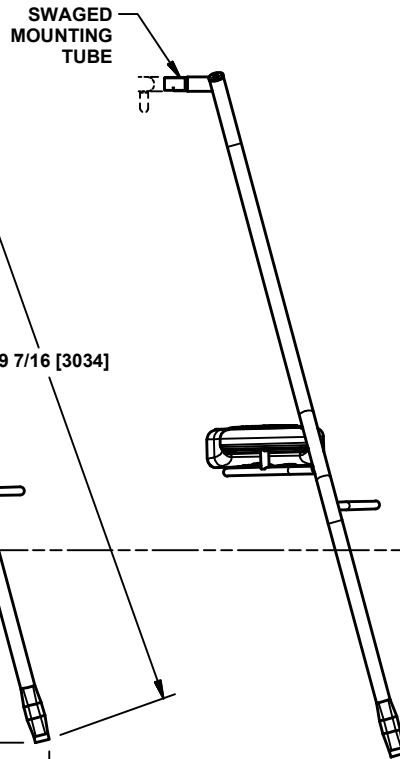
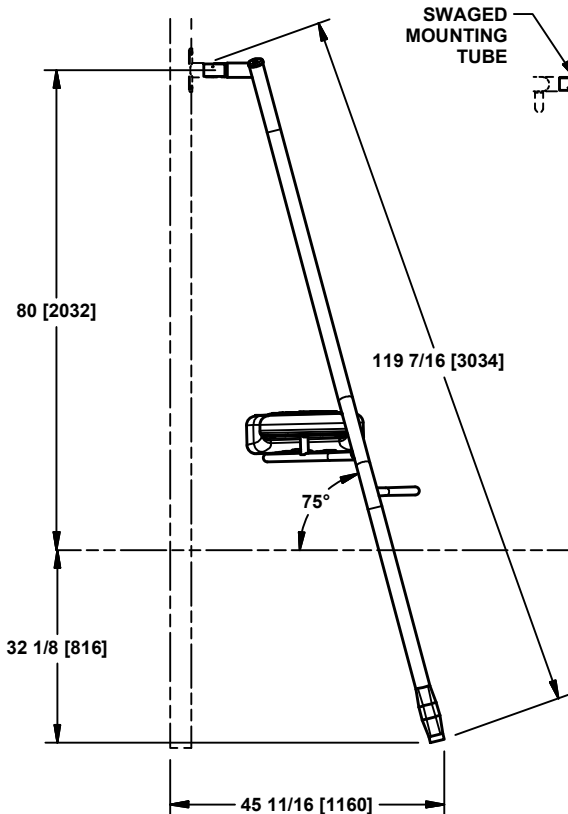


UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.

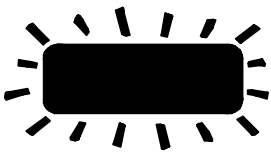


ATTACHED TO A POST

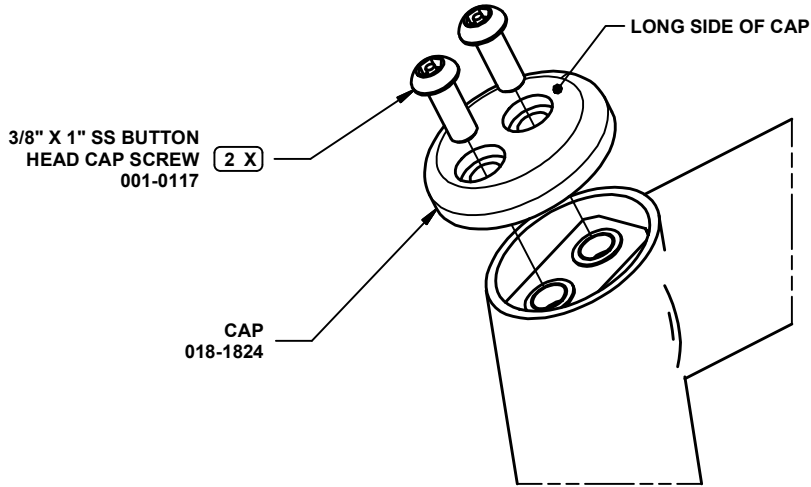
ATTACHED TO PLEXUS OVERHEAD



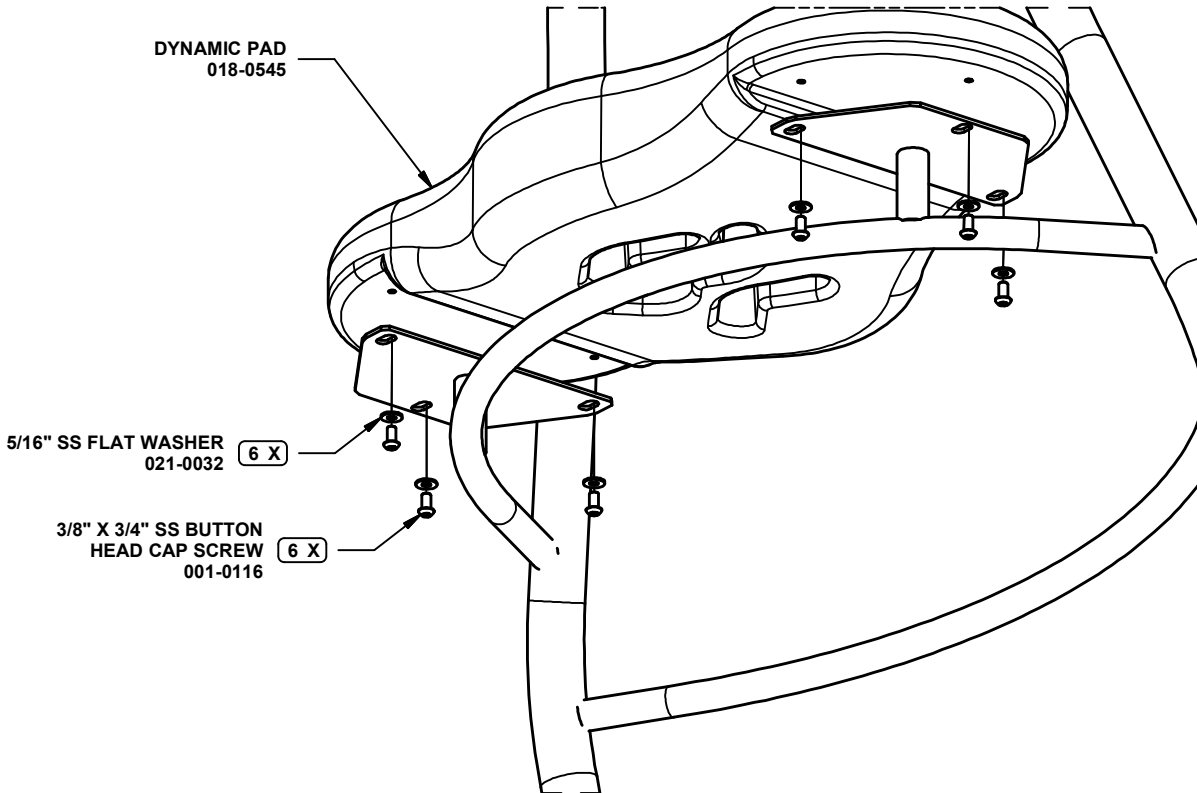
370-0833 PLEXUS STEP CLIMBER



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



**DETAIL A
(2 PLACES)**



DETAIL B

**370-0833
PLEXUS STEP CLIMBER**

PARTS LIST

PART NO.	DESCRIPTION	QTY
018-0545	DYNAMIC PAD	1
018-1824	CAP	2
030-2376	STEP CLIMBER	1
036-0258	HARDWARE PACKAGE	2
036-0784	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

DYNAMIC PAD: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts and a textured surface.

CAP: 3/4" Extruded HDPE

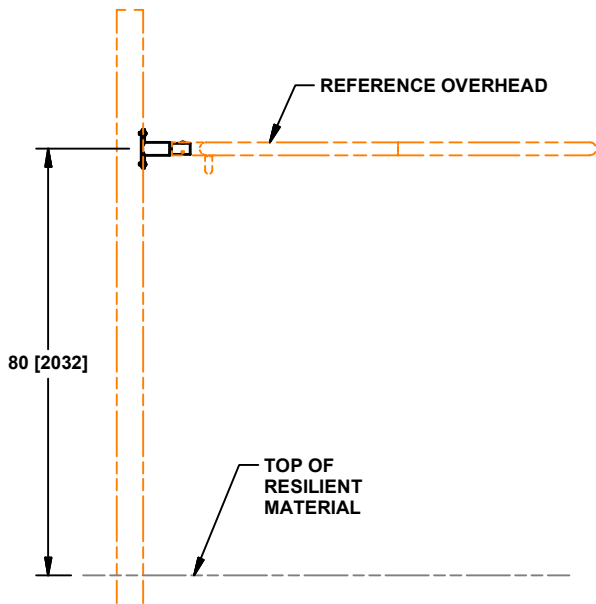
STEP CLIMBER: Weldment consisting of formed 2.375" OD x 10 GA and 1.315" OD x 12 GA galvanized tubing, 12 GA galvanized steel plate and nut inserts. Finished with a baked on powder coat finish.

HARDWARE PACKAGE; HARDWARE PACKAGE: Stainless steel

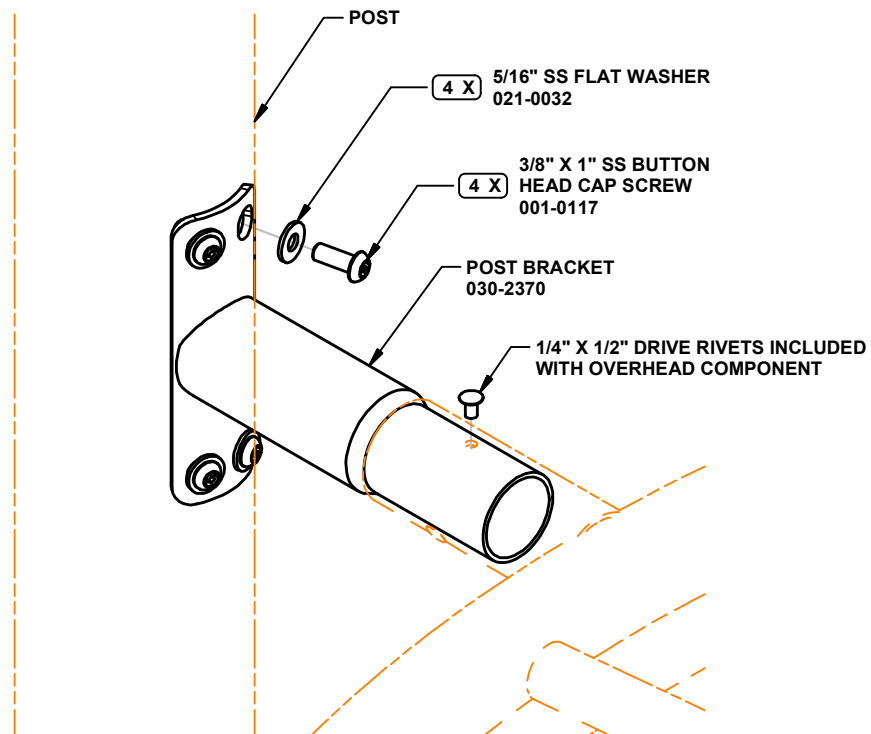
SHIPPING WEIGHT: 121 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of climber from site plan and dig footing holes accordingly. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach two CAP(s) to STEP CLIMBER with hardware specified in DETAIL A. Make sure the long side of the cap is oriented correctly so that it is centered on the opening and completely covers the open tube. Tighten hardware.
3. Slide the upper swaged mounting tube of the step climber into the tube connection of either the Climber Post Attachment bracket or the Plexus Overhead. See specific mating component installation instructions for attachment. Make sure the step climber is rotated on the swaged tube connection so that the sides of the step climber are perpendicular and the upper cross tube is horizontal.
4. Attach the DYNAMIC PAD to the step climber using the hardware specified in DETAIL B.
4. Pour concrete. Let set for two to three days.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



ELEVATION VIEW



ASSEMBLY VIEW

370-0834 OVERHEAD POST ATTACHMENT

PARTS LIST

PART NO.	DESCRIPTION	QTY
030-2370	POST BRACKET	1
036-0258	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

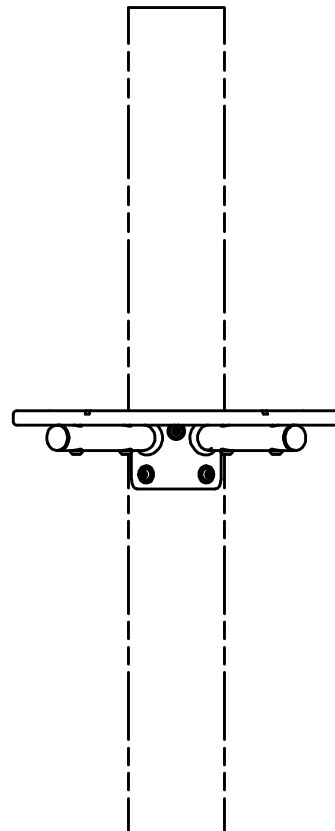
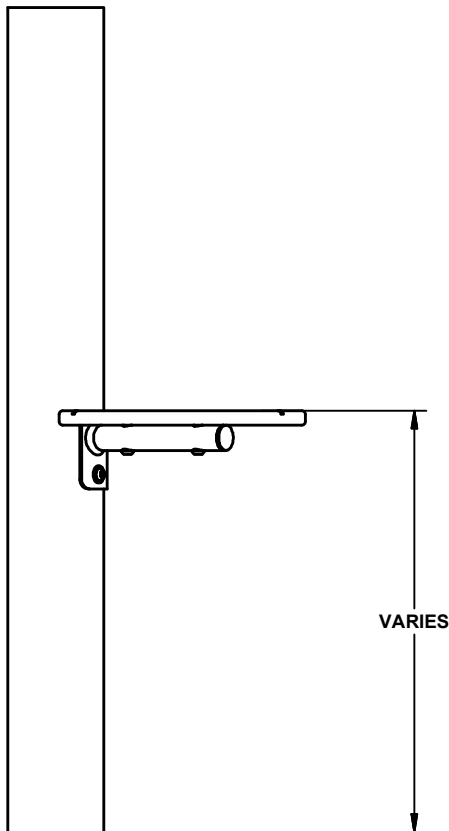
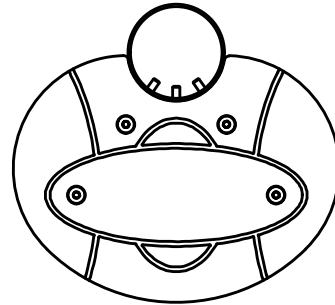
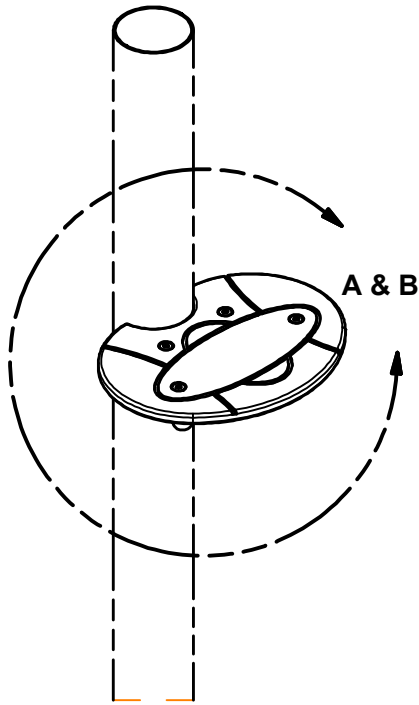
POST BRACKET: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and formed 7 GA stainless steel plates. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

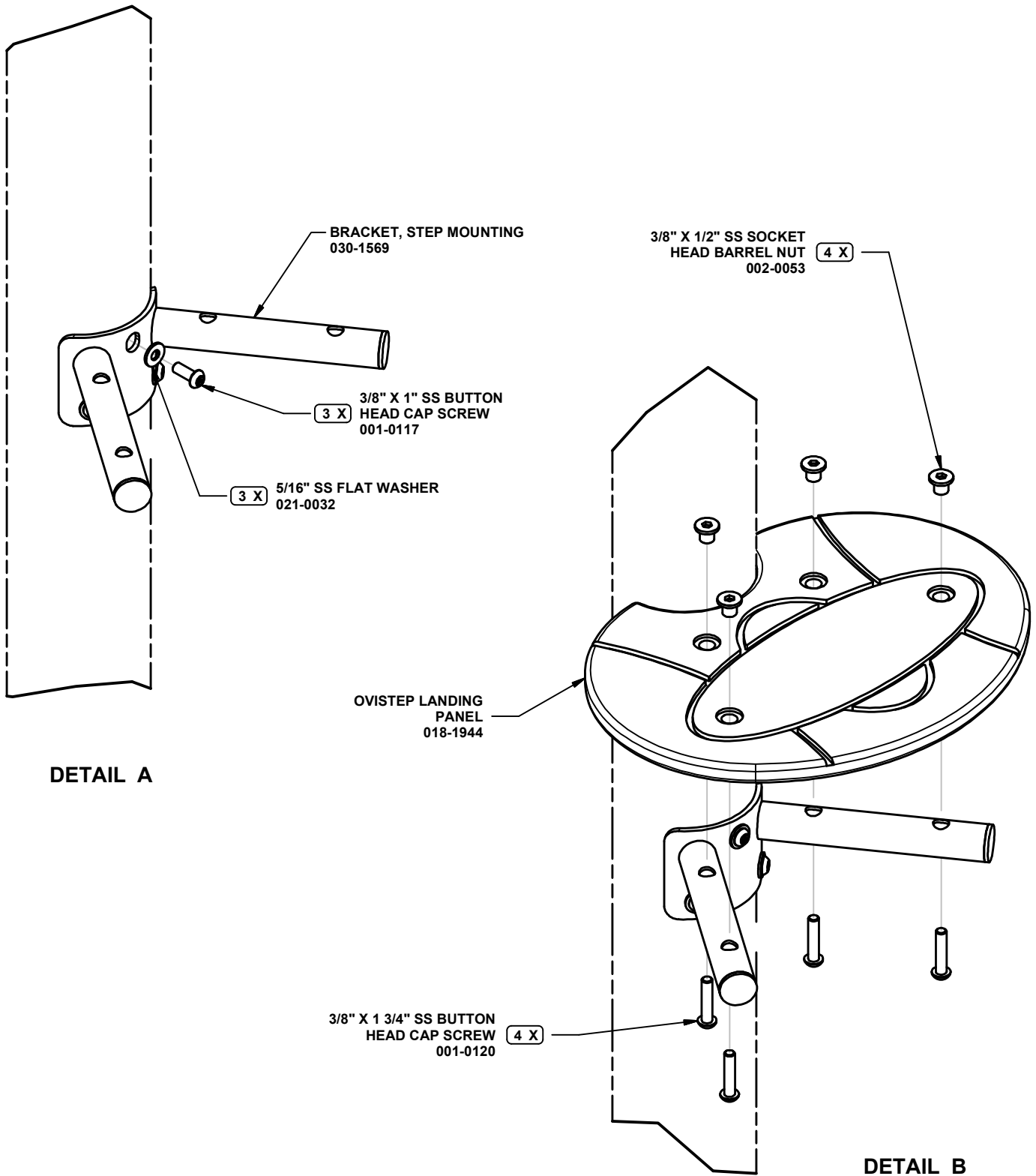
SHIPPING WEIGHT: 3 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of Overhead Post Attachment from site plan.
2. Attach the POST BRACKET to the post with hardware specified in the assembly view. Slide the tube connection of the overhead onto the swaged portion of the post bracket. See specific overhead installation instructions for attachment. Make sure the overhead component lies on a level horizontal plane in relation to the post.
3. Using the 3 holes in the overhead attachment points as a guide, drill 1/4" diameter holes through the post bracket. Insert 1/4" drive rivets included with overhead component and pound center pins flush to engage rivets. Repeat at applicable remaining overhead attachments. Apply touch up paint to exposed heads of rivets.
4. **Install resilient material in accordance with installation guidelines, ASTM standards and CPSC guidelines.**



370-1608 OVISTEP LAUNCH PAD



370-1608 OVISTEP LAUNCH PAD

PARTS LIST

PART NO.	DESCRIPTION	QTY
018-1944	OVISTEP LANDING PANEL	1
030-1569	BRACKET, STEP MOUNTING	1
036-1305	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

OVISTEP LANDING PANEL: 3/4" co-extruded HDPE.

BRACKET, STEP MOUNTING: One piece all welded construction consisting of 10 GA galvanized sheet steel, 7 GA stainless steel sheet and 1.315" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

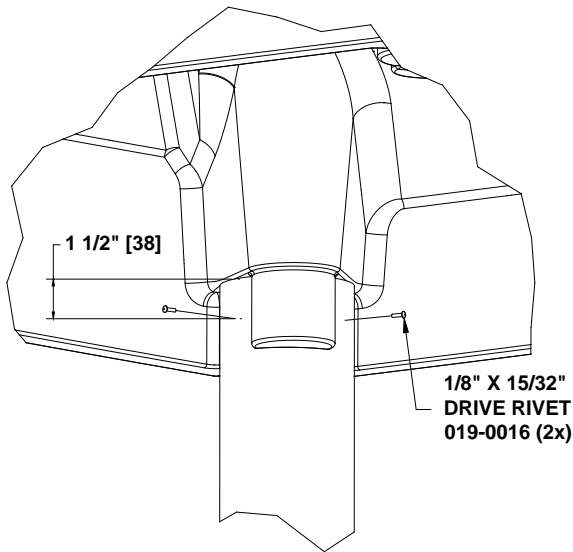
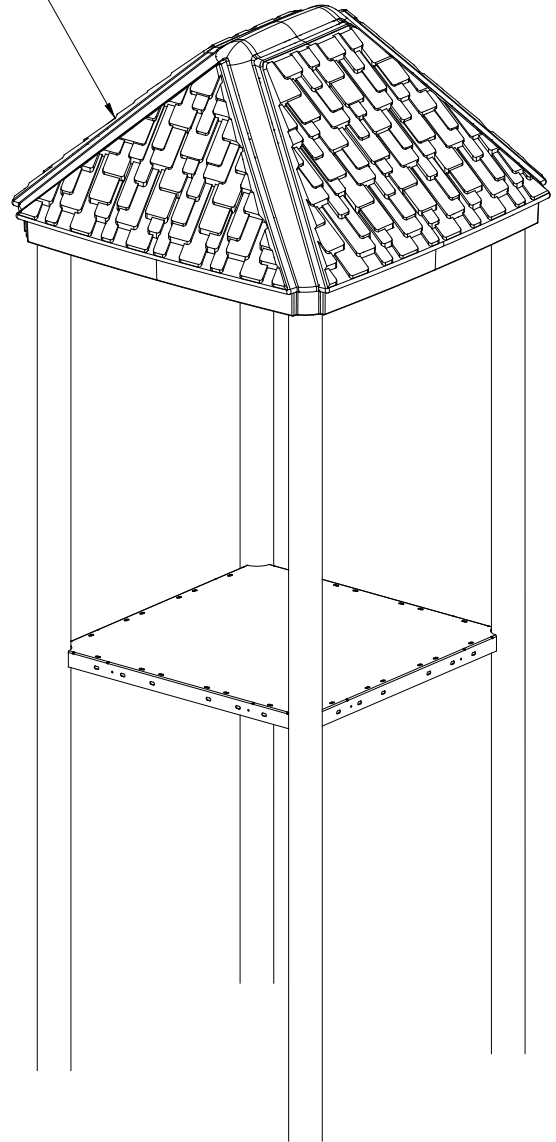
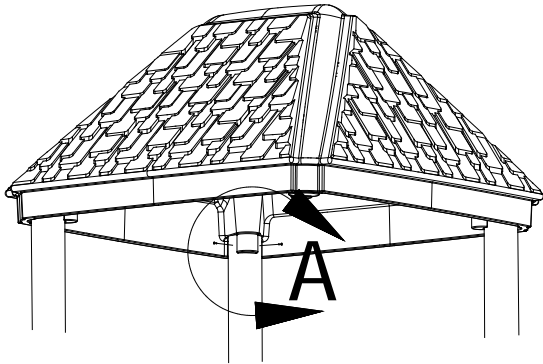
SHIPPING WEIGHT: 9.55 LBS.

INSTALLATION INSTRUCTIONS

1. Attach STEP MOUNTING BRACKET to post using hardware specified in DETAIL A.
2. Attach OVISTEP LANDING PANEL to Step Mounting Bracket using hardware specified in DETAIL B.
3. Plumb and level component. Tighten all hardware.
4. **INSTALL RESILIENT SURFACING MATERIAL IN ACCORDANCE TO INSTALLATION GUIDELINES.**



SQUARE ROOF
018-0565



1 1/2" [38]

1/8" X 15/32"
DRIVE RIVET
019-0016 (2x)

DETAIL A
(4 PLACES)

470-0517 SHAKER SQUARE ROOF

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-0565	SHAKER SQUARE ROOF	1
036-1183	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

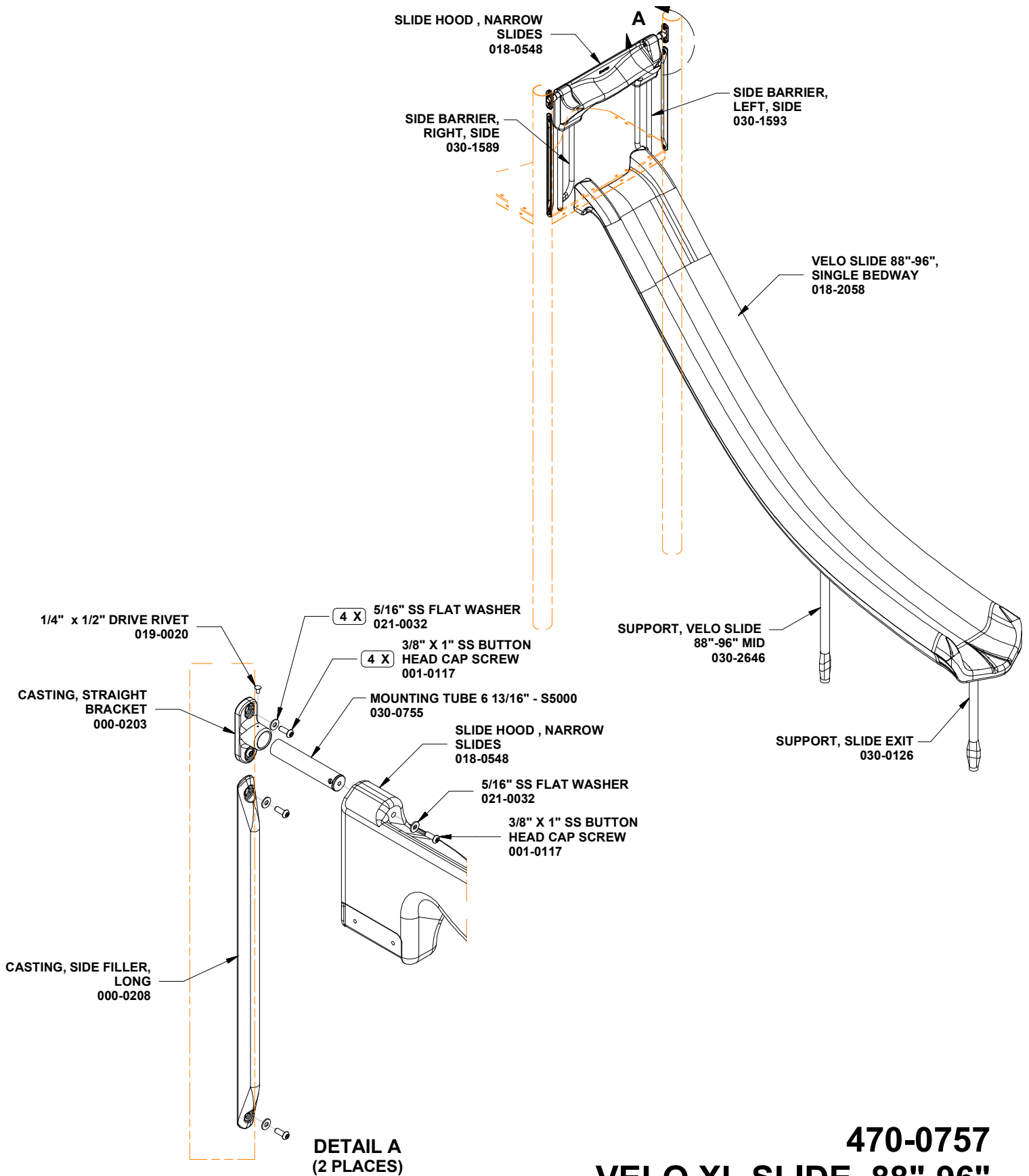
SHAKER SQUARE ROOF: 3/16" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction.

HARDWARE PACKAGE: Aluminum rivets with stainless steel pins.

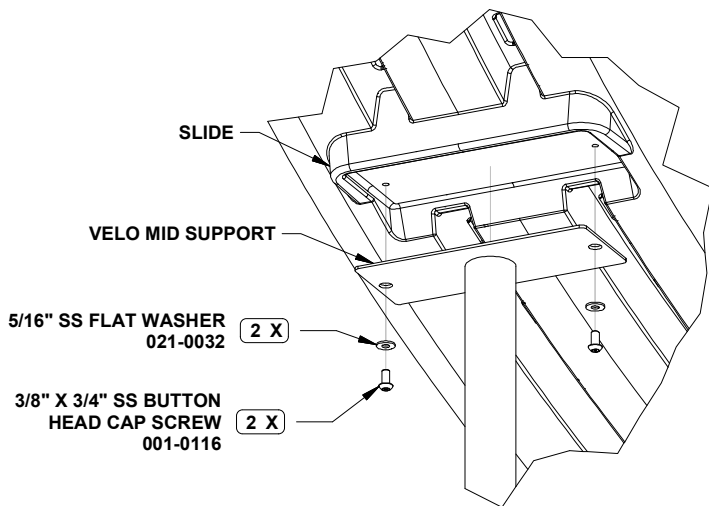
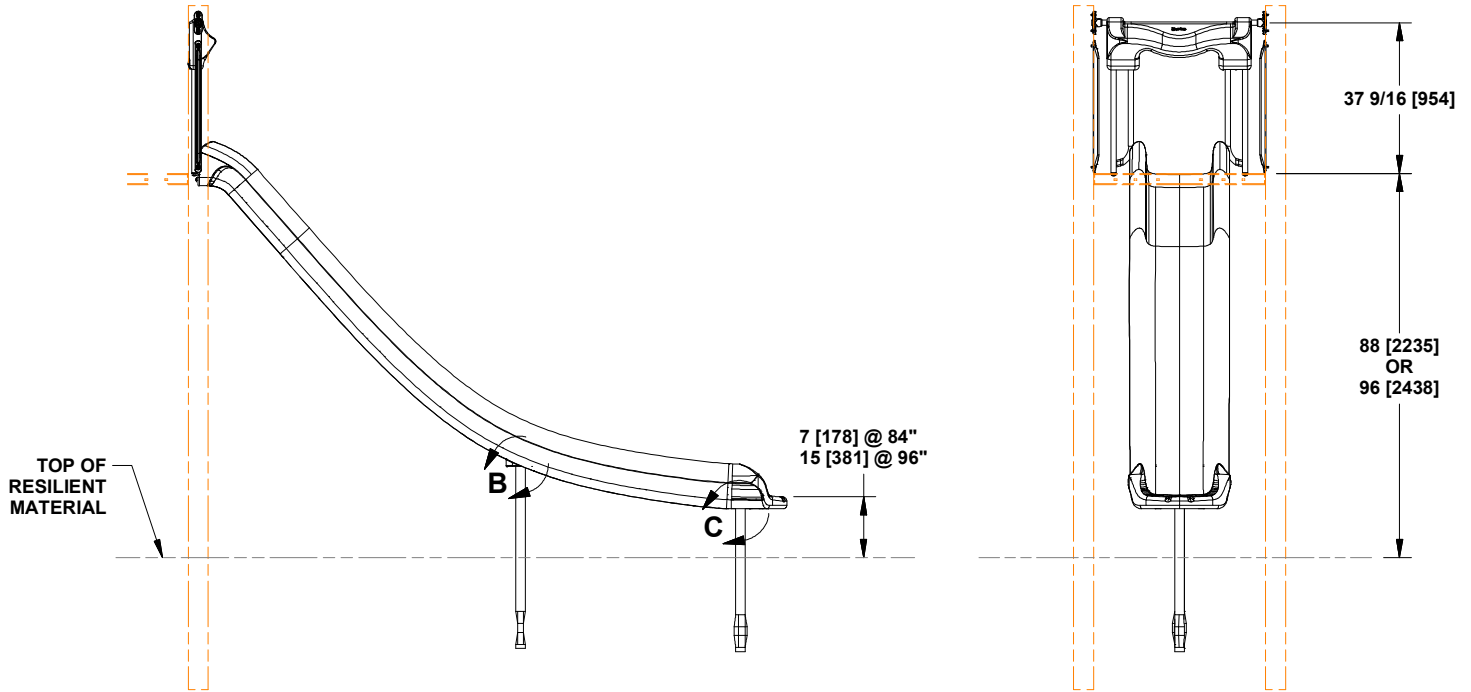
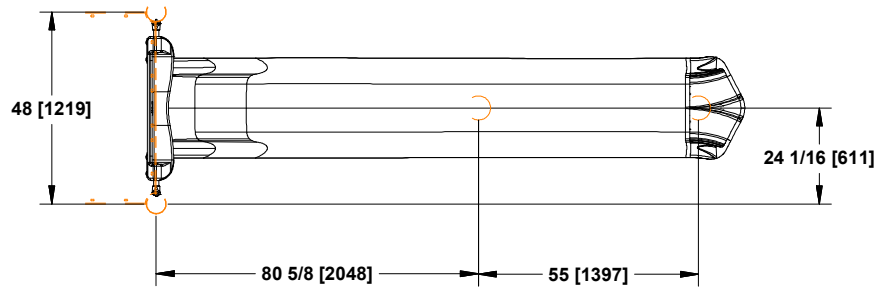
SHIPPING WEIGHT: 123 LBS.

INSTALLATION INSTRUCTIONS

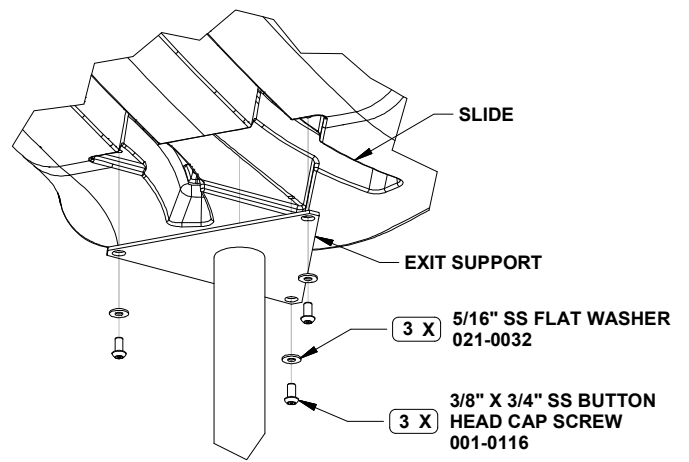
1. Determine location of roof to be installed from the site plan, which is located in the preface of your installation manual.
2. Insert roof on top of the 5" OD posts, making sure the plastic stubs insert and seat completely inside the post ID.
3. Drill (2) 1/8" diameter holes through the post and the roof stub inside the post. These holes should be approximately 1 1/2" down from the top edge of the post. Repeat for each post. See detail A.
4. Insert the 1/8" diameter drive rivets, and pound with a hammer to expand and seat the rivets. See detail A.
5. Spray drive rivet locations with touch-up paint.
6. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



470-0757
VELO XL SLIDE, 88"-96"

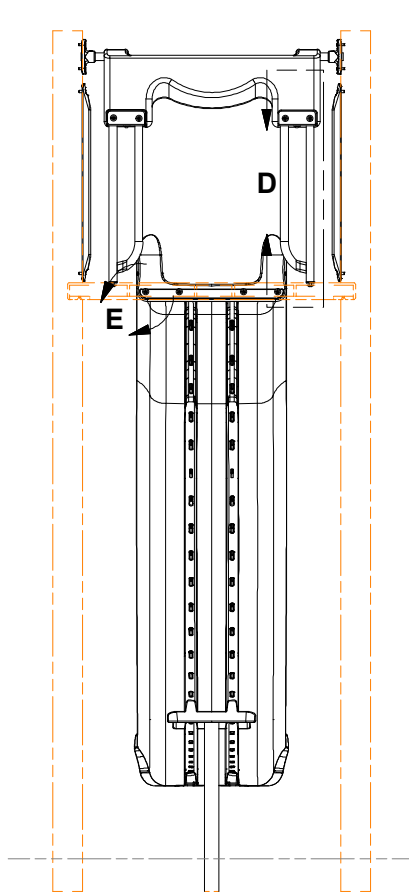


DETAIL B

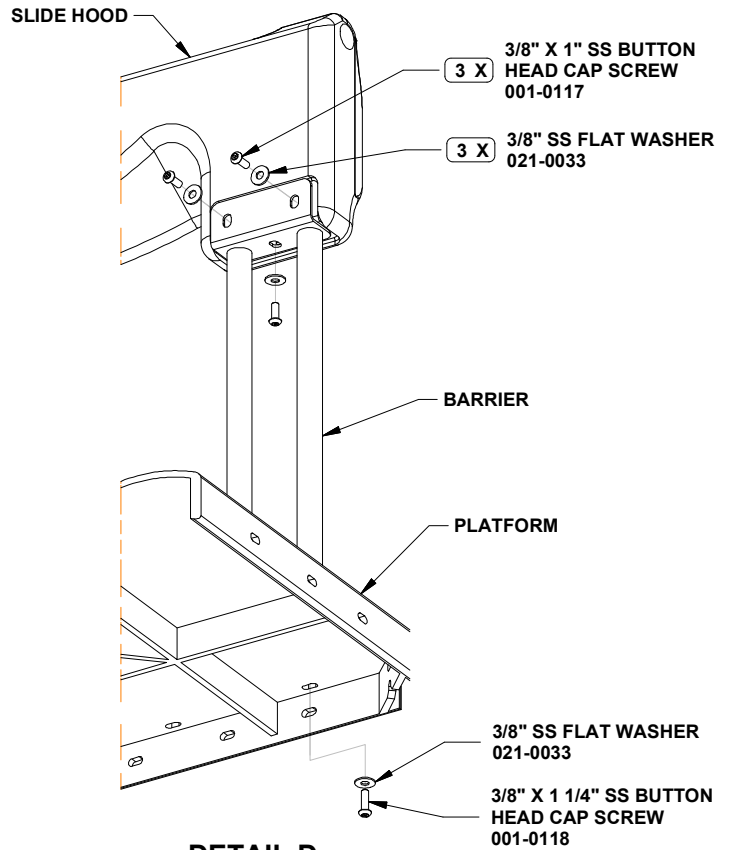


DETAIL C

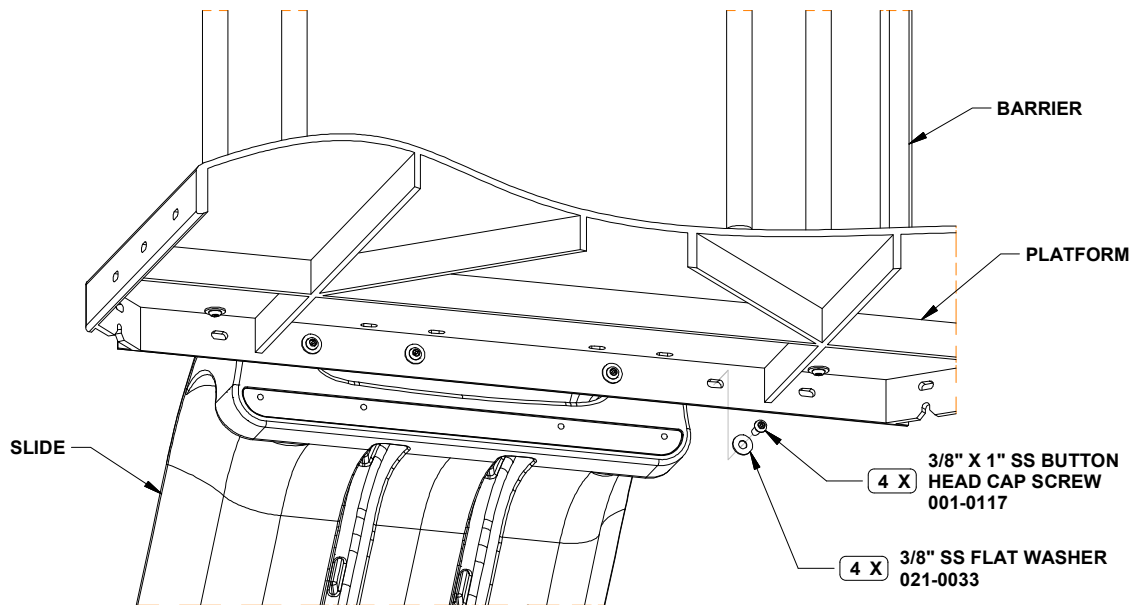
470-0757 VELO XL SLIDE, 88"-96"



BACK VIEW



DETAIL D
(2 PLACES)



DETAIL E

470-0757 VELO XL SLIDE, 88"-96"

PARTS LIST

PART NO.	DESCRIPTION	QTY
000-0203	CASTING, STRAIGHT BRACKET	2
000-0208	CASTING, SIDE FILLER, LONG	2
018-0548	SLIDE HOOD , NARROW SLIDES	1
018-2058	VELO SLIDE 88"-96", SINGLE BAY	1
030-0126	SUPPORT, SLIDE EXIT	1
030-0755	MOUNTING TUBE 6 13/16" - S5000	2
030-1589	SIDE BARRIER, RIGHT, SLIDE	1
030-1593	SIDE BARRIER, LEFT, SLIDE	1
030-2646	SUPPORT, VELO SLIDE 88"-96" MID	1
036-1206	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, LONG: A56 Aluminum. Finished with baked on powder coating.

SLIDE HOOD, NARROW SLIDES; SLIDE VELO SLIDE 88"-96", SINGLE BEDWAY: 1/4" thick, linear, low density, rotationally modeled, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SUPPORT, SLIDE EXIT: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and 8 GA galvanized sheet steel. Finished with a baked on powder coating.

MOUNTING TUBE 6 13/16" - S5000: One piece all welded construction consisting of a 1.315" OD x .083" wall galvanized tube and a 12L14 steel threaded insert. Finished with a baked on powder coating.

SIDE BARRIER, RIGHT, SLIDE; SIDE BARRIER, LEFT, SLIDE: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized sheet steel, and HDPE threaded inserts. Finished with a baked on powder coating.

SUPPORT, VELO SLIDE 88"-96" MID: One piece all welded construction consisting of 10 GA galvanized steel plate and 2 3/8" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, washers, lock nuts, barrel nuts, drive rivets. Zinc plated hex head cap screws.

SHIPPING WEIGHT: 169 LBS.

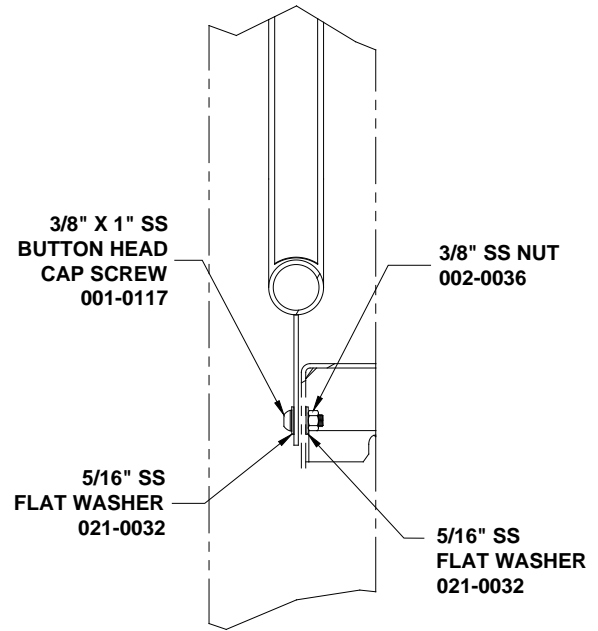
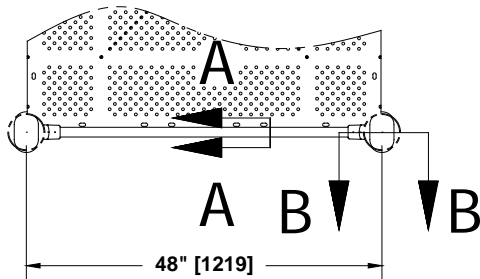
INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

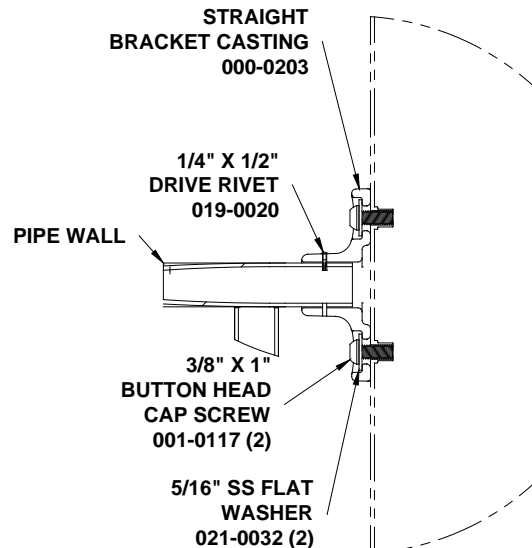
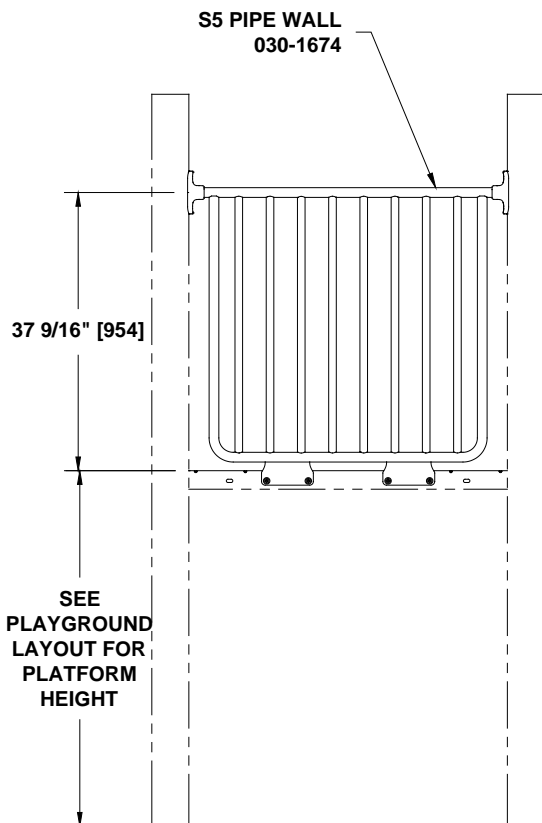
NOTE: Do not tighten hardware until instructed to do so.

1. After platform has been installed, locate and dig footing holes as per dimensions shown. See footing detail drawing, which is located in the preface of your installation manual.
2. Attach CASTING, SIDE FILLER, LONG to 5" OD posts using hardware specified in DETAIL A.
3. Attach SUPPORT VELO SLIDE 88"-96" MID. and SUPPORT, SLIDE EXIT to VELO SLIDE 88"-96", SINGLE BEDWAY using hardware specified in DETAIL B and DETAIL C. Tighten fasteners.
4. Position slide into footing holes. Attach slide to platform using hardware specified in DETAIL D. Make sure that the slide is flush and tight to platform.
5. Insert MOUNTING TUBE 6 13/16" - S5000 into SLIDE HOOD, NARROW SLIDES and attach using hardware specified in DETAIL A.
6. Attach SIDE BARRIER, RIGHT, SLIDE and SIDE BARRIER, LEFT, SLIDE to SLIDE HOOD, NARROW SLIDES using hardware specified in DETAIL D.
7. Slide CASTING, STRAIGHT BRACKET onto MOUNTING TUBE 6 13/16" - S5000 and attach to 5" OD posts using hardware specified in DETAIL A.
8. Attach side barriers to platform using hardware specified in DETAIL D.
9. Tighten all hardware.
10. Block-up, level and plumb.
11. Pour concrete. Let set for 2-3 days.
- 12. Install resilient material in accordance to installation guidelines, ASTM standards, and CPSC guidelines.**

470-0757 VELO XL SLIDE, 88"-96"
REV: 00 PCN: 17-0350 7/9/2018



SECTION A-A
(4 PLACES)



SECTION B-B
(2 PLACES)

570-0394 PIPE WALL

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1674	S5 PIPE WALL	1
036-1284	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 PIPE WALL: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing. Finished with a baked on powder coating.

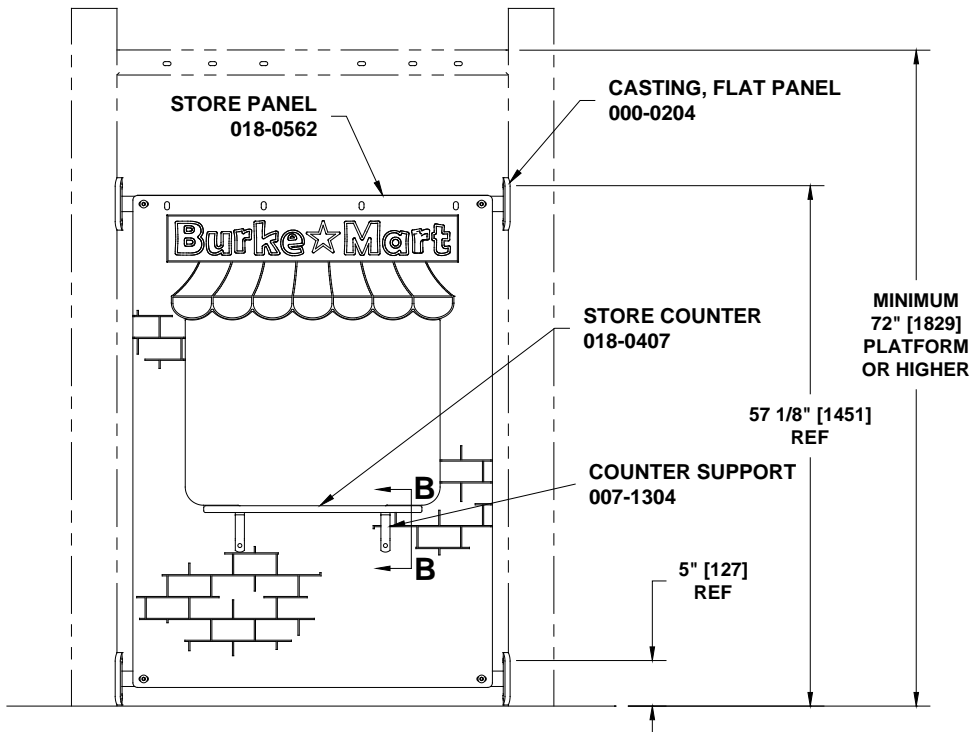
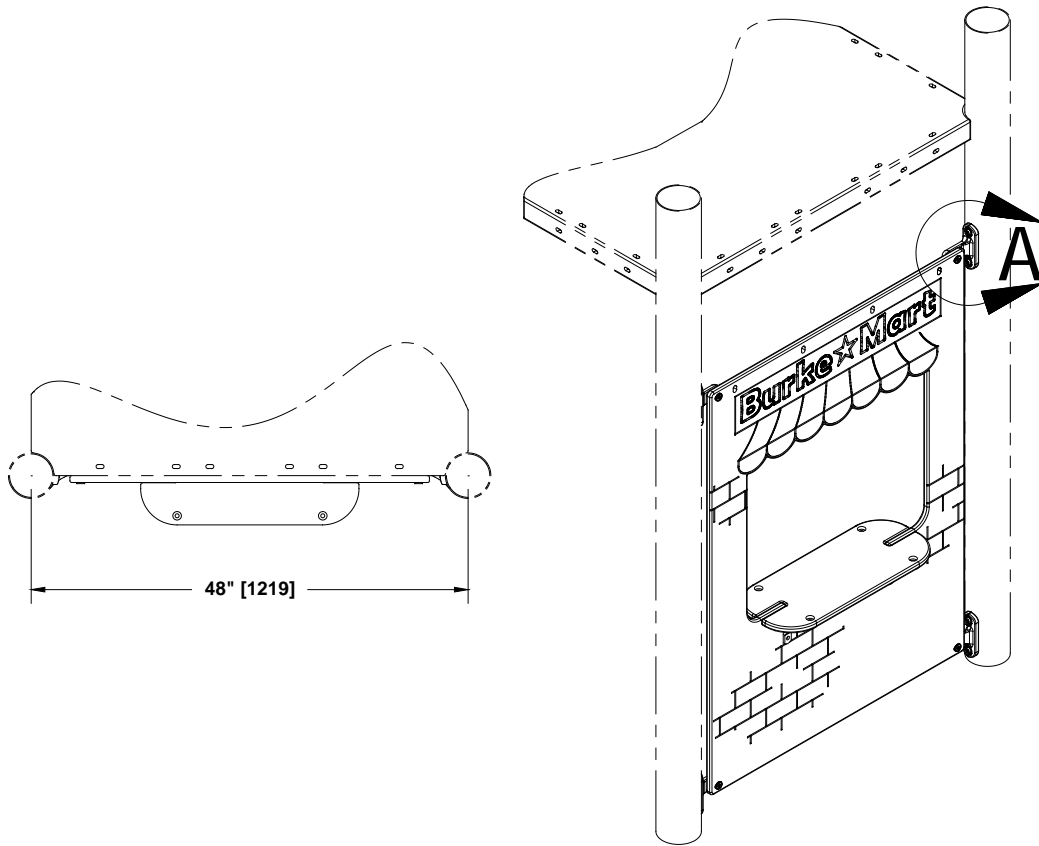
HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 37 LBS.

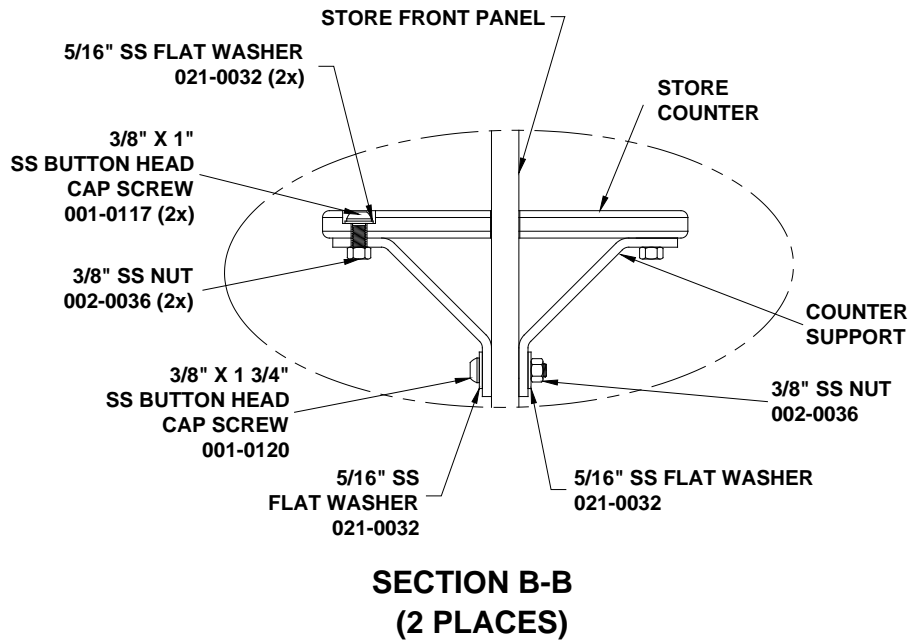
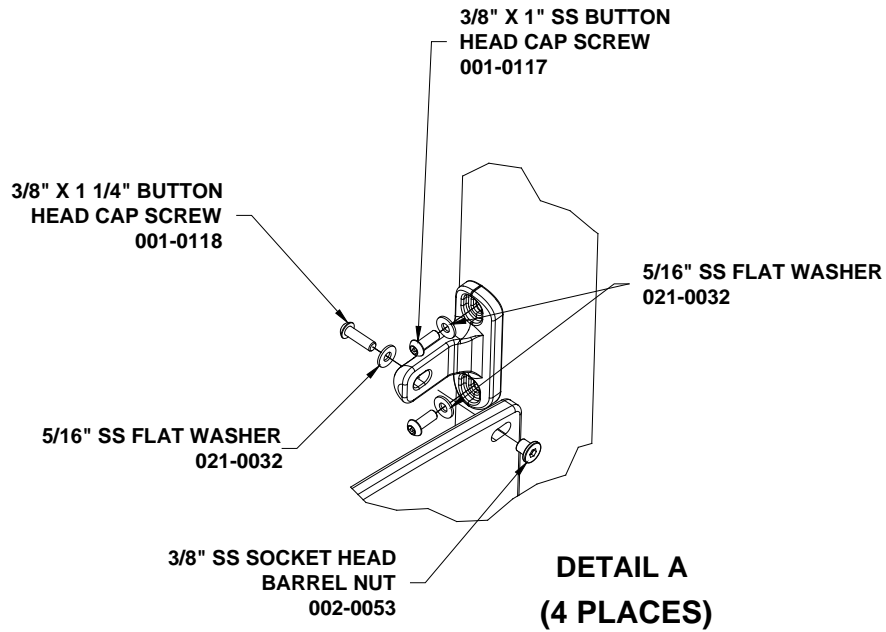
INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

1. Slide BRACKETS onto tube on PIPE WALL.
2. Attach brackets with pipe wall to 5" OD post using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See SECTION B-B.
3. Attach bottom of pipe wall to platform using 3/8" x 1" SS button head cap screws, 5/16" SS washers and 3/8" SS nuts. Tighten all hardware. See SECTION A-A.
4. Drill 1/4" diameter holes through pilot hole, into pipe wall and through mounting bracket. See SECTION B-B.
5. Drive rivets flush with brackets and pipe wall.
6. Tighten All Hardware.



570-0620
BURKE MART PANEL BELOW PLATFORM 72"-112"



570-0620
BURKE MART PANEL BELOW PLATFORM 72"-112"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0204	CASTING, FLAT PANEL	4
007-1304	COUNTER SUPPORT	4
018-0407	STORE COUNTER	1
018-0562	BURKE MART PANEL	1
036-1245	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, FLAT PANEL: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

COUNTER SUPPORT: Formed 8 GA. galvanized sheet steel finished with a baked on powder coating.

STORE COUNTER: 3/4" extruded HDPE.

BURKE MART PANEL: 3/4" co-extruded HDPE.

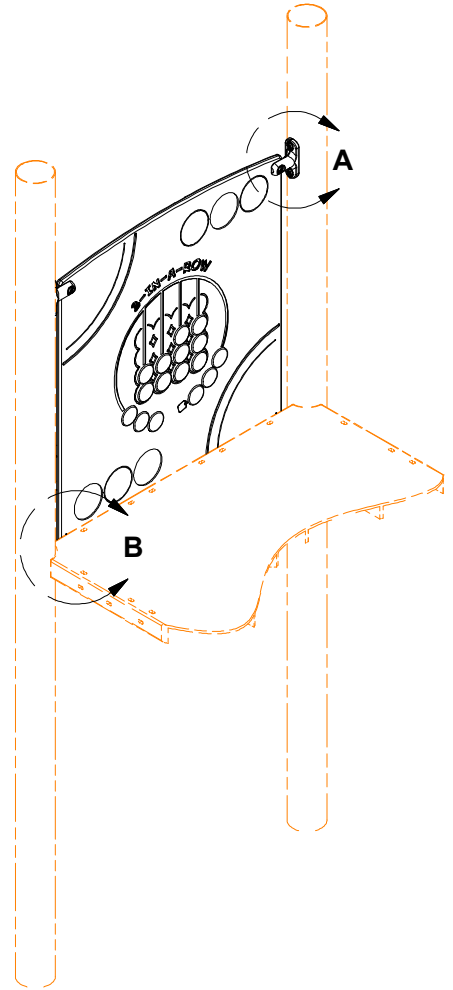
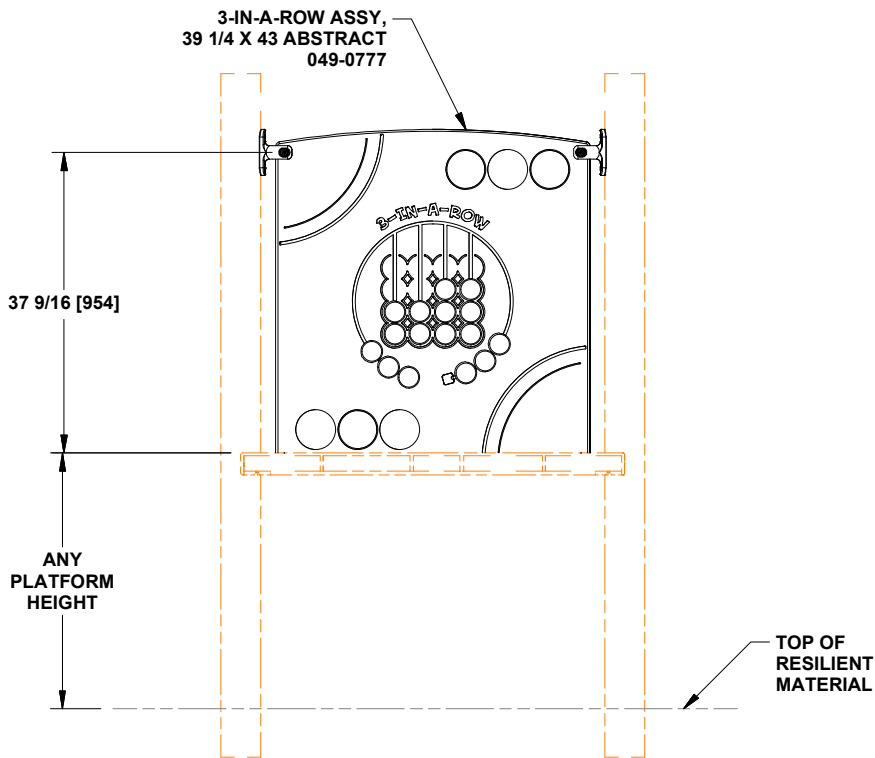
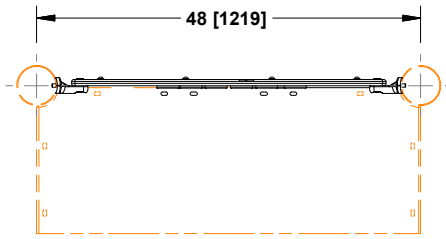
HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 54 LBS.

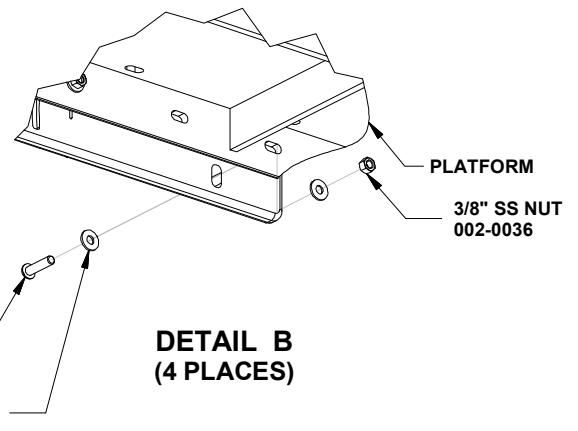
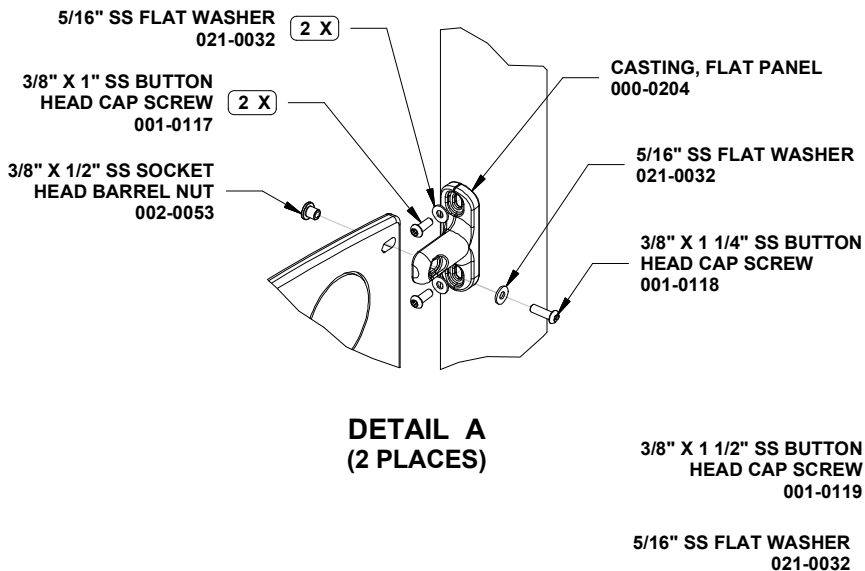
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

1. Attach all four CASTINGS FLAT PANEL to posts using 3/8" x 1" SS button head cap screws and 5/16" SS flat washers. **NOTE: flat panel casting must be positioned so it is offset towards platform.** See DETAIL A.
2. Attach STORE PANEL to flat panel castings using 3/8" x 1 1/4" SS button head cap screws, 5/16" SS flat washers, and 3/8" SS socket head barrel nuts. See DETAIL A.
3. Attach COUNTER SUPPORTS to store panel using 3/8" x 1 3/4" SS button head cap screws, 5/16" SS flat washers, and 3/8" nuts. See SECTION B-B.
4. Slide STORE COUNTER into slot on store front panel with counter bored holes to the top. Attach counter support to store counter using 3/8" x 1" SS button head cap screws, 5/16" flat washers and 3/8" nuts. Tighten hardware. See SECTION B-B.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



3-IN-A-ROW ASSY,
39 1/4 X 43 ABSTRACT
049-0777



570-1858 3-IN-A-ROW PANEL, ABOVE PLATFORM

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0204	CASTING, FLAT PANEL	2
036-1241	HARDWARE PACKAGE	1
049-0777	3-IN-A-ROW ASSY, 39 1/4 X 43 ABSTRACT	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, FLAT PANEL: A356-T6 Aluminum, Heat- Treated. Finished with baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

3-IN-A-ROW ASSY, 39 1/4 X 43 ABSTRACT: Assembly consisting of 1/2 and 3/4" extruded HDPE panels and stainless steel hardware fasteners.

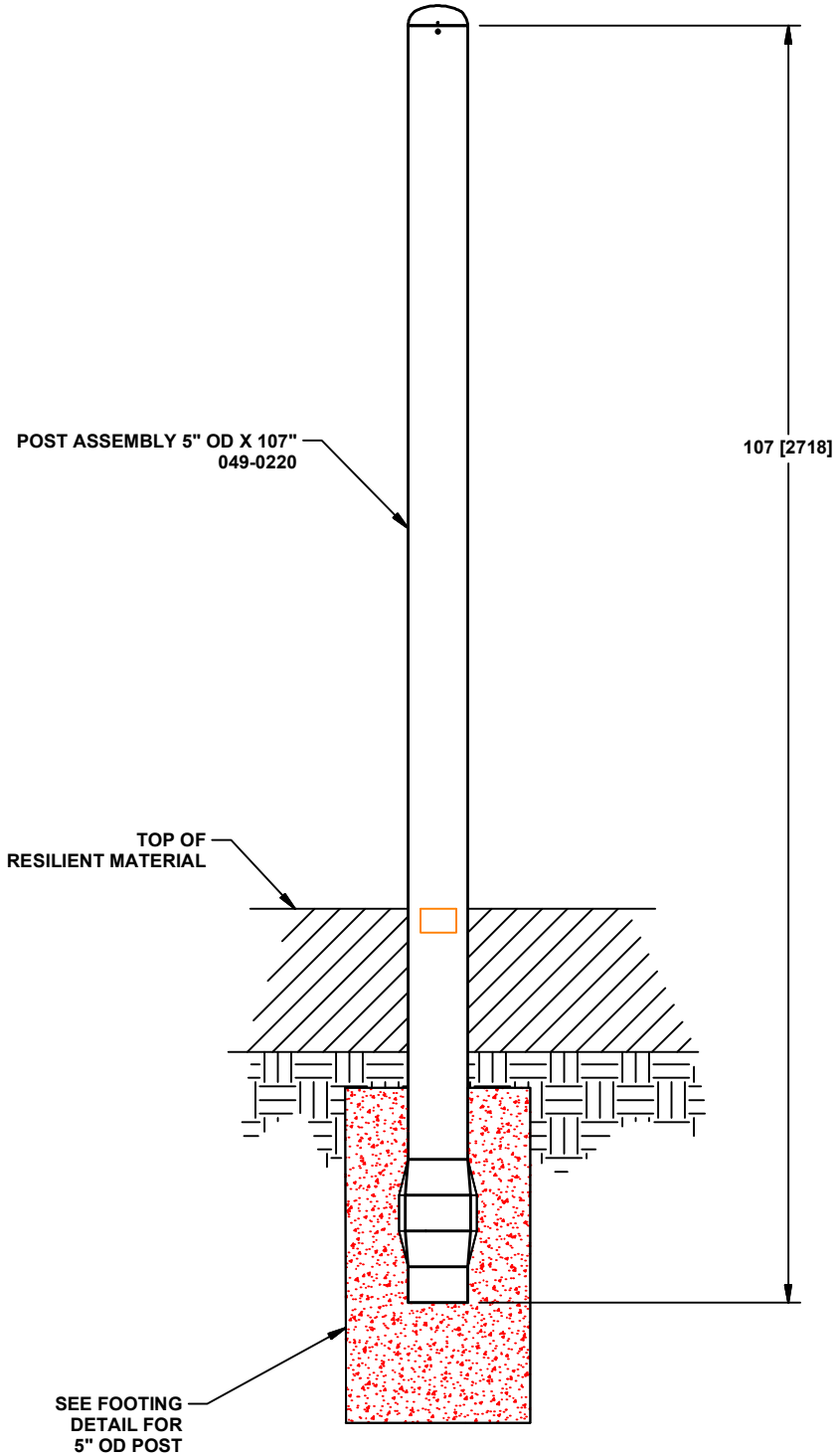
SHIPPING WEIGHT: 45 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Attach FLAT PANEL CASTINGS to posts using hardware specified in DETAIL A.
2. Attach 3-IN-A-ROW ASSY, 39 1/4 X 43 ABSTRACT to the platform using hardware specified in DETAIL B.
3. Attach panel to castings using hardware specified in DETAIL A.
4. Level panel and tighten all hardware.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0002 POST ASSEMBLY 5" OD X 107"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0220	POST ASSEMBLY 5" OD X 107"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

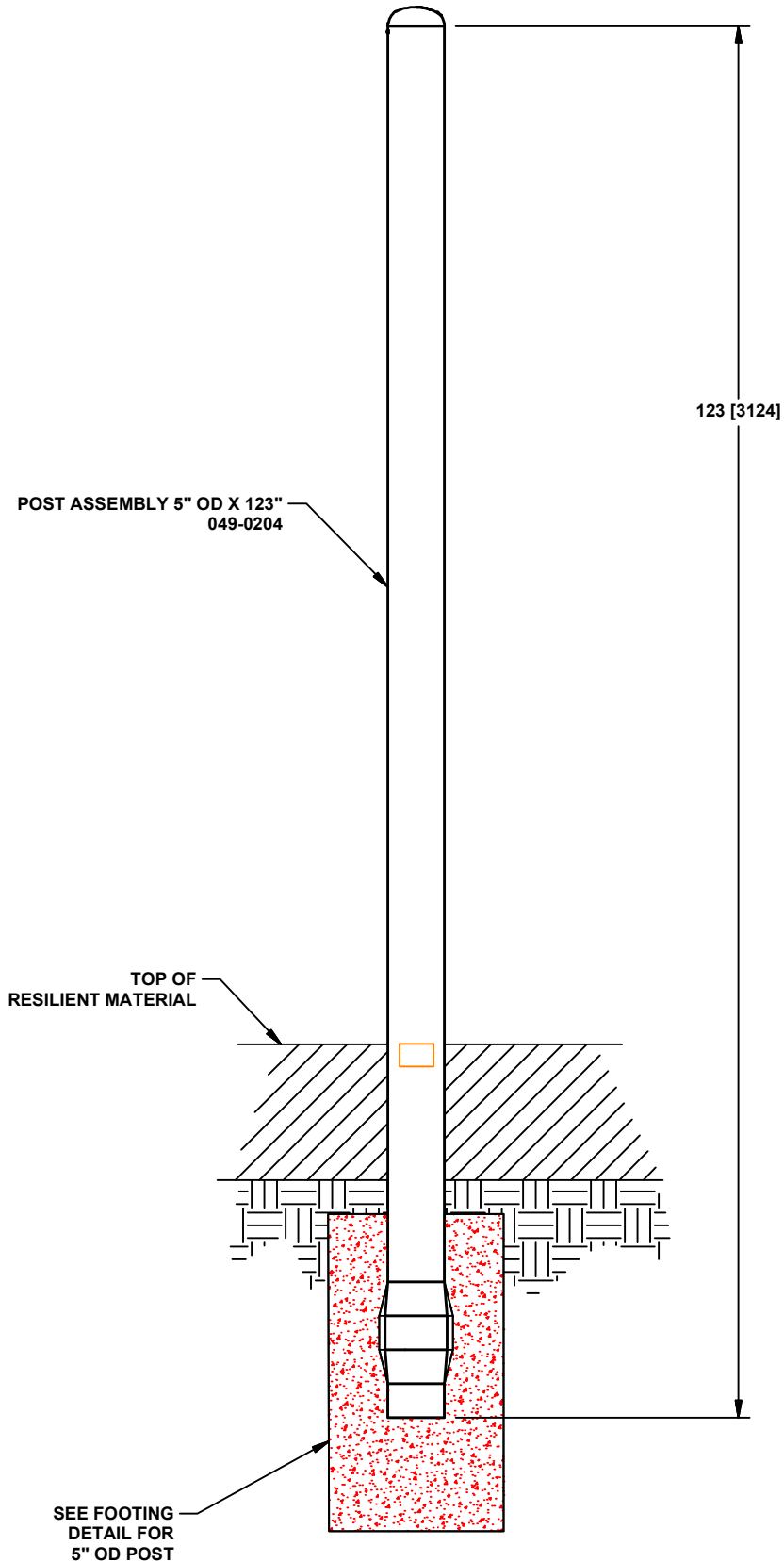
SPECIFICATIONS

POST ASSEMBLY 5" OD X 107": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 57 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
- 4. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0165 POST ASSEMBLY 5" OD X 123"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0204	POST ASSEMBLY 5" OD X 123"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

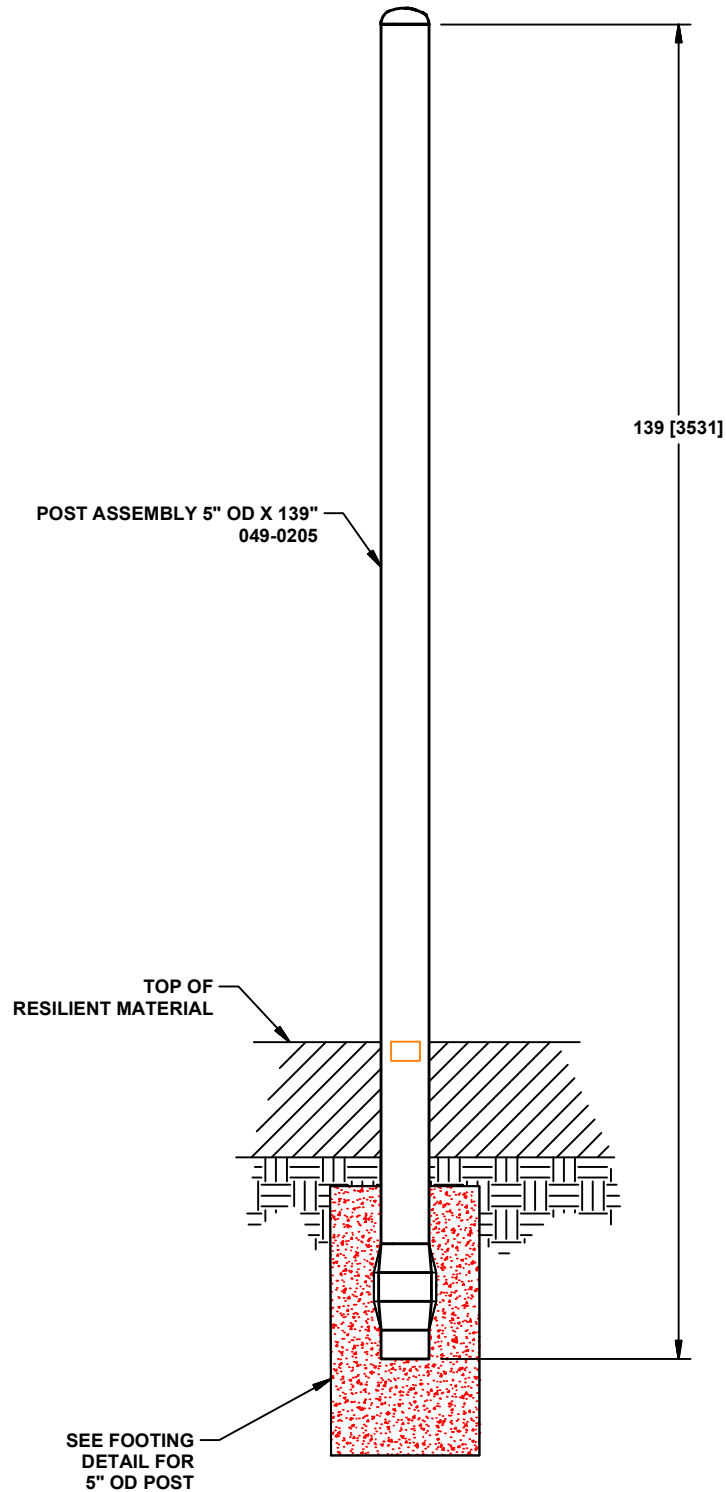
SPECIFICATIONS

POST ASSEMBLY 5" OD X 123": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 66 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0166 POST ASSEMBLY 5" OD X 139"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0205	POST ASSEMBLY 5" OD X 139"	1

SPECIFICATIONS

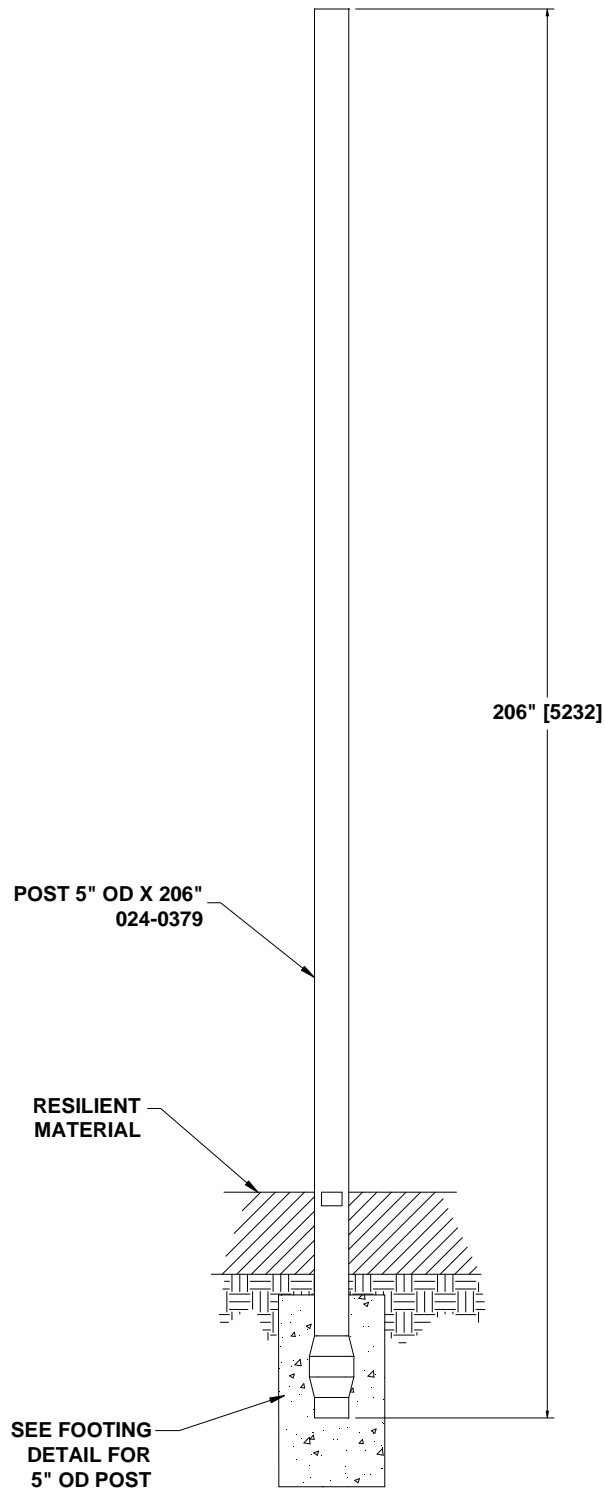
POST ASSEMBLY 5" OD X 139": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SHIPPING WEIGHT: 74 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0392
ROOF POST 5" OD X 206"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
024-0379	POST 5" OD X 11 GA X 206"	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

POST 5" OD X 11 GA X 206": 5" OD x 11 GA galvanized steel tubing finished with a baked on powder coating.

SHIPPING WEIGHT: 108 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 – 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

BCI Burke Company, LLC
660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566
www.bciburke.com

SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) A Handbook for Public Playground Safety** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-Children's Playspaces and Equipment A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

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PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

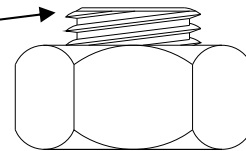


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. **NOTE:** *In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets. See typical mount bracket assembly drawings located in the installation instructions section.*

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

GENERAL INSTALLATION GUIDELINES

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

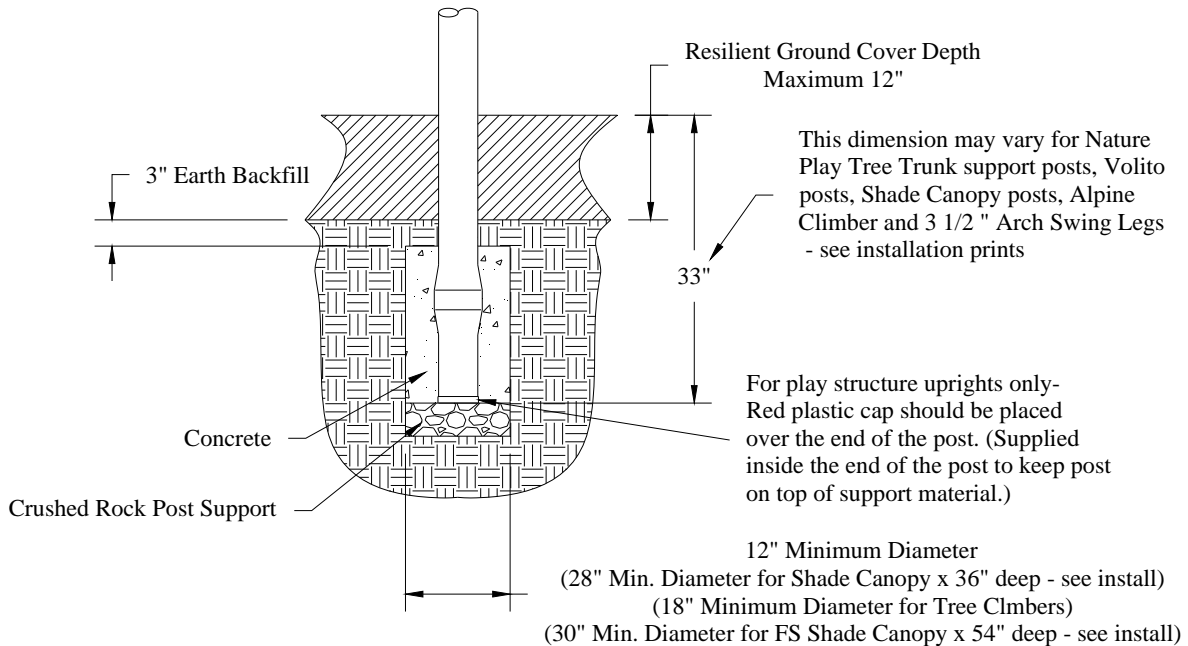


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

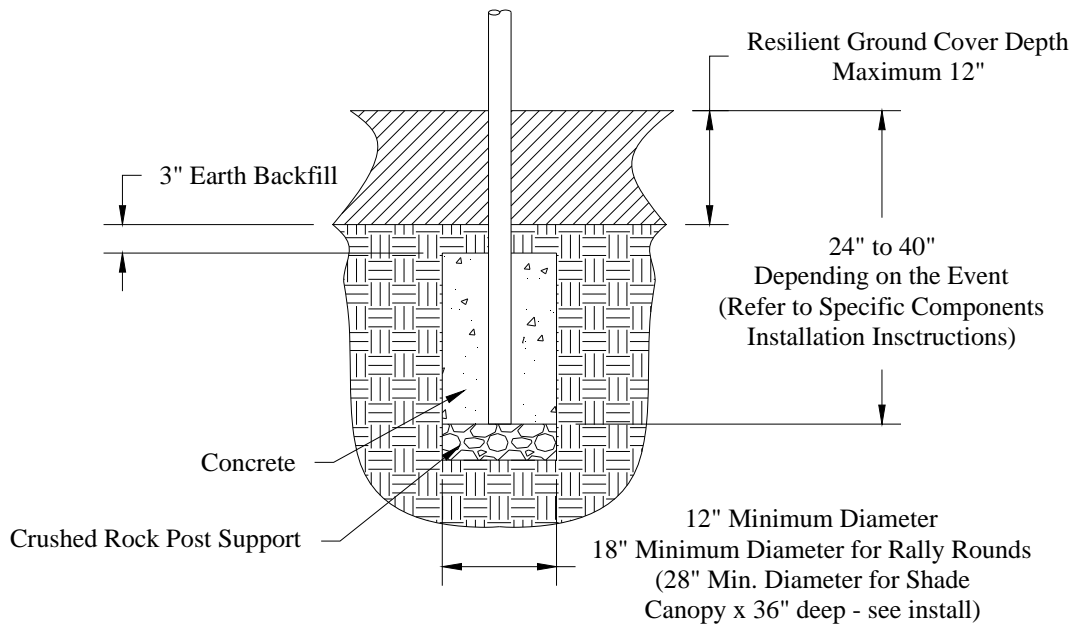


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

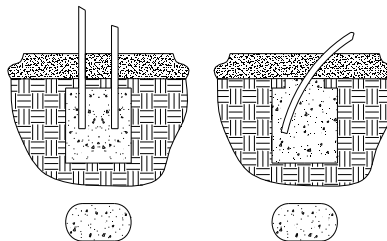


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

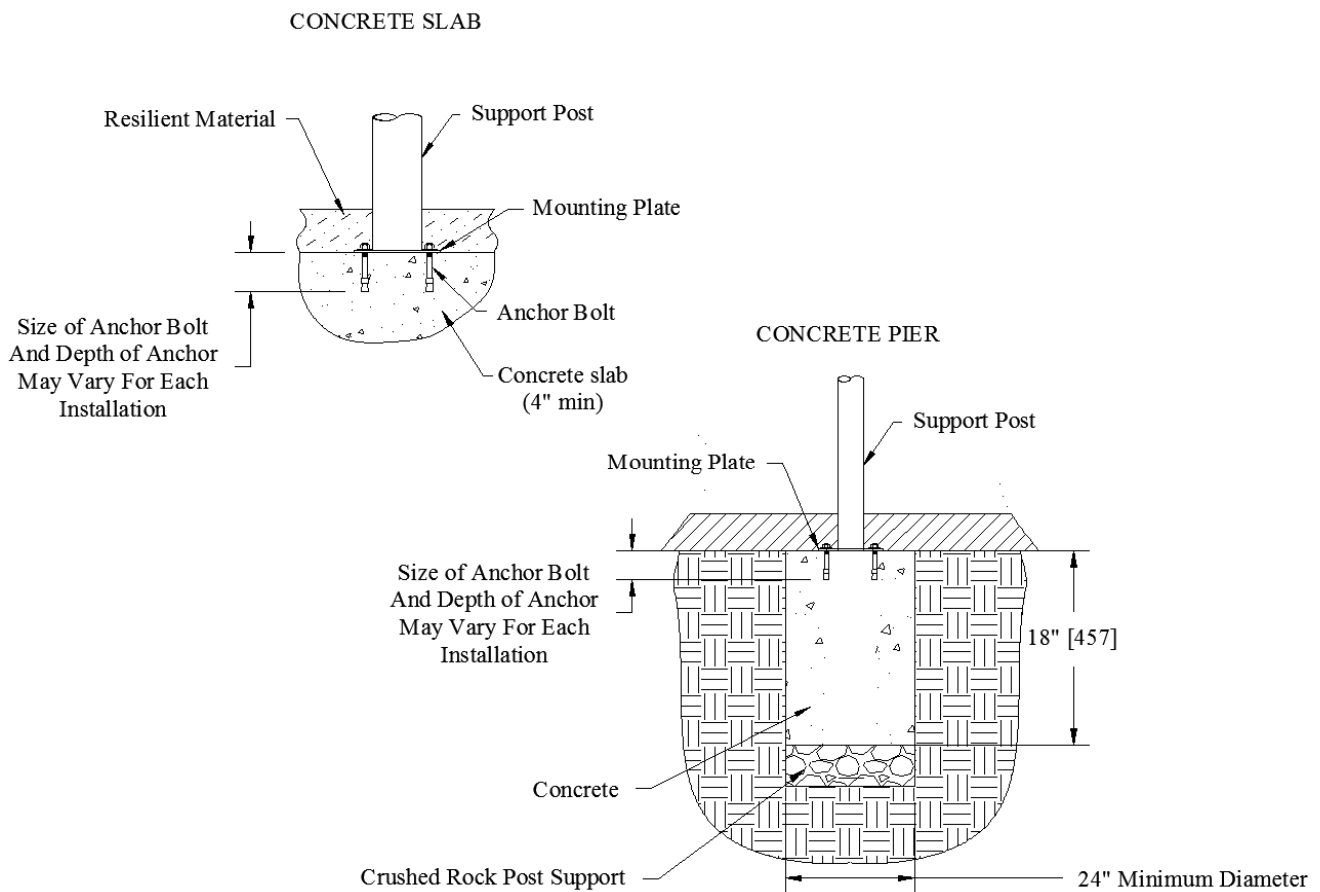


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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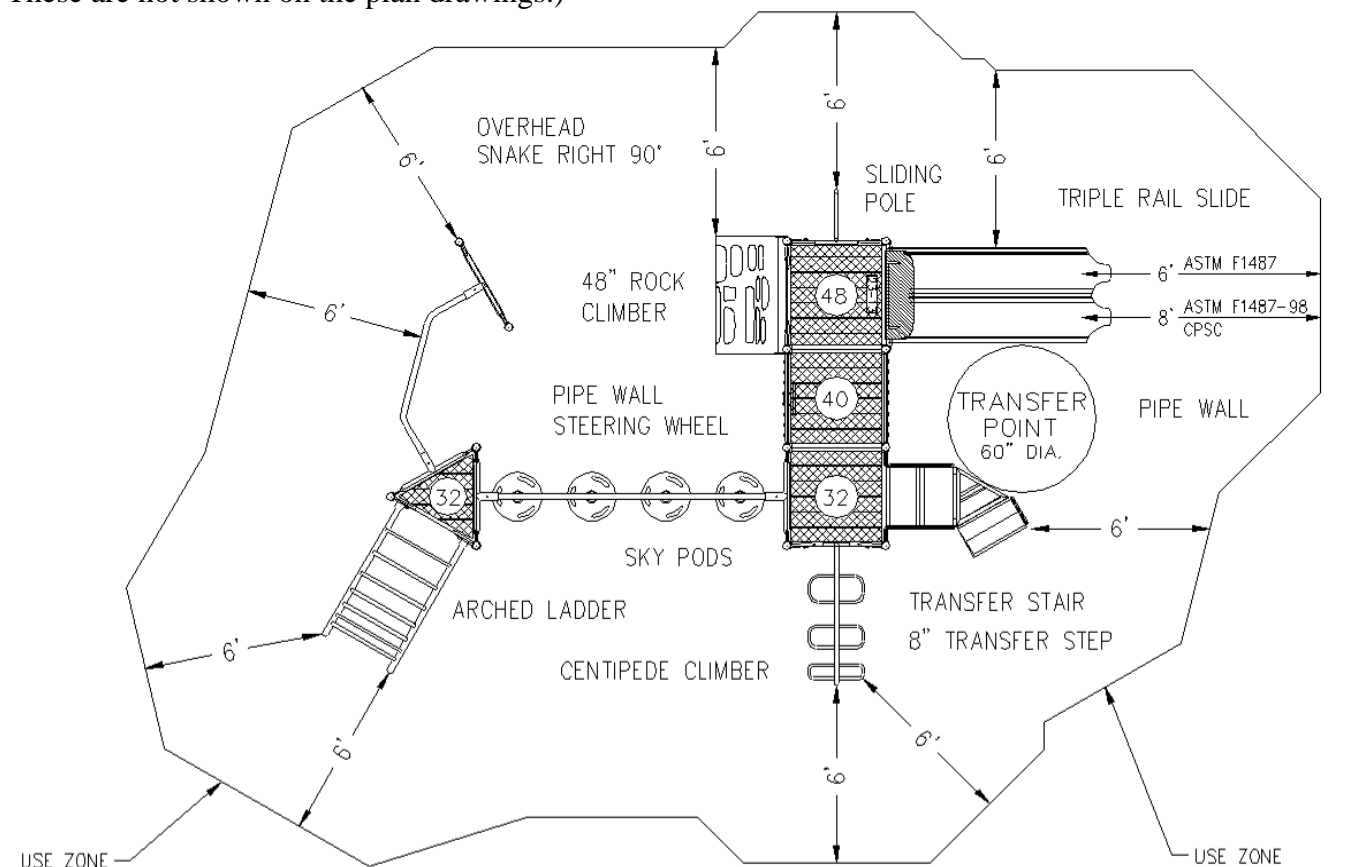
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

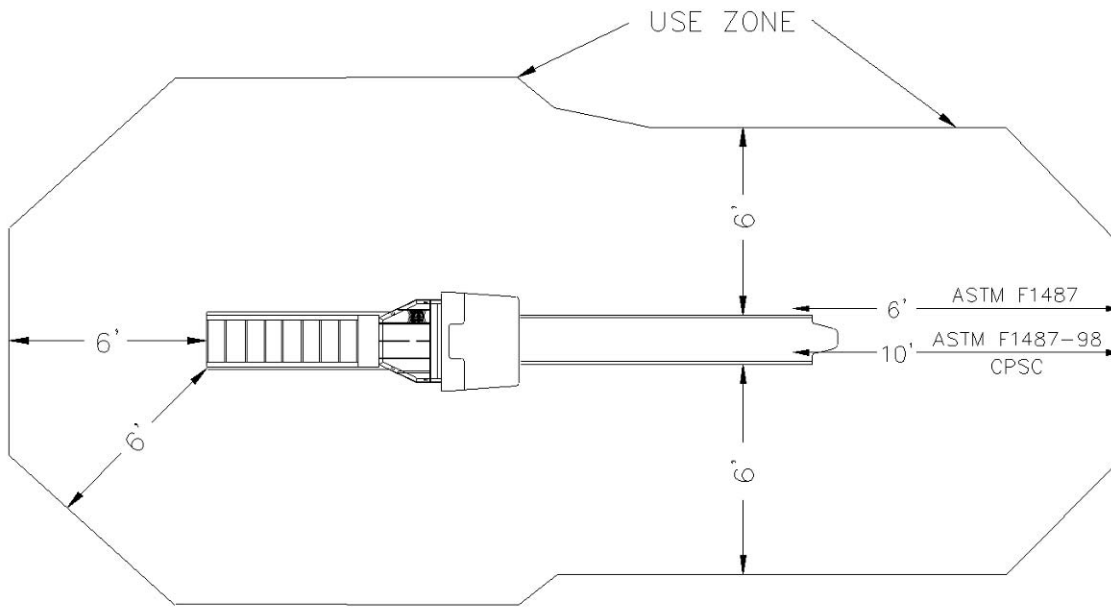


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of Y + 72 in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

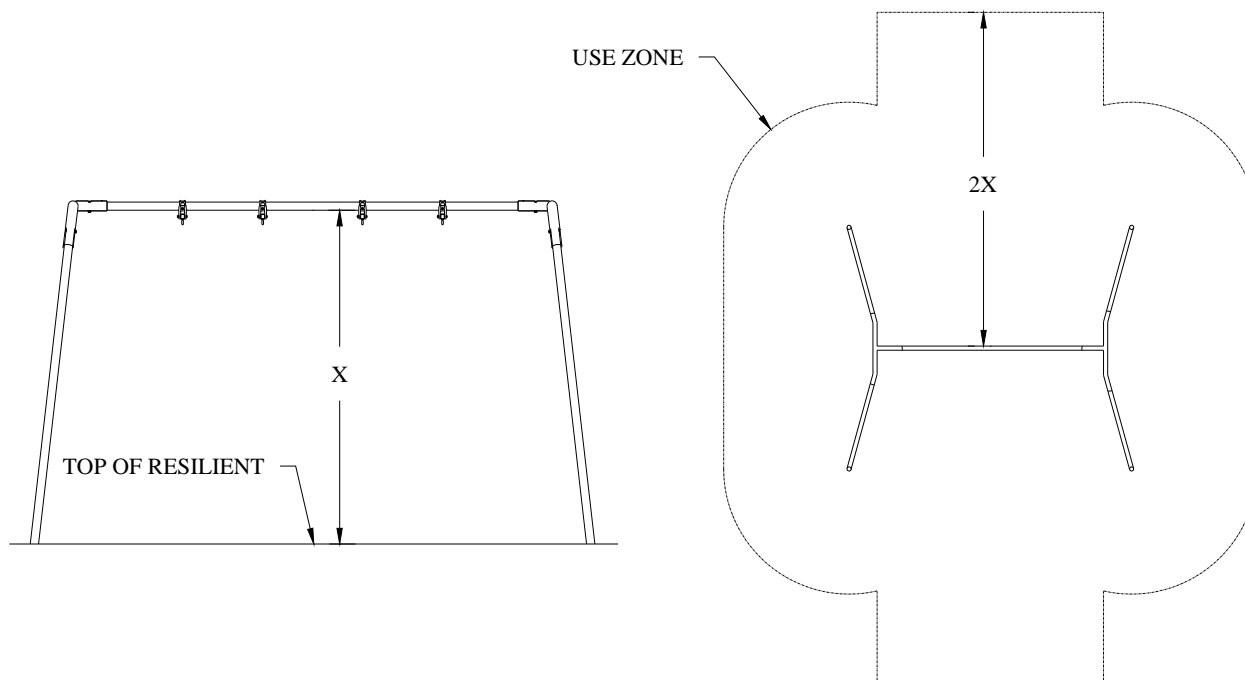


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

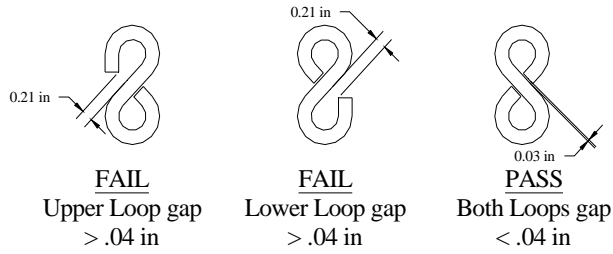


Figure 9: Check loops for .04" gap

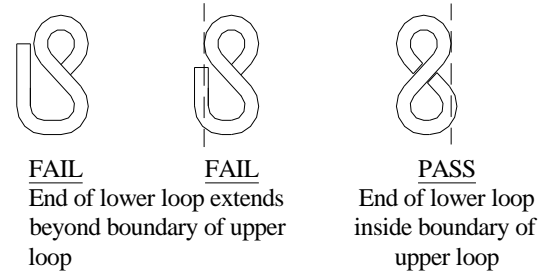


Figure 10: Check lower loop projection

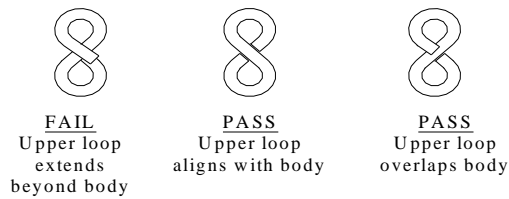


Figure 11: Check upper loop projection

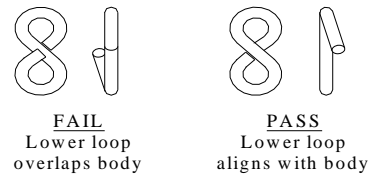


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

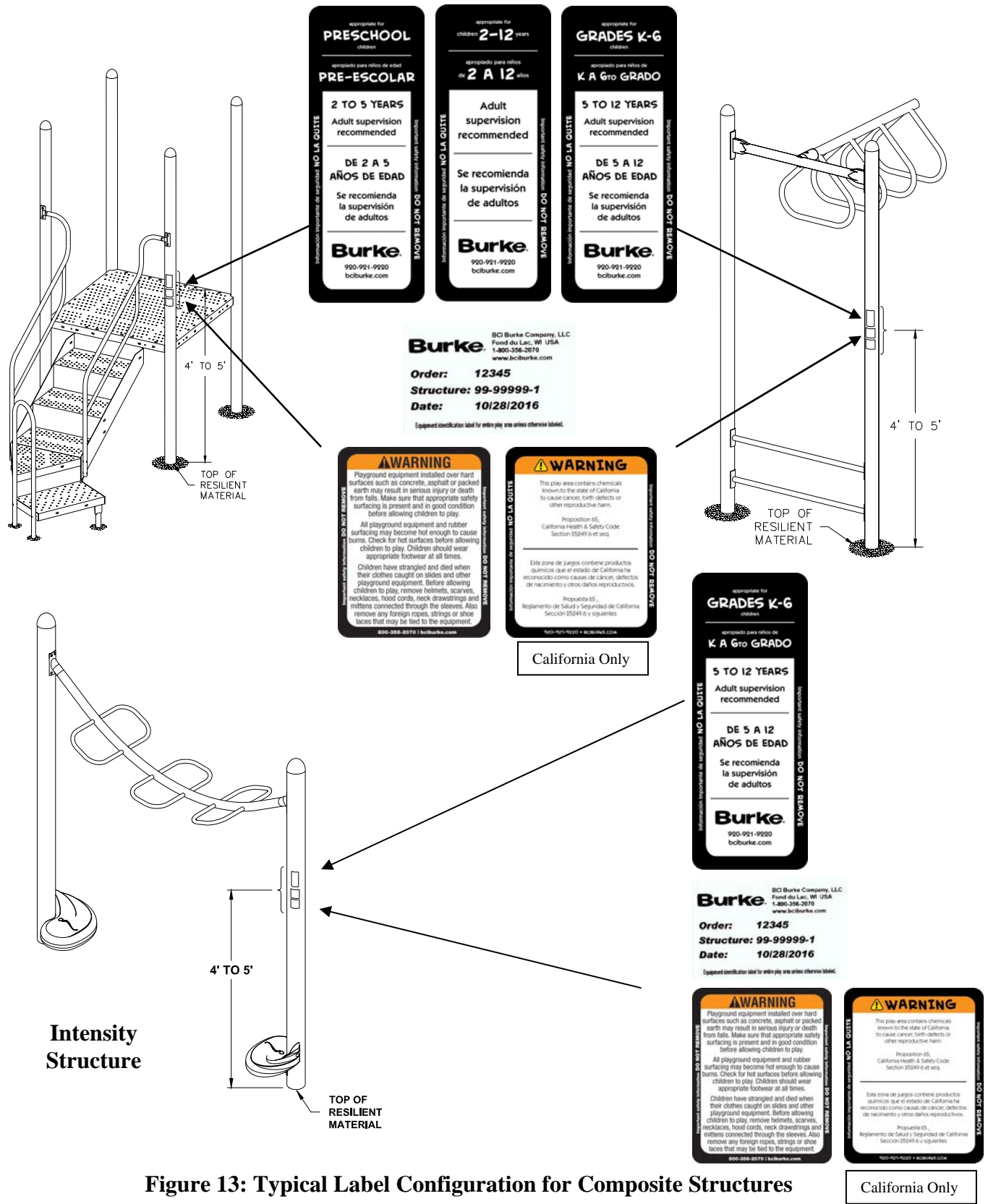


Figure 13: Typical Label Configuration for Composite Structures

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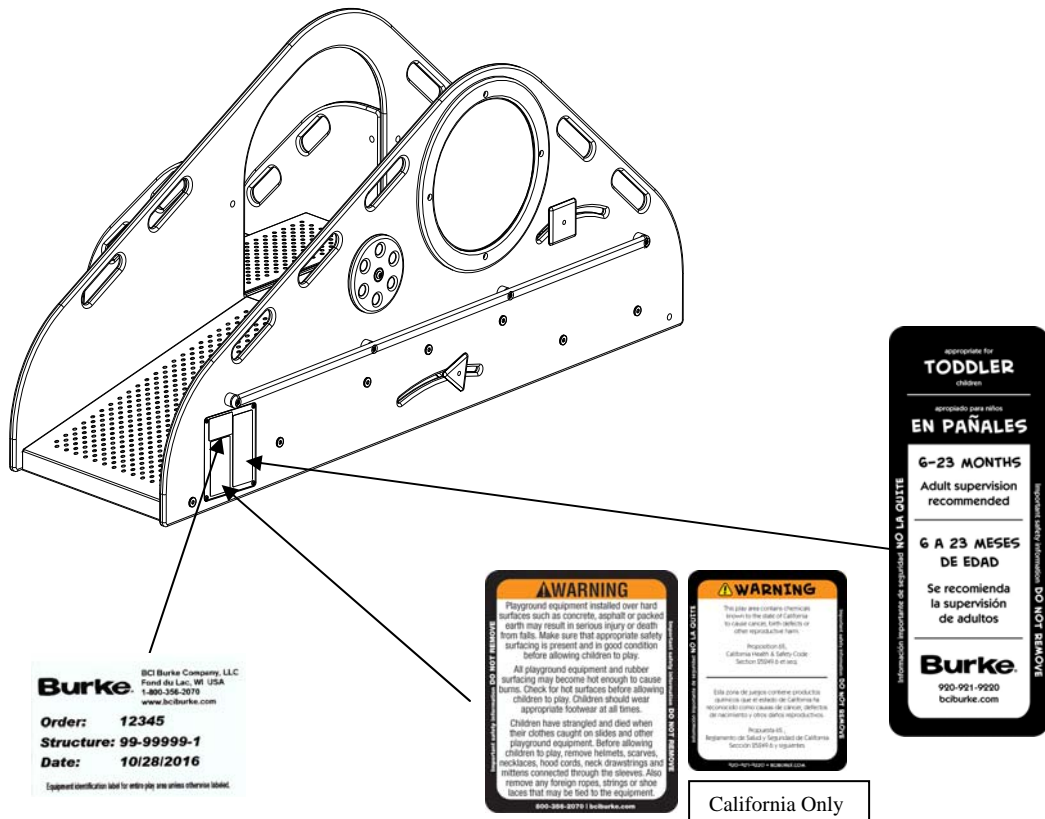


Figure 14: Typical Label Configuration for Composite Structures

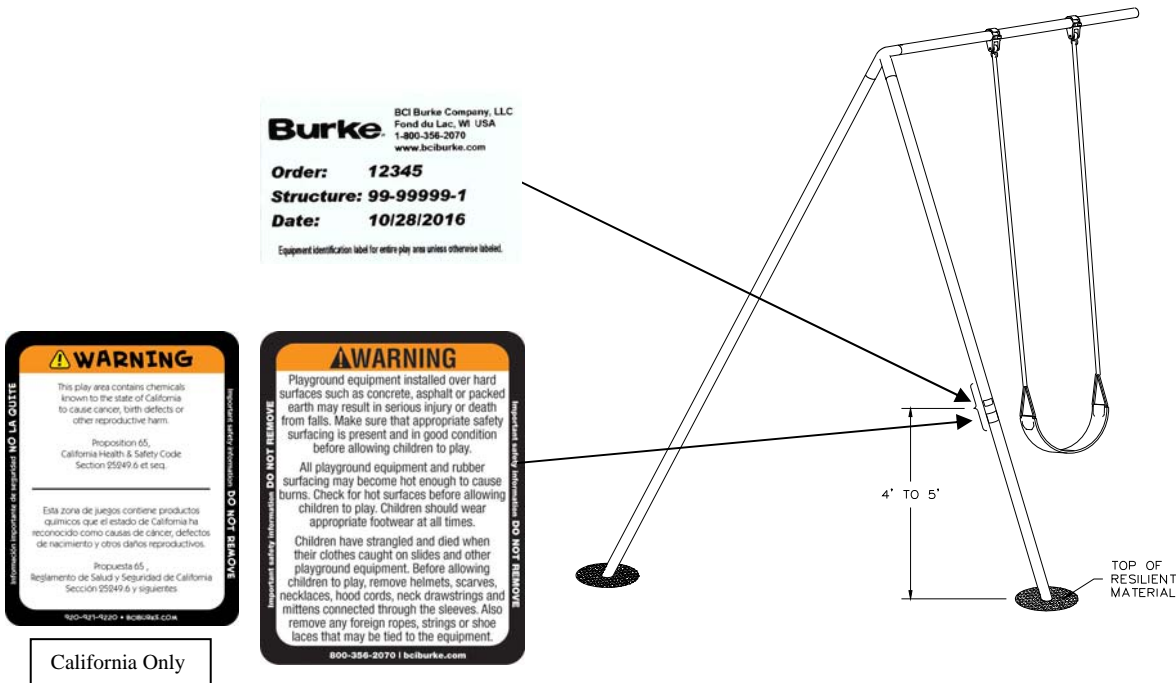


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- | | |
|--|--|
| <p>Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.</p> | <p><input type="checkbox"/> Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.</p> |
| <p><input type="checkbox"/> Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.</p> | <p><input type="checkbox"/> Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.</p> |
| <p><input type="checkbox"/> Clean dried concrete off support posts and any other affected components</p> | <p><input type="checkbox"/> Touch up any exposed metal on coated parts following the instructions in the Maintenance section.</p> |
| <p><input type="checkbox"/> Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.</p> | <p><input type="checkbox"/> Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.</p> |
| <p><input type="checkbox"/> Insure all post ends have properly installed post caps. Insure the drive rivets are secure.</p> | <p><input type="checkbox"/> Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.</p> |
| <p><input type="checkbox"/> Insure all fasteners are tightened according to specifications listed on your installation instructions.</p> | <p><input type="checkbox"/> Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.</p> |
| <p><input type="checkbox"/> Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.</p> | <p><input type="checkbox"/> Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.</p> |

Inspected by: _____

Inspection Date: _____

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For questions, call us at:
1-800-356-2070

MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris. **DO NOT** use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

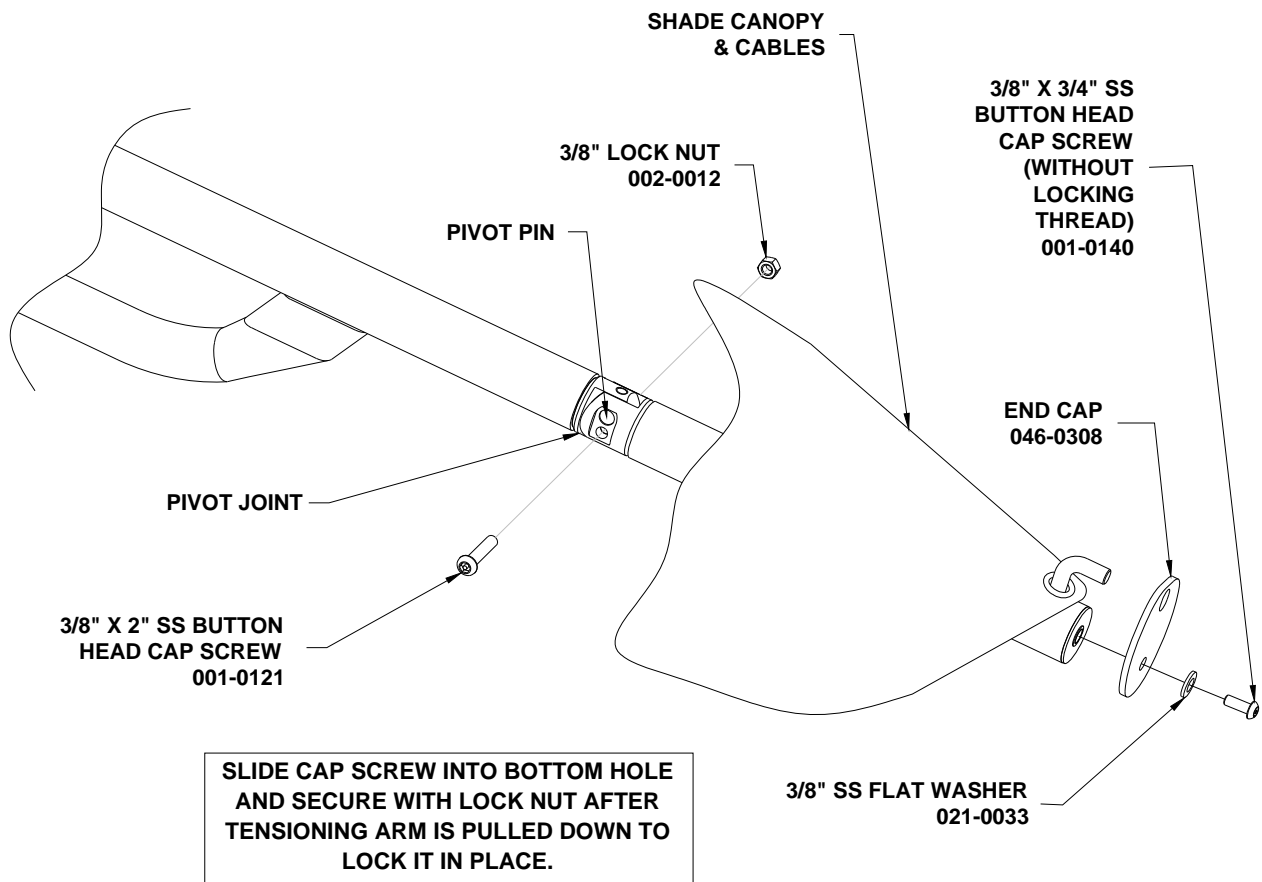


Figure 16: Tensioning Arm in 'Closed Position'

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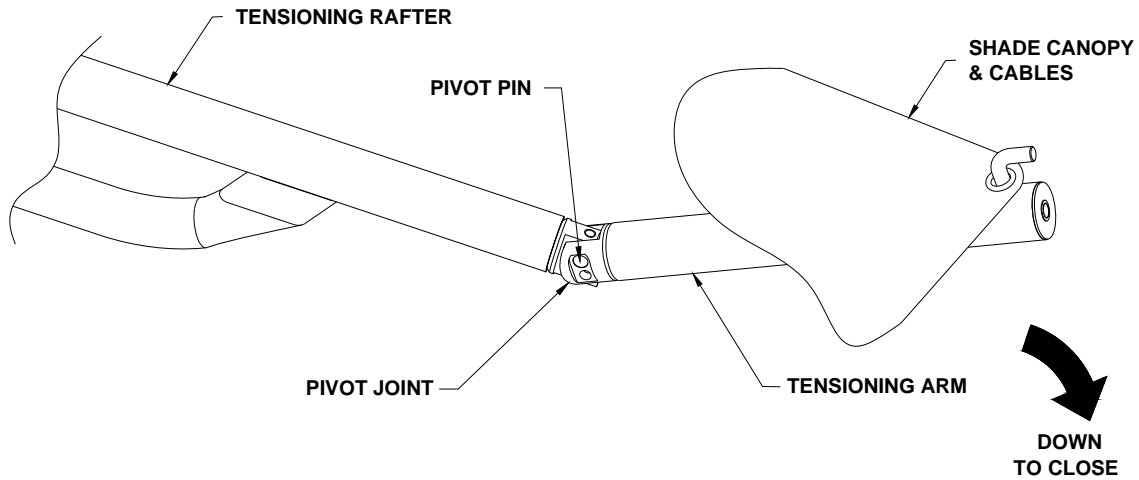


Figure 17: Tensioning Arm in 'Open Position'

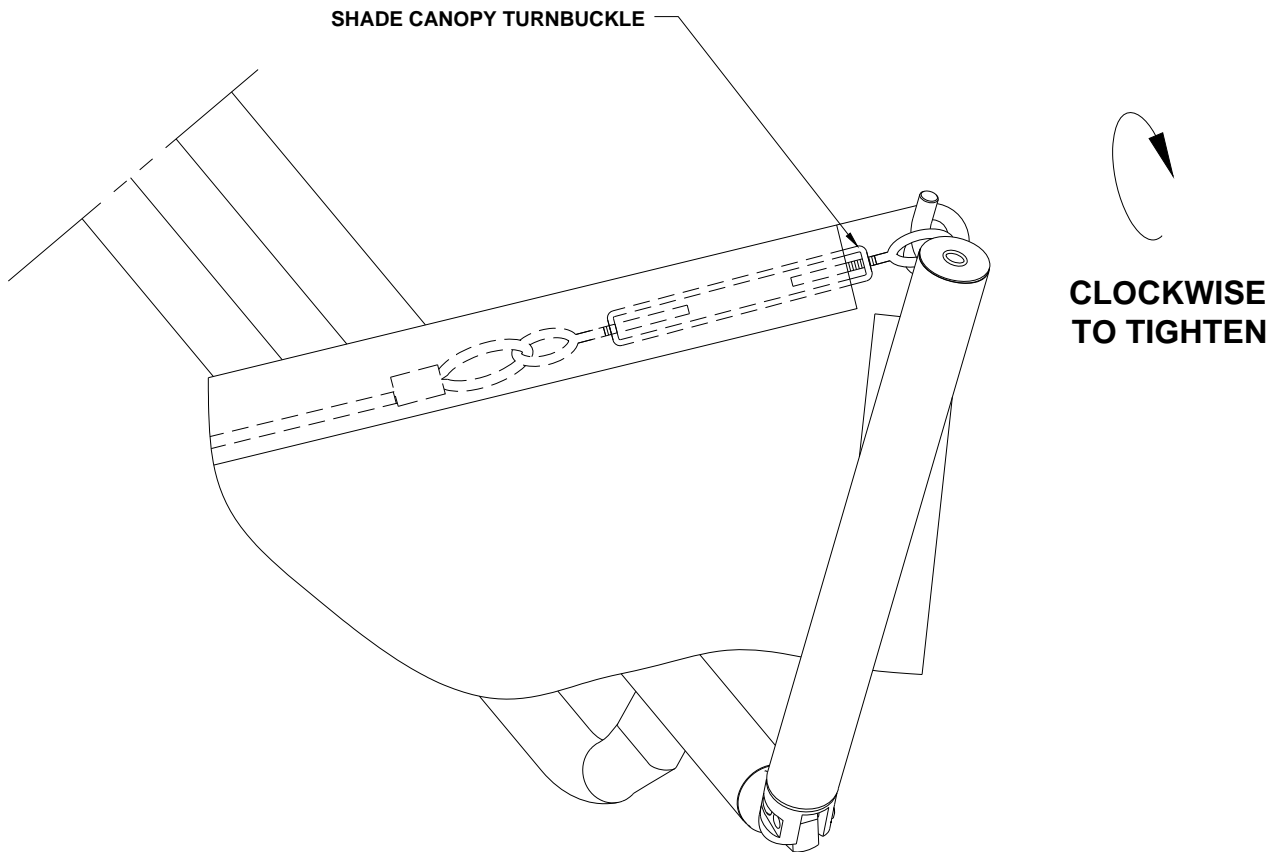


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope **AFTER** flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																			
Visible cracks, bending, warping																			
Accessible sharp edges or points																			
Rusted metal surfaces																			
Rusting of metal and corrosion on aluminum																			
Deformation of open hooks, rings, links, etc.																			
Worn swing hangers and chain																			
Missing or damaged swing seats																			
Heavy swing seats with sharp corners or edges																			
Broken supports/anchors																			
Jagged, exposed or cracked and loose concrete footing																			
Inadequate surfacing material under equipment																			
Exposed ends of pipe. Missing caps or plugs																			
Protruding bolt ends																			
Chipped or peeling paint																			
Cuts or fraying in rope with exposed steel reinforcement strands																			
Vandalism, broken glass, trash, etc.																			
Broken or missing rails, steps, rungs, seats																			
Loose or missing hardware																			
Pinch or crush points																			
Moving components, etc.																			
Lack of lubrication on moving parts																			
Worn bearings																			
Poor drainage areas at footings, slide exits, etc																			
Vandalized or cracked PVC coating																			

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

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For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnnect[®] clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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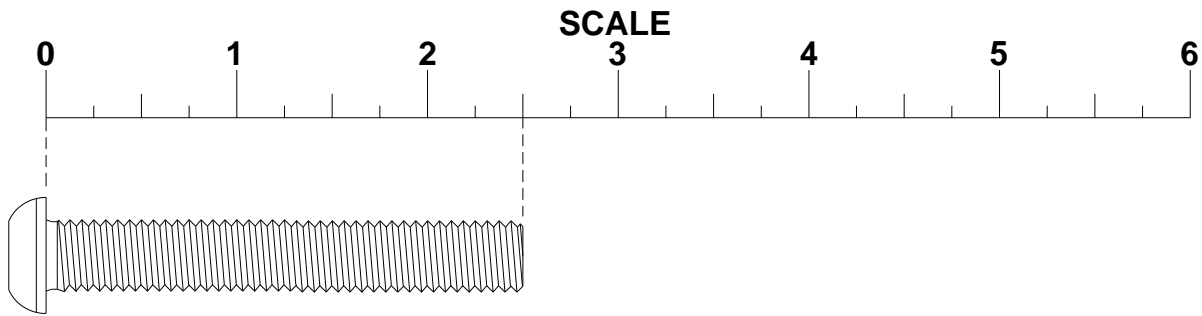
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APPENDIX

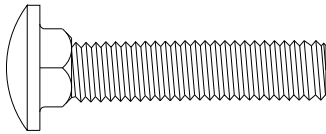
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BCI BURKE HARDWARE

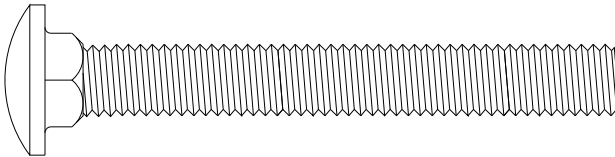


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

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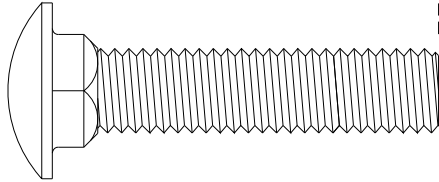
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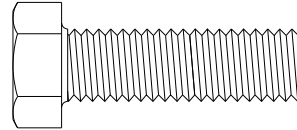
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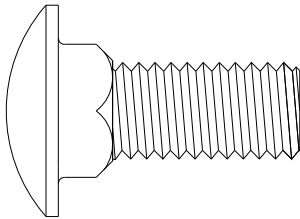
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



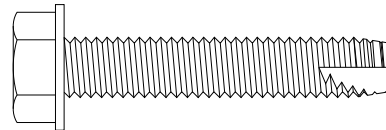
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4" SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4" SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

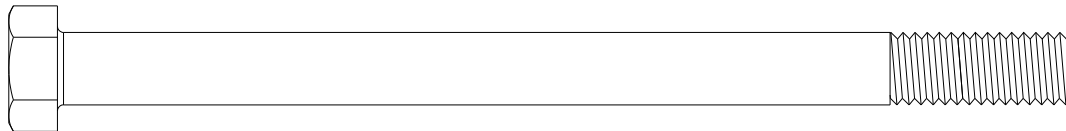


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

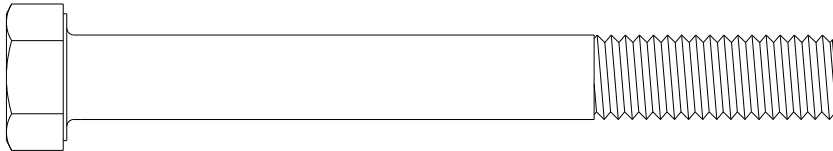
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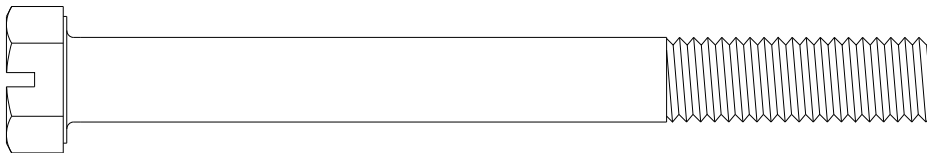
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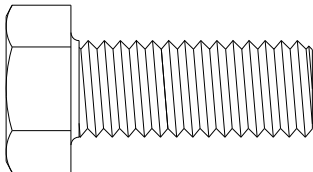
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

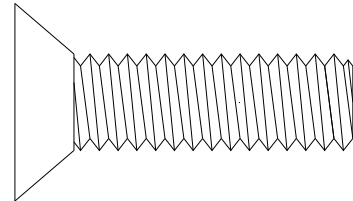


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

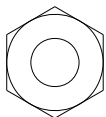
001-0186 - 3/8" X 1 1/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



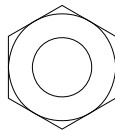
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



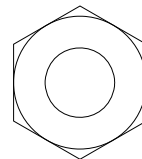
001-0139 - 1/2" X 1 3/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



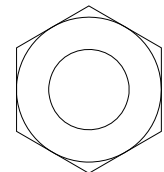
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

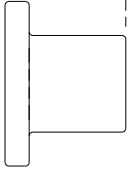
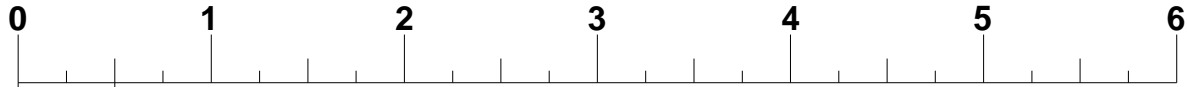
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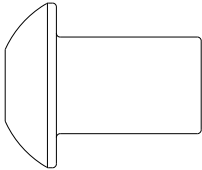
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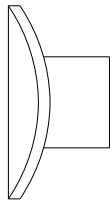
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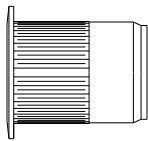
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



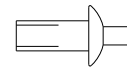
002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



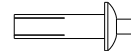
002-0042 - 3/8" NUT INSERT



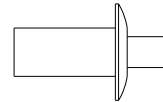
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



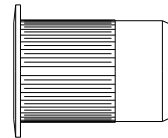
019-0010 - 5/32" X 3/8" DRIVE RIVET



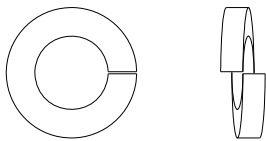
019-0016 - 1/8" X 15/32" DRIVE RIVET



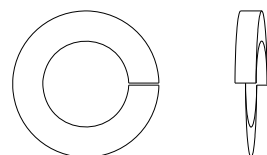
019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0022 - 3/8" LOCK WASHER



021-0027 - 7/16" LOCK WASHER

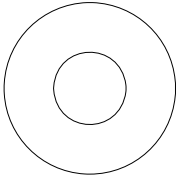
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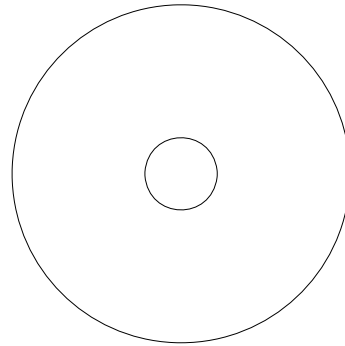
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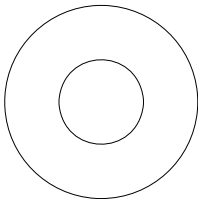
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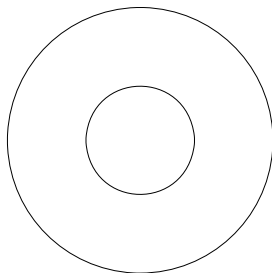
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



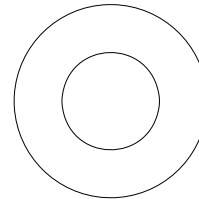
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



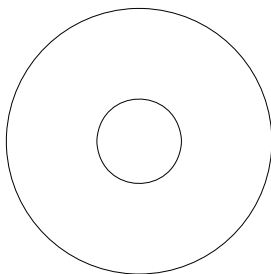
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



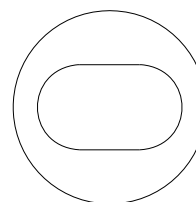
021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

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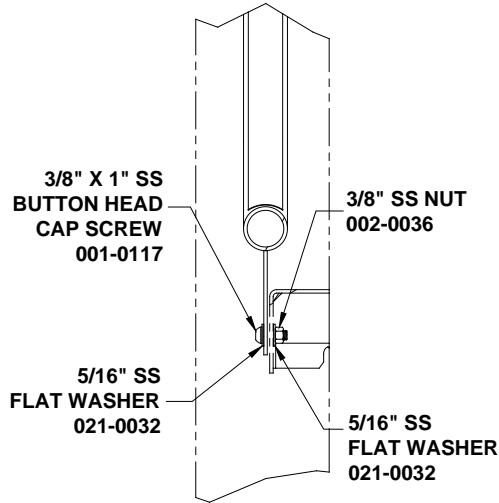
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Installation Instructions

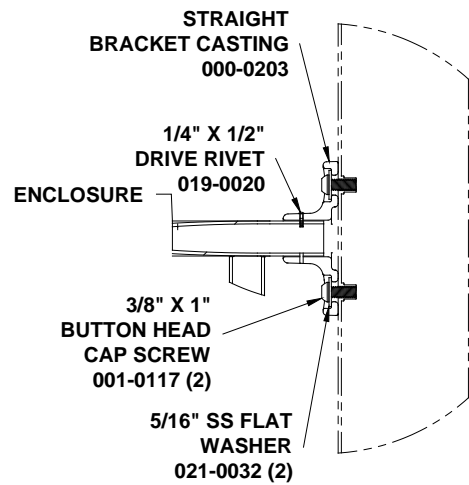
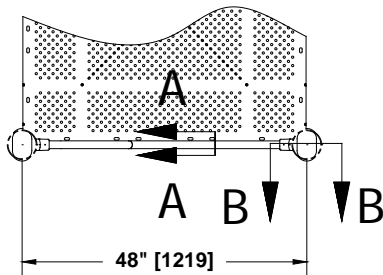
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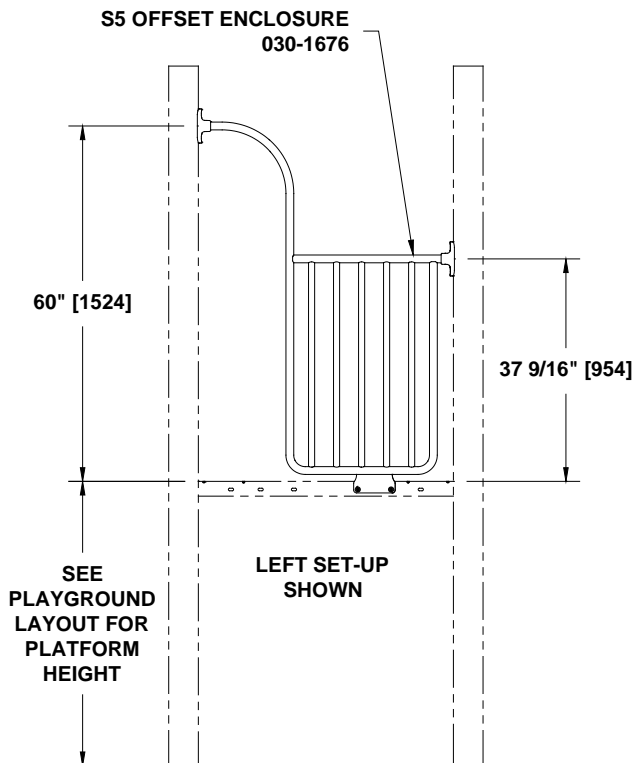
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SECTION A-A
(2 PLACES)



SECTION B-B
(2 PLACES)



270-0001 OFFSET ENCLOSURE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1676	S5 OFFSET ENCLOSURE	1
036-1284	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 OFFSET ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and 10 GA sheet steel. Finished with a baked on powder coating.

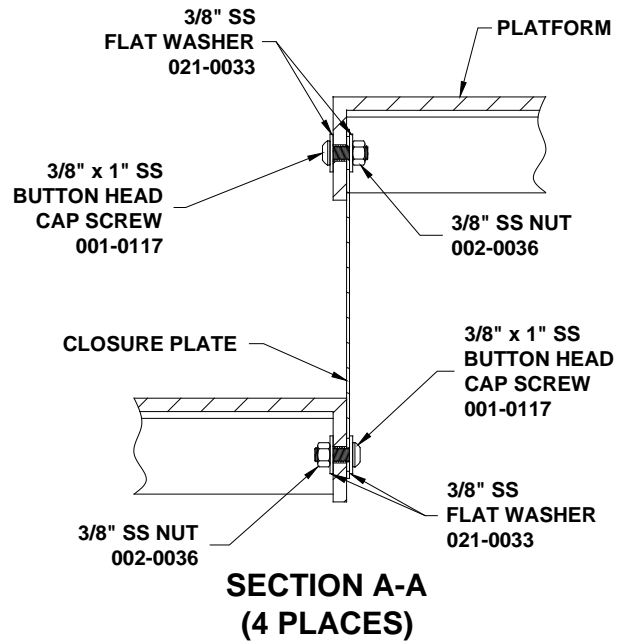
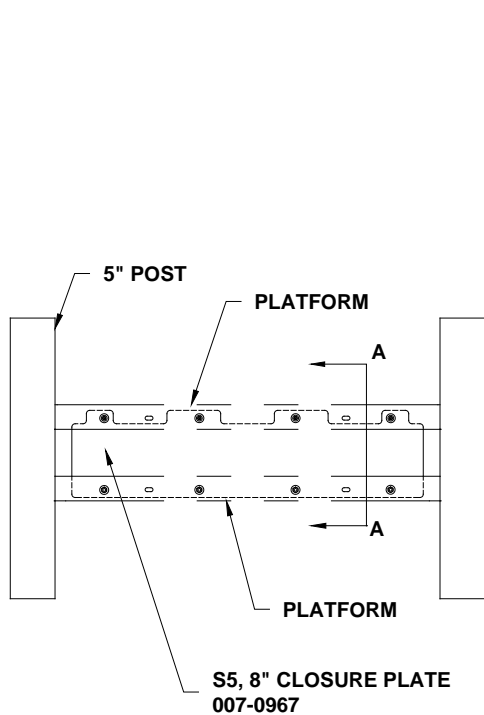
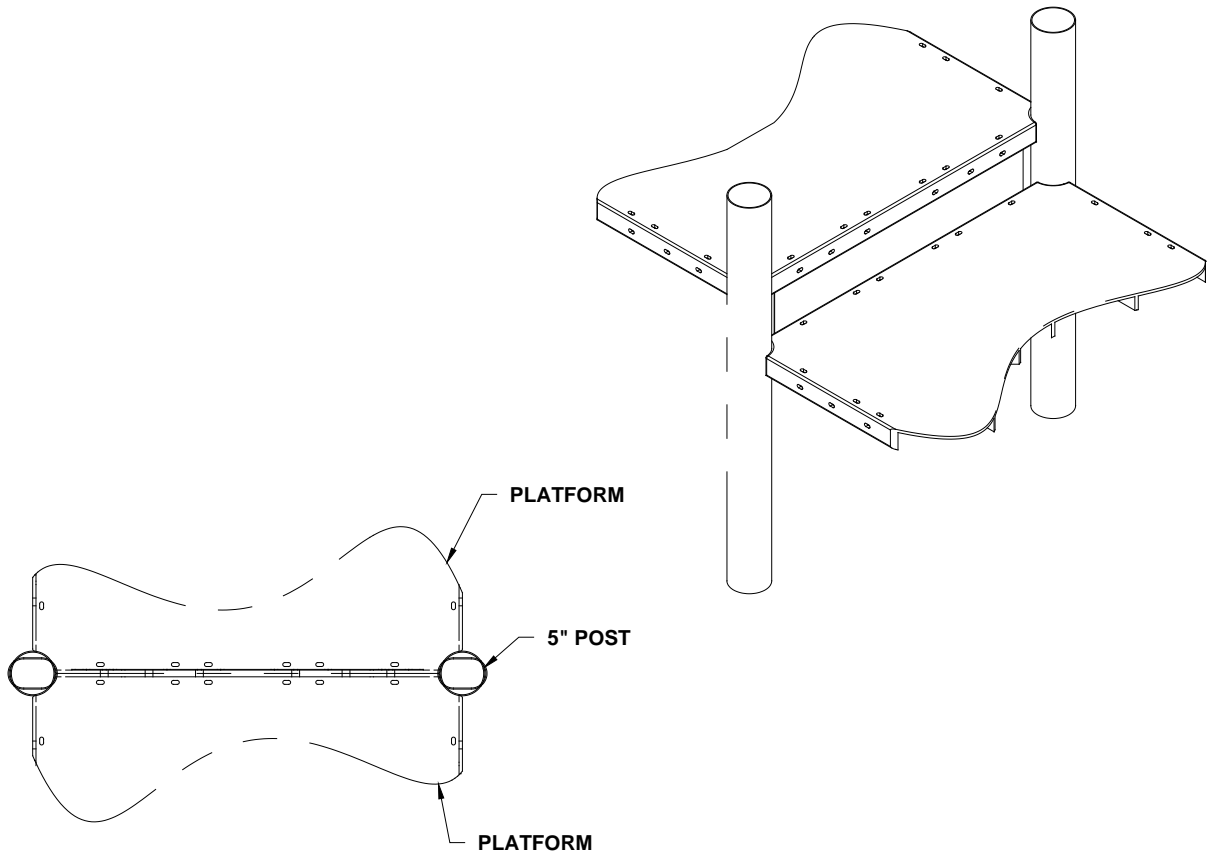
HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 30 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

1. Locate holes for BRACKETS CASTINGS to 5" O.D. posts as per dimensions shown.
2. Insert bracket castings onto ends of OFFSET ENCLOSURE and attach bracket castings to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
3. Attach bottom of pipe wall to platform using 3/8" x 1" SS button head cap screws, 5/16" SS washers and 3/8" SS nuts. Tighten all hardware. See SECTION A-A.
4. Drill 1/4" diameter holes through pilot hole in casting and into enclosure. See SECTION B-B.
5. Drive rivets flush with brackets.
6. Tighten All Hardware.



270-0050 8" CLOSURE PLATE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
007-0967	S5 8" CLOSURE PLATE	1
036-1380	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

S5 8" CLOSURE PLATE: 14 GA galvanized steel plate finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, nuts and washers.

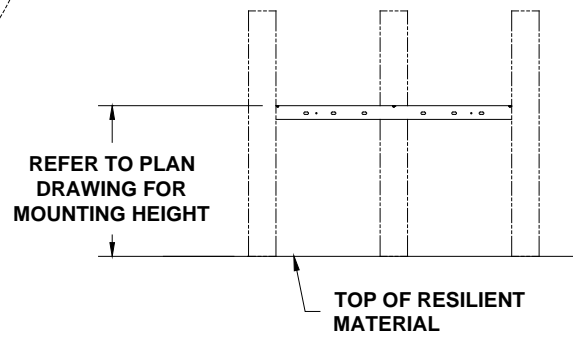
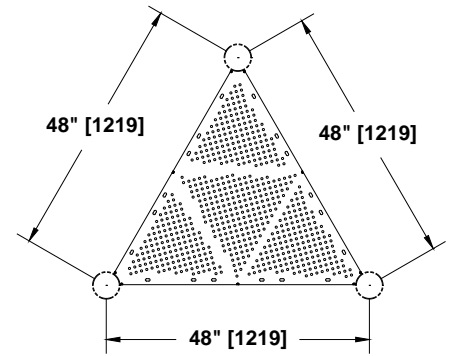
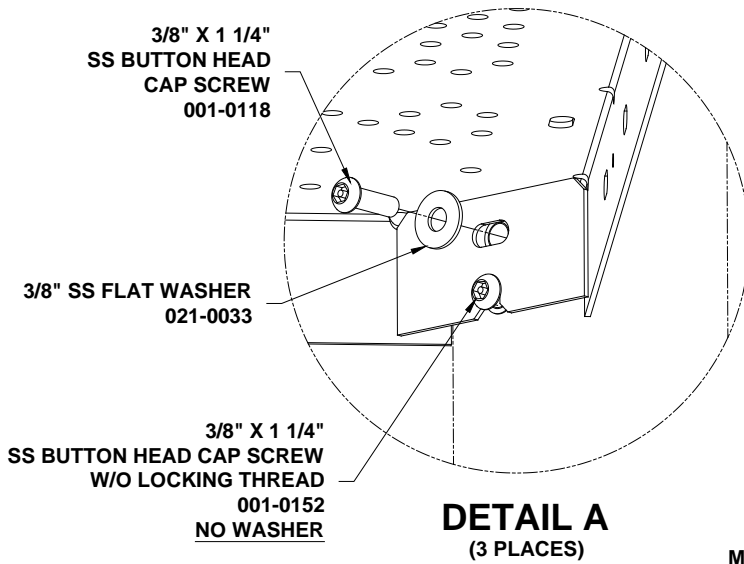
SHIPPING WEIGHT: 10 LBS.

INSTALLATION INSTRUCTIONS

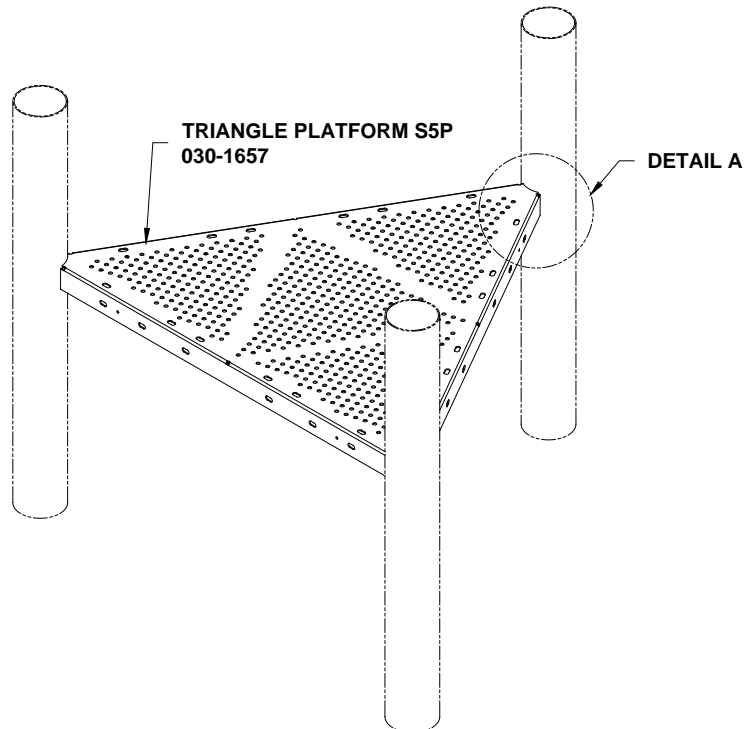
NOTE: PVC coating may need to be removed from mounting holes of platforms before installation.

1. Attach CLOSURE PLATE to upper and lower platform using 3/8" x 3/4"SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. See SECTION A-A.
2. Tighten hardware.

270-0050.doc Description: 8" CLOSURE PLATE
REV: 03 PCN: 18-0082 3/8/2018



ELEVATION VIEW



**270-0129
TRIANGLE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1657	TRIANGLE PLATFORM S5P	1
036-1100	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TRIANGLE PLATFORM S5P: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

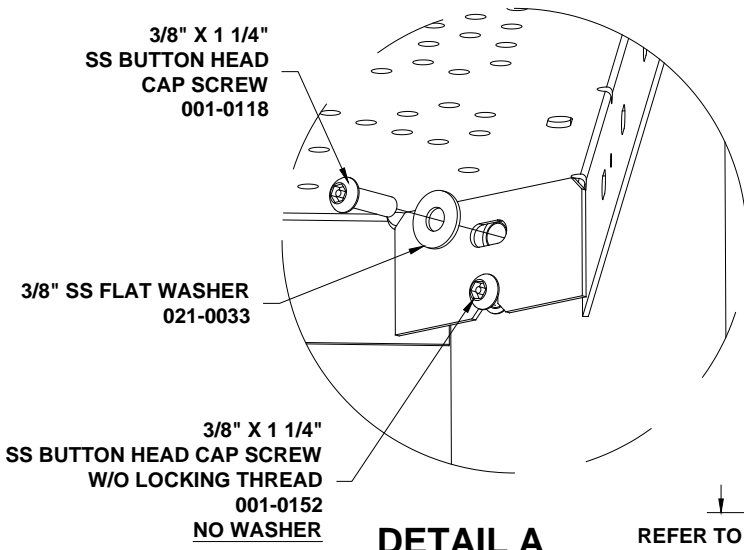
SHIPPING WEIGHT: 48 LBS.

INSTALLATION INSTRUCTIONS

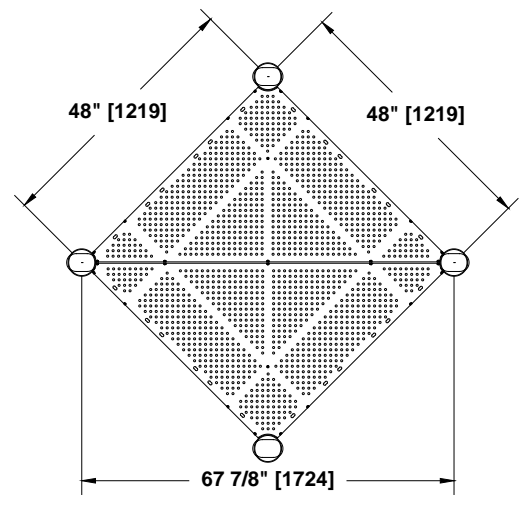
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the three corners of the TRIANGLE PLATFORM S5P on the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Tighten all hardware.
7. Pour concrete. Let set for two to three days.
8. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



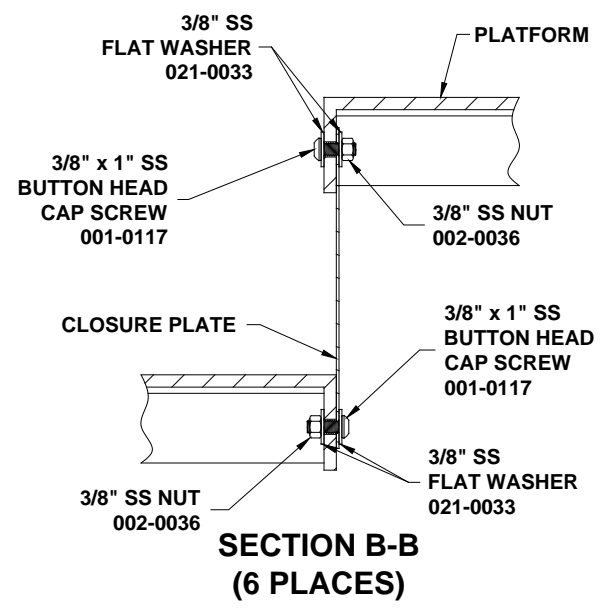
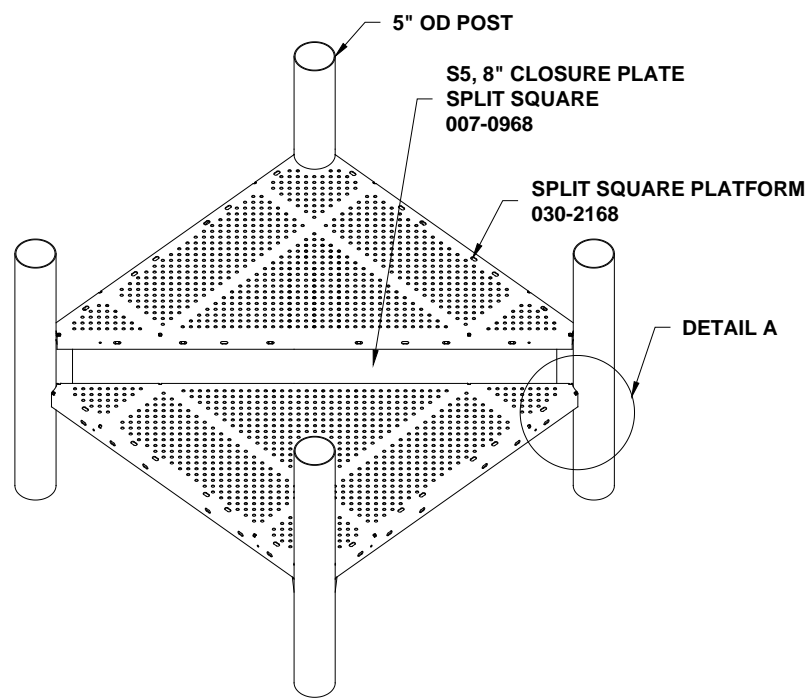
**DETAIL A
(6 PLACES)**



ELEVATION VIEW

REFER TO PLAN
DRAWING FOR
MOUNTING HEIGHT

TOP OF RESILIENT
MATERIAL



**270-0136
SPLIT SQUARE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
007-0968	S5, 8" CLOSURE PLATE, SPLIT SQUARE	1
030-2168	SPLIT SQUARE PLATFORM	2
036-1107	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

S5, 8" CLOSURE PLATE, SPLIT SQUARE: 14 GA galvanized steel plate finished with a baked on powder coating.

SPLIT SQUARE PLATFORM: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

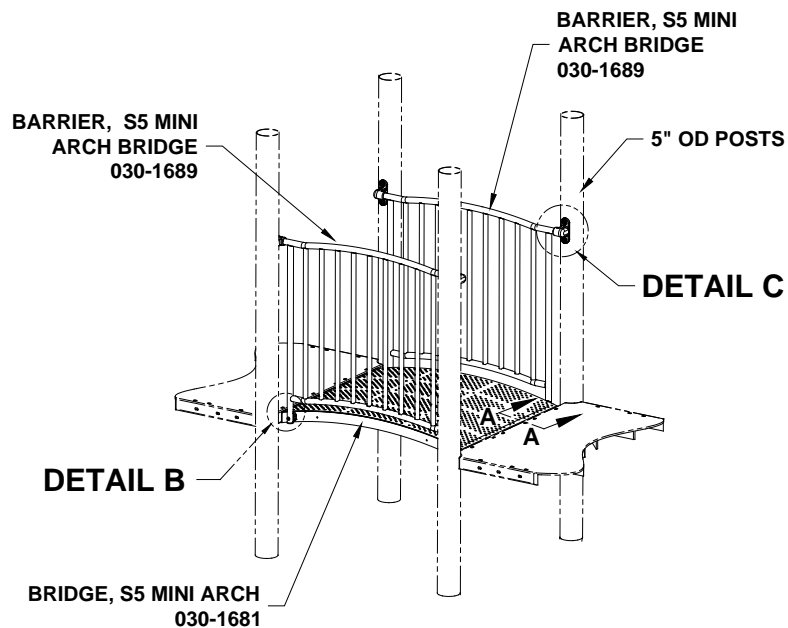
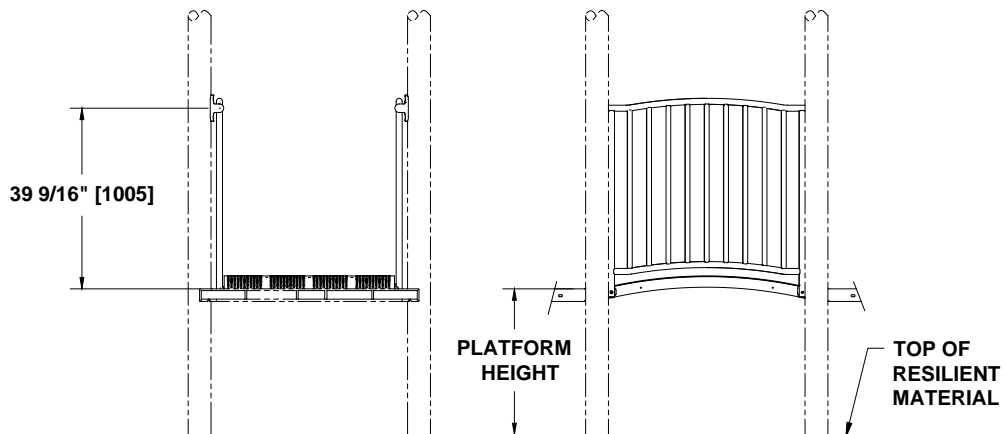
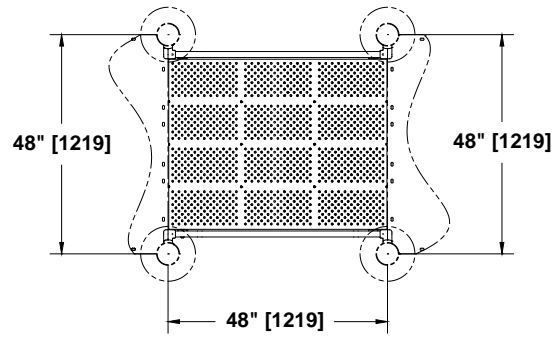
SHIPPING WEIGHT: 103 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

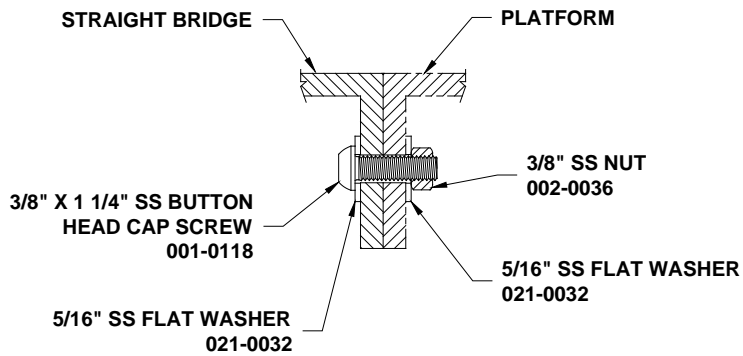
NOTE: Do not tighten hardware until instructed to do so.

1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the three corners of the SPLIT SQUARE PLATFORM onto the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Attach CLOSURE PLATE to platforms using 3/8" x 1" SS button head cap screws, 3/8" washers, and 3/8" nuts. See SECTION B-B.
7. Tighten all hardware.
8. Pour concrete. Let set for two to three days.
9. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

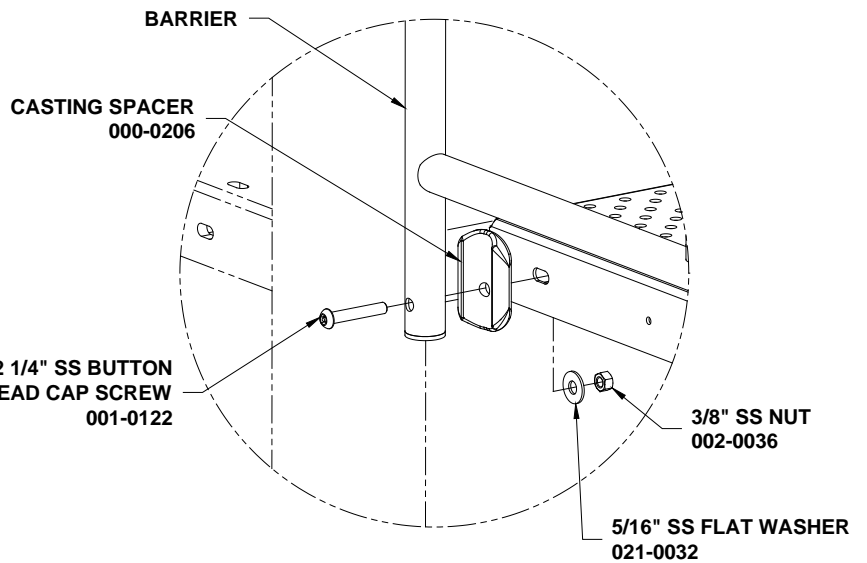


270-0190

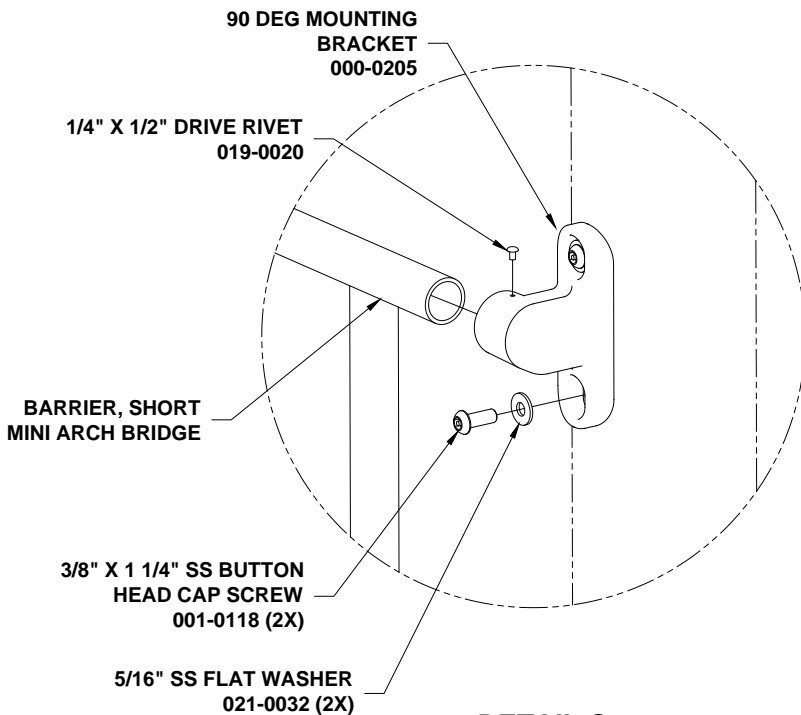
MINI ARCH BRIDGE W/BARRIERS



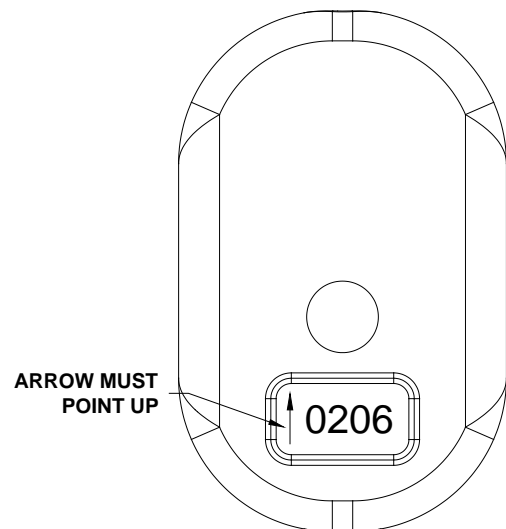
SECTION A-A
(8 PLACES)



DETAIL B
(4 PLACES)



DETAIL C
(4 PLACES)



BACK SIDE OF CASTING SPACER
VIEW D

270-0190
MINI ARCH BRIDGE W/BARRIERS

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0205	CASTING, 90 DEGREE BRACKET	4
000-0206	CASTING, SPACER (ONE HOLE)	4
030-1681	BRIDGE, S5 MINI ARCH	1
030-1689	BARRIER, S5 MINI ARCH BRIDGE	2
036-1111	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, 90 DEGREE BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SPACER (ONE HOLE): 356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

BRIDGE, S5 MINI ARCH: One piece all welded construction consisting of 12 GA surfaces and gussets. PVC coated after fabrication.

BARRIER, S5 MINI ARCH BRIDGE: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 14 GA galvanized steel tubing, and 10 GA galvanized steel plate. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 181 LBS.

INSTALLATION INSTRUCTIONS

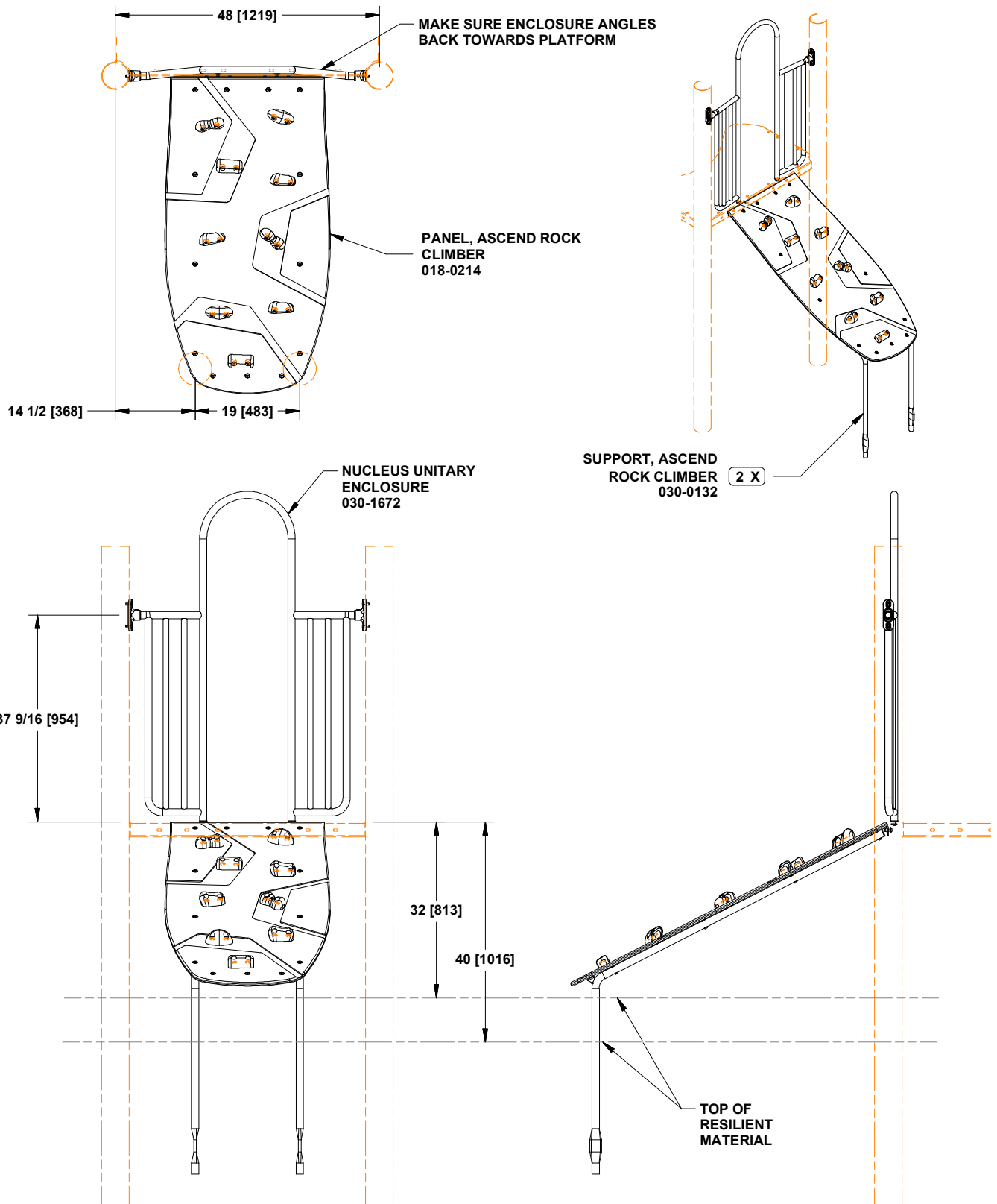
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

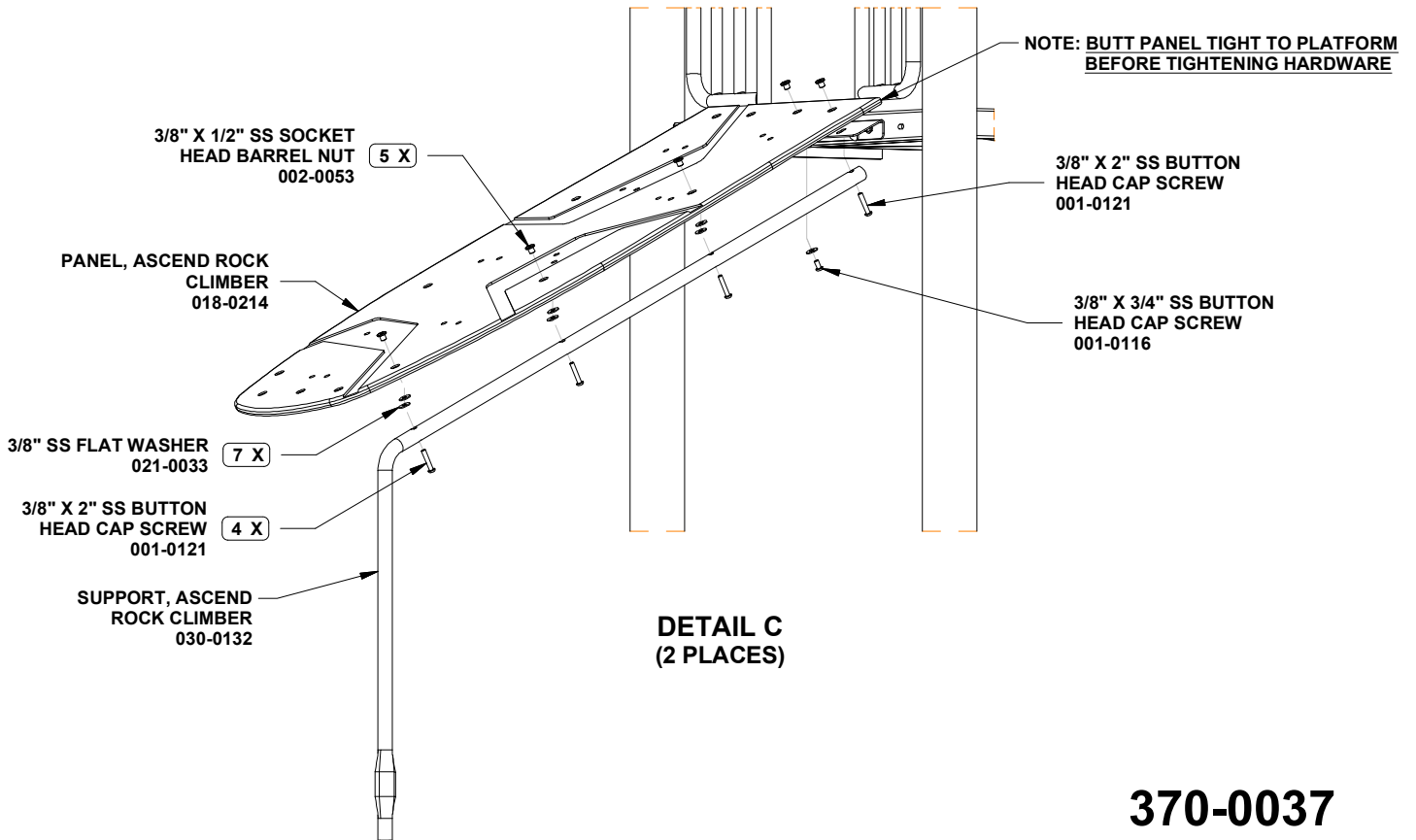
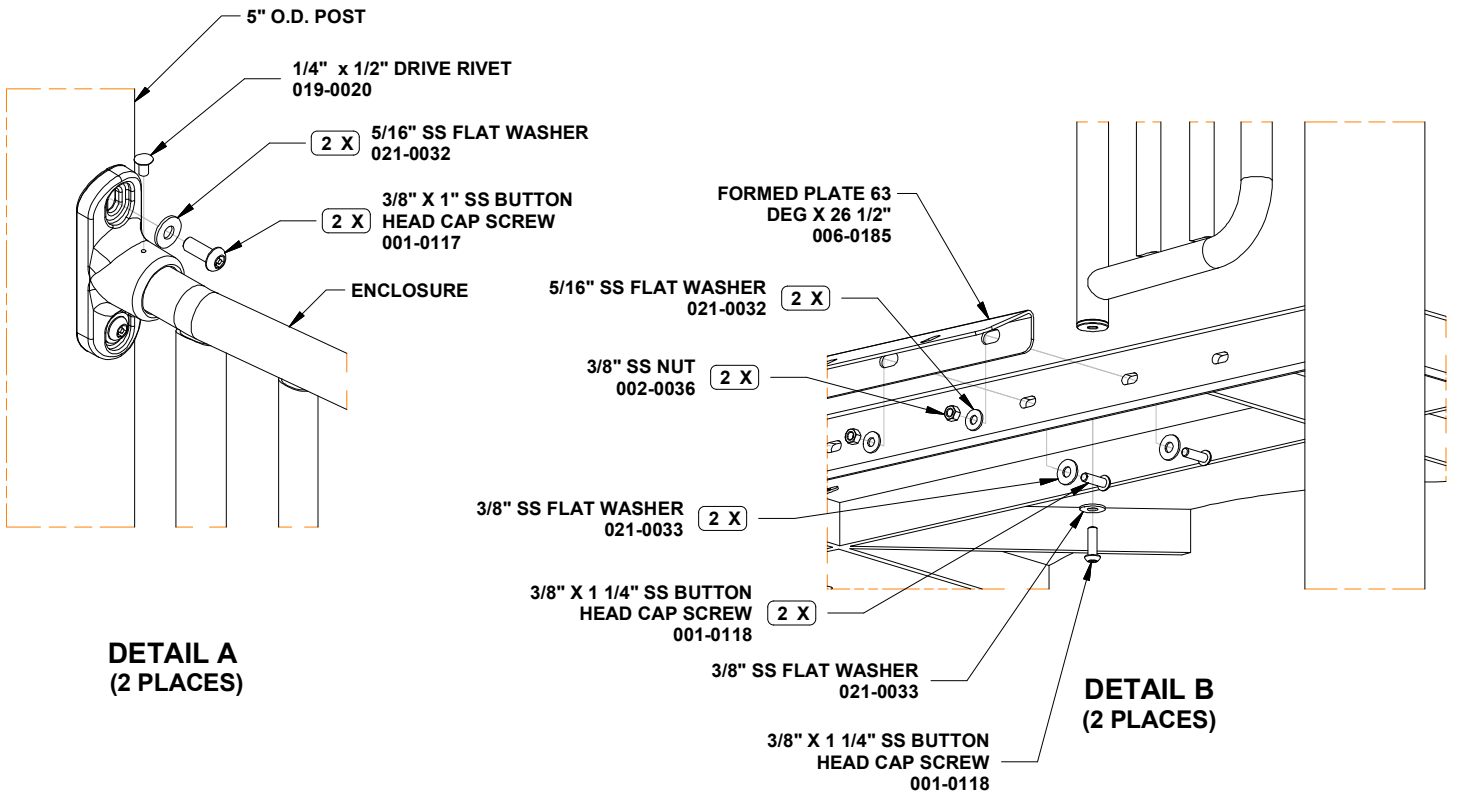
1. Attach MINI ARCH BRIDGE to platforms using 3/8" x 1 1/4" SS button head cap screws, 5/16" SS flat washers and 3/8" SS nuts. See SECTION A-A.
2. Bridge should be level and flush to platforms. Tighten hardware.
3. Attach MINI ARCH BRIDGE BARRIERS to bridge using SPACERS, 3/8" x 2 1/4" SS button head cap screws, 5/16" SS flat washers and 3/8" SS nuts. See DETAIL B

NOTE: Arrow on back side of CASTING SPACER must point up. See VIEW D.

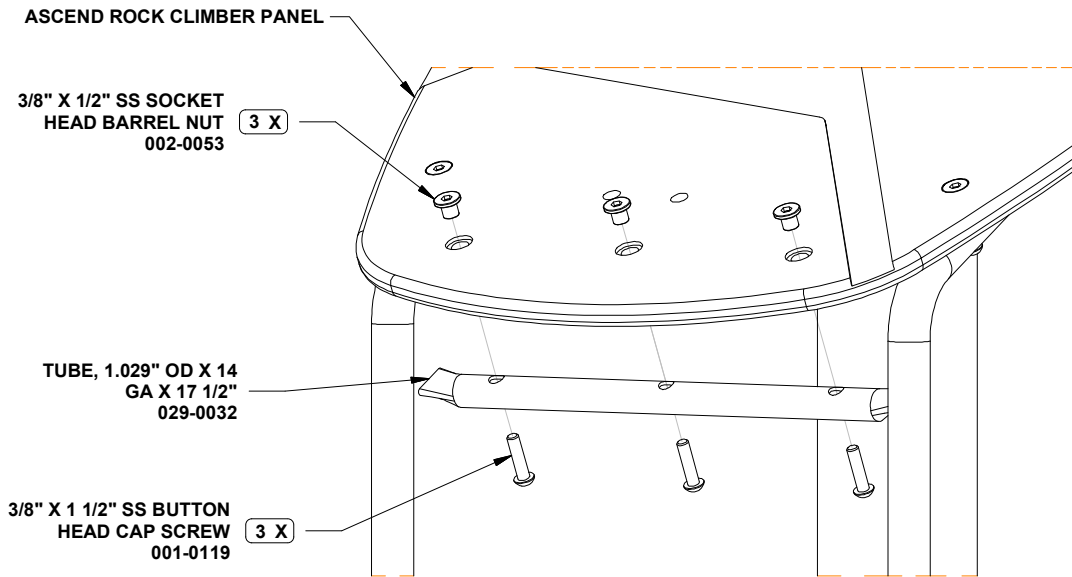
4. Place 90 DEG 1.315" OD CASTING BRACKET on to end of top tube of barrier and attach bracket to post using 3/8" x 1" SS button head cap screws and 5/16" SS flat washers. See DETAIL C
5. Tighten all hardware
6. Drill 1/4" diameter hole through pilot dimples of 90 Deg casting brackets. See DETAIL C
4. Insert 1/4" x 1/2" DRIVE RIVETS and drive flush with brackets.
5. Spray drive rivet locations with touch-up paint.
6. Pour concrete. Let set for two to three days.
7. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



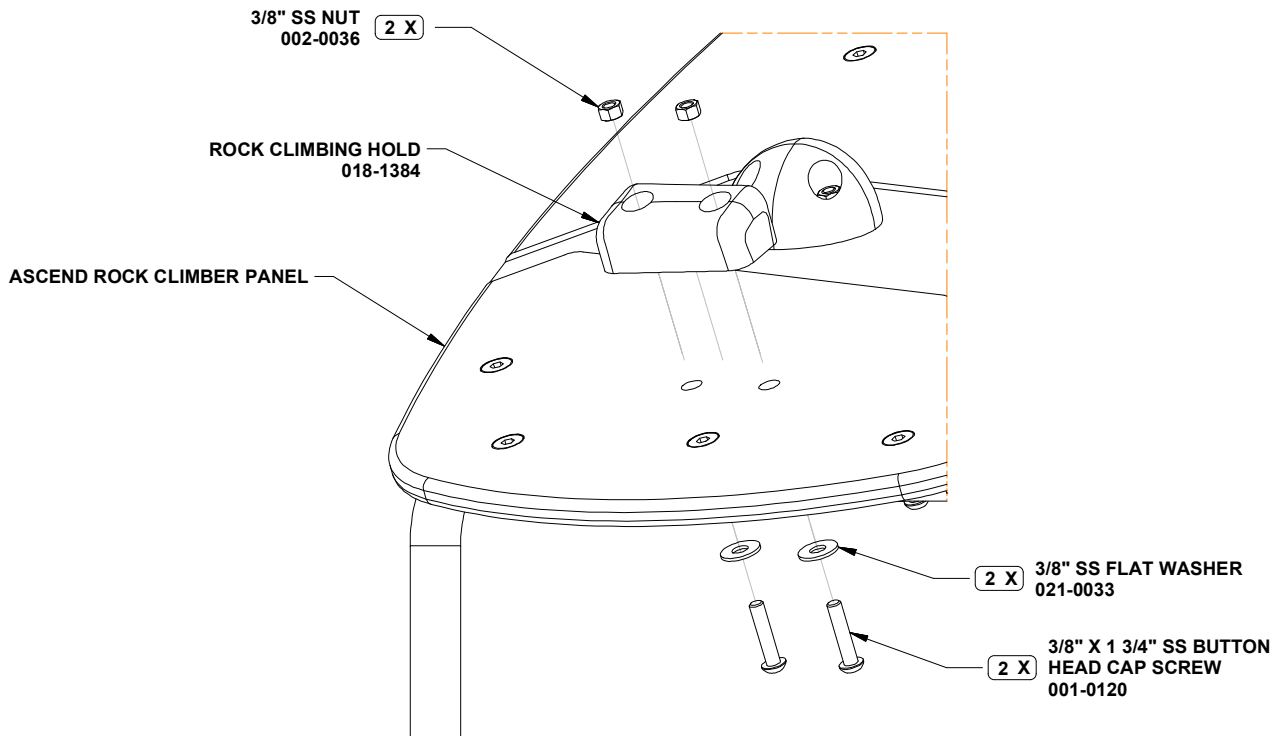
370-0037 ASCEND ROCK CLIMBER, 32"-40"



370-0037 ASCEND ROCK CLIMBER, 32"-40"



DETAIL D



**DETAIL E
(9 PLACES)**

370-0037 ASCEND ROCK CLIMBER, 32"-40"

PARTS LIST

PART NO.	DESCRIPTION	QTY
000-0203	CASTING, STRAIGHT BRACKET	2
006-0185	FORMED PLATE 63 DEG X 26 1/2"	1
018-0214	PANEL, ASCEND ROCK CLIMBER	1
018-1384	ROCK CLIMBING HOLD	9
029-0032	TUBE, 1.029" OD X 14 GA X 17 1/2"	1
030-0132	SUPPORT, ASCEND ROCK CLIMBER	2
030-1672	NUCLEUS UNITARY ENCLOSURE	1
036-0819	HARDWARE PACKAGE	1
036-1471	HARDWARE PACKAGE	1
036-1472	HARDWARE PACKAGE	3
036-1473	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

FORMED PLATE 63 DEG X 26 1/2": 10 GA galvanized steel plate finished with a baked on powder coating.

PANEL, ASCEND ROCK CLIMBER: 3/4" Co-extruded HDPE.

ROCK CLIMBING HOLD: Molded professional grade rock climbing hold with stainless steel washers.

TUBE, 1.029" OD X 14 GA X 17 1/2": Formed from galvanized steel tubing of at least 1.029" OD x 14 GA wall. Finished with a baked on powder coating.

SUPPORT, ASCEND ROCK CLIMBER: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, and 10GA galvanized steel cap. Finished with a baked on powder coating.

NUCLEUS UNITARY ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and HDPE threaded inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE; HARDWARE PACKAGE; HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: Aluminum rivets.

SHIPPING WEIGHT: 117 LBS.

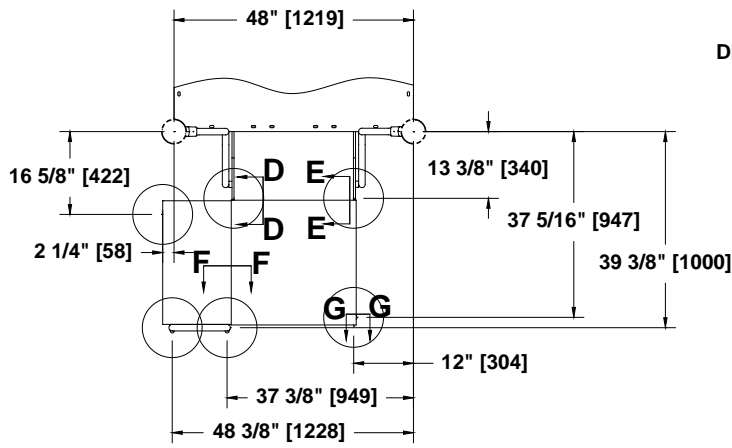
INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes on platform before installing.

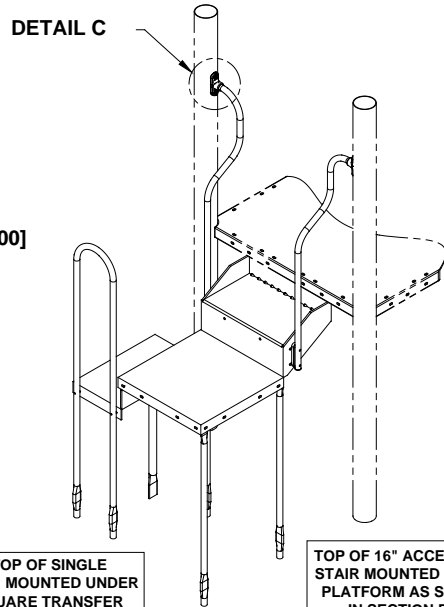
NOTE: Do not tighten hardware until instructed to do so.

NOTE: Make sure enclosure angles back towards platform. (See Top View)

1. Locate and dig footing holes per dimensions. See typical concrete footing details, which are located in the preface of your installation manual.
2. Locate the mounting holes for UNITARY ENCLOSURE on 5" OD posts.
3. Insert a STRAIGHT CASTING BRACKET into each end of the unitary enclosure.
4. Position unitary enclosure with mounting brackets into opening and fasten using hardware specified in DETAIL A.
5. Rotate the unitary enclosure up 90 degrees and install hardware specified in DETAIL A into bottom holes of the mounting brackets.
6. Rotate the unitary enclosure down to align holes with platform. Attach the unitary enclosure to platform using hardware specified in DETAIL B.
7. Drill 1/4" diameter holes through pilot holes of casting brackets and into unitary enclosure. Drive rivets flush with brackets. See DETAIL A.
8. Attach FORMED PLATE 63 DEG X 26 1/2" to platform using hardware specified in DETAIL B.
9. Attach PANEL, ASCEND ROCK CLIMBER and SUPPORTS, ASCEND ROCK CLIMBER to angled plate using hardware specified in DETAIL C, placing climber in footing holes. **Note location of washers to be sandwiched between support tube and panel. Butt panel up tight to deck before tightening hardware.**
10. Attach TUBE, 1.029" OD X 14 GA X 17 1/2" to panel using hardware specified in DETAIL D.
11. Attach ROCK CLIMBING HOLDS to one side of the PANEL using hardware specified in DETAIL E. When complying with Europe Standard EN 1176-1:2017 use 3/8" SS acorn nuts supplied in your hardware extras bag. **NOTE: The assortment of rock climbing hold shapes may vary from the combination depicted.** Distribute the rock climbing holds randomly across the panel.
Tighten all hardware. **NOTE: Do not over tighten.**
12. Block up and plumb.
13. Pour concrete. Allow concrete to set for 2-3 days.
14. **Install resilient surfacing material in accordance with installation guidelines, ASTM standards and CPSC.**

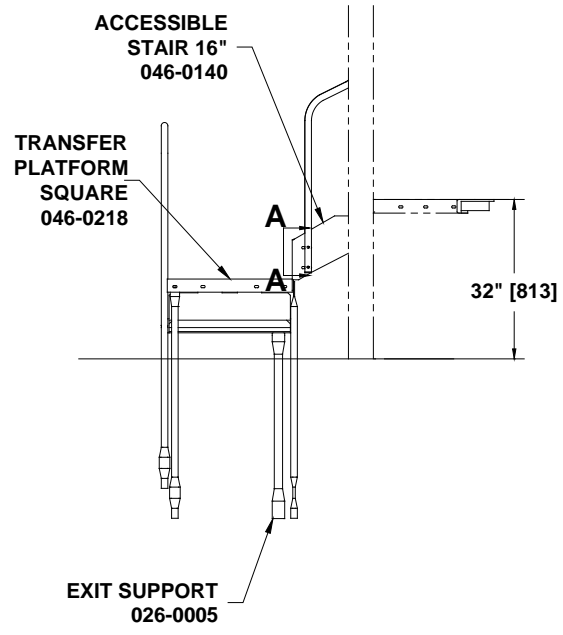
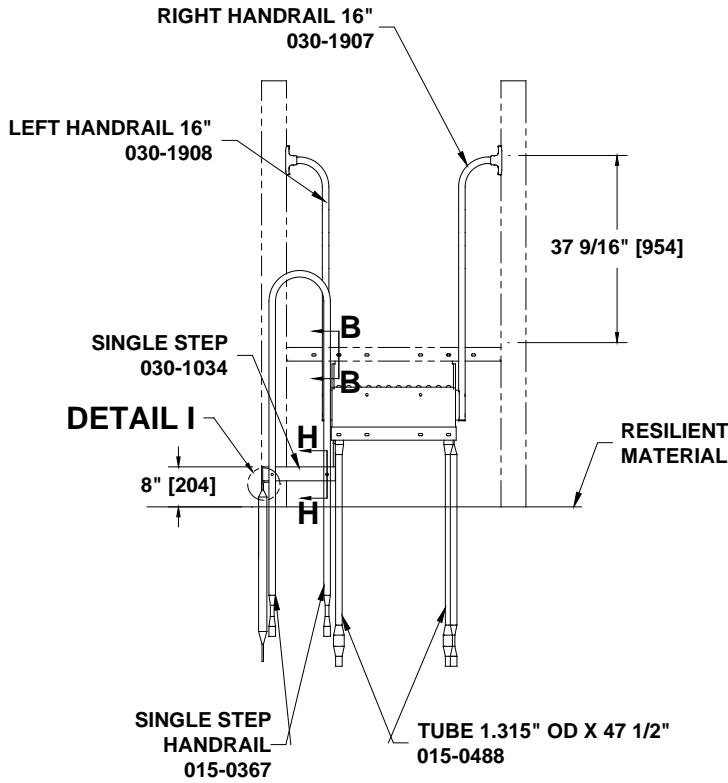


LEFT SETUP SHOWN

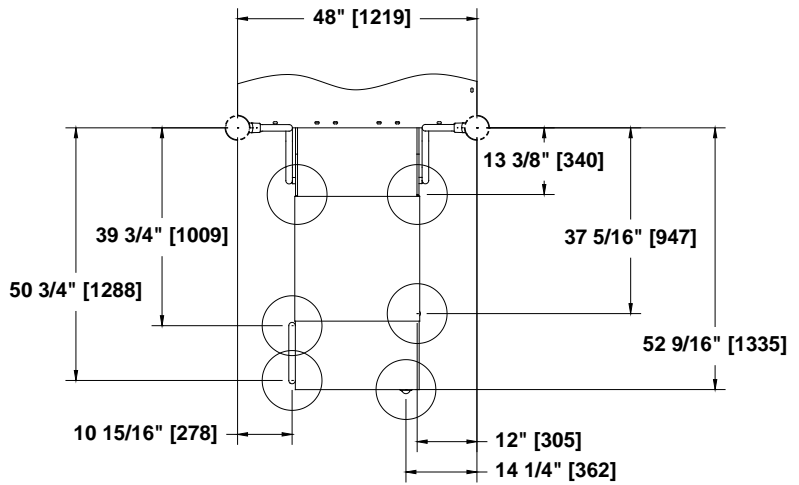


TOP OF SINGLE STEP MOUNTED UNDER SQUARE TRANSFER PLATFORM AS SHOWN IN SECTION F-F

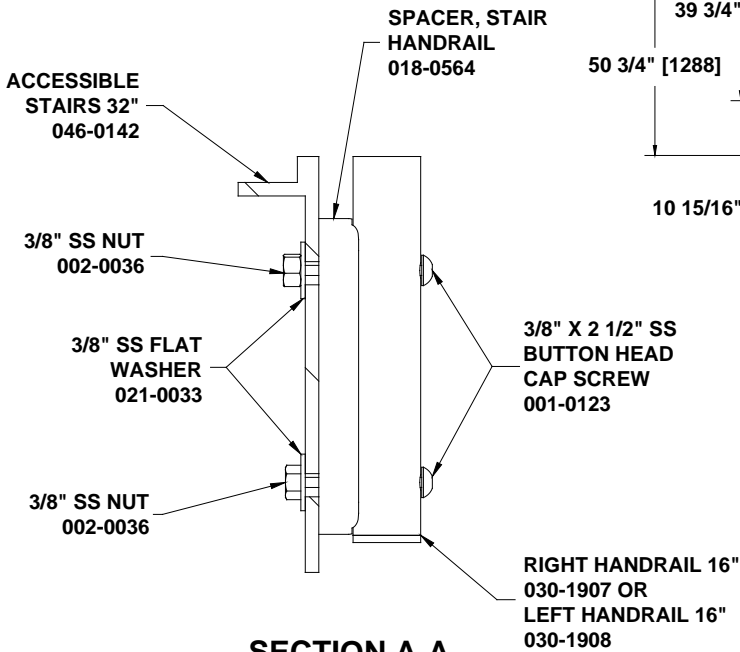
TOP OF 16" ACCESSIBLE STAIR MOUNTED UNDER PLATFORM AS SHOWN IN SECTION B-B



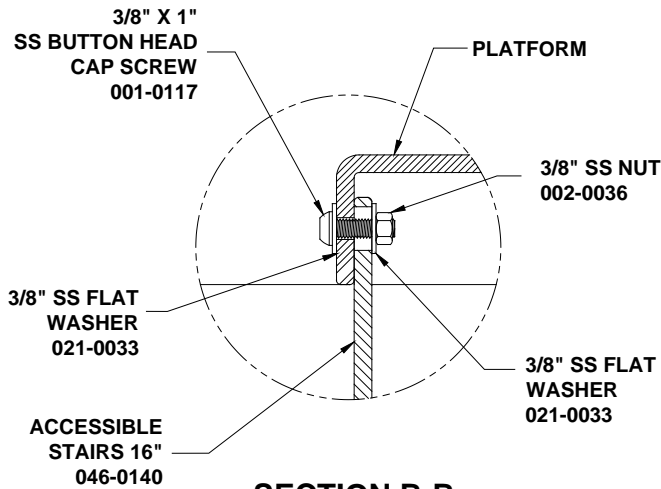
370-0718
TRANSFER STATION, HANDRAIL 32"



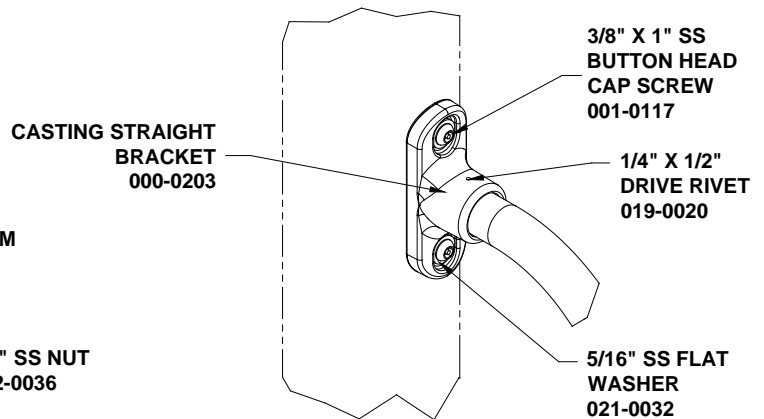
OPTIONAL SETUP



SECTION A-A
2 PLACES

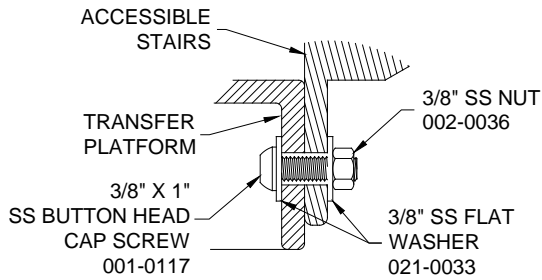


SECTION B-B
2 PLACES

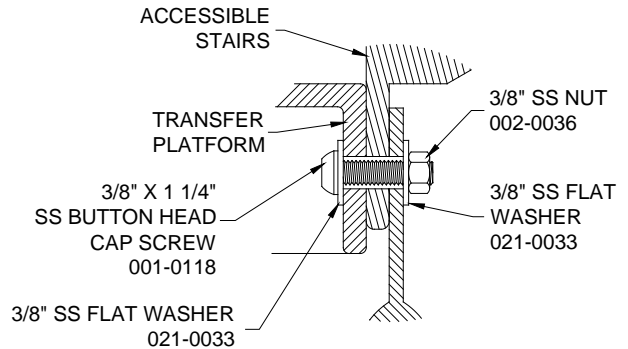


DETAIL C
2 PLACES

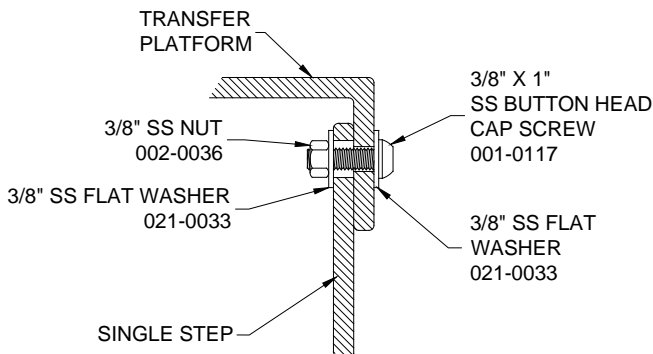
370-0718 TRANSFER STATION, HANDRAIL 32"



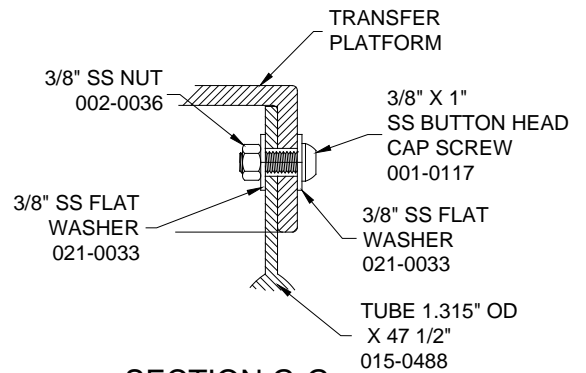
SECTION D-D
2 PLACES



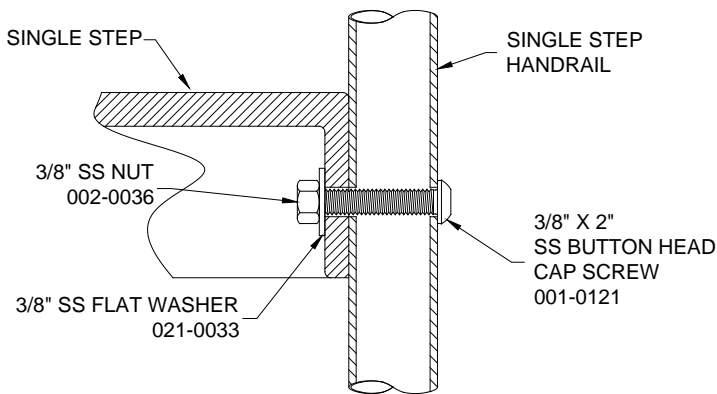
SECTION E-E
2 PLACES



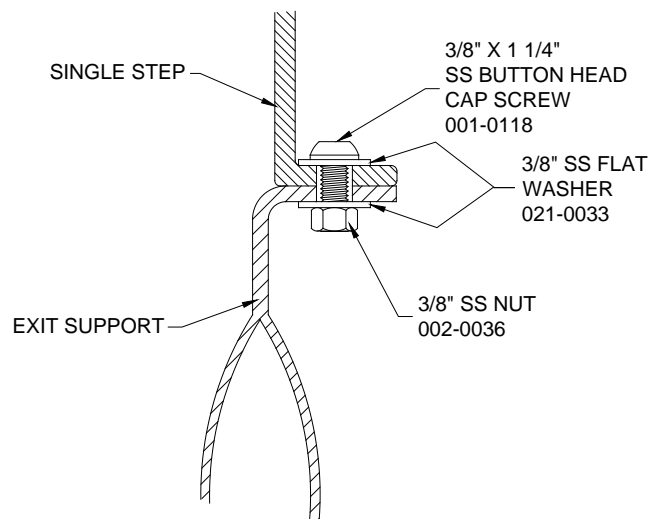
SECTION F-F
2 PLACES



SECTION G-G



SECTION H-H
2 PLACES



DETAIL I

370-0718

TRANSFER STATION, HANRAIL 32"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
015-0367	SINGLE STEP HANDRAIL	1
015-0488	TUBE 1.315" OD X 47 1/2"	3
018-0564	SPACER, STAIR HANDRAIL	2
026-0005	SUPPORT, EXIT, 37.29"	1
030-1034	SINGLE STEP	1
030-1907	RIGHT HANDRAIL 16"	1
030-1908	LEFT HANDRAIL 16"	1
036-1123	HARDWARE PACKAGE	1
046-0140	16" ACCESSIBLE STAIRS	1
046-0218	SQUARE TRANSFER PLATFORM	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

SINGLE STEP HANDRAIL: Formed 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

TUBE 1.315" OD X 47 1/2": 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

SPACER, STAIR HANDRAIL: 3/4" extruded HDPE.

SUPPORT, EXIT, 37.29": 1.660" OD x 13 GA galvanized steel tubing finished with a baked on powder coating.

SINGLE STEP: One piece all welded construction consisting of 12 GA surfaces and gussets. PVC coated after fabrication.

RIGHT HANDRAIL 16"; LEFT HANDRAIL 16": Formed 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

16" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

SQUARE TRANSFER PLATFORM: One piece all welded construction consisting of 12 GA surfaces, gussets, and corners. PVC coated after fabrication.

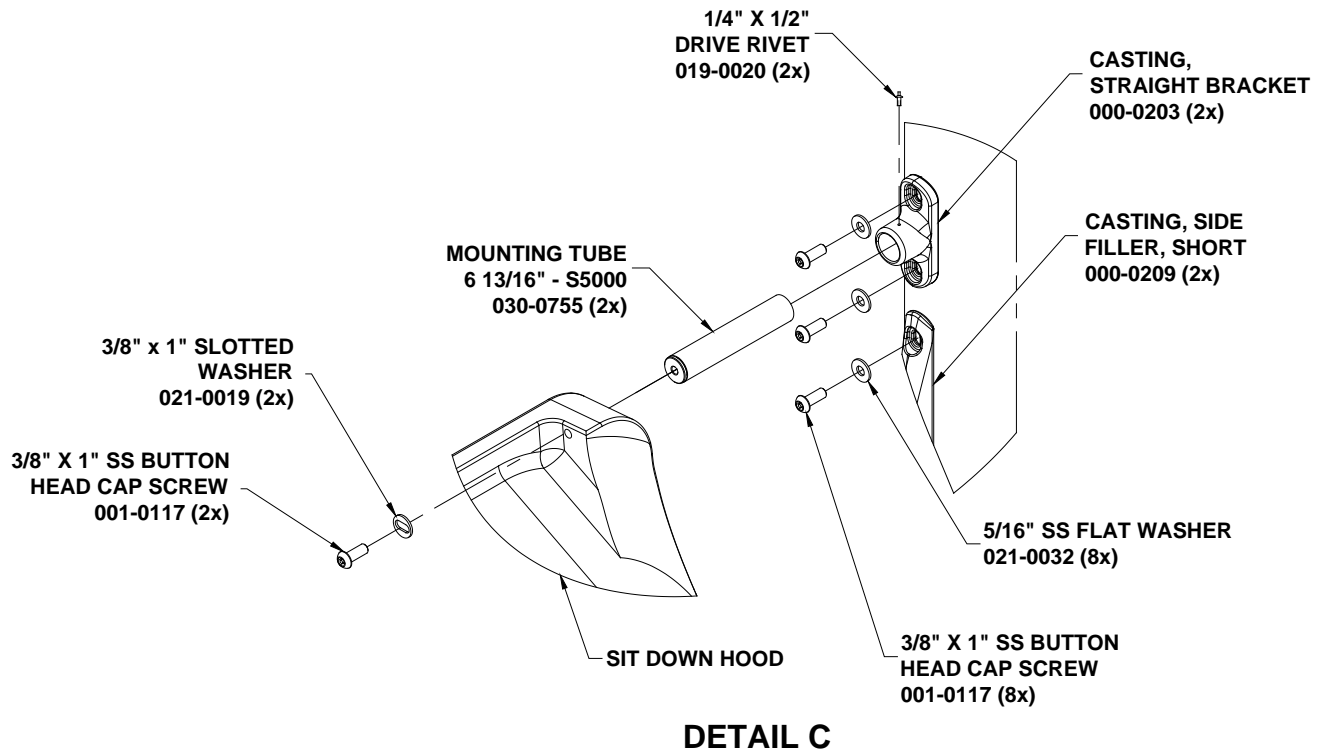
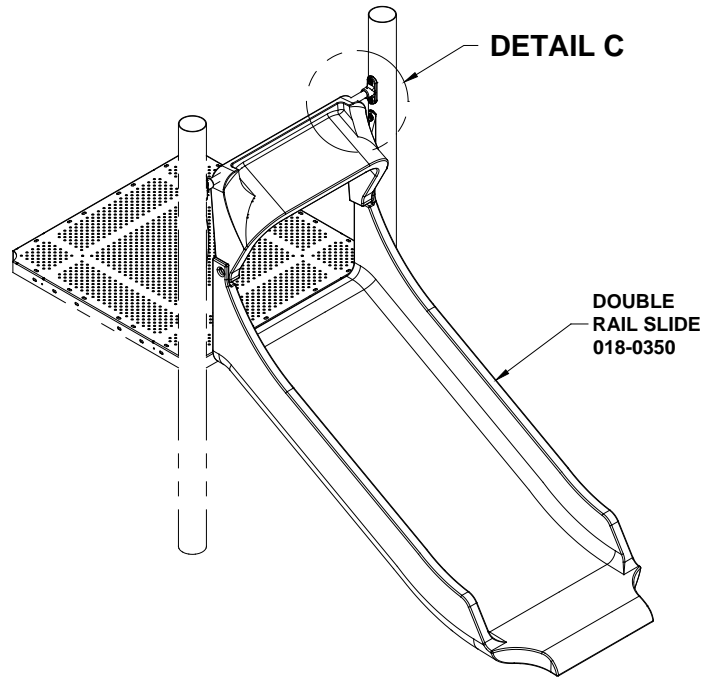
SHIPPING WEIGHT: 163 LBS.

INSTALLATION INSTRUCTIONS

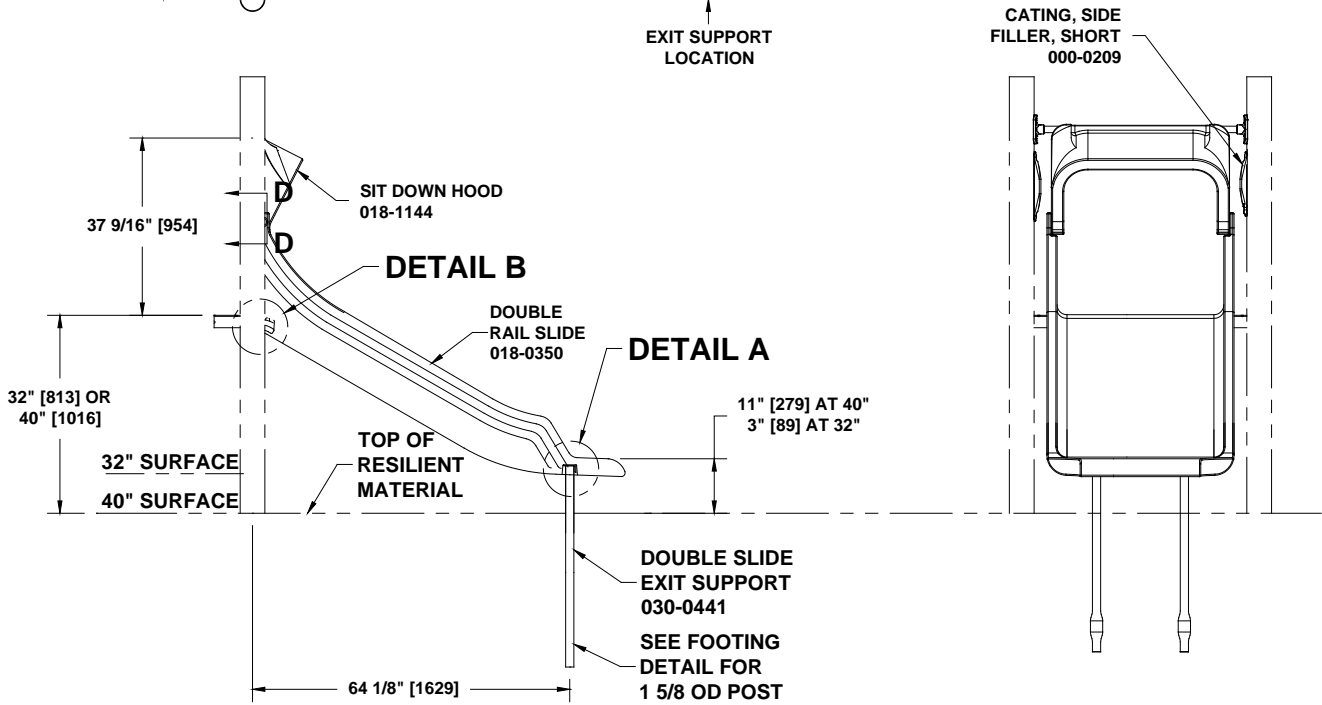
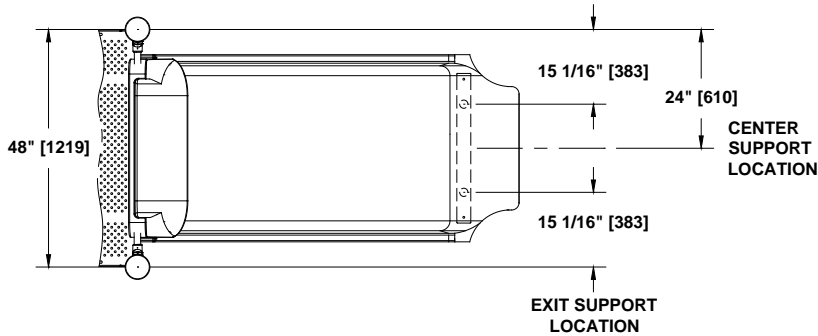
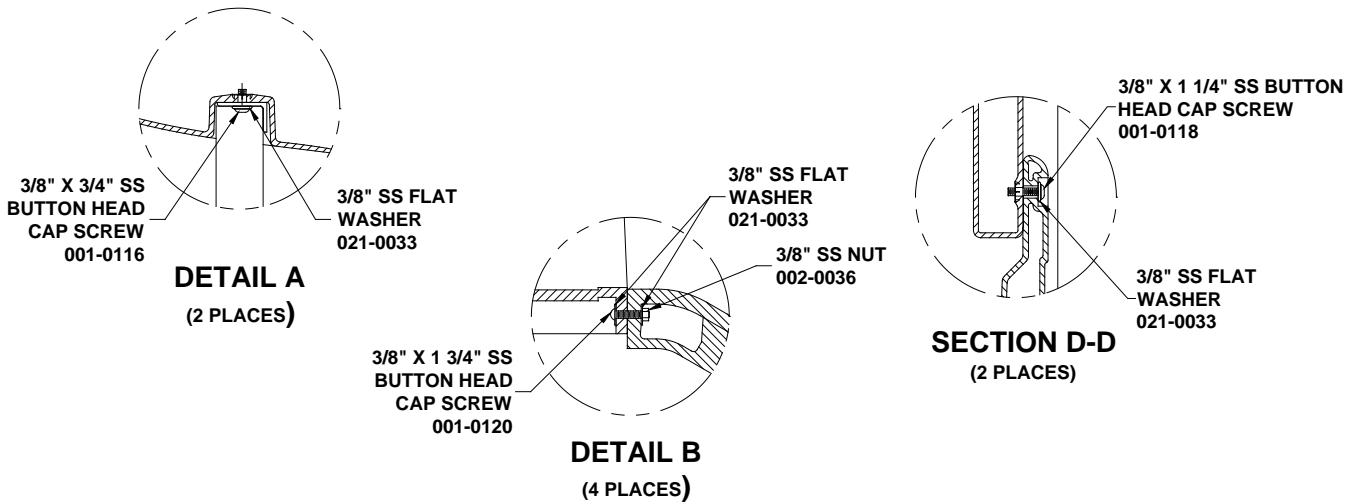
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Install platforms. See appropriate installation instructions.
2. Dig footing holes per dimensions shown. See concrete footing drawing for 1.315" OD and 1.660" OD tubing, which is located in the preface of your installation manual.
3. Attach TUBES and TRANSFER PLATFORM to 16" ACCESSIBLE STAIRS using 3/8" x 1 1/4" SS button head cap screws with tubes, 3/8" x 1" SS button head cap screws without tubes, 3/8" SS nuts and 3/8" SS flat washers. Refer to SECTION D-D and E-E.
4. Attach Tube to Transfer Platform using 3/8" x 1" SS button head cap screw, 3/8" SS nut and 3/8" SS flat washers. Refer to SECTION G-G.
5. Attach SINGLE STEP to TRANSFER PLATFORM using 3/8" x 1" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION F-F.
6. Attach EXIT SUPPORT to Single Step using a 3/8" x 1 1/4" SS button head cap screw, 3/8" SS washers and a 3/8" SS nut. See DETAIL I.
7. Attach SINGLE STEP HANDRAIL to side of Single Step using 3/8" x 2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION H-H. **Note: the heads of the button head cap screws must be on the outside of the step assembly.**
8. Position transfer station assembly into footing holes. Attach Accessible Stair to platform using 3/8" x 1" SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. Do not tighten nuts. See SECTION B-B.
9. Block-up and level transfer station assembly.
10. Attach CASTING STRAIGHT BRACKETS to 5" OD posts using 3/8" X 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
11. Sleeve RIGHT AND LEFT HANDRAILS into brackets. See DETAIL C.
12. Attach right and left handrails to Accessible Stairs using STAIR HANDRAIL SPACER, 3/8" x 2 1/2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. **Note: the head of the button head cap screw must be on the outside of the stair.** See SECTION A-A.
13. Drill 1/4" diameter holes through pilot holes on handrails and into mount brackets. Insert drive rivets and drive flush with handrails. See DETAIL C.
14. Tighten all hardware.
15. Pour concrete and allow concrete to set for 2-3 days.
16. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



470-0435
DOUBLE RAIL SLIDE 32"-40"



470-0435 DOUBLE RAIL SLIDE 32"-40"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
000-0209	CASTING, SIDE FILLER, SHORT	2
018-0350	DOUBLE RAIL SLIDE	1
018-1144	SIT DOWN HOOD	1
030-0441	DOUBLE SLIDE EXIT SUPPORT	1
030-0755	MOUNTING TUBE 6 13/16" - S5000	2
036-1374	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, SHORT: A56 Aluminum. Finished with baked on powder coating.

DOUBLE RAIL SLIDE: Linear, low density, rotationally molded, U.V. stabilized, polyethylene, .250" thick, double wall construction. Molded in 3/8" T-nut inserts and textured surface.

SIT DOWN HOOD: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

DOUBLE SLIDE EXIT SUPPORT: One piece all welded construction consisting of 1.660" OD x 13 GA galvanized steel tubing and 2 1/2" x 1 1/2" x 3/16" HRS angle. Finished with a baked on powder coating.

MOUNTING TUBE 6 13/16" - S5000: One piece all welded construction consisting of a 1.315 OD x .083" wall galvanized tube and a 12L14 steel threaded insert. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

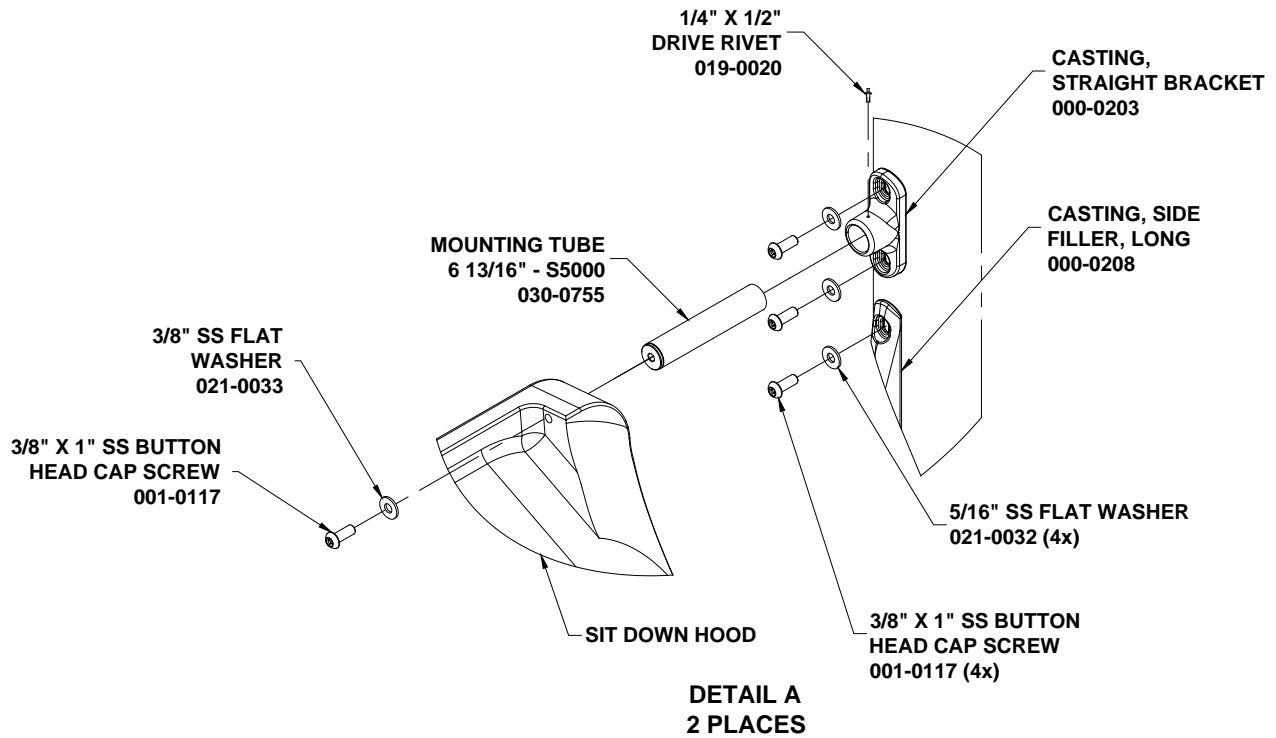
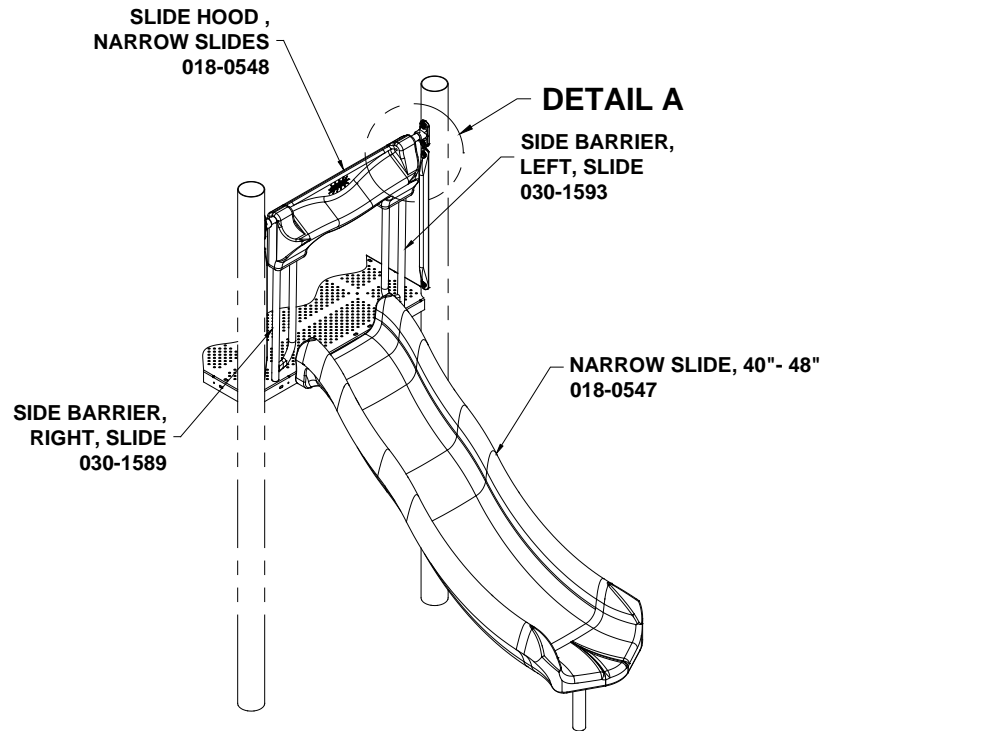
SHIPPING WEIGHT: 127 LBS.

INSTALLATION INSTRUCTIONS

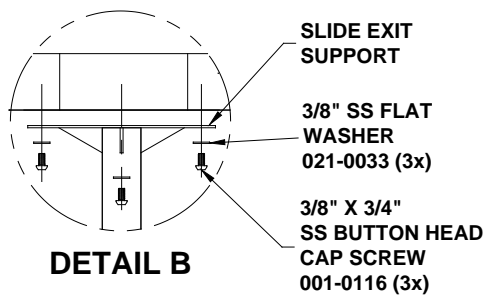
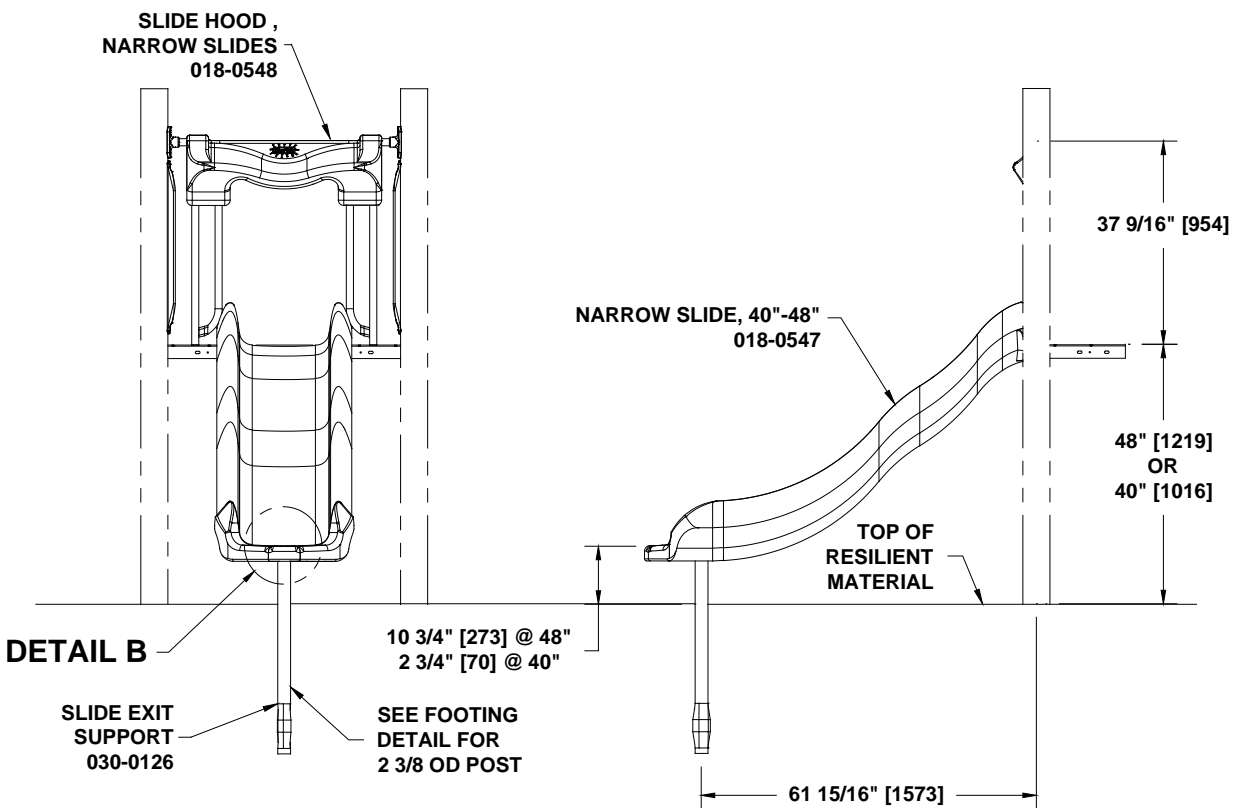
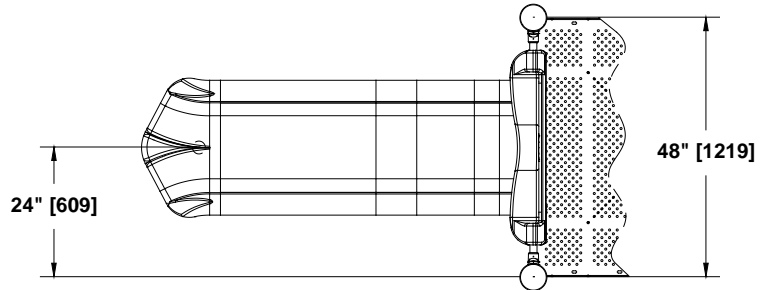
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. After platform has been installed, locate and dig footing hole as per dimensions shown. See footing detail drawing, which is located in the preface of your installation manual.
2. Attach DOUBLE SLIDE EXIT SUPPORT to slide using 3/8" x 3/4" button head cap screws and 3/8" washers. See DETAIL A. Tighten fasteners.
3. Position slide into footing holes. Attach slide to platform using 3/8" x 1 3/4" button head cap screws, 3/8" washers and 3/8" nuts. See DETAIL B. Make sure that the slide is flush and tight to platform.
4. Locate holes on 5" O.D. posts for mounting CAST SIDE FILLERS and assemble to posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
5. Locate holes on 5" O.D. posts for mounting SIT DOWN HOOD assembly.
6. Insert MOUNTING TUBES into sit down hood and attach using 3/8" x 1" button head cap screws and 3/8" slotted washers. See DETAIL C.
7. Attach STRAIGHT BRACKETS to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers. See DETAL C.
8. Attach sit-down hood to slide using 3/8" x 1 1/4" button head cap screws, and 3/8" SS flat washers. See SECTION D-D.
9. Tighten all hardware.
10. Block-up, level and plumb.
11. Pour concrete. Let set for two to three days.
12. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

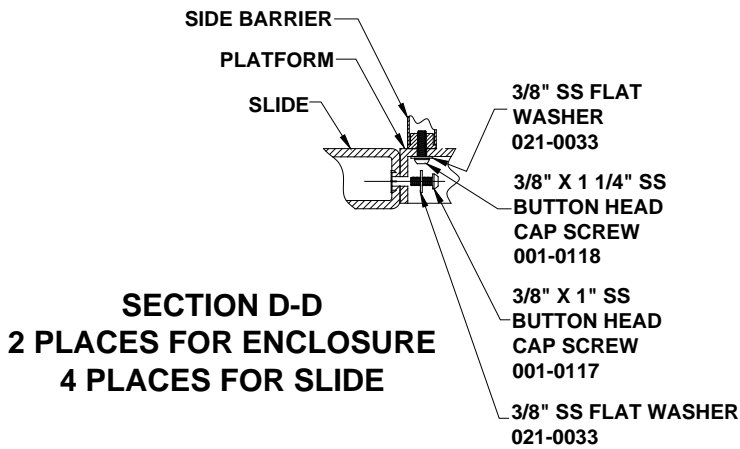
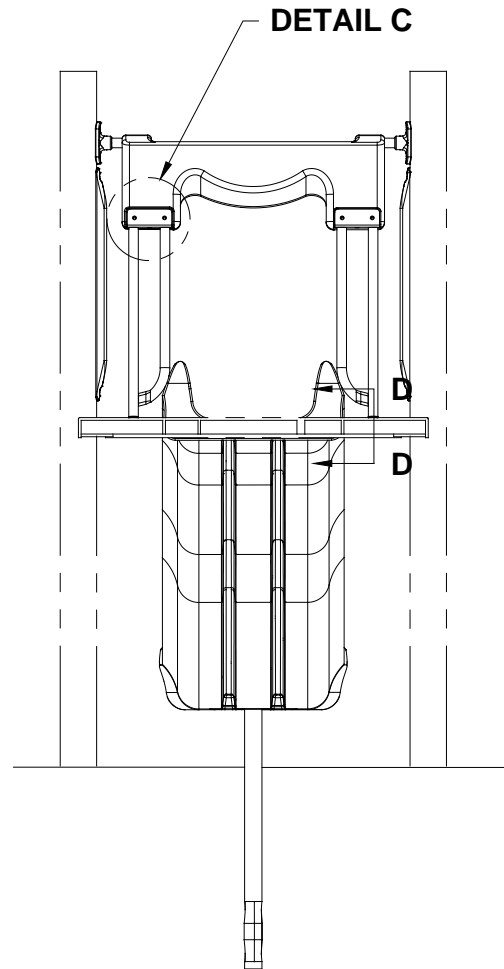
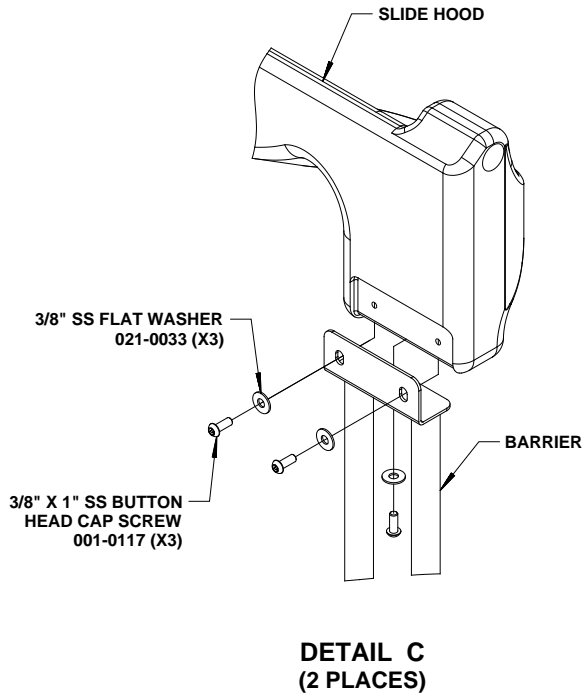


470-0507
ROCK'N ROLL SLIDE, 40" - 48"



470-0507

ROCK'N ROLL SLIDE, 40" - 48"



470-0507
ROCK'N ROLL SLIDE, 40" - 48"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
000-0208	CASTING, SIDE FILLER, LONG	2
018-0547	NARROW SLIDE, 40"-48"	1
018-0548	SLIDE HOOD, NARROW SLIDES	1
030-0126	SUPPORT, SLIDE EXIT	1
030-0755	MOUNTING TUBE 6 13/16" - S5000	2
030-1589	SIDE BARRIER, RIGHT, SLIDE	1
030-1593	SIDE BARRIER, LEFT, SLIDE	1
036-1371	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, LONG: A56 Aluminum. Finished with baked on powder coating.

NARROW SLIDE, 40"-48": 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SLIDE HOOD, NARROW SLIDES: Double wall, linear low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SUPPORT, SLIDE EXIT: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and 8 GA galvanized sheet steel. Finished with a baked on powder coating.

MOUNTING TUBE 6 13/16" - S5000: One piece all welded construction consisting of a 1.315 OD x .083" wall galvanized tube and a 12L14 steel threaded insert. Finished with a baked on powder coating.

SIDE BARRIER, RIGHT, SLIDE ; SIDE BARRIER, LEFT, SLIDE : One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized sheet steel, and HDPE threaded inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 107 LBS.

INSTALLATION INSTRUCTIONS

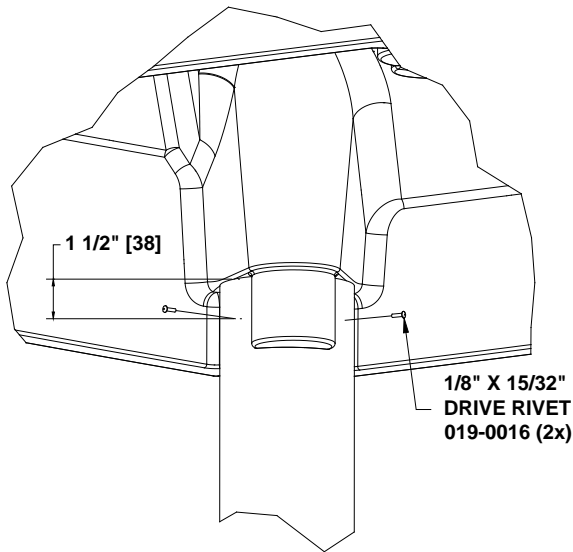
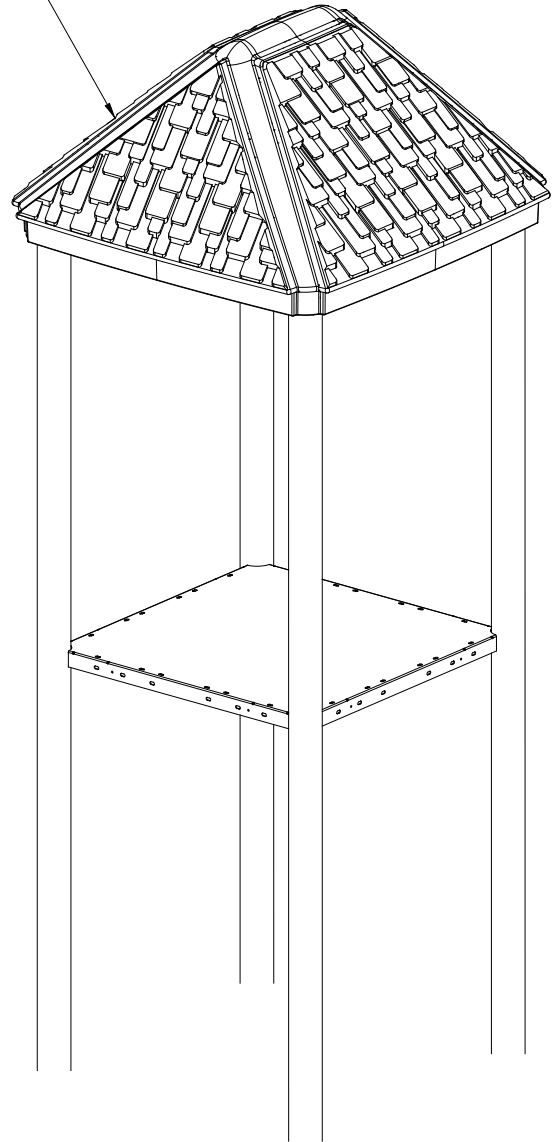
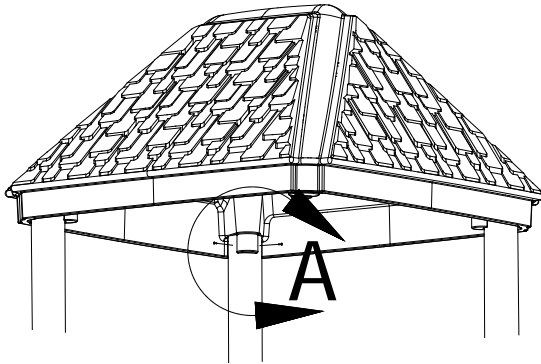
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. After platform has been installed, locate and dig footing hole as per dimensions shown. See footing detail drawing, which is located in the preface of your installation manual.
2. Attach CAST SIDE FILLER, LONG to 5" O.D. posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL A.
3. Attach SLIDE EXIT SUPPORT to NARROW SLIDE using 3/8" x 3/4" SS button head cap screws and 3/8" SS washers. See DETAIL B. Tighten fasteners.
4. Position slide into footing holes. Attach slide to platform using 3/8" x 1" SS button head cap screws and 3/8" SS washers. See SECTION D-D. Make sure that the slide is flush and tight to platform.
5. Insert MOUNTING TUBE into SLIDE HOOD and attach using 3/8" x 1" SS button head cap screws and 3/8" SS washers. See DETAIL A.
6. Attach SIDE BARRIERS to slide hood using 3/8" x 1" SS button head cap screws and 3/8" SS washers. See DETAIL C.
7. Attach brackets to 5" O.D. posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL A.
8. Attach side barriers to platform using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers, See SECTION D-D.
9. Tighten all hardware.
10. Block-up, level and plumb.
11. Pour concrete. Let set for two to three days.
12. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



SQUARE ROOF
018-0565



DETAIL A
(4 PLACES)

470-0517 SHAKER SQUARE ROOF

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-0565	SHAKER SQUARE ROOF	1
036-1183	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

SHAKER SQUARE ROOF: 3/16" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction.

HARDWARE PACKAGE: Aluminum rivets with stainless steel pins.

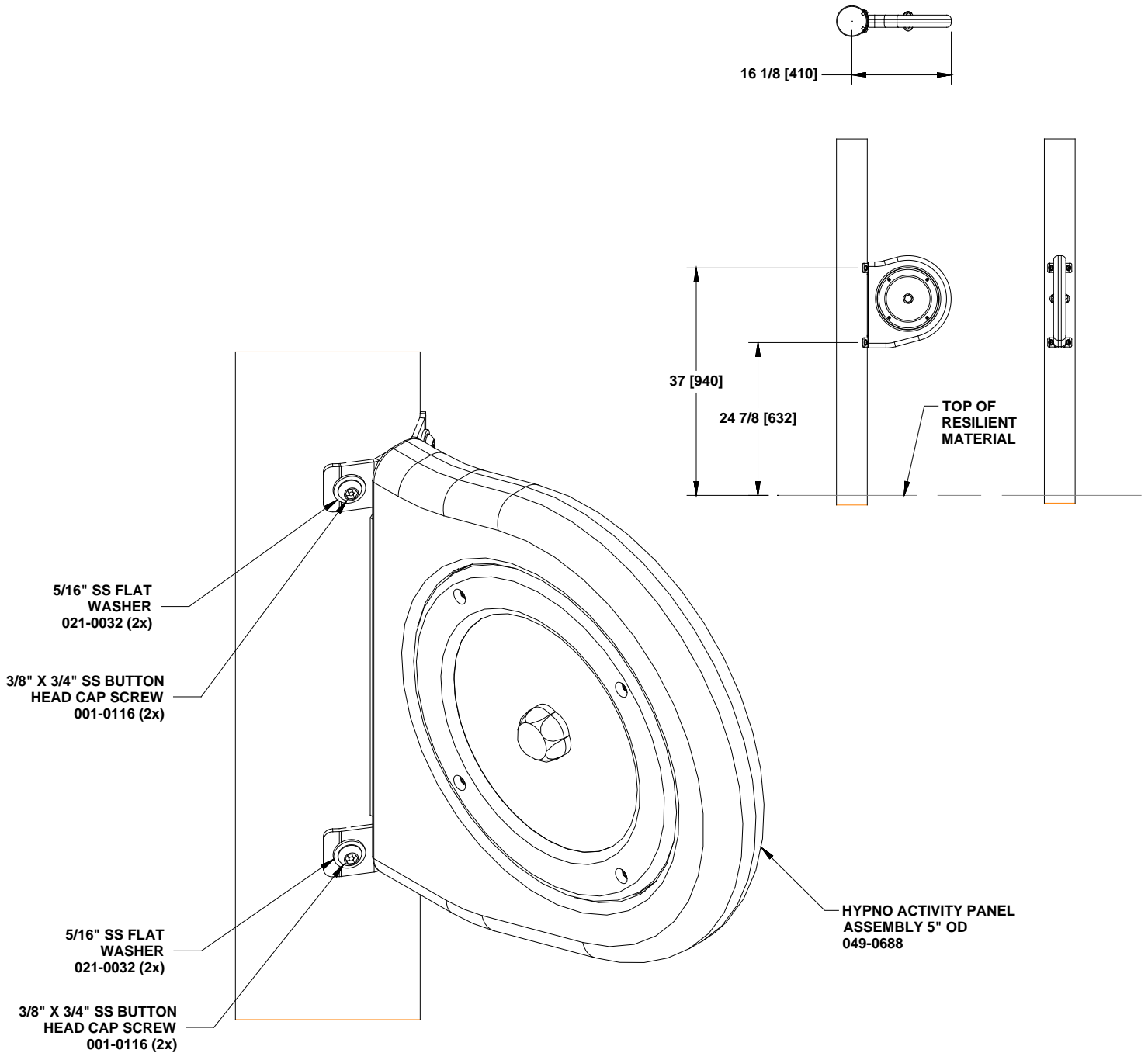
SHIPPING WEIGHT: 123 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of roof to be installed from the site plan, which is located in the preface of your installation manual.
2. Insert roof on top of the 5" OD posts, making sure the plastic stubs insert and seat completely inside the post ID.
3. Drill (2) 1/8" diameter holes through the post and the roof stub inside the post. These holes should be approximately 1 1/2" down from the top edge of the post. Repeat for each post. See detail A.
4. Insert the 1/8" diameter drive rivets, and pound with a hammer to expand and seat the rivets. See detail A.
5. Spray drive rivet locations with touch-up paint.
6. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



570-0718 HYPNO ACTIVITY PANEL

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
036-0784	HARDWARE PACKAGE	1
049-0688	HYPNO ACTIVITY PANEL ASSEMBLY 5" OD	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

HARDWARE PACKAGE: Stainless steel.

HYPNO ACTIVITY PANEL ASSEMBLY 5" OD: Assembly consisting of welded bracket, formed 10 ga galv steel plate, 1.029" OD galv tubing, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 1/4" T-nut inserts, and a textured surface, routed HDPE panels 1/2", bronze bushing, SS shaft standoff, injection molded HDPE bolt covers, SS hardware.

SHIPPING WEIGHT: 9 LBS.

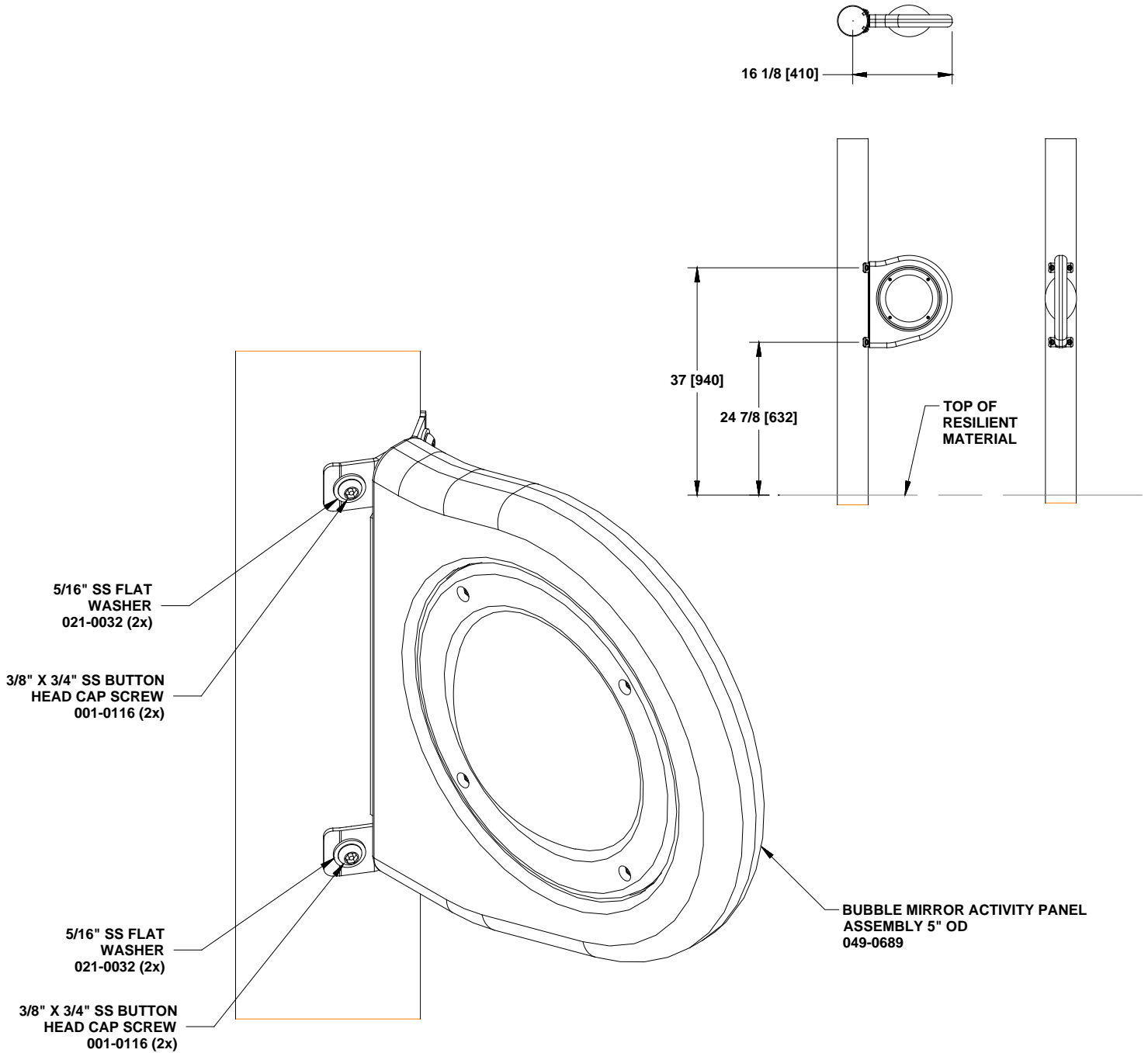
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

1. Determine location of post mounted activity panel.
2. Attach HYPNO ACTIVITY PANEL ASSEMBLY 5" OD to the post using the hardware specified.
3. Tighten all hardware.



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



570-0719 BUBBLE MIRROR ACTIVITY PANEL

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
036-0784	HARDWARE PACKAGE	1
049-0689	BUBBLE MIRROR ACTIVITY PANEL ASSEMBLY 5" OD	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

HARDWARE PACKAGE: Stainless steel.

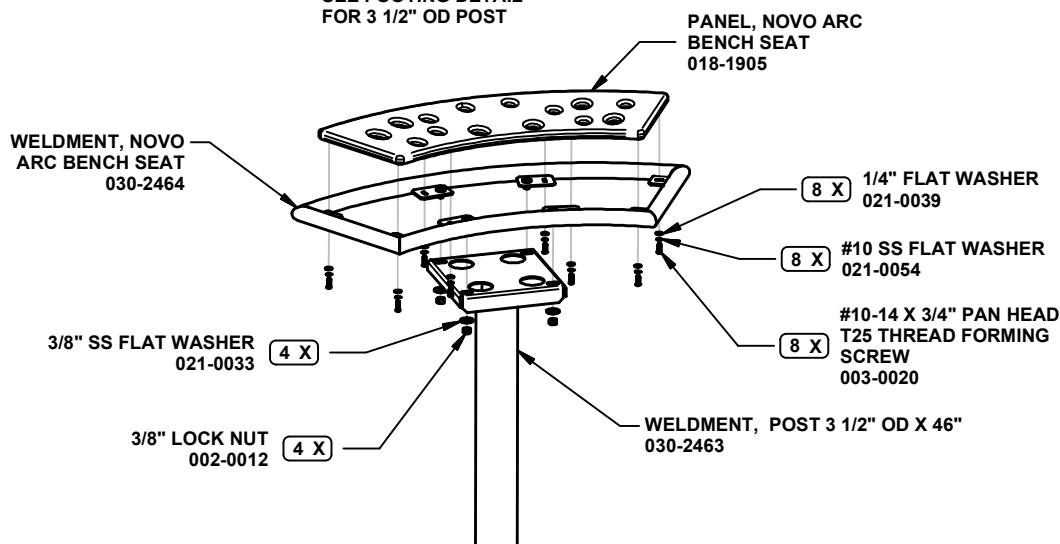
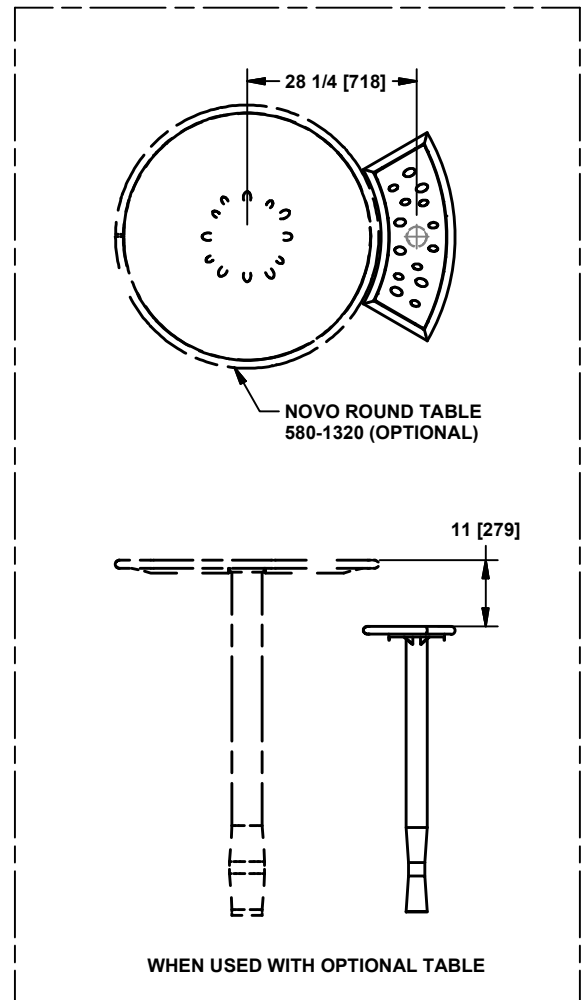
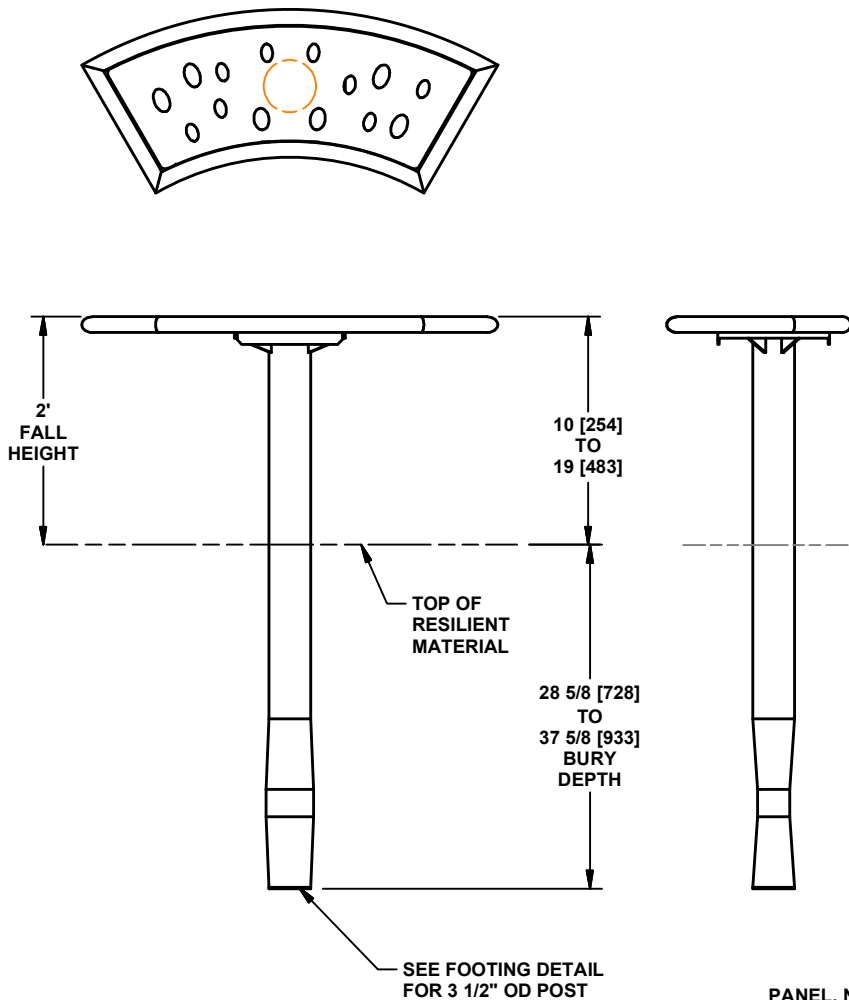
BUBBLE MIRROR ACTIVITY PANEL ASSEMBLY 5" OD: Assembly consisting of welded bracket, formed 10 ga galv steel plate, 1.029" OD galv tubing, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 1/4" T-nut inserts, and a textured surface, routed HDPE panels 1/2", polycarbonate bubble window with mirror finish, SS hardware.

SHIPPING WEIGHT: 8 LBS.

INSTALLATION INSTRUCTIONS

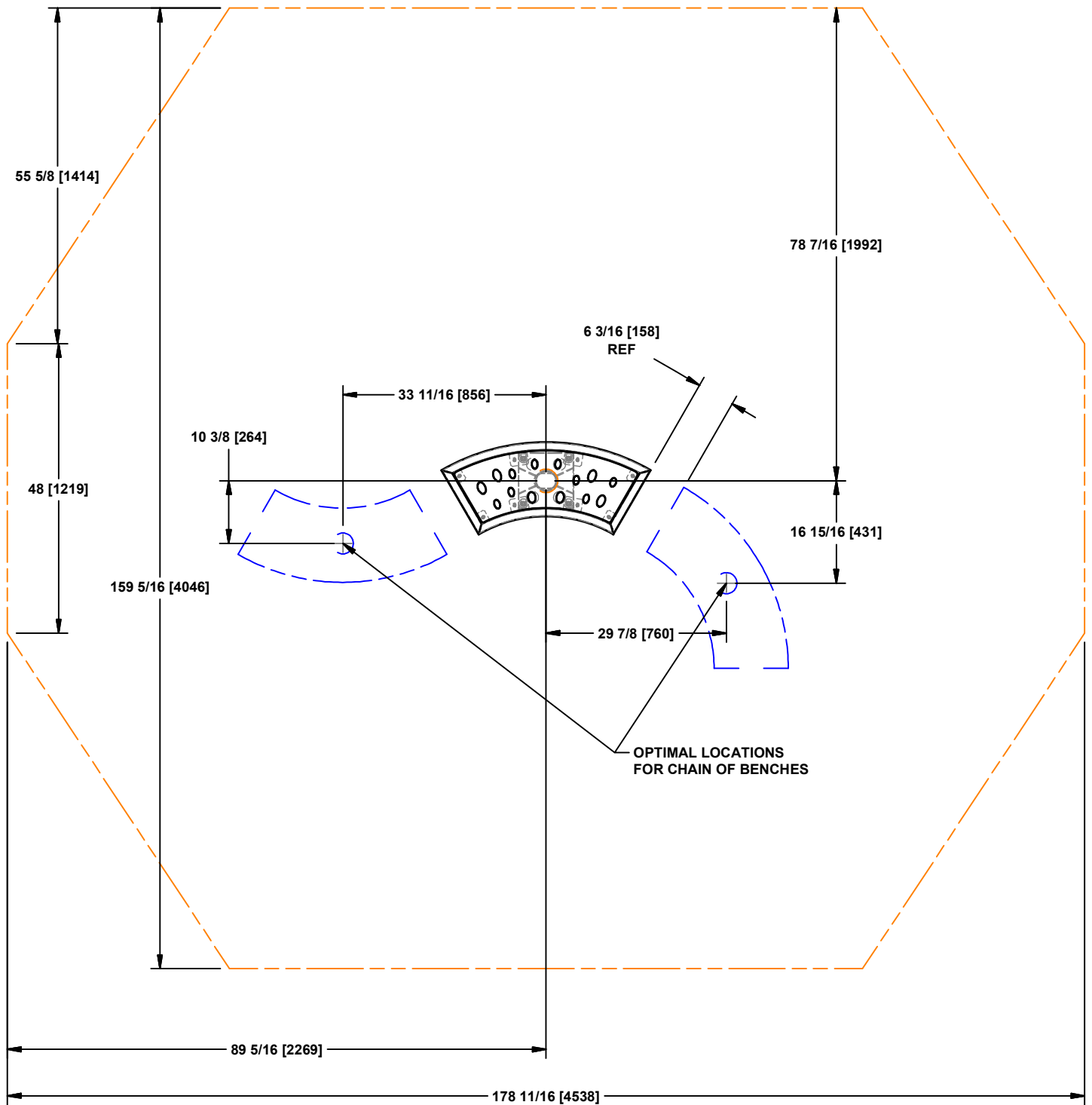
NOTE: Do not tighten hardware until instructed to do so.

1. Determine location of post mounted activity panel.
2. Attach BUBBLE MIRROR ACTIVITY PANEL ASSEMBLY 5" OD to the post using the hardware specified.
3. Tighten all hardware.



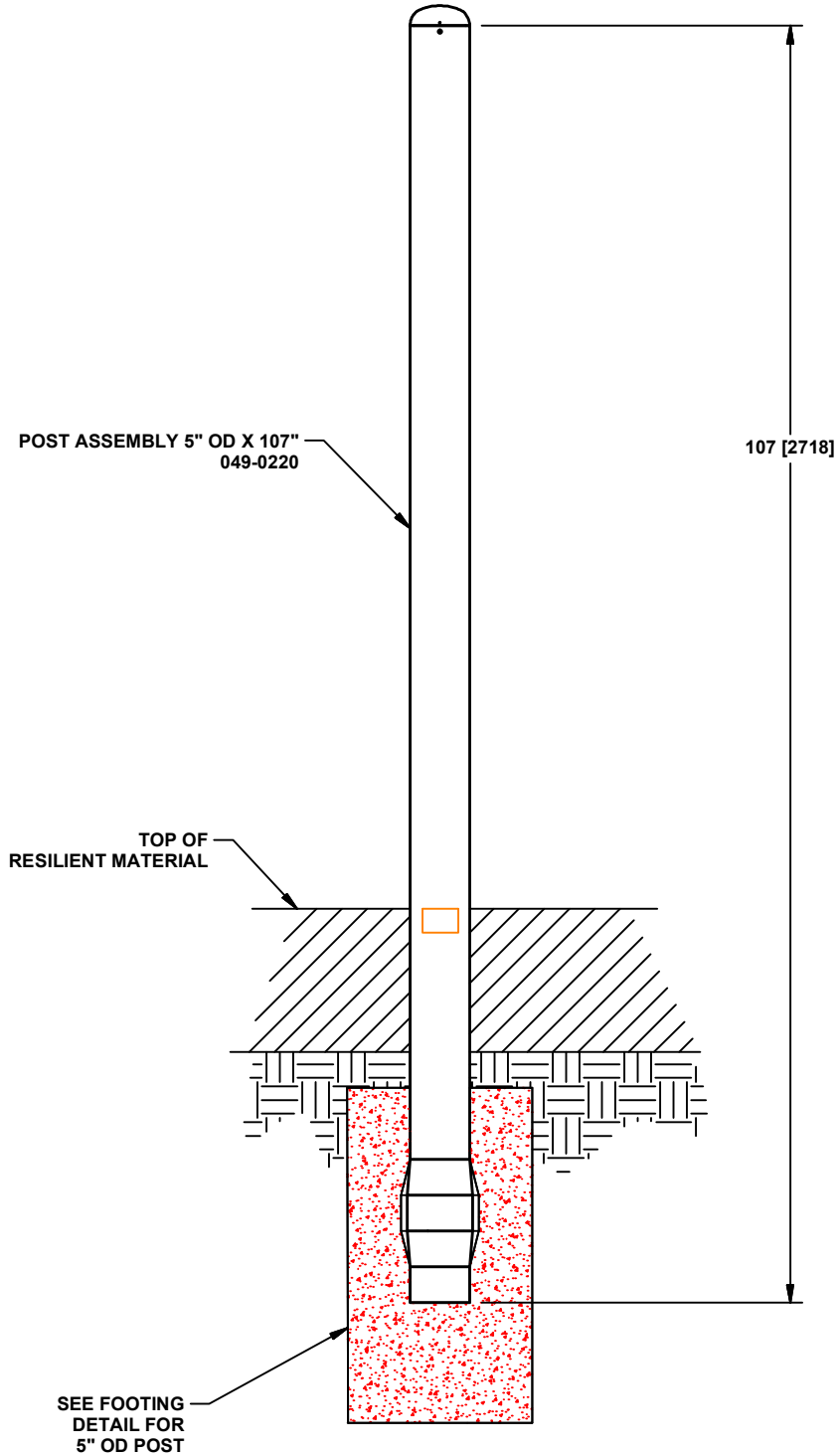
SEAT ATTACHMENT VIEW

580-1312 NOVO ARC BENCH



FALL ZONE VIEW

580-1312 NOVO ARC BENCH



670-0002 POST ASSEMBLY 5" OD X 107"

PARTS LIST

PART NO. DESCRIPTION QTY

PART NO.	DESCRIPTION	QTY
049-0220	POST ASSEMBLY 5" OD X 107"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

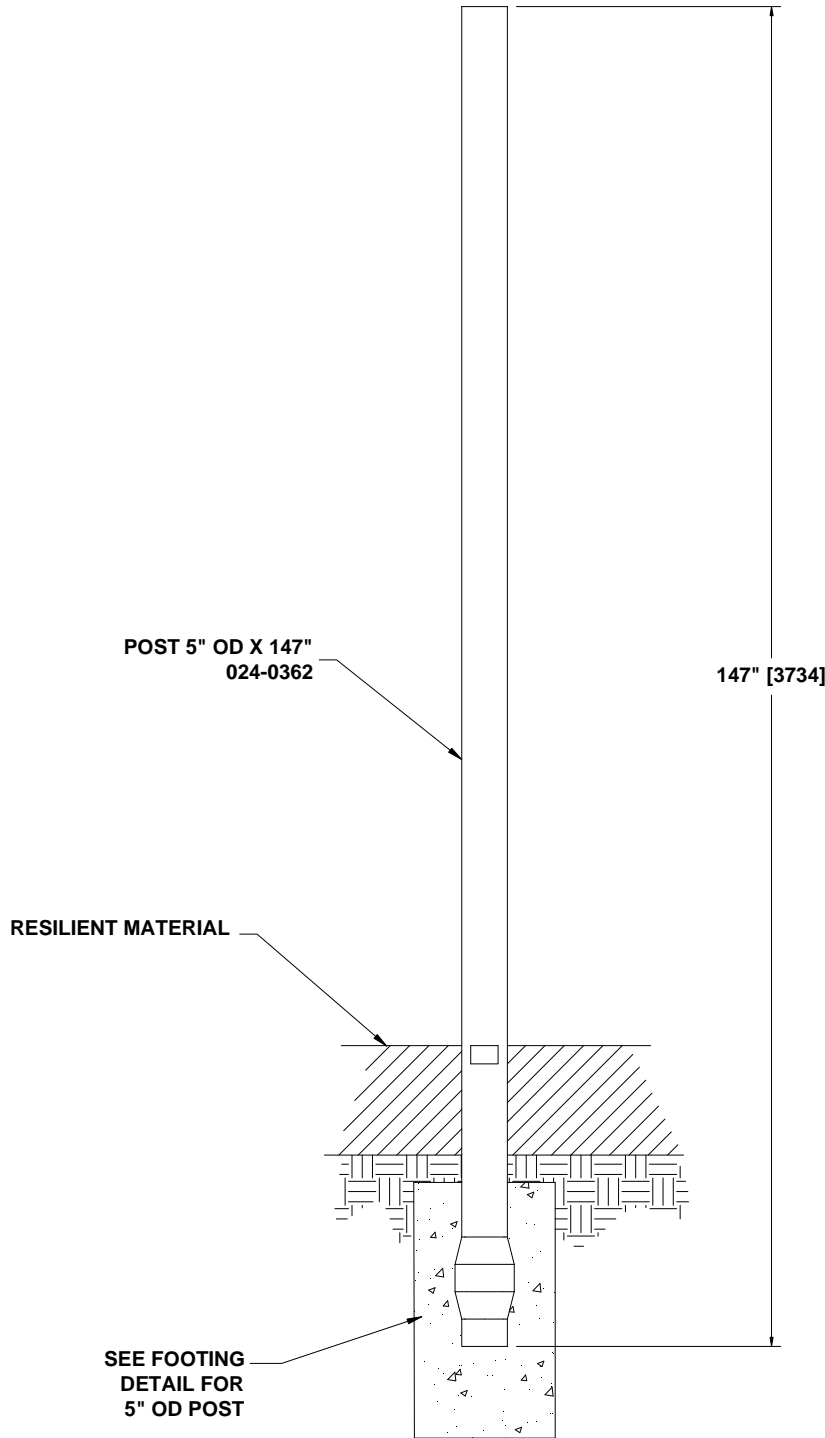
SPECIFICATIONS

POST ASSEMBLY 5" OD X 107": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 57 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0016
ROOF POST 5" OD X 147"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
024-0362	POST 5" OD X 147"	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

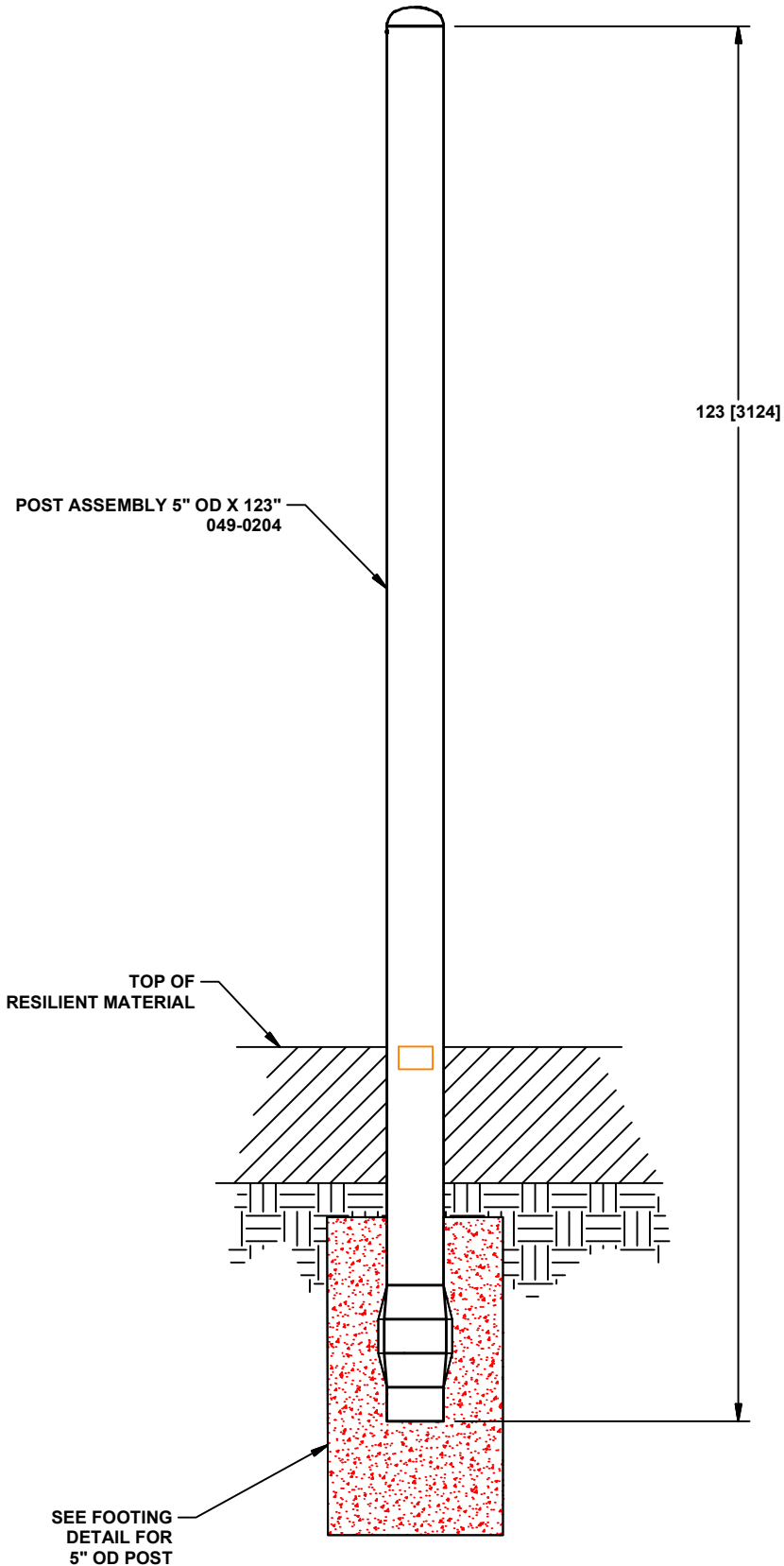
SPECIFICATIONS

POST 5" OD X 147": 5" OD X 11 GA galvanized steel tubing finished with a baked on powder coating.

SHIPPING WEIGHT: 78 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 – 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0165 POST ASSEMBLY 5" OD X 123"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
049-0204	POST ASSEMBLY 5" OD X 123"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

POST ASSEMBLY 5" OD X 123": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 66 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

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SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) A Handbook for Public Playground Safety** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-Children's Playspaces and Equipment A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

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PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

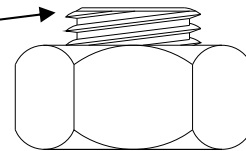


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. **NOTE:** *In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets. See typical mount bracket assembly drawings located in the installation instructions section.*

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

GENERAL INSTALLATION GUIDELINES

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

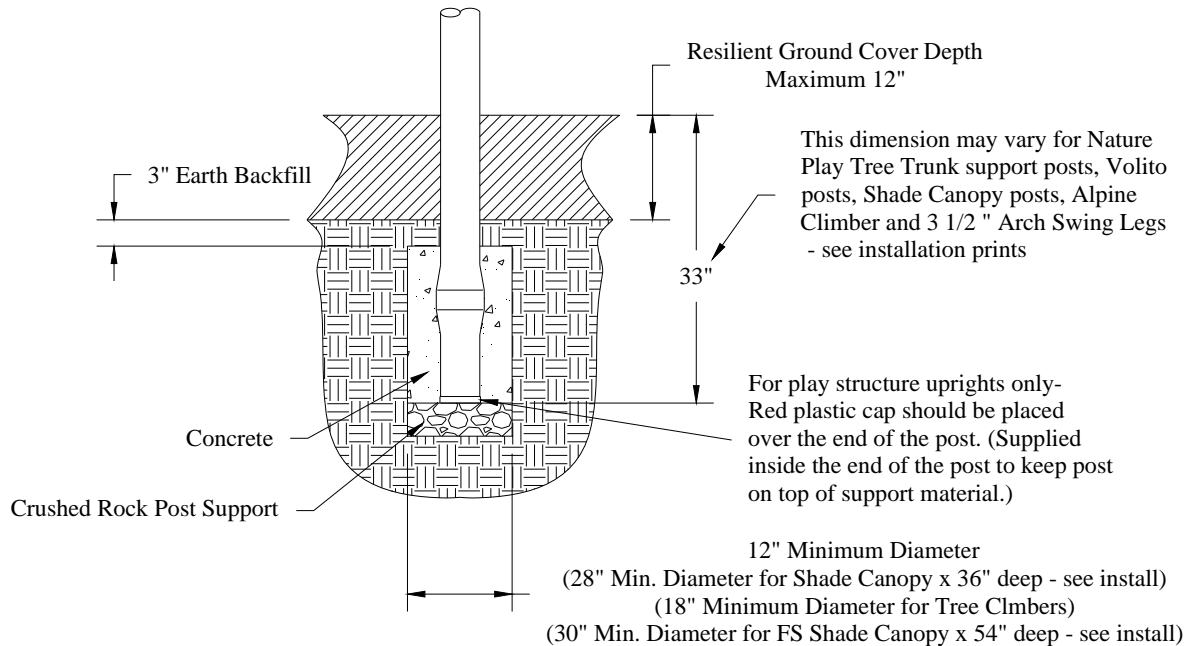


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

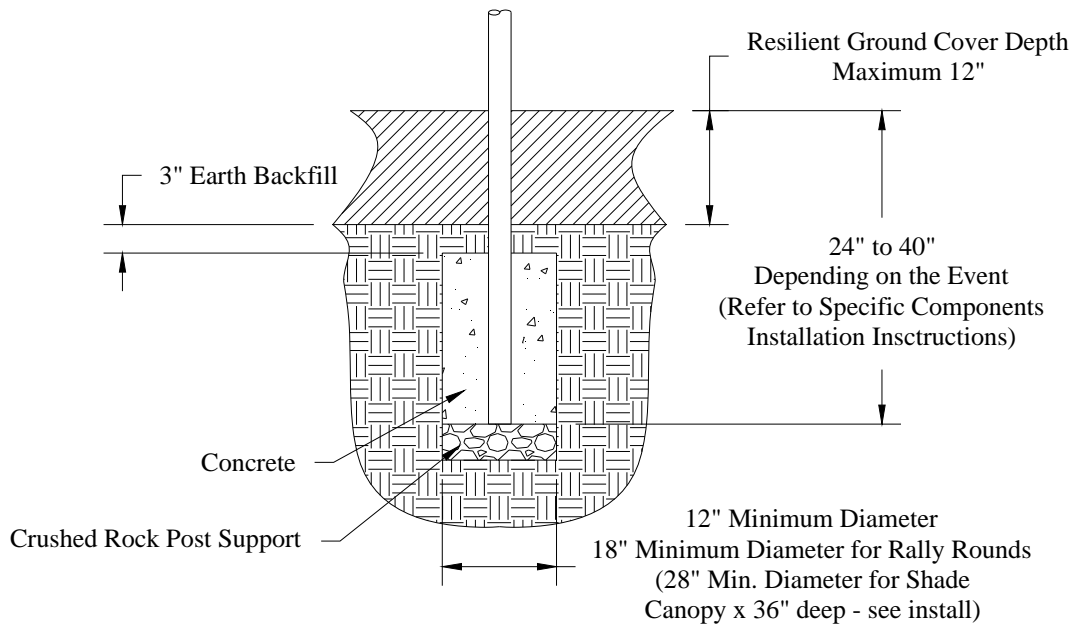


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

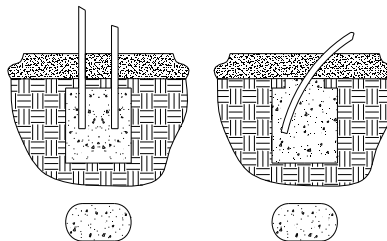


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

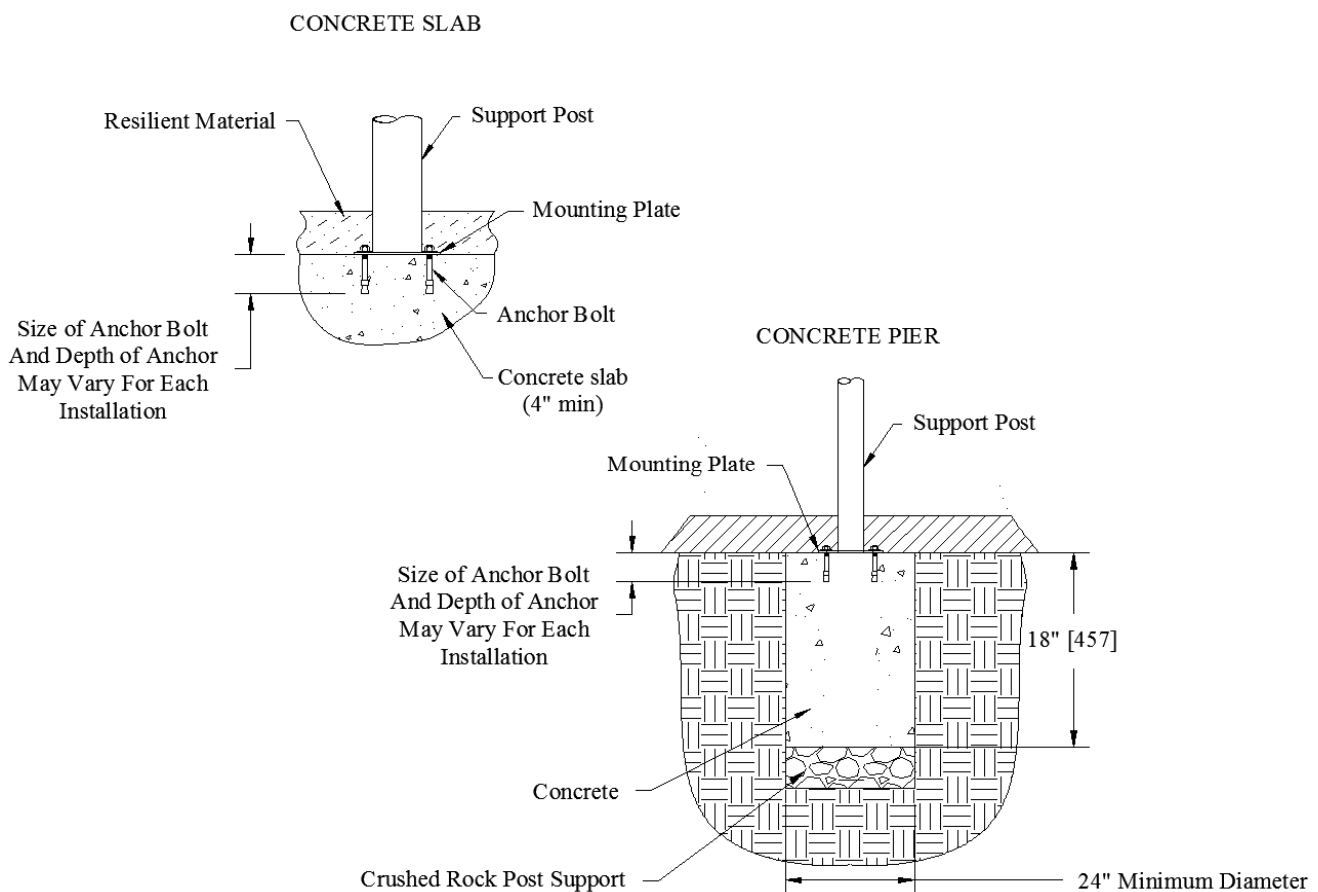


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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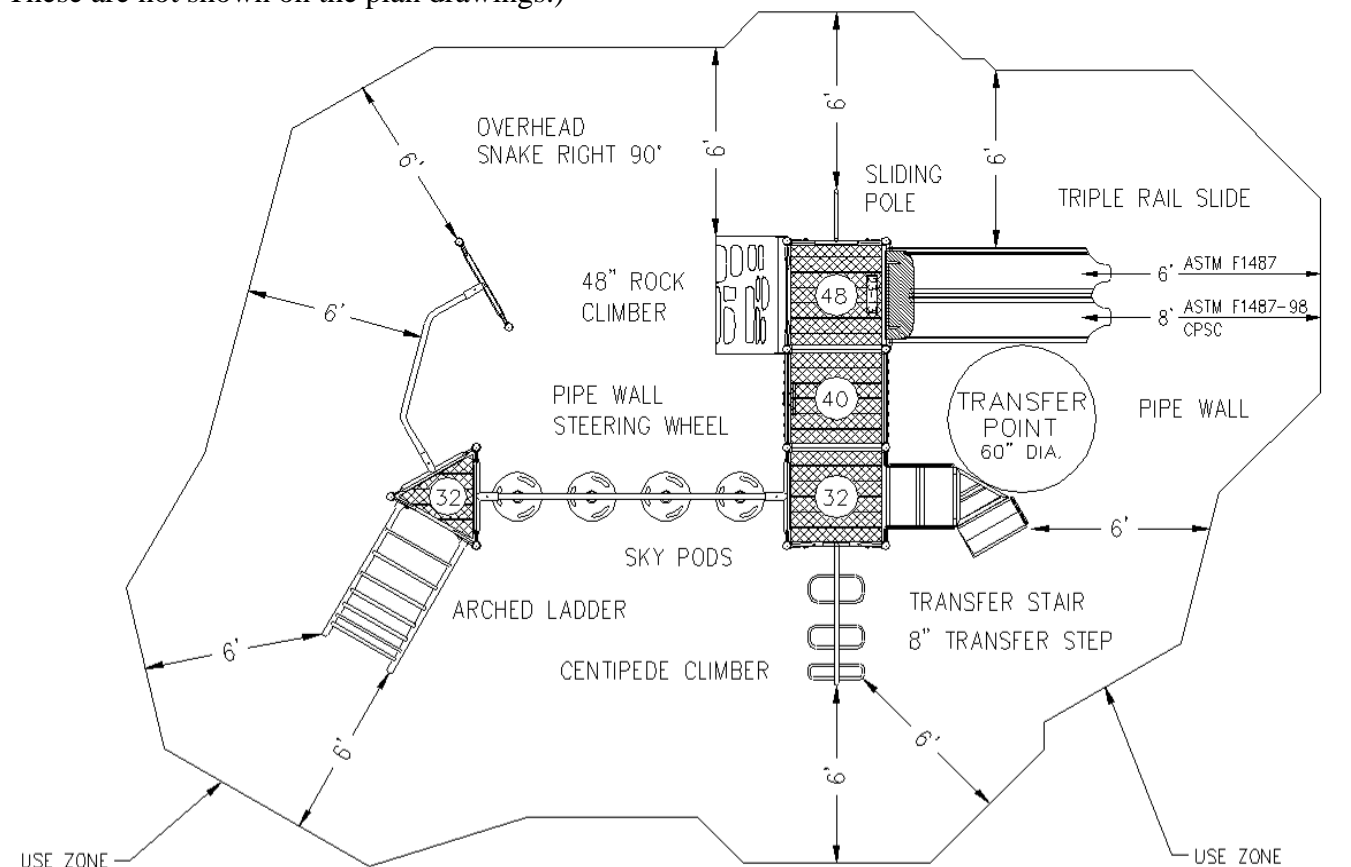
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

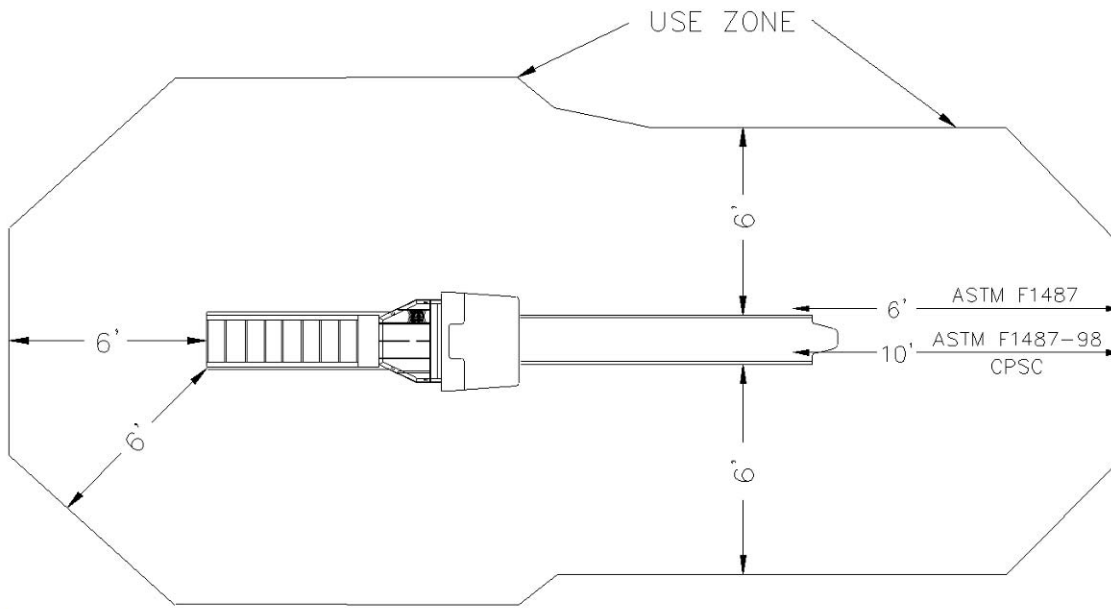


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of Y + 72 in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

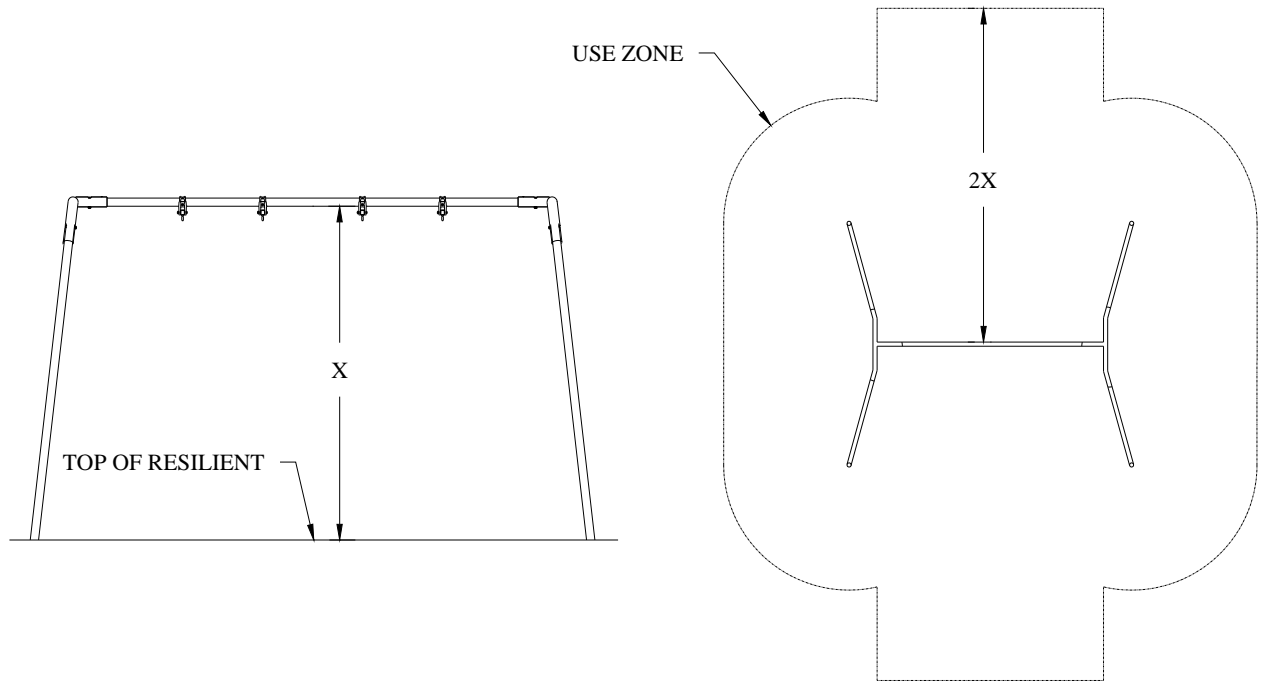


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

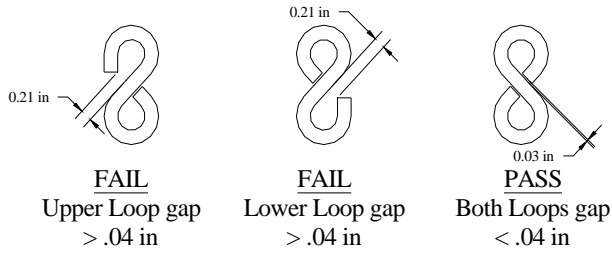


Figure 9: Check loops for .04" gap

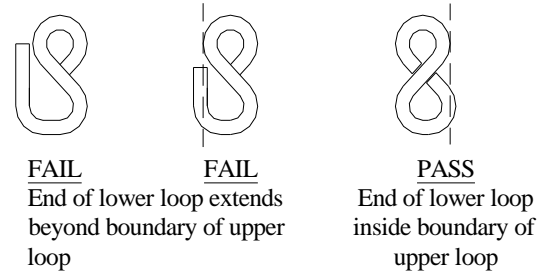


Figure 10: Check lower loop projection



Figure 11: Check upper loop projection

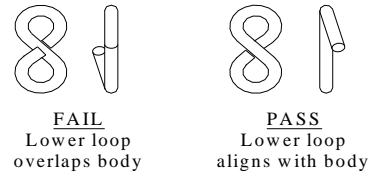


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

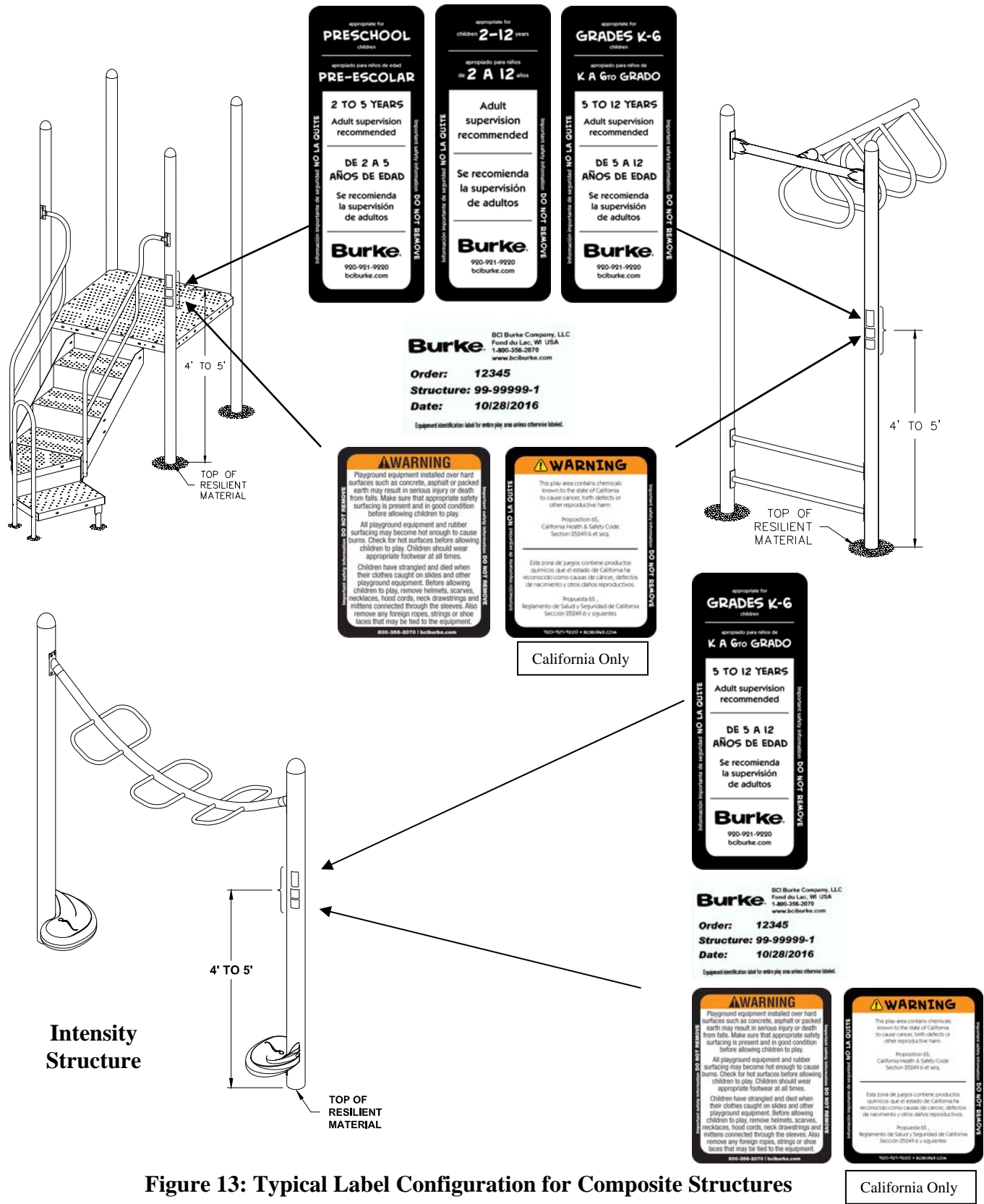


Figure 13: Typical Label Configuration for Composite Structures

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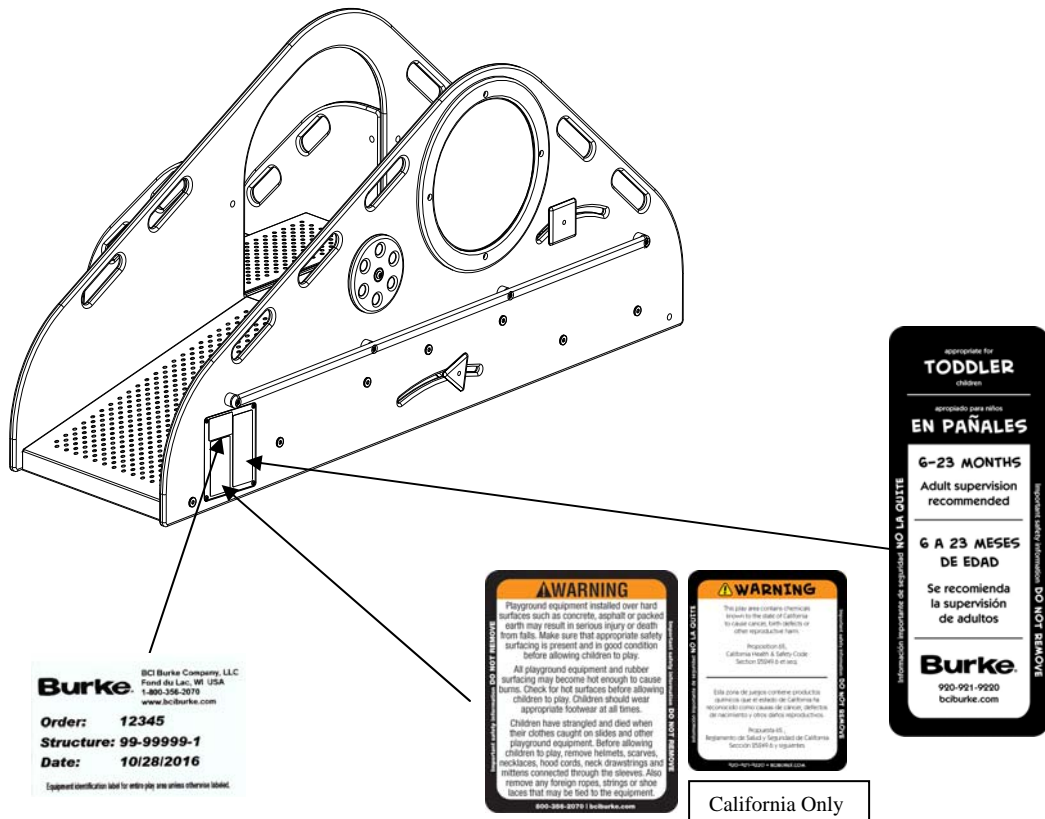


Figure 14: Typical Label Configuration for Composite Structures

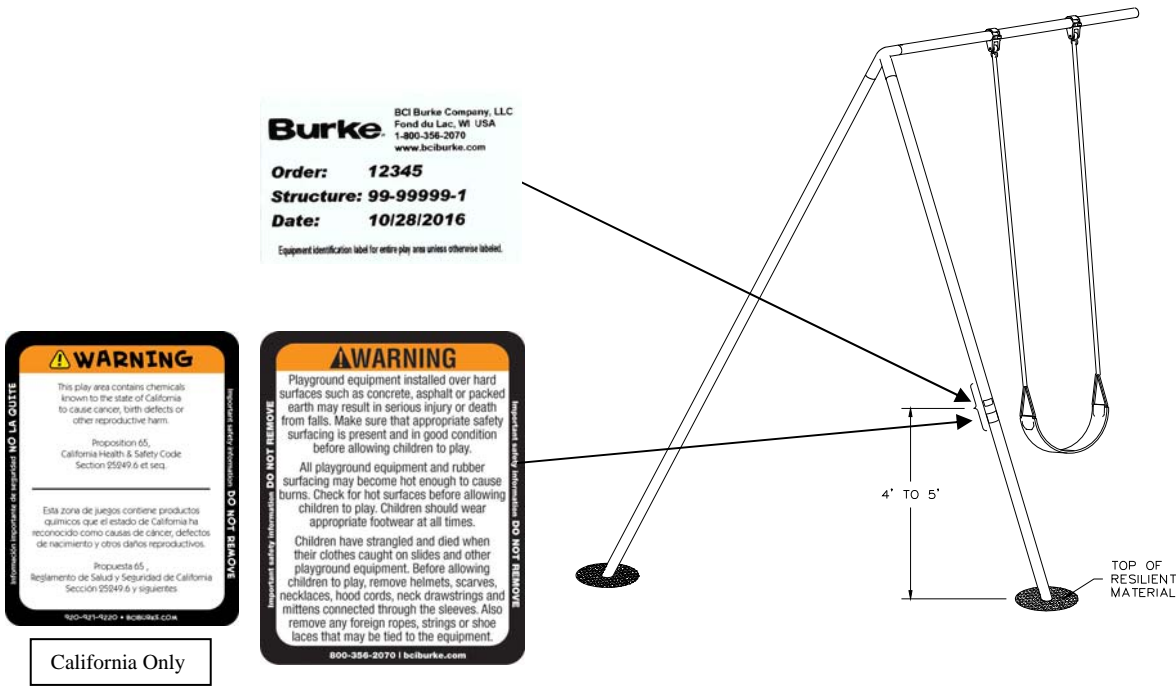


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.
- Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.
 - Clean dried concrete off support posts and any other affected components
 - Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.
 - Insure all post ends have properly installed post caps. Insure the drive rivets are secure.
 - Insure all fasteners are tightened according to specifications listed on your installation instructions.
 - Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.
- Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.
 - Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.
 - Touch up any exposed metal on coated parts following the instructions in the Maintenance section.
 - Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.
 - Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.
 - Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.
 - Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.

Inspected by: _____

Inspection Date: _____

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For questions, call us at:
1-800-356-2070

MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris.

DO NOT use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

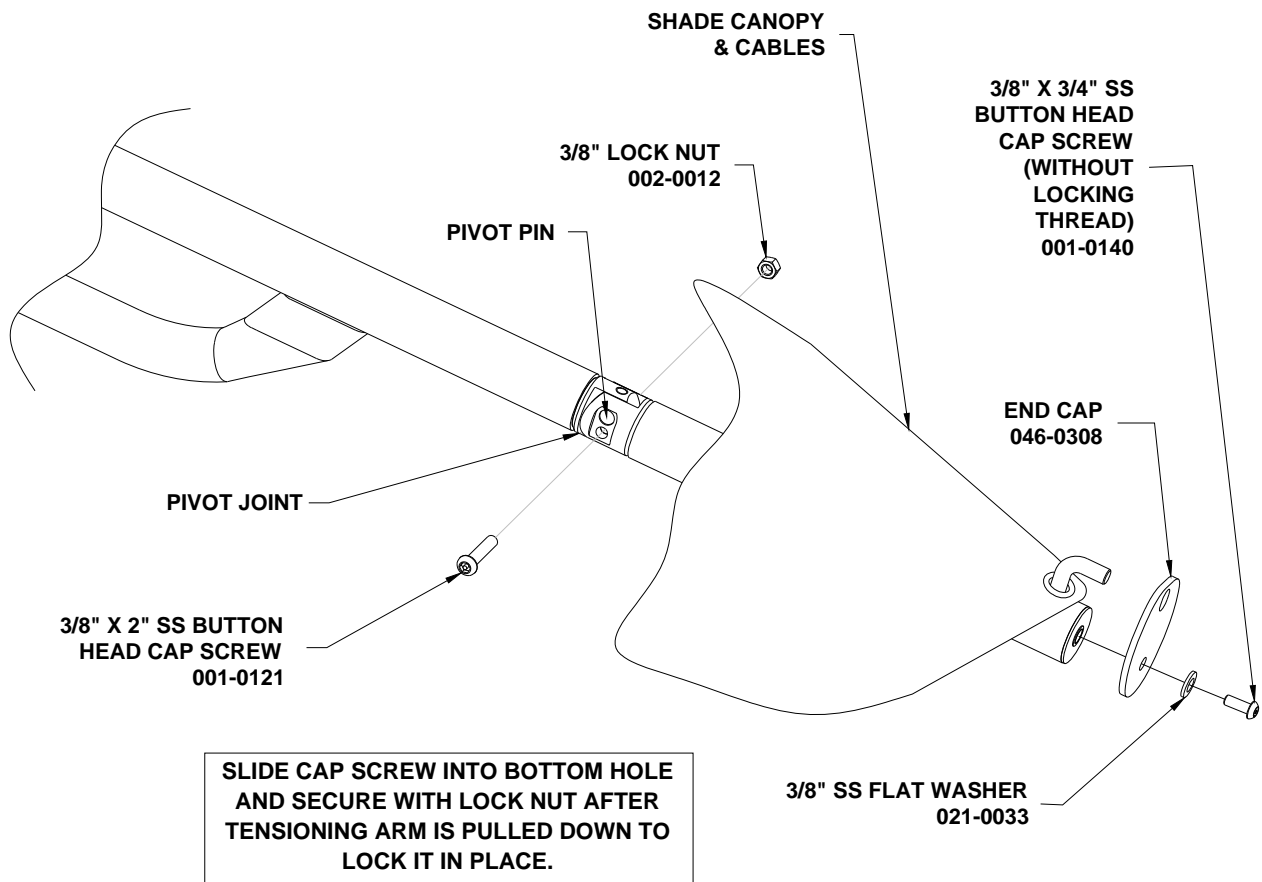


Figure 16: Tensioning Arm in 'Closed Position'

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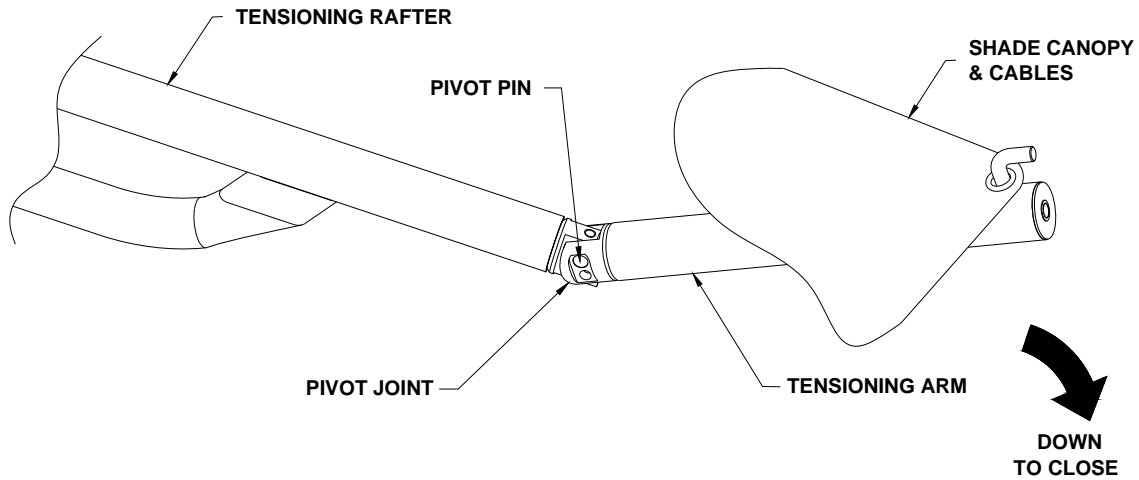


Figure 17: Tensioning Arm in 'Open Position'

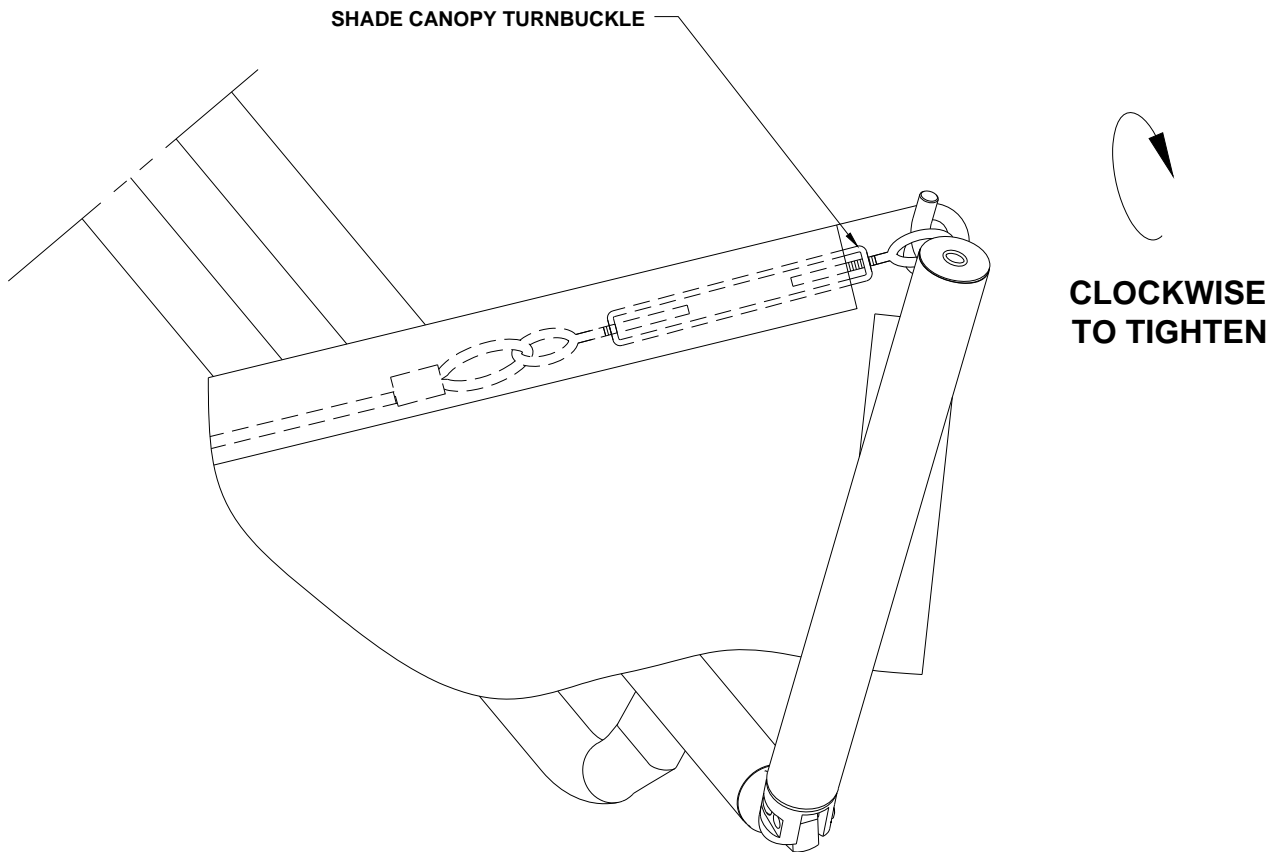


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope **AFTER** flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																		
Visible cracks, bending, warping																		
Accessible sharp edges or points																		
Rusted metal surfaces																		
Rusting of metal and corrosion on aluminum																		
Deformation of open hooks, rings, links, etc.																		
Worn swing hangers and chain																		
Missing or damaged swing seats																		
Heavy swing seats with sharp corners or edges																		
Broken supports/anchors																		
Jagged, exposed or cracked and loose concrete footing																		
Inadequate surfacing material under equipment																		
Exposed ends of pipe. Missing caps or plugs																		
Protruding bolt ends																		
Chipped or peeling paint																		
Cuts or fraying in rope with exposed steel reinforcement strands																		
Vandalism, broken glass, trash, etc.																		
Broken or missing rails, steps, rungs, seats																		
Loose or missing hardware																		
Pinch or crush points																		
Moving components, etc.																		
Lack of lubrication on moving parts																		
Worn bearings																		
Poor drainage areas at footings, slide exits, etc																		
Vandalized or cracked PVC coating																		

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

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SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

BCI Burke Company, LLC

For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnec[®]t clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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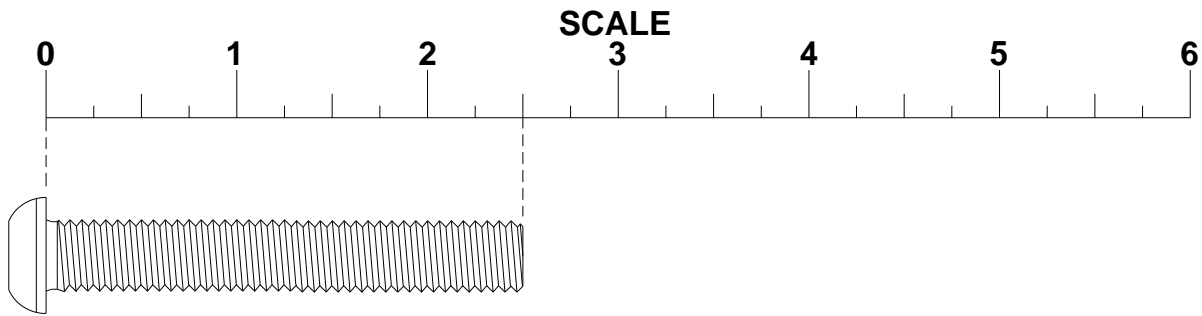
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APPENDIX

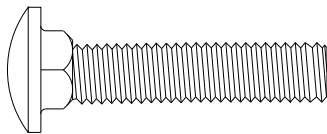
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BCI BURKE HARDWARE

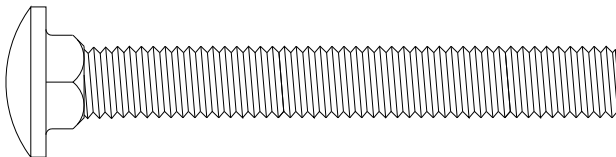


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

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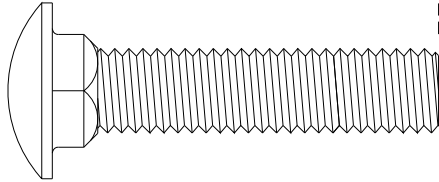
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BCI BURKE HARDWARE

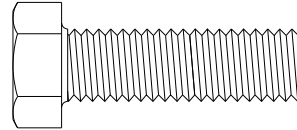
SCALE



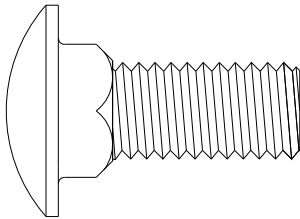
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



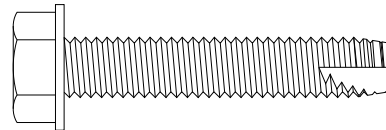
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4 " SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4 " SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

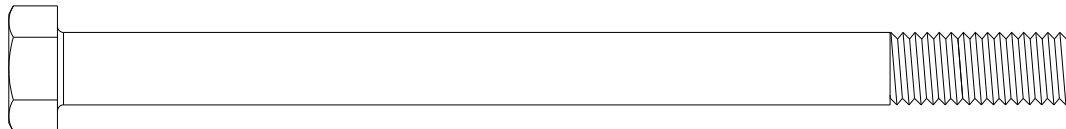


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

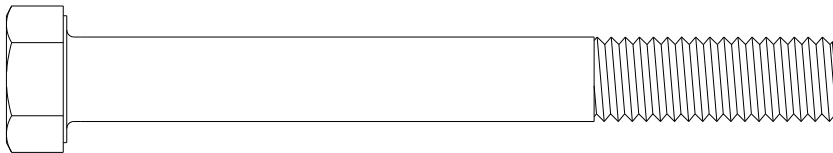
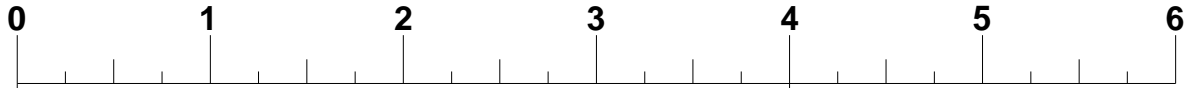
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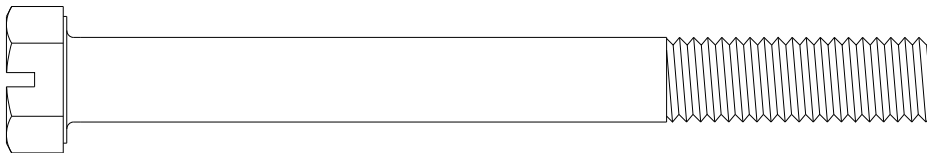
BCI BURKE HARDWARE

SCALE



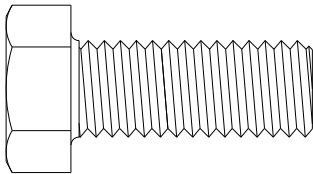
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

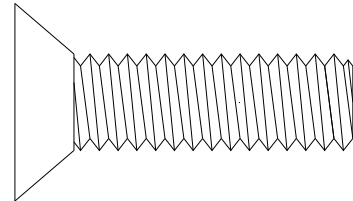


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

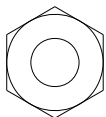
001-0186 - 3/8" X 1 1/4" SS FLAT
COUNTERSUNK HEAD CAP SCREW



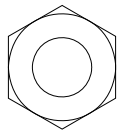
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



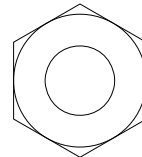
001-0139 - 1/2" X 1 3/4" SS FLAT
COUNTERSUNK HEAD CAP SCREW



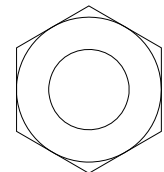
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

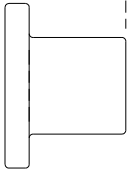
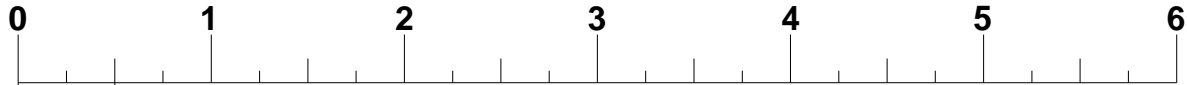
BCI Burke Company, LLC

660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566

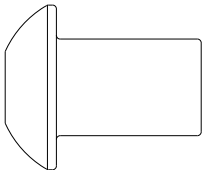
www.bciburke.com

BCI BURKE HARDWARE

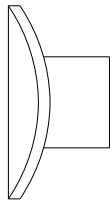
SCALE



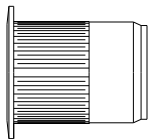
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



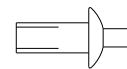
002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



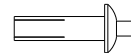
002-0042 - 3/8" NUT INSERT



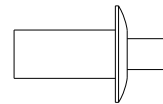
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



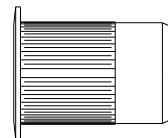
019-0010 - 5/32" X 3/8" DRIVE RIVET



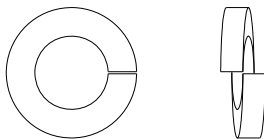
019-0016 - 1/8" X 15/32" DRIVE RIVET



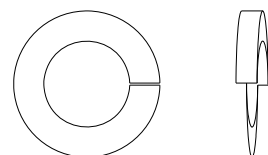
019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0022 - 3/8" LOCK WASHER



021-0027 - 7/16" LOCK WASHER

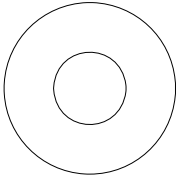
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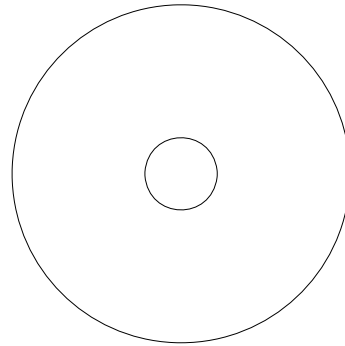
www.bciburke.com

BCI BURKE HARDWARE

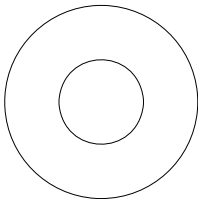
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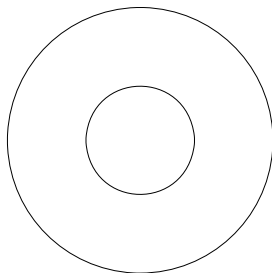
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



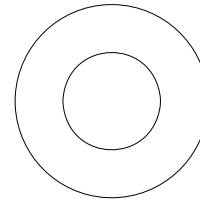
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



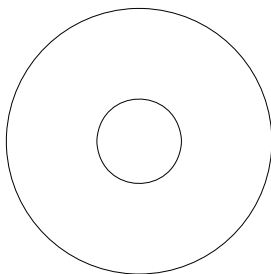
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



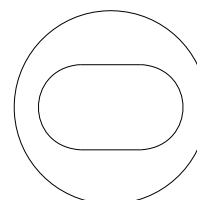
021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

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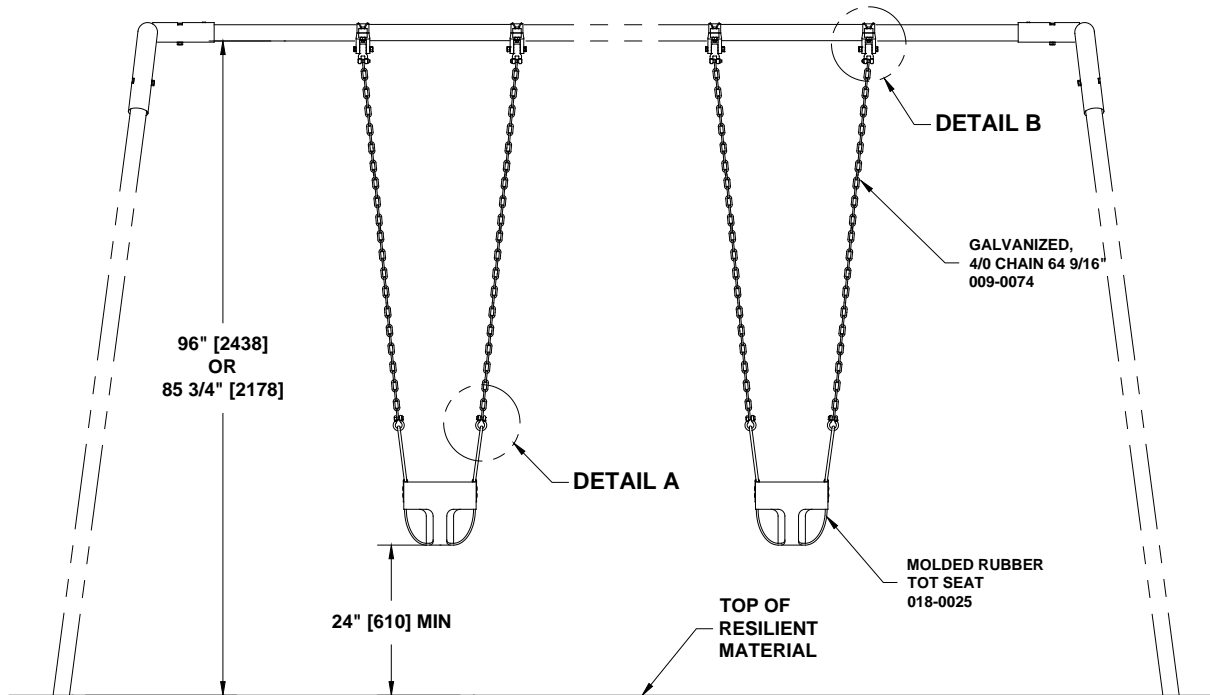
www.bciburke.com

Installation Instructions

BCI Burke Company, LLC

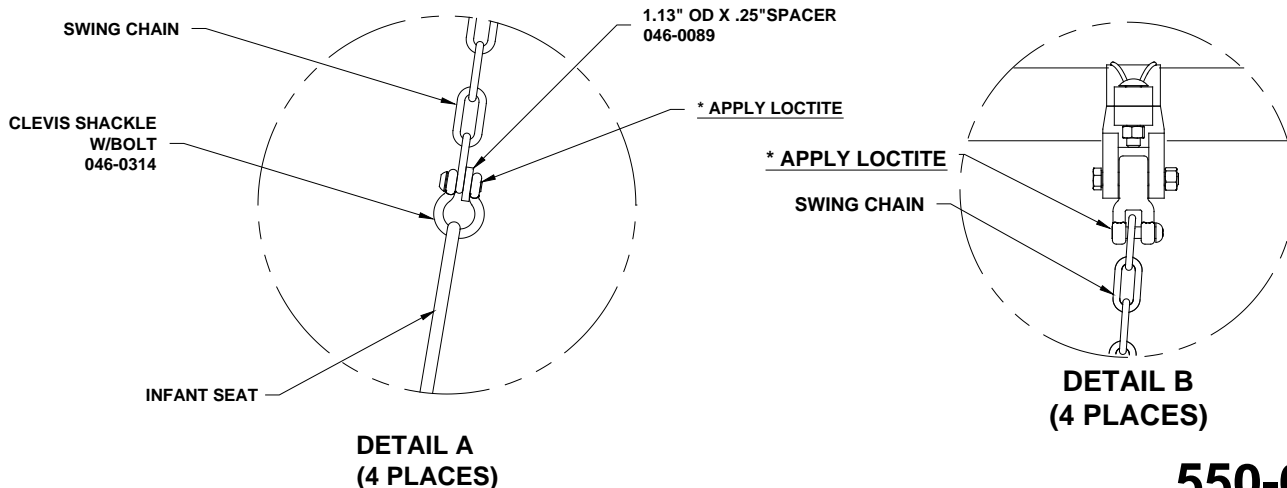
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SWING SEAT HEIGHT REQUIREMENTS
CUT CHAIN OFF THE TOP,
TO ATTAIN 24" MINIMUM
SEAT HEIGHT, MAKE SURE TO
CUT EQUAL AMOUNTS OFF BOTH CHAINS.

IMPORTANT: APPLY LOCTITE
TO BOLT BEFORE TIGHTENING



550-0100
TOT SEAT, 7' & 8' PAIR, STD CHAIN

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
009-0074	GALVANIZED, 4/0 CHAIN 64 9/16"	4
018-0025	MOLDED RUBBER TOT SEAT	2
046-0089	SPACER 1.13" OD X .25"	4
046-0291	LOCTITE	1
046-0314	CLEVIS SHACKLE W/BOLT	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED, 4/0 CHAIN 64 9/16": 3/8" diameter, 4/0 straight coil chain.

MOLDED RUBBER TOT SEAT: Molded rubber, reinforced with a steel insert. Riveted galvanized attachment hardware.

SPACER 1.13" OD X .25": 1/4" Nylatron GS.

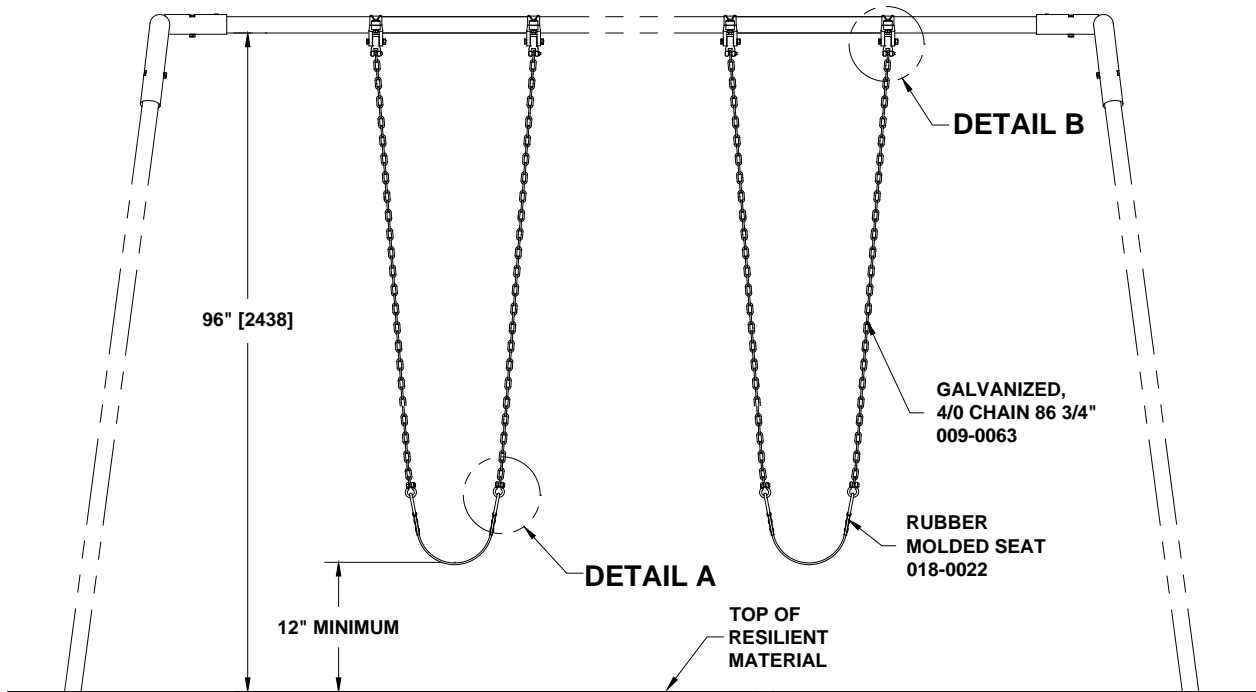
LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

CLEVIS SHACKLE W/BOLT: 5/16" Shackle with a 3/8" X 1 1/2" bolt.

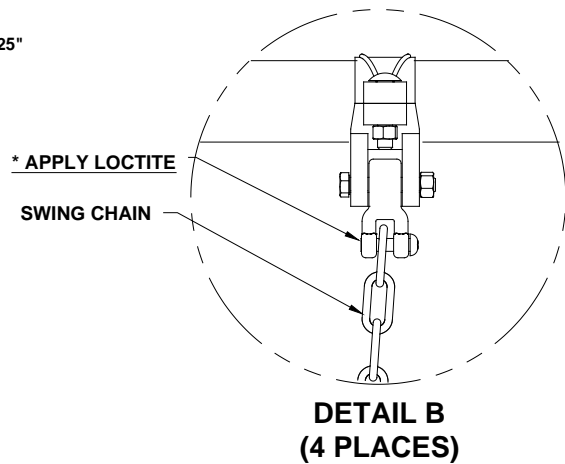
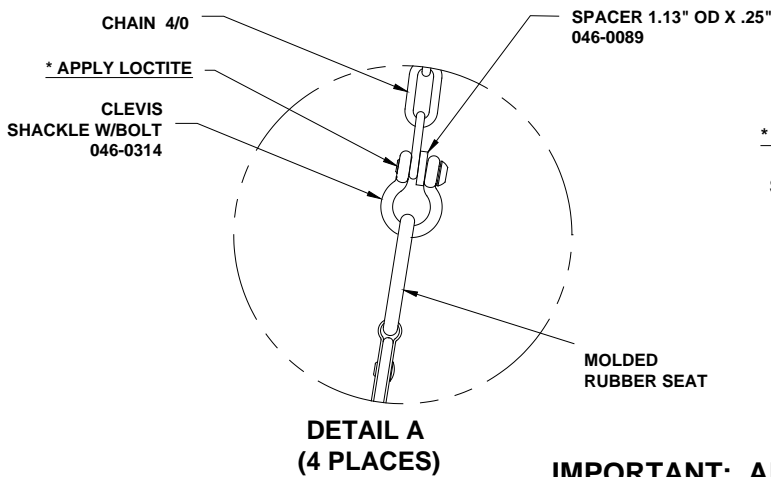
SHIPPING WEIGHT: 24 LBS.

INSTALLATION INSTRUCTIONS

1. Unscrew bolt on swing hanger and attach swing CHAIN 4/0 to swing hanger. Apply LOCTITE to all bolts on hangers before tightening. See DETAIL B.
2. Unscrew bolt in CLEVIS SHACKLE and slide shackles onto both sides of MOLDED RUBBER SEAT. See DETAIL A.
3. Determine what length to cut the chains. Attach the seat to the chains with SPACER and shackle at your desired height. Note there must be a minimum of 24" between the underside of the seat and the top of the resilient material.
4. With the seats at the desired heights and also attaining the 24" minimum clearance, cut and remove the excess chain. Make sure to cut the same length off each chain so that the seat remains level. Apply loctite to all shackle bolts and tighten.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



SWING SEAT HEIGHT REQUIREMENTS
CUT CHAIN OFF THE TOP,
TO ATTAIN 12" MINIMUM
SEAT HEIGHT, MAKE SURE TO
CUT EQUAL AMOUNTS OFF BOTH CHAINS.



IMPORTANT: APPLY LOCTITE
TO END OF BOLTS BEFORE TIGHTENING

550-0112

BELT SEAT, 8' PAIR, STD CHAIN

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
009-0063	GALVANIZED 4/0 CHAIN 86 3/4"	4
018-0022	MOLDED RUBBER SEAT	2
046-0089	SPACER 1.13" OD X .25"	4
046-0291	LOCTITE	1
046-0314	CLEVIS SHACKLE W/BOLT	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED 4/0 CHAIN 86 3/4": 3/8" diameter, 4/0 straight coil chain.

MOLDED RUBBER SEAT: Molded rubber, reinforced with a steel insert. Riveted galvanized attachment hardware.

SPACER 1.13" OD X .25": 1/4" Nylatron GS.

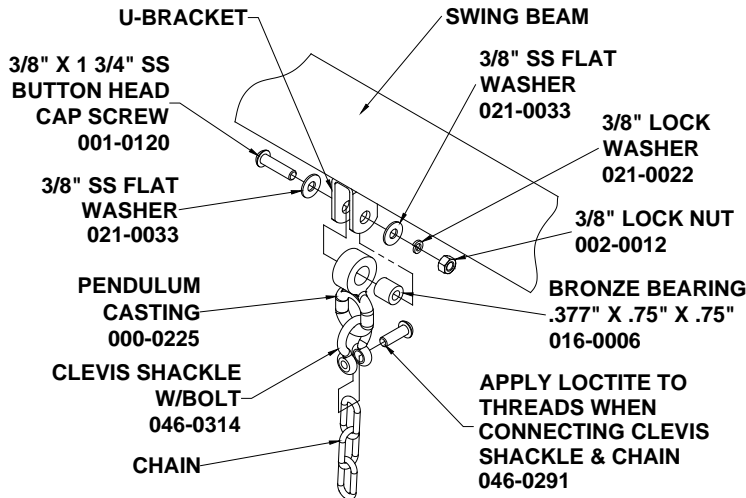
LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

CLEVIS SHACKLE W/BOLT: 5/16" Shackle with a 3/8" X 1 1/2" bolt.

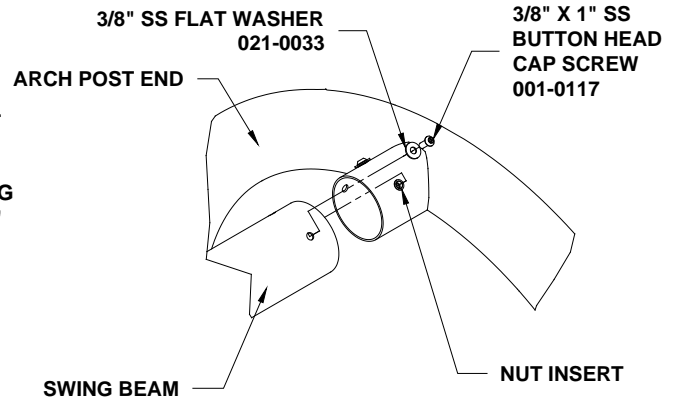
SHIPPING WEIGHT: 20 LBS.

INSTALLATION INSTRUCTIONS

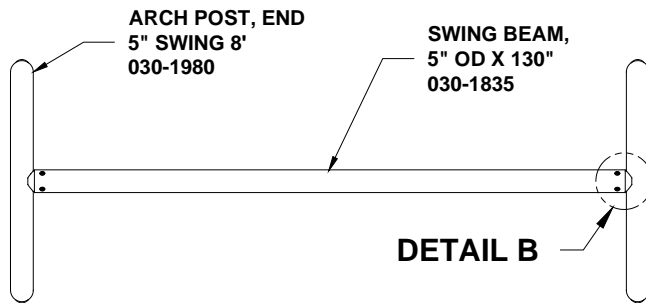
1. Unscrew bolt on swing hanger and attach swing CHAIN 4/0 to swing hanger. Apply LOCTITE to all bolts on hangers before tightening. See DETAIL B.
2. Unscrew bolt in CLEVIS SHACKLE and slide shackles onto both sides of MOLDED RUBBER SEAT. See DETAIL A.
3. Determine what length to cut the chains. Attach the seat to the chains with SPACER and shackle at your desired height. Note there must be a minimum of 12" below the seat between the underside of the seat and the top of the resilient material. When measuring, the seat must be pulled down as if someone were sitting in it and the resilient material must be at its finished depth.
4. With the seats at the desired heights and also attaining the 12" minimum clearance, cut and remove the excess chain. Make sure to cut the same length off each chain so that the seat remains level. Apply loctite to all shackle bolts and tighten.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



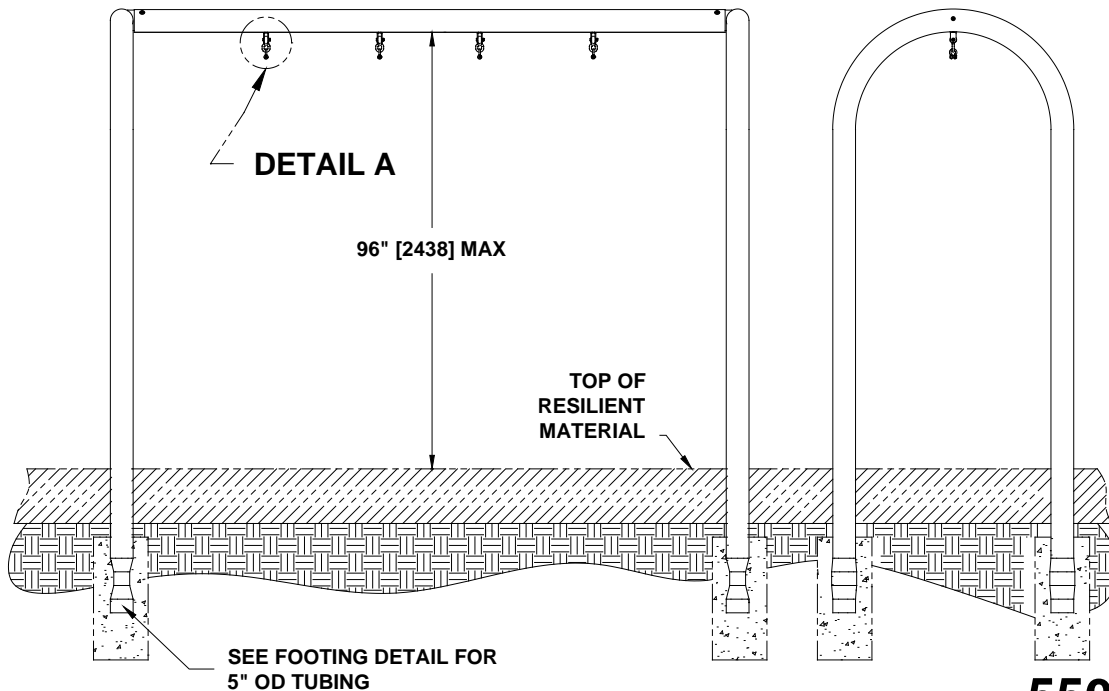
**DETAIL A
(4 PLACES)**



**DETAIL B
(2 PLACES)**

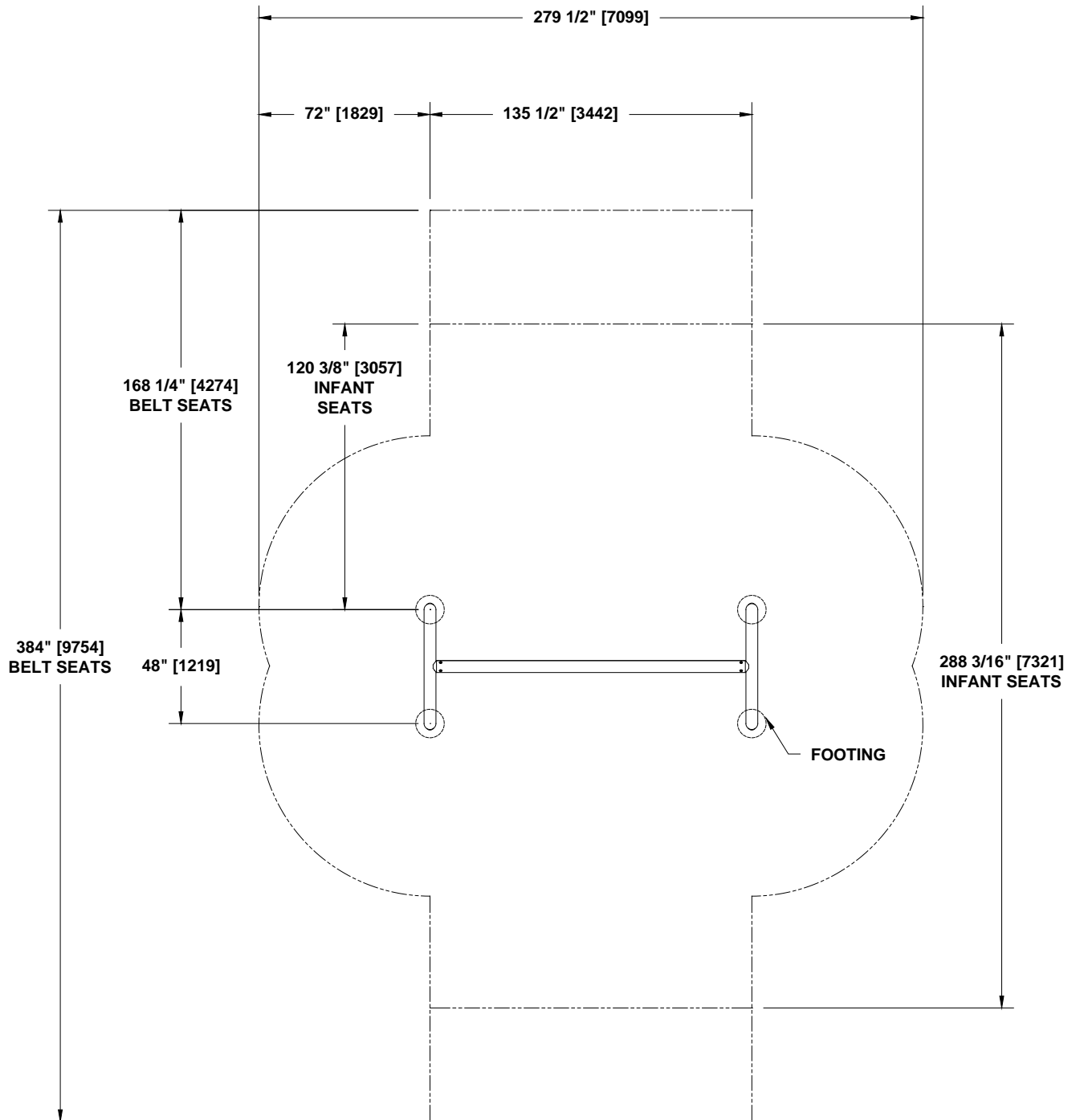


DETAIL B



550-0135

5" OD ARCH SWING



FALL ZONE PER ASTM/CPSC STANDARDS

550-0135 5" OD ARCH SWING

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0225	PENDULUM CASTING	4
016-0006	BRONZE BEARING .377" X .75" X .75"	4
030-1835	SWING BEAM, 5" OD X 130"	1
030-1980	ARCH POST END, 5" OD SWING	2
036-0227	HARDWARE PACKAGE	1
036-0788	HARDWARE PACKAGE	2
036-1414	HARDWARE PACKAGE	1
046-0291	LOCTITE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PENDULUM CASTING: Galvanize plated, grade 32510, malleable iron

BRONZE BEARING .377" X .75" X .75": Oil impregnated, bronze.

SWING BEAM, 5" OD X 130": One piece all welded construction consisting of 5" OD x 11 GA galvanized steel tubing and 8 GA galvanized steel plate. Finished with a baked on powder coating.

ARCH POST END, 5" OD SWING: One piece all welded construction consisting of 5" OD x 11 GA & 11/16" OD low carbon steel bar and 4 1/2" OD x 11 GA steel tubing w/cadmium and yellow chromate plating, and an assembly of 3/8" nut inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: 5/16" Shackle with a 3/8" X 1 5/32" bolt.

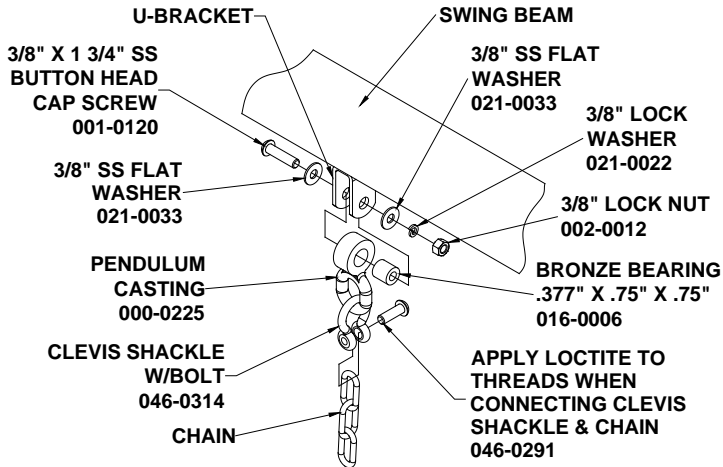
HARDWARE PACKAGE: Stainless steel washers & screws and zinc plated steel lock nuts & washers.

LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

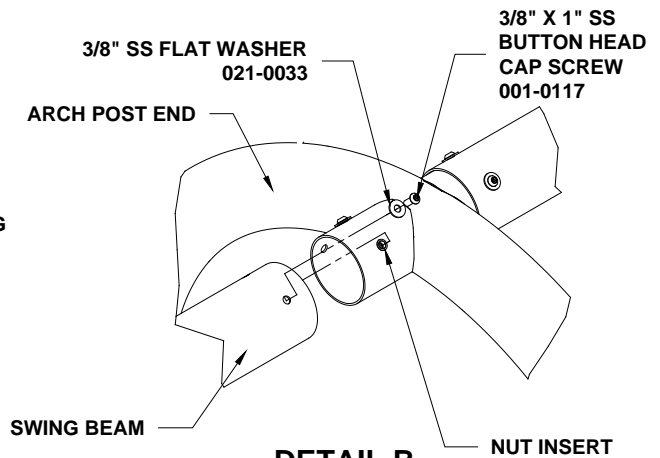
SHIPPING WEIGHT: 367 LBS.

INSTALLATION INSTRUCTIONS

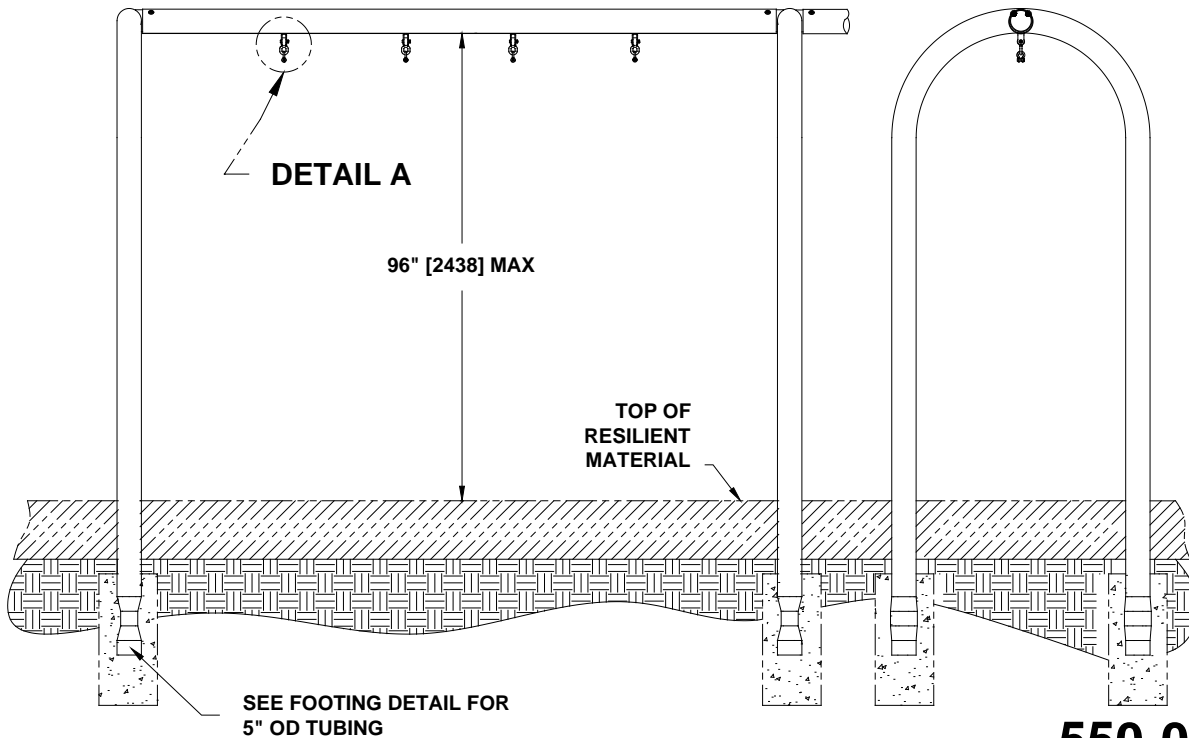
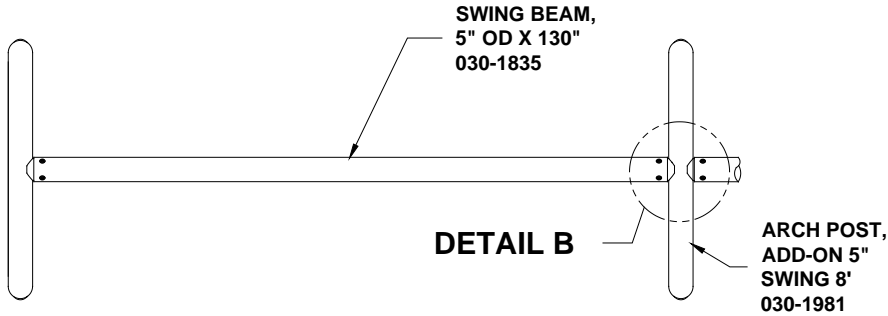
1. Determine 5" OD post locations per dimensions shown.
2. Dig footing holes. See typical concrete footing drawing for 5" OD posts, which is located in the preface of the installation manual.
3. Attach 5" OD x 130" SWING BEAM to both ARCH POST, END 5" OD SWING by sleeving the swing beam over arch post stub and fasten using 3/8" X 1" SS button head cap screws and 3/8" SS flat washers. Tighten hardware. See DETAIL B.
4. Position frame into footing holes. Block up, plumb, and level frame.
5. Pour concrete and allow it to set for 2 to 3 days.
6. Insert BRONZE BEARING .377" X .75" X .75" into PENDULUMS and attach to swing beam as shown in DETAIL A. Tighten hardware.
7. Attach swing chain to pendulum using CLEVIS SHACKLE W/ BOLT. Tighten hardware. See DETAIL A.
8. **INSTALL RESILIENT SURFACING MATERIAL.**



**DETAIL A
(4 PLACES)**

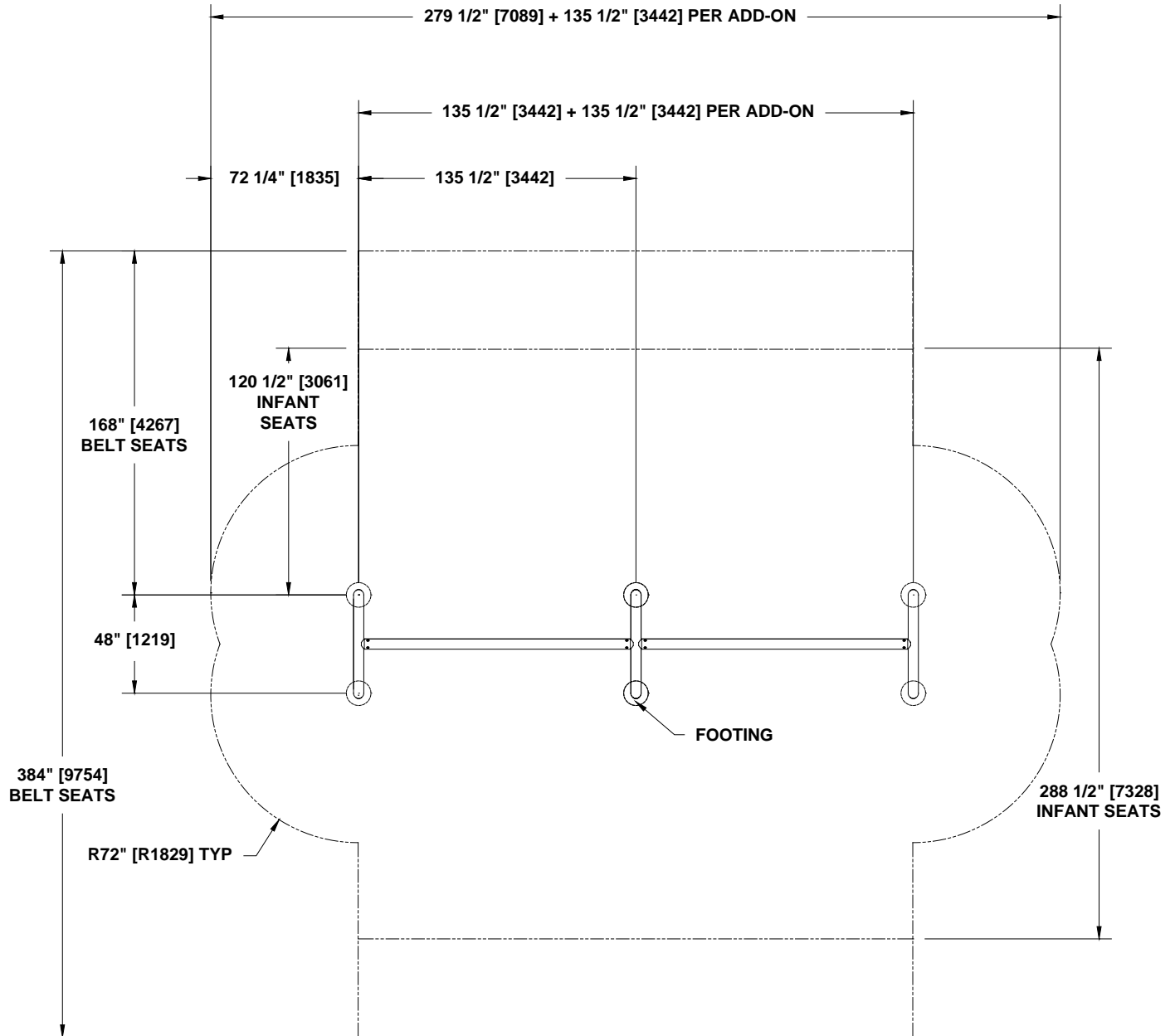


**DETAIL B
(2 PLACES)**



550-0136

5\"/>



FALL ZONE PER ASTM/CPSC STANDARDS

550-0136 5" OD ARCH SWING ADD-ON

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0225	PENDULUM CASTING	4
016-0006	BRONZE BEARING .377" X .75" X .75"	4
030-1835	SWING BEAM, 5" OD X 130"	1
030-1981	ARCH POST, ADD-ON 5" OD SWING	1
036-0227	HARDWARE PACKAGE	1
036-0788	HARDWARE PACKAGE	2
036-1414	HARDWARE PACKAGE	1
046-0291	LOCTITE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PENDULUM CASTING: Galvanize plated, grade 32510, malleable iron

BRONZE BEARING .377" X .75" X .75": Oil impregnated, bronze.

SWING BEAM, 5" OD X 130": One piece all welded construction consisting of 5" OD x 11 GA galvanized steel tubing and 8 GA galvanized steel plate. Finished with a baked on powder coating.

ARCH POST, ADD-ON 5" OD SWING: One piece all welded construction consisting of 5" OD x 11 GA & 3/8" Schedule 40 galvanized steel pipe and 4 1/2" OD x 11 GA steel tubing w/cadmium and yellow chromate plating, and an assembly of 3/8" nut inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: 5/16" Shackle with a 3/8" X 1 5/32" bolt.

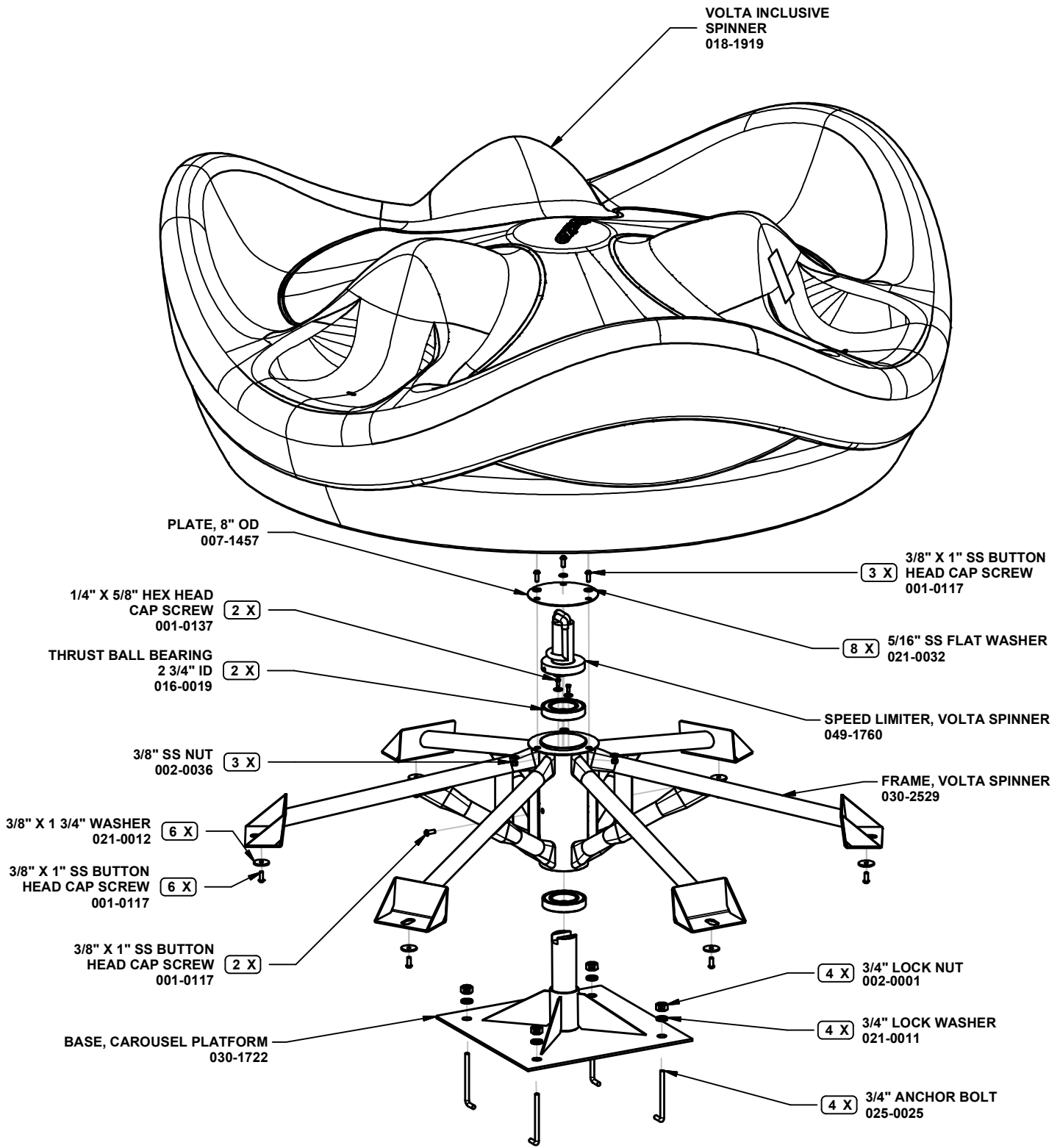
HARDWARE PACKAGE: Stainless steel washers & screws and zinc plated steel lock nuts & washers.

LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

SHIPPING WEIGHT: 224 LBS.

INSTALLATION INSTRUCTIONS

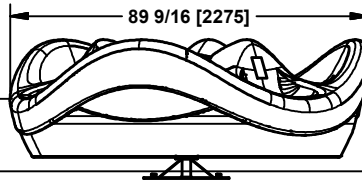
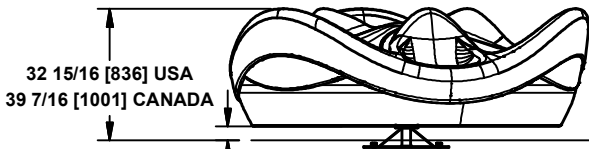
1. Determine 5" OD post locations per dimensions shown.
2. Dig footing holes. See typical concrete footing drawing for 5" OD posts, which is located in the preface of the installation manual.
3. Attach 5" OD x 130" SWING BEAM to arch post end and ARCH POST, ADD-ON 5" SWING 8' by sleeving the swing beam over arch post and fasten using 3/8" X 1" SS button head cap screws. Tighten the hardware. See DETAIL B.
4. Position frame into footing holes. Block up, plumb, and level frame.
5. Pour concrete and allow it to set for 2 to 3 days.
6. Insert BRONZE BEARING .377" X .75" X .75" into PENDULUMS and attach to swing beam as shown in DETAIL A. Tighten hardware.
7. Attach swing chain to pendulum using CLEVIS SHACKLE W/ BOLT. Tighten hardware. See DETAIL A.
8. **INSTALL RESILIENT SURFACING MATERIAL.**



EXPLODED ASSEMBLY VIEW

560-2579 VOLTA INCLUSIVE SPINNER

SIDE VIEW



FRONT VIEW

INSTALL AT 3 [76] FOR COMPLIANCE TO US STANDARDS ASTM F1487
INSTALL AT 9 1/2 [241] FOR COMPLIANCE TO CANADIAN STANDARDS CSA Z614

18 1/8 [460] USA
24 5/8 [625] CANADA

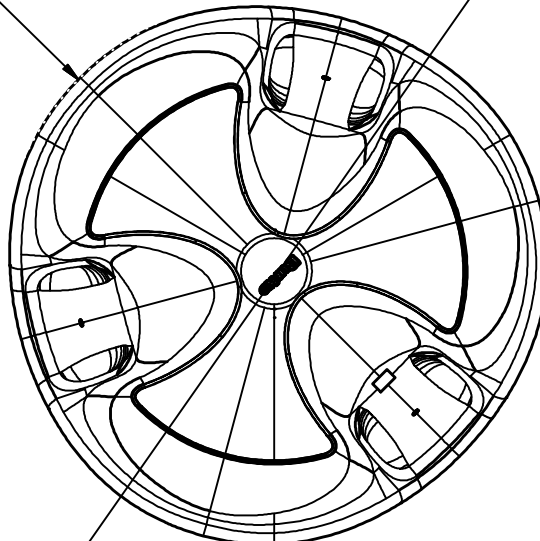
TOP OF RESILIENT MATERIAL

REFER TO THE "TYPICAL CONCRETE FOOTINGS" SECTION FOR PROPER FOOTING INSTALLATION

USE ZONE

Ø236 9/16 [6008] USA
Ø306 9/16 [7786] CANADA

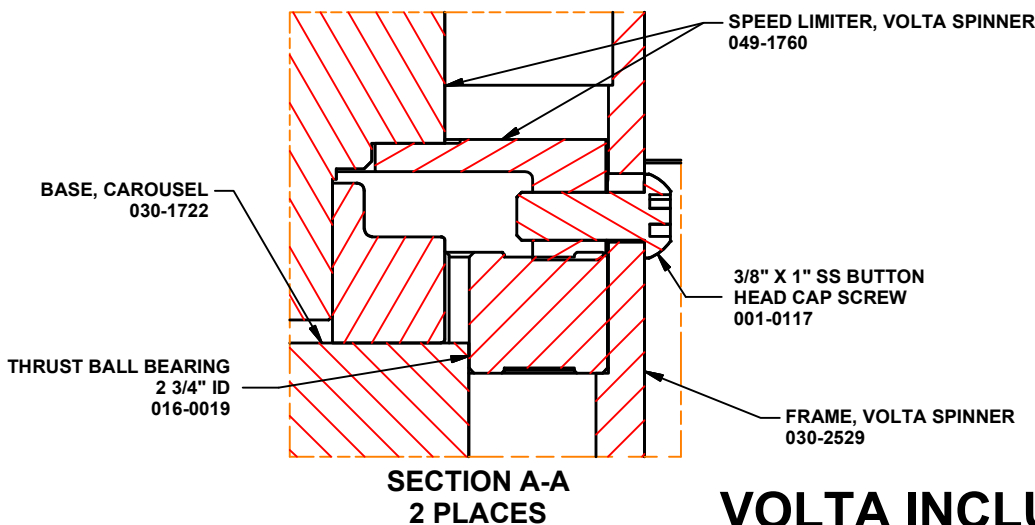
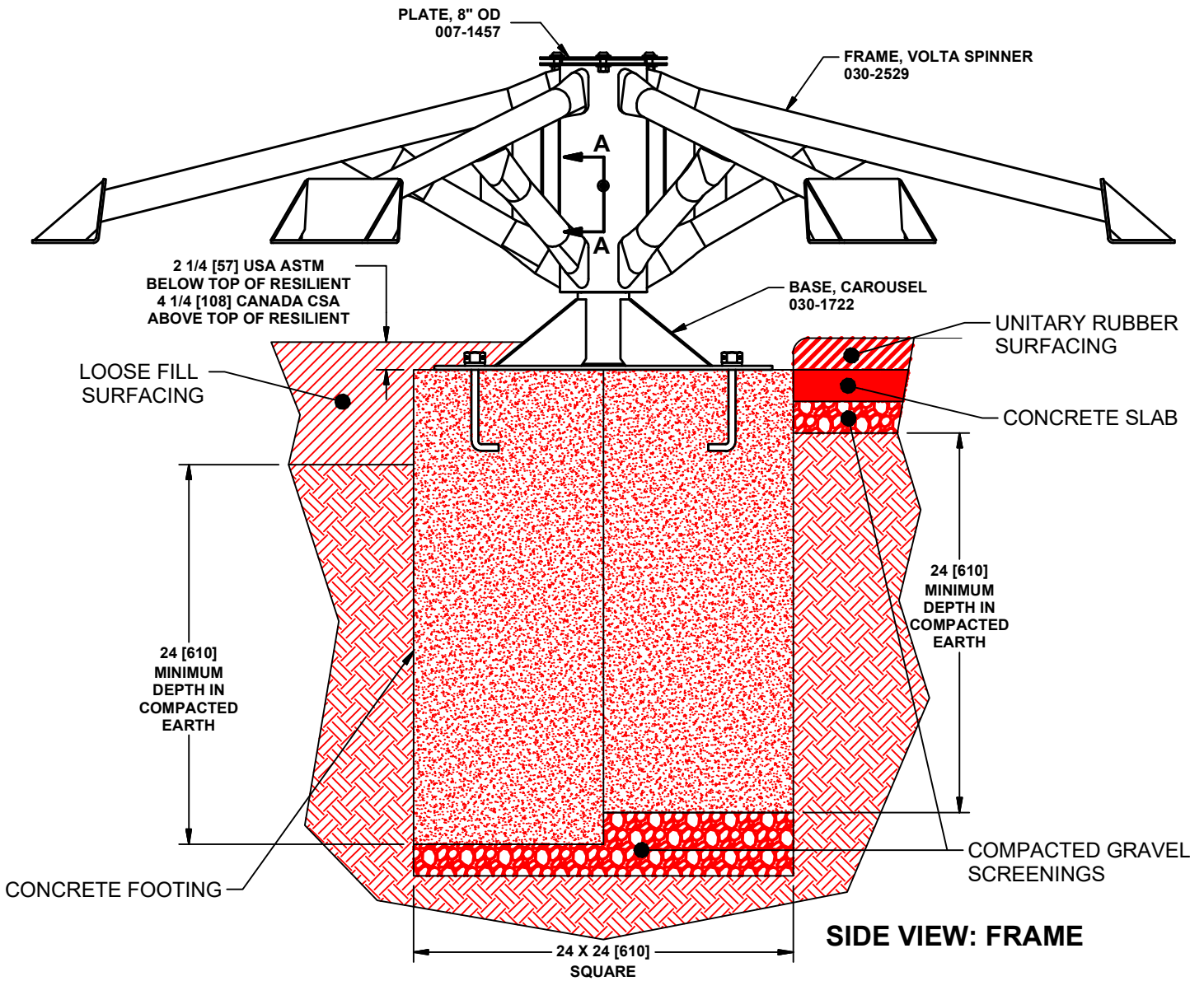
72 [1829] USA ASTM
107 [2700] CANADA CSA



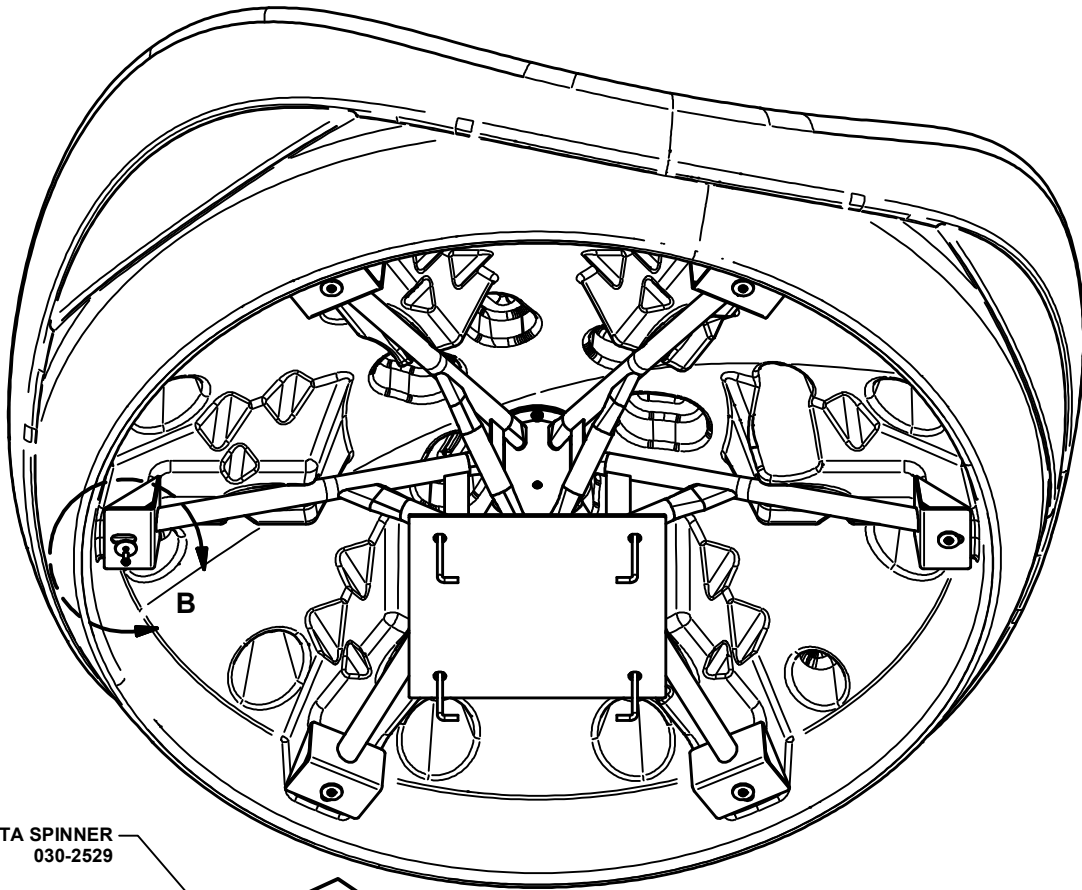
TOP VIEW

560-2579

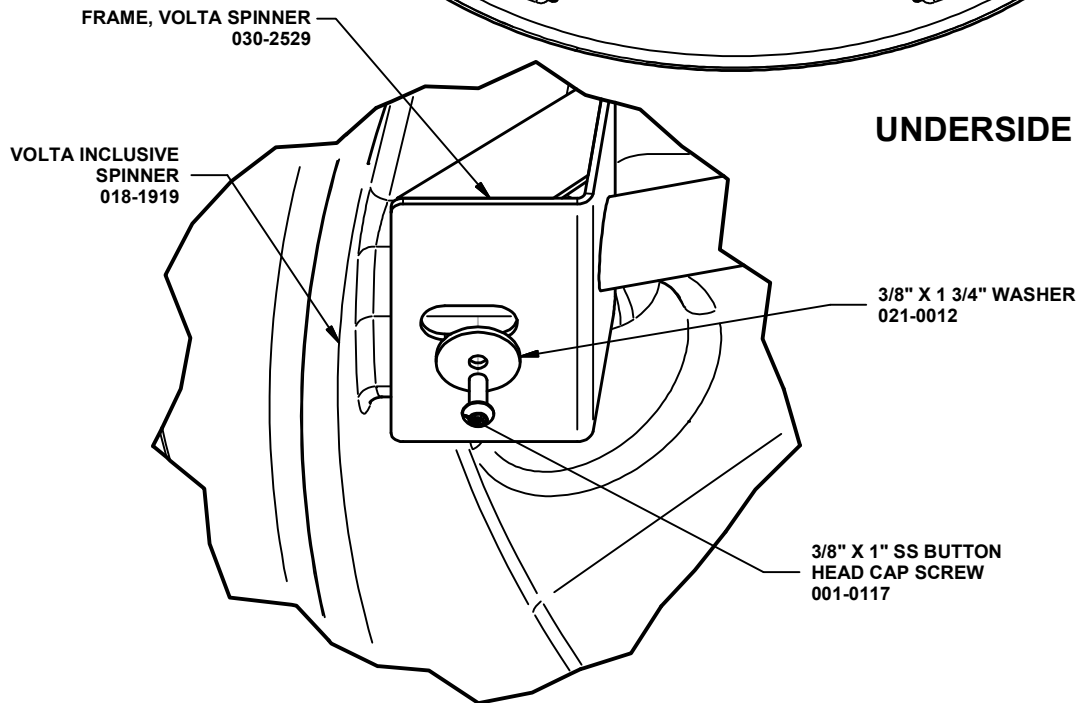
VOLTA INCLUSIVE SPINNER



560-2579
VOLTA INCLUSIVE SPINNER



UNDERSIDE VIEW



**DETAIL B
(6 PLACES)**

560-2579

VOLTA INCLUSIVE SPINNER

PARTS LIST

PART NO.	DESCRIPTION	QTY
007-1457	PLATE, 8" OD	1
016-0019	THRUST BALL BEARING 2 3/4" ID	2
018-1919	VOLTA INCLUSIVE SPINNER	1
030-1722	BASE, CAROUSEL PLATFORM	1
030-2529	FRAME, VOLTA SPINNER	1
036-0258	HARDWARE PACKAGE	4
036-0879	HARDWARE PACKAGE	3
036-1433	HARDWARE PACKAGE	1
049-1760	SPEED LIMITER, VOLTA SPINNER	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PLATE, 8" OD: 8" OD x 12 GA galvanized steel plate

THRUST BALL BEARING 2 3/4" ID: Heavy duty, precision thrust, sealed ball bearing.

VOLTA INCLUSIVE SPINNER: Linear, low density rotationally molded, U.V. stabilized, polyethylene, .250" thick, double wall construction. Textured outside surface.

BASE, CAROUSEL PLATFORM: One piece all welded construction consisting of 3 1/4" OD DOM steel tubing, 1/4" & 7 GA HR steel plate, and 2 3/4" dia. steel round with e-coat plating. Finished with a baked on powder coat.

FRAME, VOLTA SPINNER: One piece all welded construction consisting of 5 1/2" OD x 3/8" wall DOM steel tubing hub with 1.9" OD galvanized steel support arms, 8 GA mounting plate, 12 GA mounting plate, and 12 GA preventative plate

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: Stainless steel screw and nut, and zinc plated steel washer.

HARDWARE PACKAGE: Zinc plated steel screws, nuts, washers & anchor bolts and stainless steel washers.

SPEED LIMITER, VOLTA SPINNER: Assembly consisting of a high torque low speed hydraulic motor with flow control valving, a stainless steel motor coupling, a steel bracket, stainless steel set screws, zinc plated steel hardware, steel hydraulic fittings and hose ends.

SHIPPING WEIGHT: 413.5 LBS.

INSTALLATION INSTRUCTIONS

1. Determine correct footing location for spinner to be installed.
2. Dig footing. **NOTE:** Hole size and depth may vary depending on local soil, weather conditions and type of resilient material. There is a minimum 24" depth of footing in compacted earth, so the overall height of the footing will be greater than 24" and will be based on the type of surfacing and sub-surfacing used.
3. Pour concrete into footing hole and level off. Using BASE, CAROUSEL PLATFORM as a template, insert 3/4" anchor bolts into the concrete. Remove base, carousel platform. Allow concrete to set 2 to 3 days. **IMPORTANT NOTE:** Allow enough thread on anchor bolts to secure base to footing. Place base, carousel platform into position.

After Concrete has set:

4. Attach base to anchor bolts using 3/4" lock washers and 3/4" lock nuts. Tighten nuts and peen bolts. See EXPLODED ASSEMBLY VIEW.
5. Apply a liberal amount of grease to the inside of the spinner frame housing and base support shaft.
6. Tap the bottom THRUST BEARING onto BASE, CAROUSEL PLATFORM and the top THRUST BEARING into the FRAME, VOLTA SPINNER housing using a block of wood and a hammer. Then slide FRAME, VOLTA SPINNER and second bearing onto the shaft of the BASE, CAROUSEL PLATFORM and secure using hardware specified in EXPLODED ASSEMBLY VIEW. Make sure both bearings are completely seated.
7. Position SPEED LIMITER, VOLTA SPINNER in housing and secure motor assembly using hardware specified in SECTION A-A.
8. Position PLATE, 8" OD on top of FRAME, VOLTA SPINNER to cover housing. Secure PLATE, 8" OD and through holes in FRAME, VOLTA SPINNER using hardware specified in EXPLODED ASSEMBLY VIEW
9. Position VOLTA INCLUSIVE SPINNER on top of FRAME, VOLTA SPINNER. Align the 6 holes in the spinner with the 6 channels in the plate on the frame. Secure spinner to the frame using hardware specified in DETAIL B. **NOTE:** Do not over-tighten screws.
10. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

Playground Installation Instructions: Sherman Village Park

SHERMAN PARK

MADISON, WI - OPTION 2-2 - VIEW A

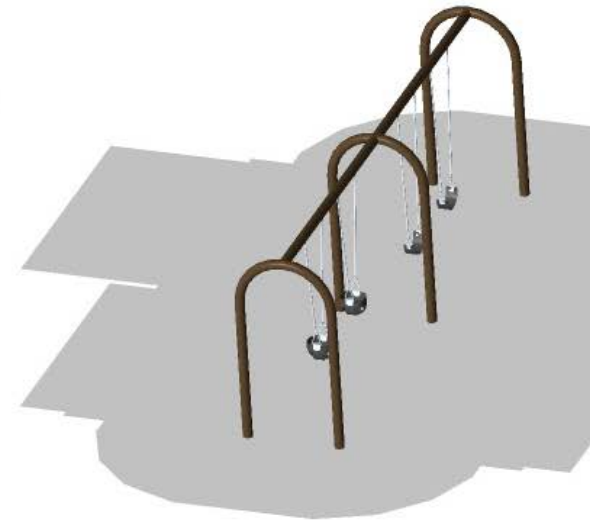
LER
LEE
RECREATION, LLC

Office (800) 775-8937
Fax (608) 423-7655

260 W. Main Street
Cambridge, WI 53523

info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



SHERMAN PARK

MADISON, WI - OPTION 2-2 - VIEW B

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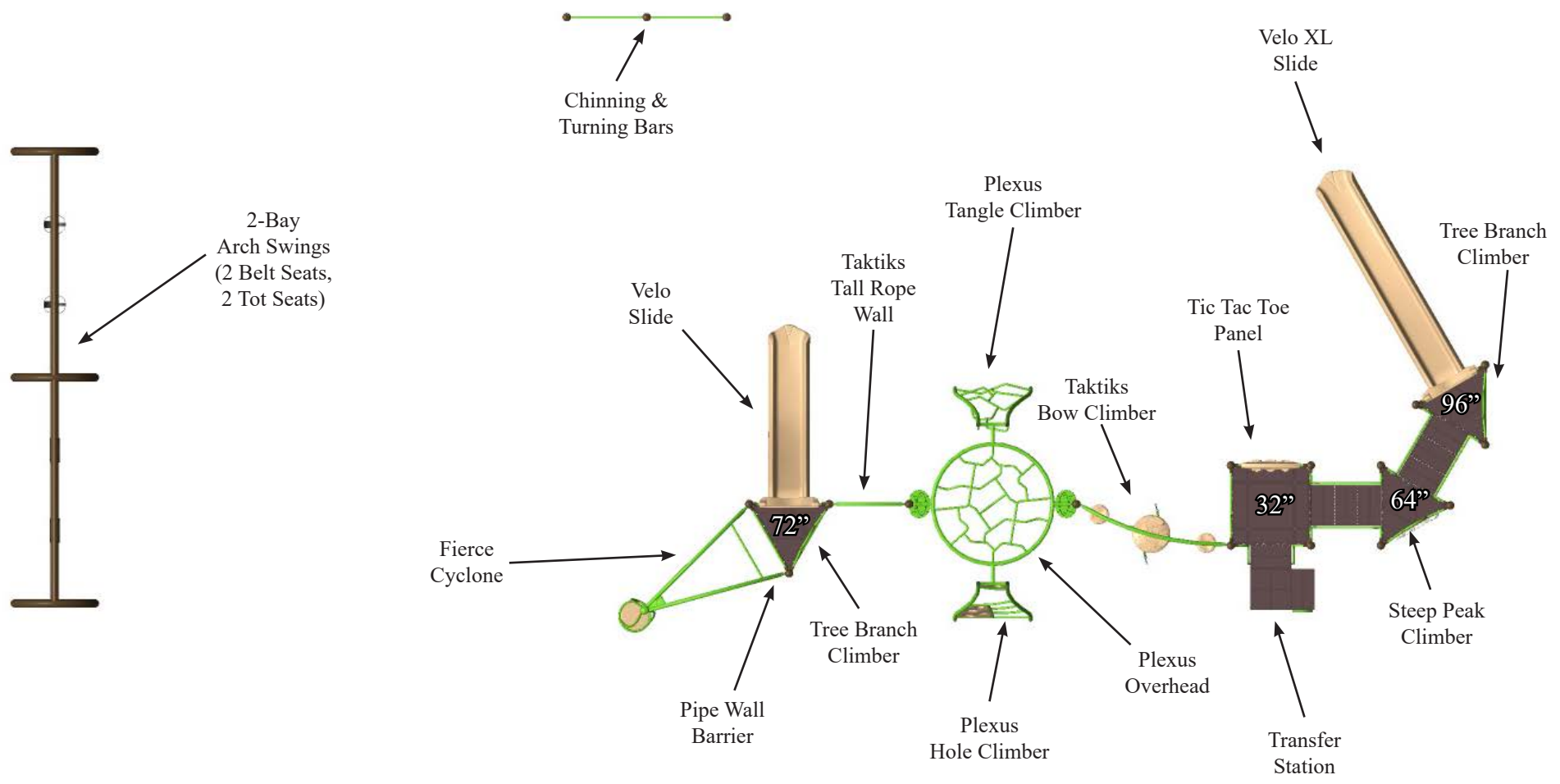
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SHERMAN PARK

MADISON, WI - OPTION 2-2 - OVERVIEW

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INFORMATION
MINIMUM FALL ZONE
SURFACED WITH
RESILIENT MATERIAL
AREA

2343 SQ.FT.

PERIMETER

366 FT.

STRUCTURE SIZE

43' 4" x 93' 10"

STRUCTURE IS DESIGNED
FOR CHILDREN AGES:

- 6-23 MONTH OLDS
- 2-5 YEAR OLDS
- 5-12 YEAR OLDS
- 13 + YEAR OLDS



Registered
to ISO 9001

Registered
to ISO 14001

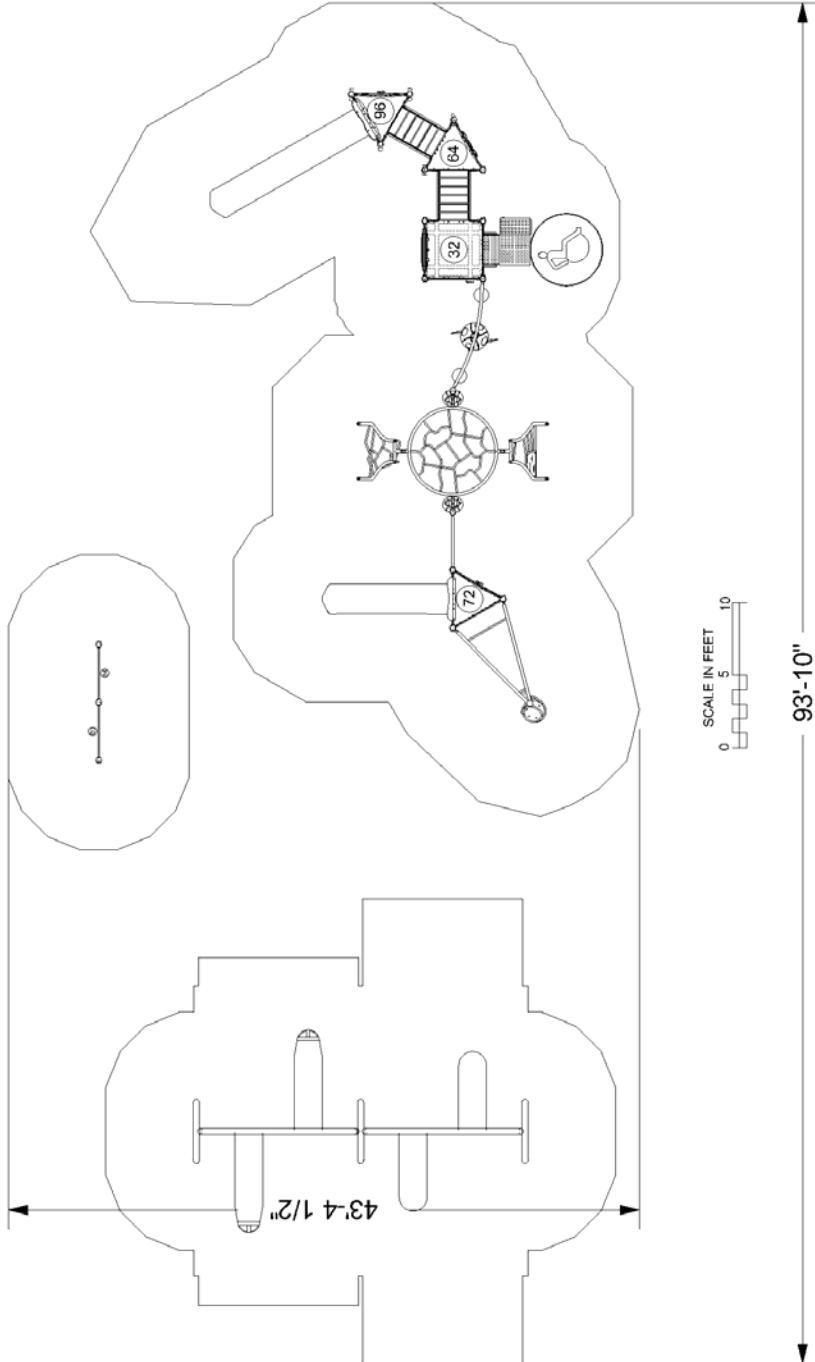


To verify product certification,
visit www.ipema.org

The play components identified
in this plan are IPEMA
certified. The use and layout of
these components conform to the
requirements of ASTM F1487.
To verify product certification,
visit www.ipema.org

The space requirements shown
here are to ASTM standards.
Requirements for other standards
may be different.

The use and layout of play
components identified in this plan
conform to the CPSC guidelines.
U.S. CPSC recommends the
separation of age groups in
playground layouts.



93'-10"

SIDEWALK

WARNING!

ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH
AND AROUND THIS EQUIPMENT.
FOR SLIDE FALL ZONE SURFACING AREA SEE CPSC's Handbook for
Public Playground Safety.
PLATFORM HEIGHTS ARE IN INCHES ABOVE RESILIENT MATERIAL.

ADA ACCESSIBILITY GUIDELINE (ADAAG CONFORMANCE)

NUMBER OF PLAY EVENTS:	19
NUMBER OF ELEVATED PLAY EVENTS:	6
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP:	PROVIDED: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY TRANSFER SYSTEM:	PROVIDED: 5
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP OR TRANSFER SYSTEM:	PROVIDED: 11
NUMBER OF GROUND LEVEL PLAY EVENTS:	RECD: 3
NUMBER OF TYPES OF GROUND LEVEL PLAY EVENTS:	RECD: 6
NUMBER OF PLAY EVENTS:	RECD: 0
NUMBER OF ELEVATED PLAY EVENTS:	RECD: 4
NUMBER OF GROUND LEVEL PLAY EVENTS:	RECD: 3



March 25, 2019

SERIES: Basics, Intensity, Nucleus

Sherman Park

Lee Recreation, LLC

SITE PLAN

1226 Delaware Blvd

142-114471-2

DRAWN BY: Jacinda Pearson

Madison, WI 53704

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

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SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) *A Handbook for Public Playground Safety*** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-*Children's Playspaces and Equipment* A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

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PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

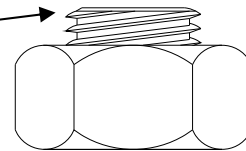


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. ***NOTE:** In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets.* See typical mount bracket assembly drawings located in the installation instructions section.

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

GENERAL INSTALLATION GUIDELINES

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

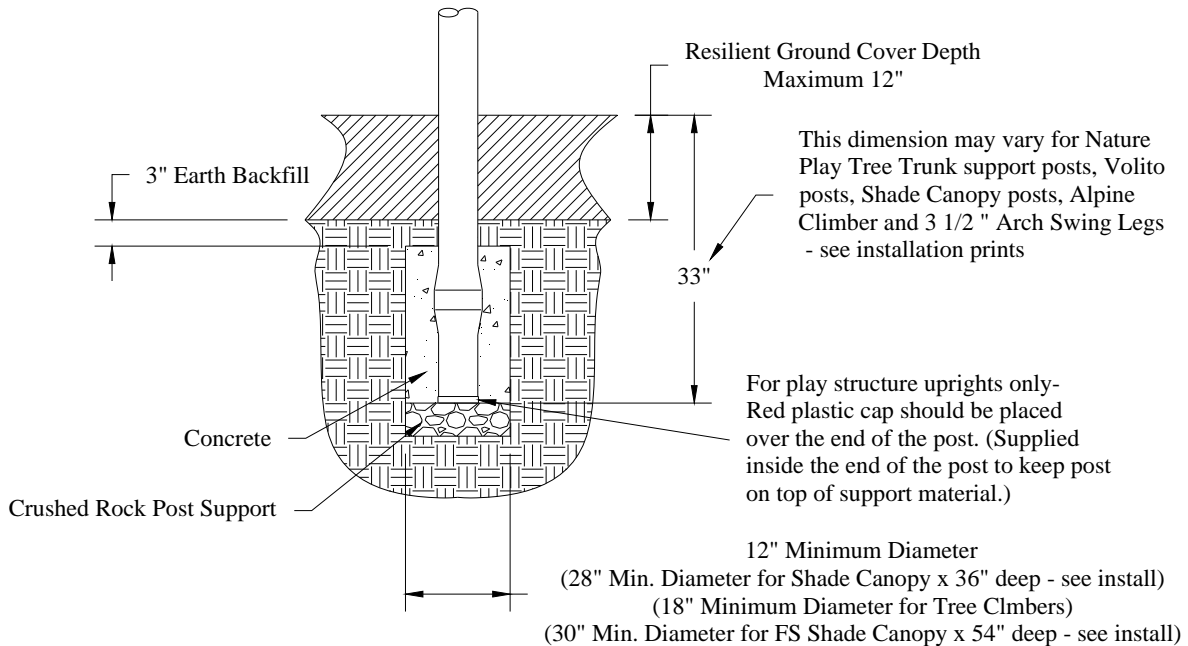


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

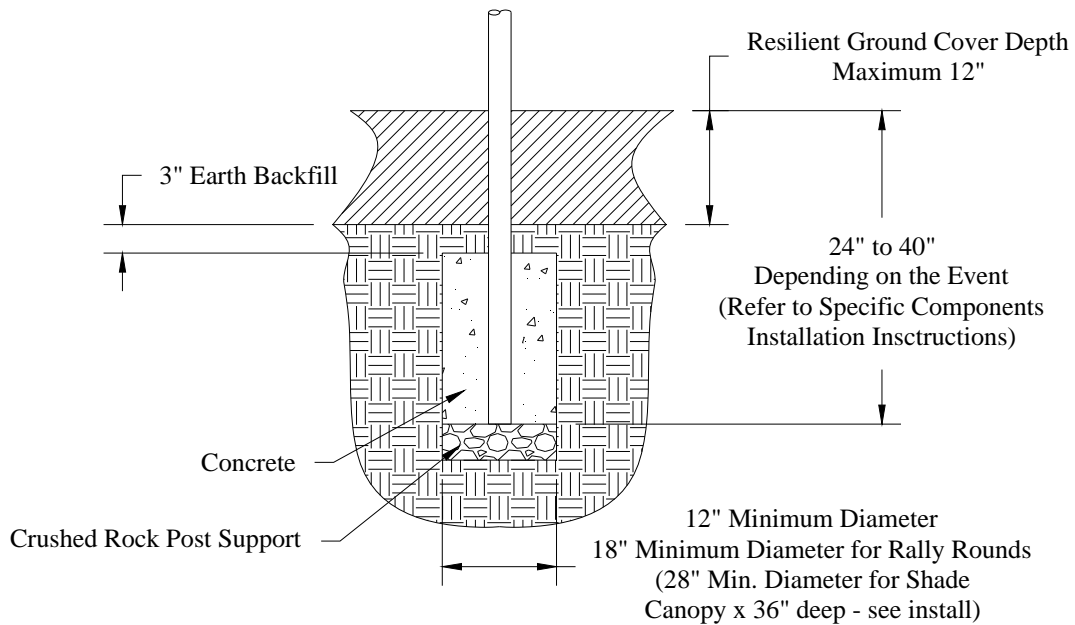


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

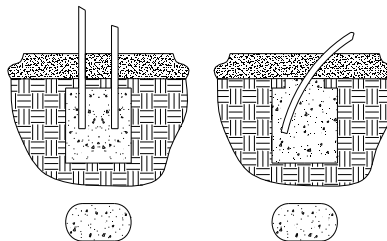


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

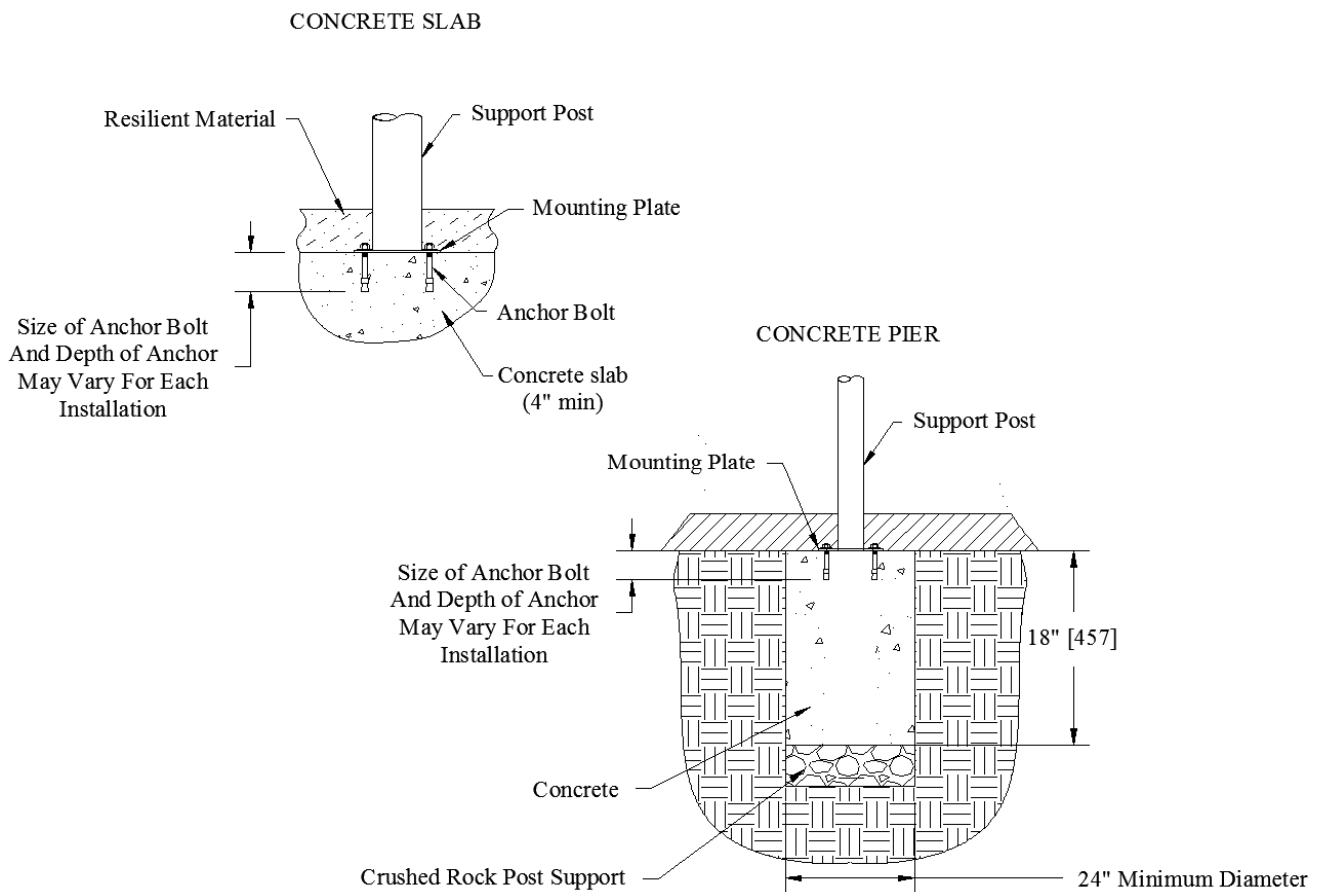


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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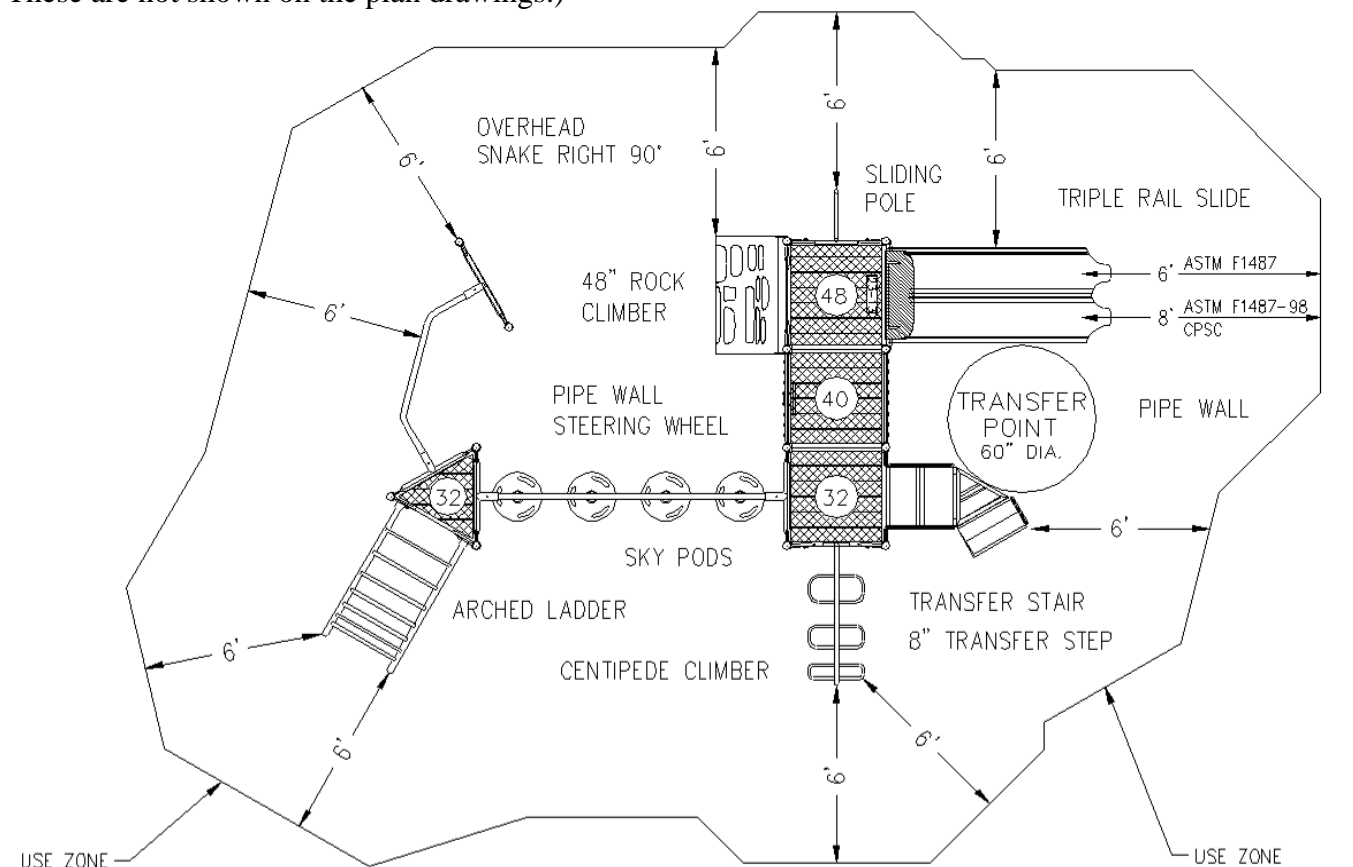
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

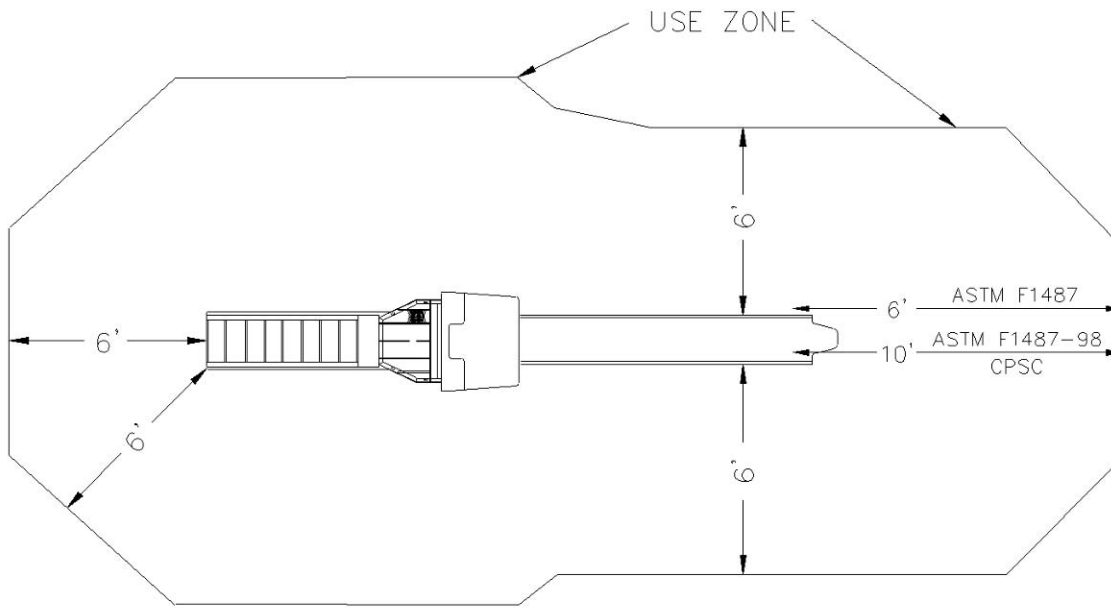


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of Y + 72 in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

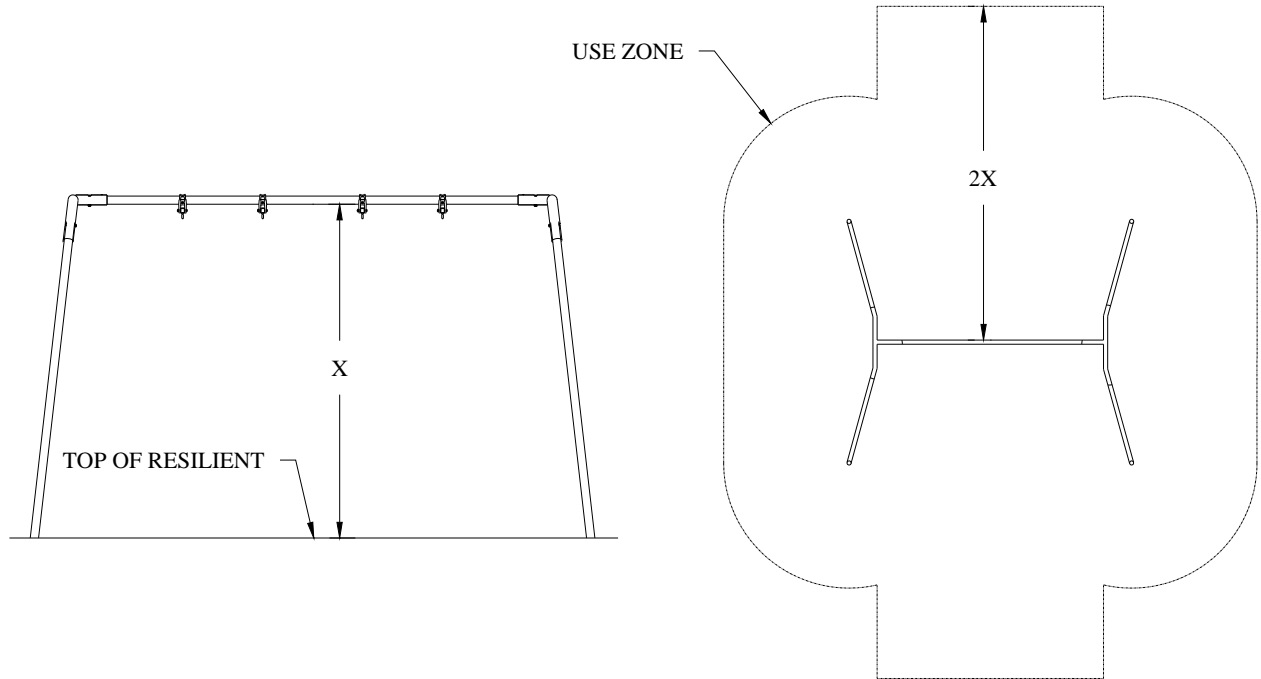


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

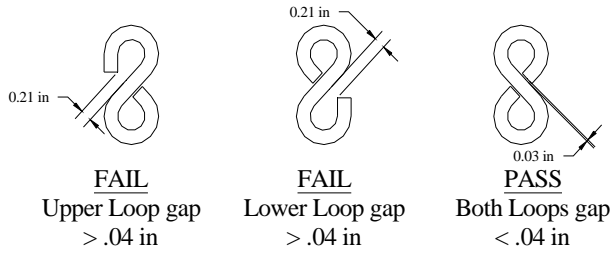


Figure 9: Check loops for .04" gap

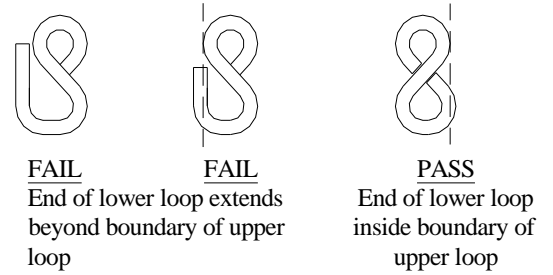


Figure 10: Check lower loop projection



Figure 11: Check upper loop projection

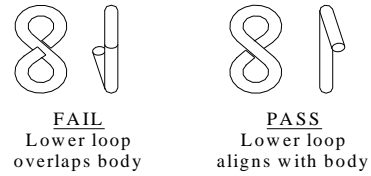


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

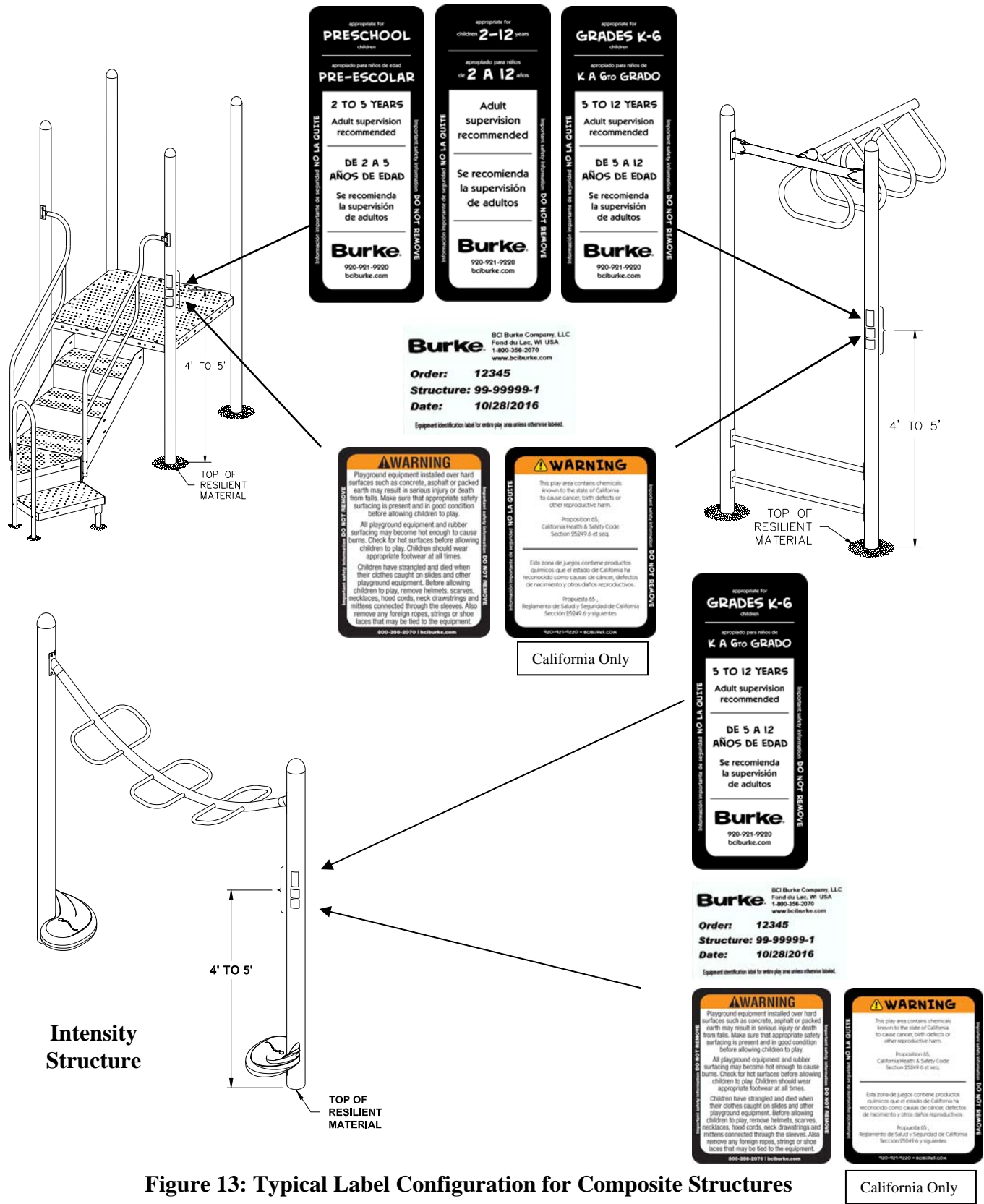


Figure 13: Typical Label Configuration for Composite Structures

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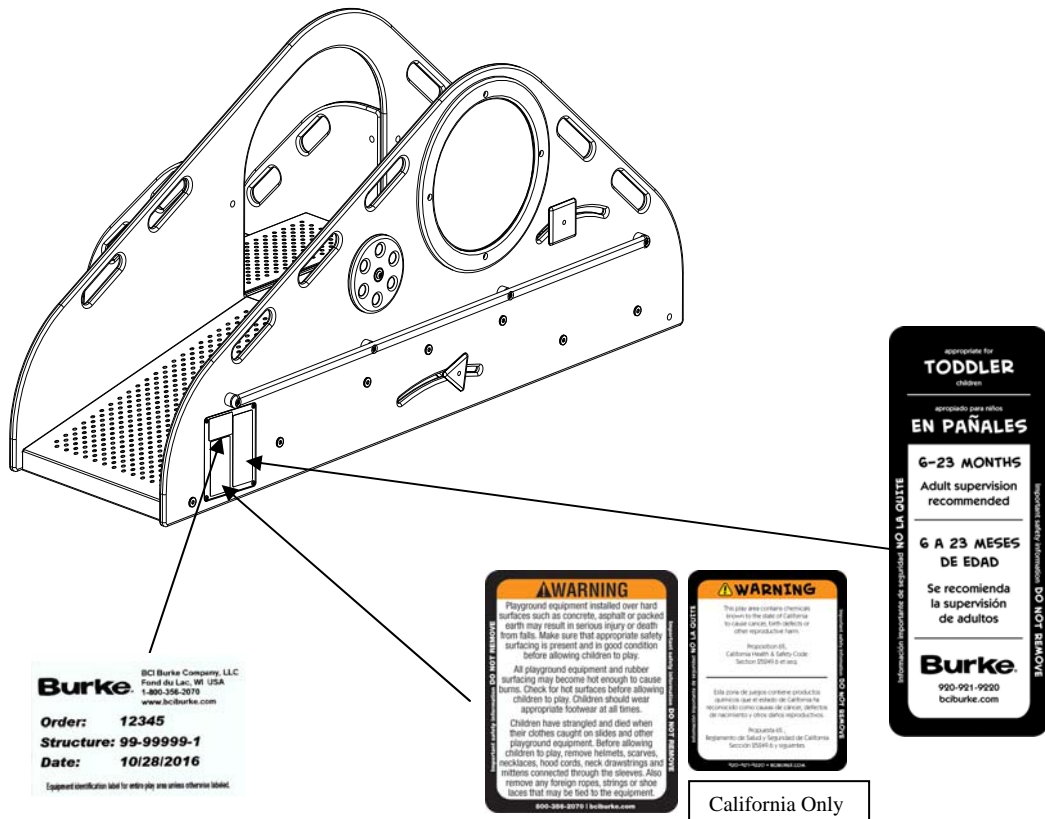


Figure 14: Typical Label Configuration for Composite Structures

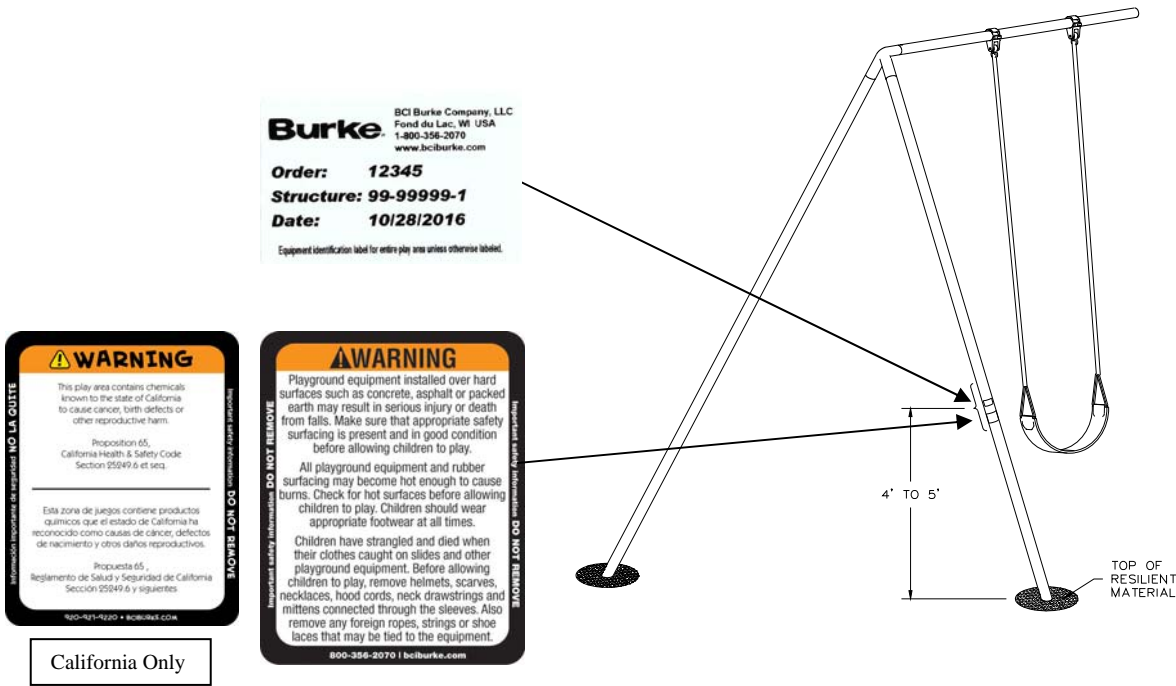


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.
- Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.
 - Clean dried concrete off support posts and any other affected components
 - Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.
 - Insure all post ends have properly installed post caps. Insure the drive rivets are secure.
 - Insure all fasteners are tightened according to specifications listed on your installation instructions.
 - Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.
- Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.
 - Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.
 - Touch up any exposed metal on coated parts following the instructions in the Maintenance section.
 - Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.
 - Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.
 - Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.
 - Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.

Inspected by: _____

Inspection Date: _____

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For questions, call us at:
1-800-356-2070

MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris. **DO NOT** use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

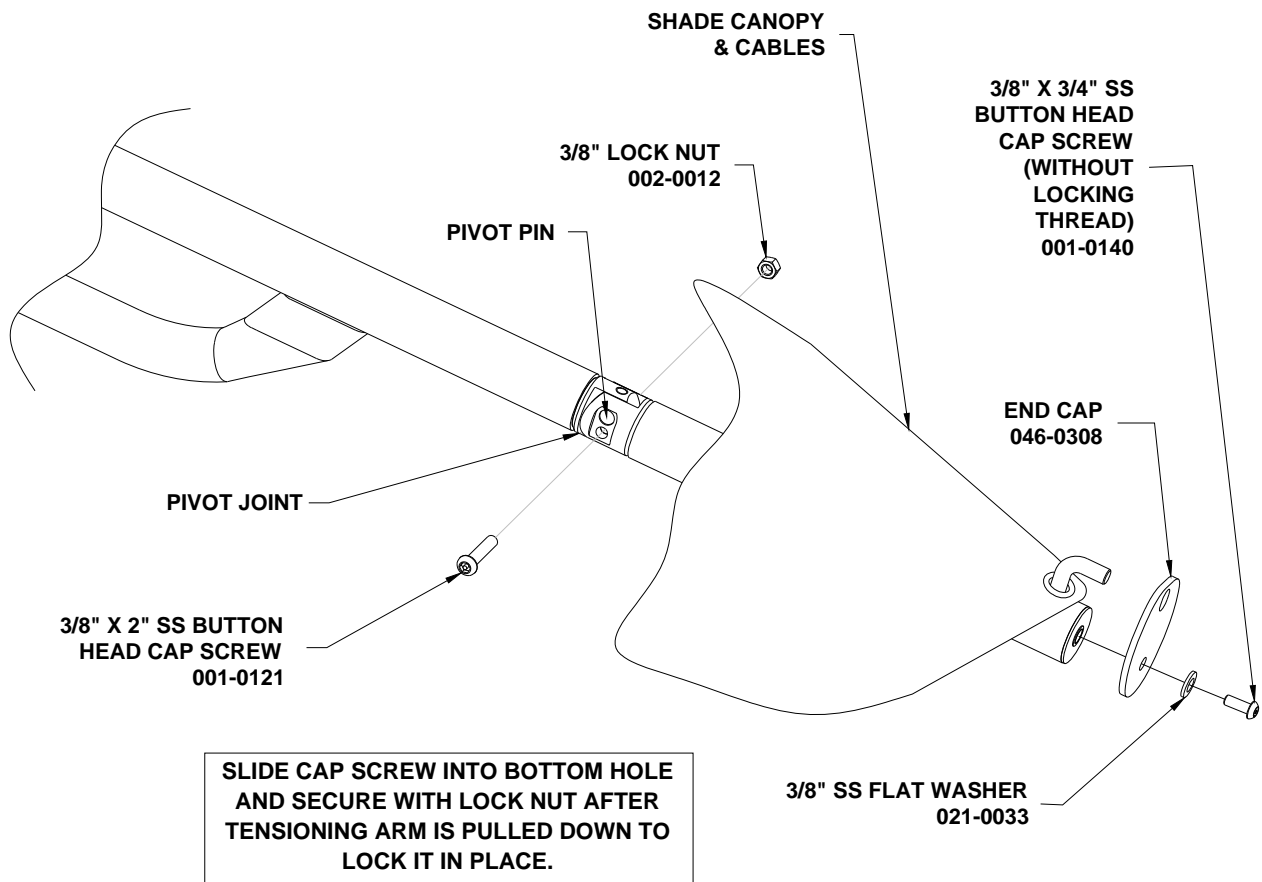


Figure 16: Tensioning Arm in 'Closed Position'

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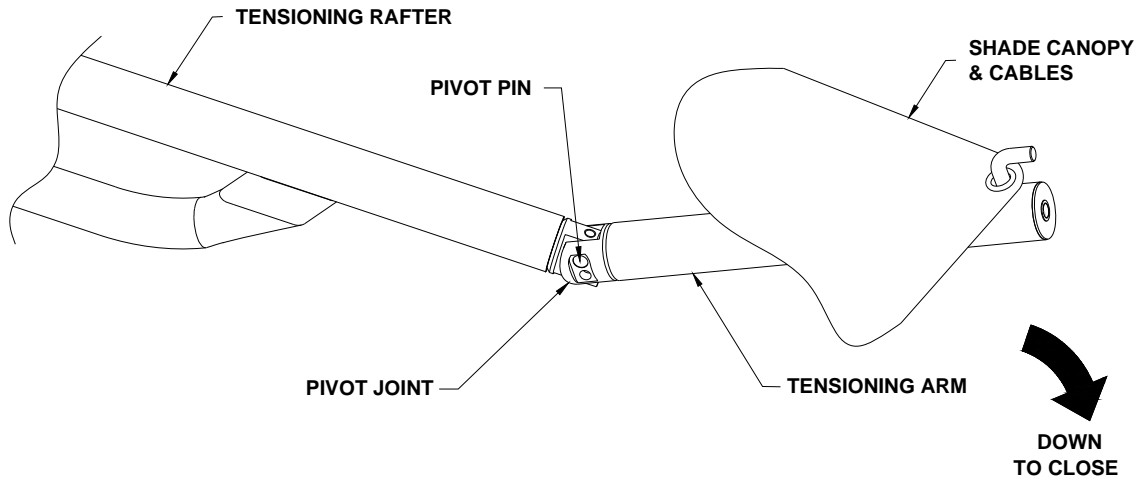


Figure 17: Tensioning Arm in 'Open Position'

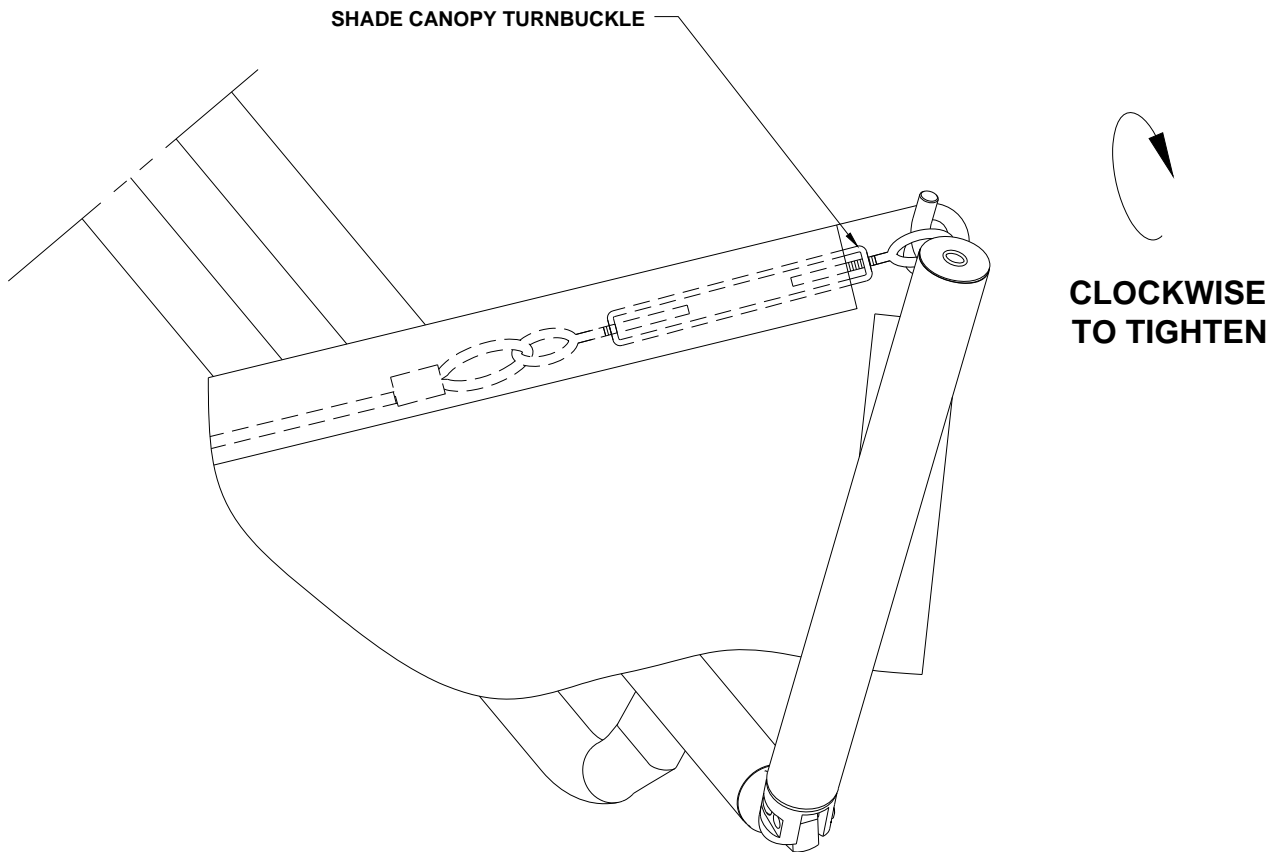


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope **AFTER** flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																		
Visible cracks, bending, warping																		
Accessible sharp edges or points																		
Rusted metal surfaces																		
Rusting of metal and corrosion on aluminum																		
Deformation of open hooks, rings, links, etc.																		
Worn swing hangers and chain																		
Missing or damaged swing seats																		
Heavy swing seats with sharp corners or edges																		
Broken supports/anchors																		
Jagged, exposed or cracked and loose concrete footing																		
Inadequate surfacing material under equipment																		
Exposed ends of pipe. Missing caps or plugs																		
Protruding bolt ends																		
Chipped or peeling paint																		
Cuts or fraying in rope with exposed steel reinforcement strands																		
Vandalism, broken glass, trash, etc.																		
Broken or missing rails, steps, rungs, seats																		
Loose or missing hardware																		
Pinch or crush points																		
Moving components, etc.																		
Lack of lubrication on moving parts																		
Worn bearings																		
Poor drainage areas at footings, slide exits, etc																		
Vandalized or cracked PVC coating																		

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

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SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

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For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnnect[®] clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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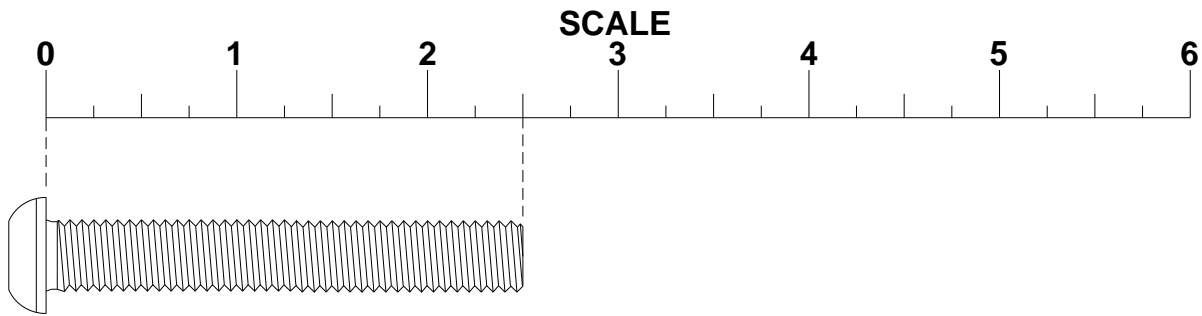
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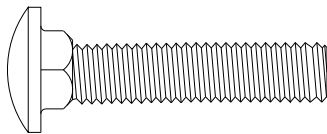
APPENDIX

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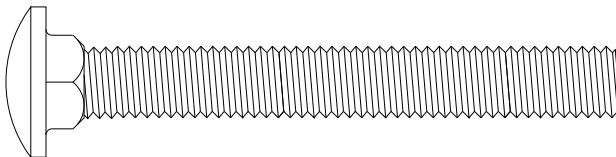


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

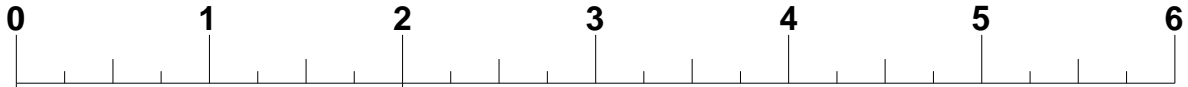
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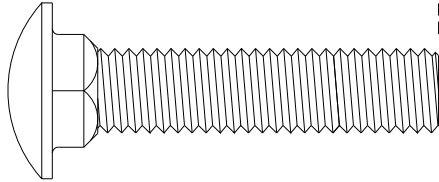
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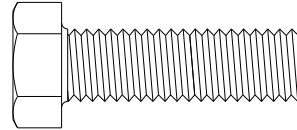
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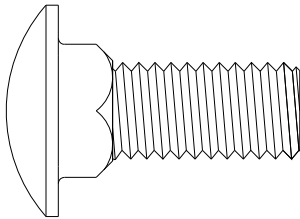
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



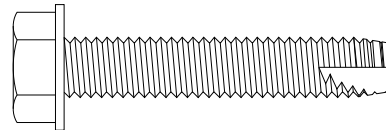
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4" SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4" SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

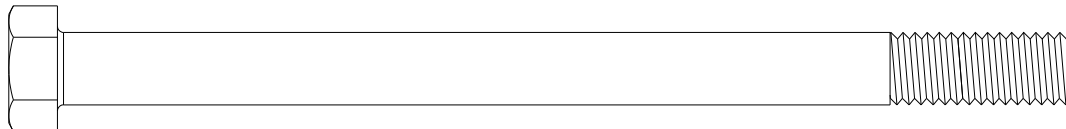


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

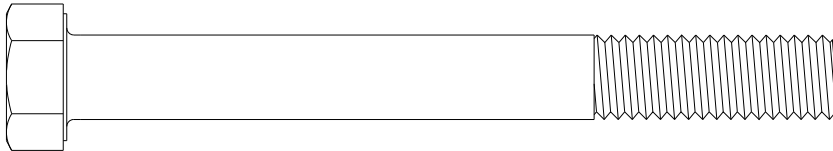
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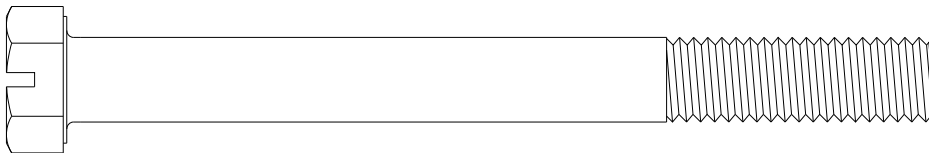
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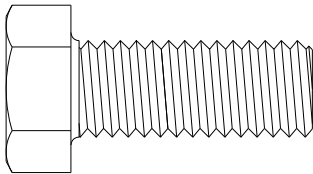
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

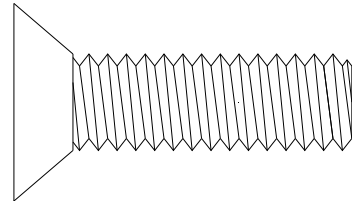


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

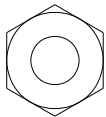
001-0186 - 3/8" X 1 1/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



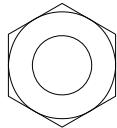
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



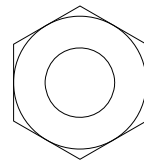
001-0139 - 1/2" X 1 3/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



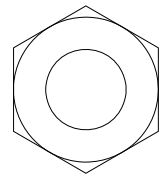
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

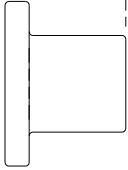
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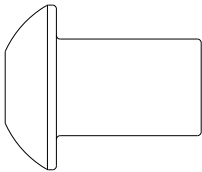
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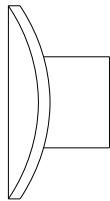
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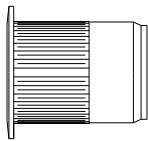
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



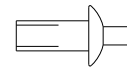
002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



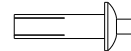
002-0042 - 3/8" NUT INSERT



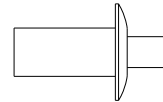
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



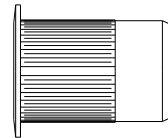
019-0010 - 5/32" X 3/8" DRIVE RIVET



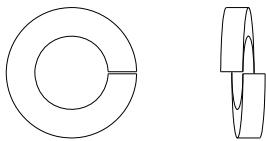
019-0016 - 1/8" X 15/32" DRIVE RIVET



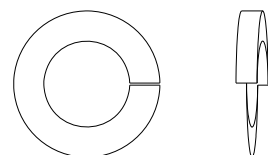
019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0022 - 3/8" LOCK WASHER



021-0027 - 7/16" LOCK WASHER

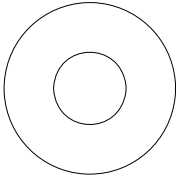
BCI Burke Company, LLC

660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566

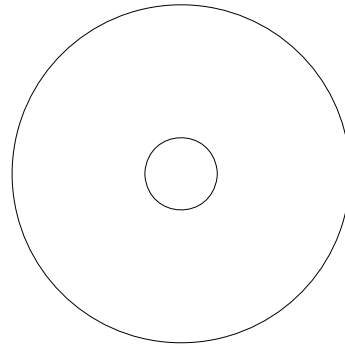
www.bciburke.com

BCI BURKE HARDWARE

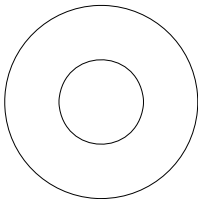
SCALE



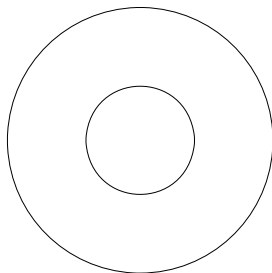
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



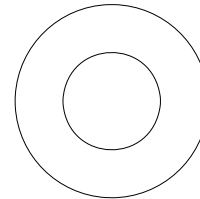
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



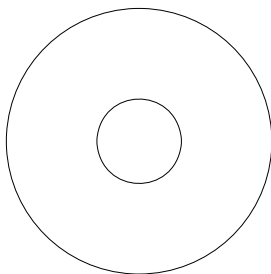
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



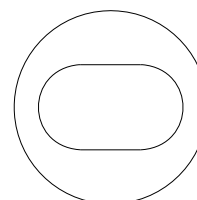
021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

BCI Burke Company, LLC

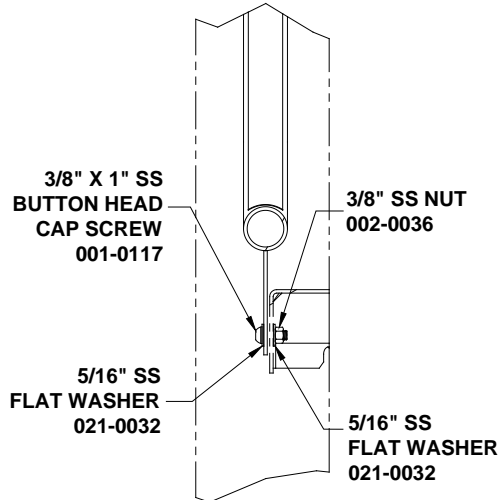
660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566

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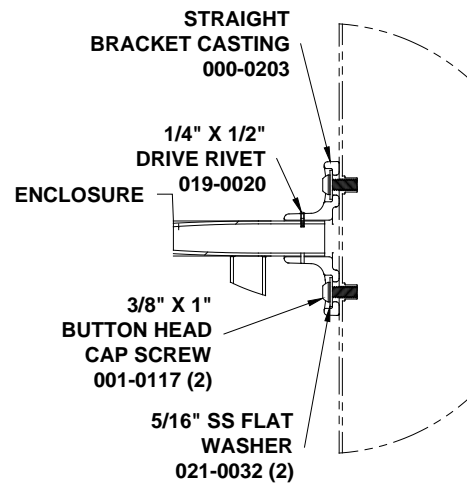
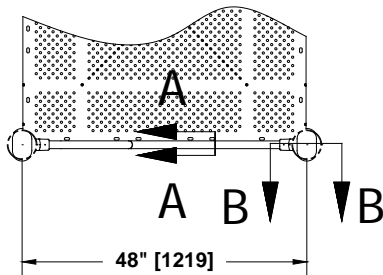
Installation Instructions

BCI Burke Company, LLC

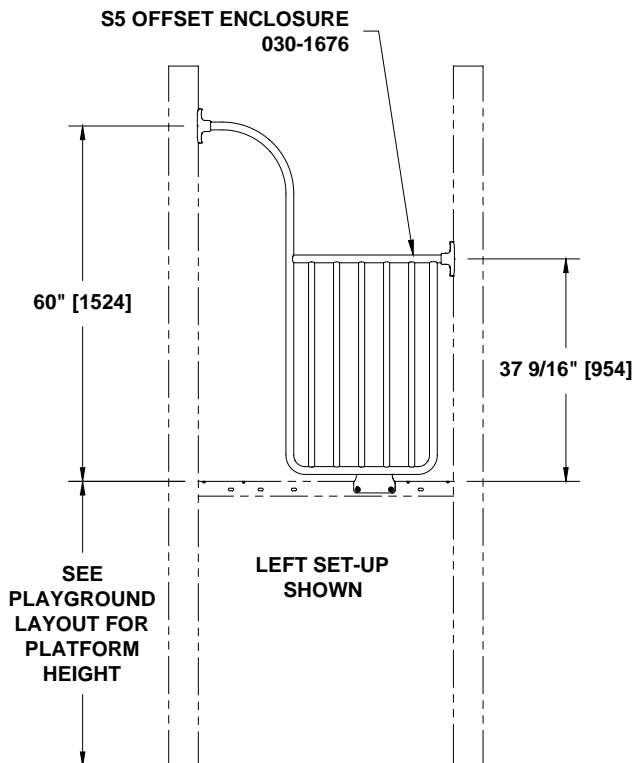
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www.bciburke.com



SECTION A-A
(2 PLACES)



SECTION B-B
(2 PLACES)



270-0001 OFFSET ENCLOSURE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1676	S5 OFFSET ENCLOSURE	1
036-1284	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 OFFSET ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and 10 GA sheet steel. Finished with a baked on powder coating.

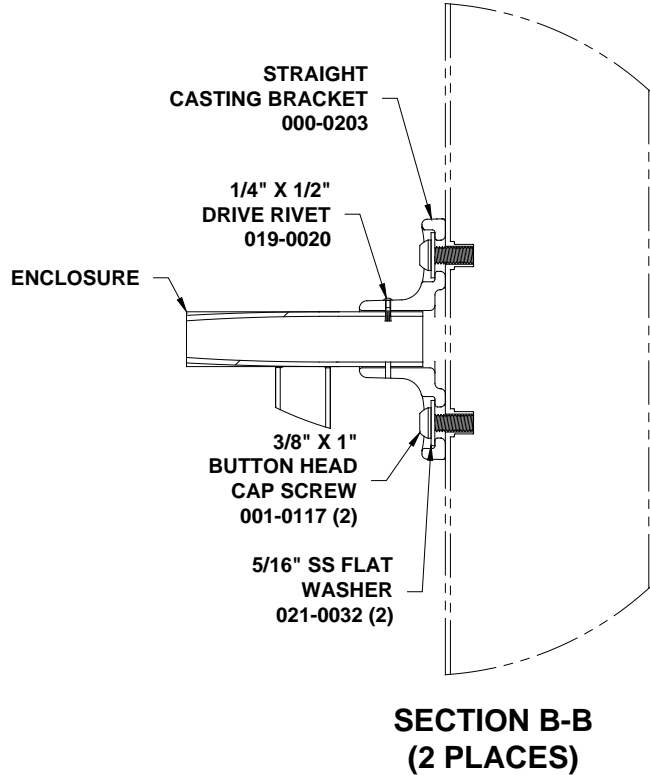
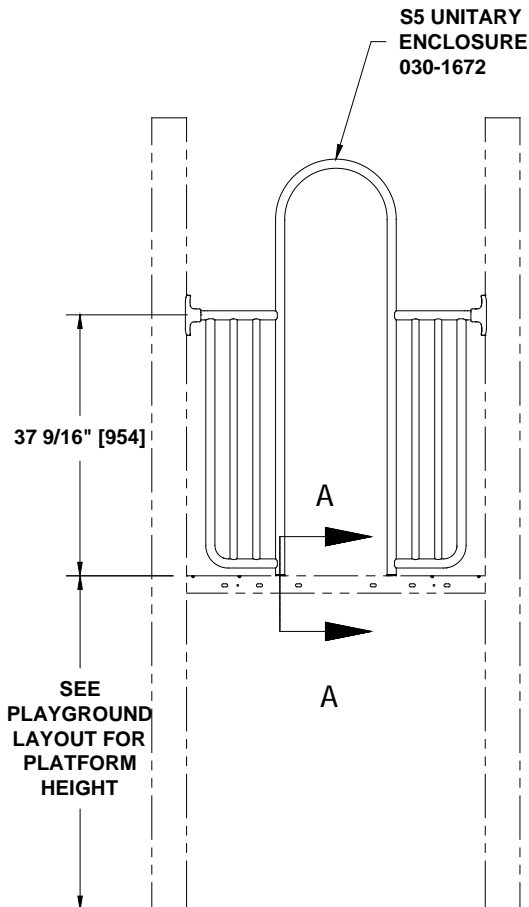
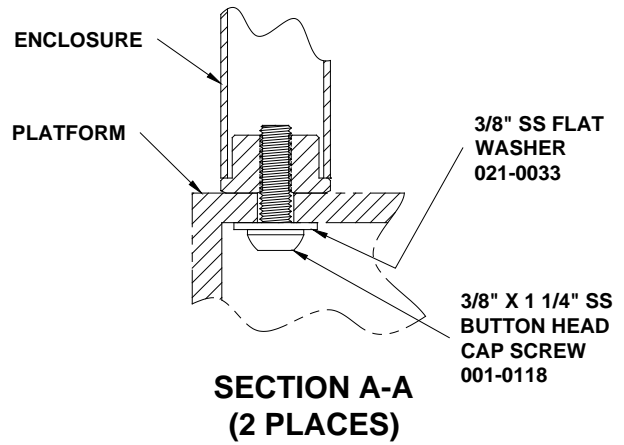
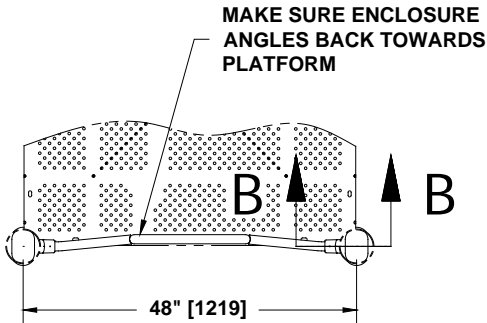
HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 30 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

1. Locate holes for BRACKETS CASTINGS to 5" O.D. posts as per dimensions shown.
2. Insert bracket castings onto ends of OFFSET ENCLOSURE and attach bracket castings to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
3. Attach bottom of pipe wall to platform using 3/8" x 1" SS button head cap screws, 5/16" SS washers and 3/8" SS nuts. Tighten all hardware. See SECTION A-A.
4. Drill 1/4" diameter holes through pilot hole in casting and into enclosure. See SECTION B-B.
5. Drive rivets flush with brackets.
6. Tighten All Hardware.



270-0112 UNITARY ENCLOSURE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1672	NUCLEUS UNITARY ENCLOSURE	1
036-0258	HARDWARE PACKAGE	2
036-0819	HARDWARE PACKAGE	1
036-1207	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

NUCLEUS UNITARY ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and HDPE threaded inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: Aluminum Rivets

HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 35 LBS.

INSTALLATION INSTRUCTIONS

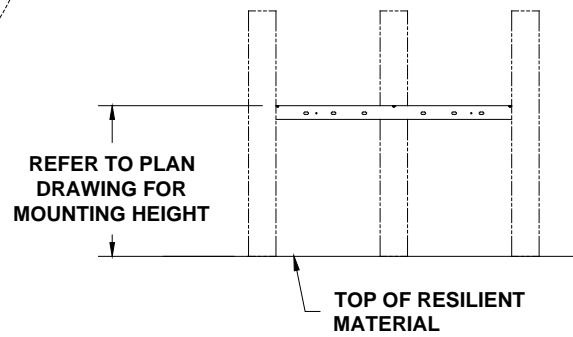
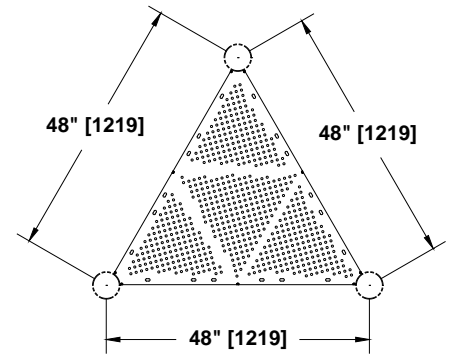
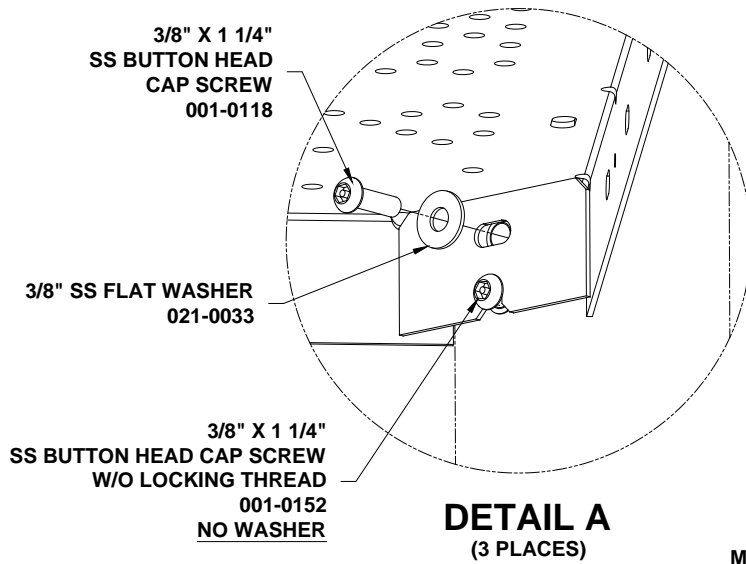
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

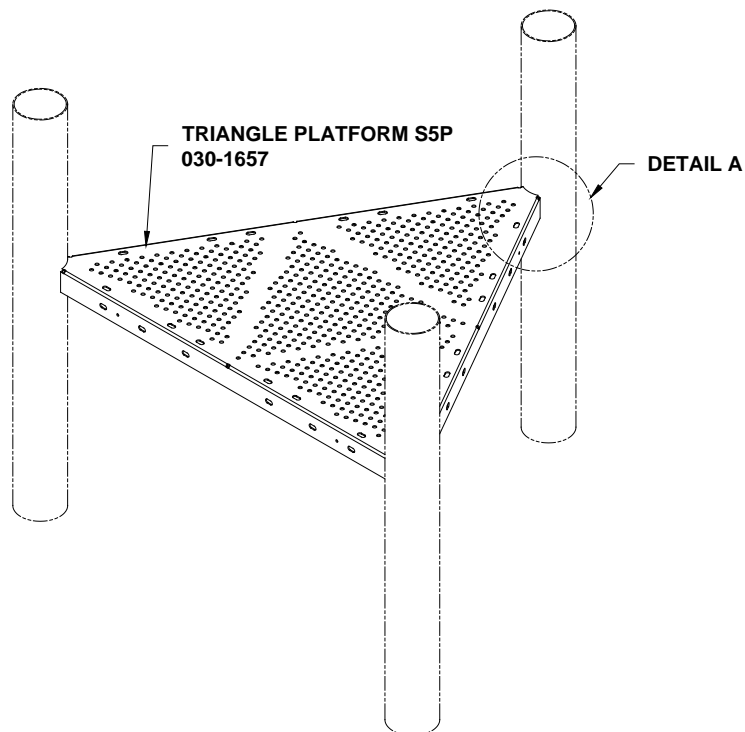
NOTE: Make sure enclosure angles back towards platform. (See Top View)

1. Locate holes for CASTING BRACKETS to 5" O.D. posts as per dimensions shown.
2. Insert castings onto ends of UNITARY ENCLOSURE and attach top hole of brackets to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
3. Rotate unitary enclosure up 90 degrees and attach bottom hole of brackets to 5" O.D. posts using 3/8" x 1" button head cap screws and 5/16" washers as shown. See SECTION B-B.
4. Rotate unitary enclosure down 90 degrees and attach to platform using 3/8" x 1 1/4" button head cap screws and 3/8" washers as shown. Tighten screws. See SECTION A-A. See FRONT VIEW.
5. Drill 1/4" diameter hole through pilot hole in brackets through enclosure. Insert DRIVE RIVET. Drive rivets flush.
6. Tighten all Hardware.

270-0112.doc Description: UNITARY ENCLOSURE
REV: 02 PCN: 17-0260 8/28/2017



ELEVATION VIEW



**270-0129
TRIANGLE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1657	TRIANGLE PLATFORM S5P	1
036-1100	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TRIANGLE PLATFORM S5P: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

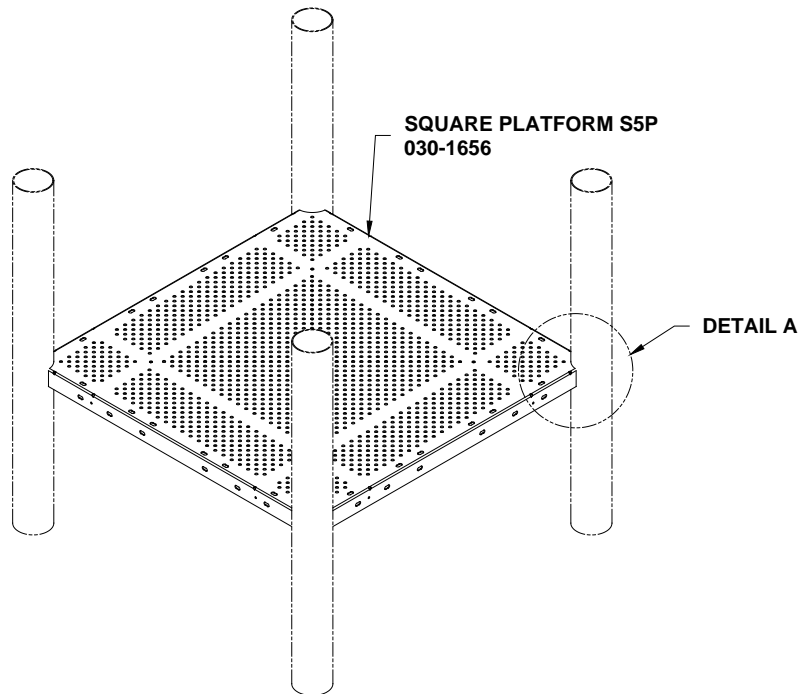
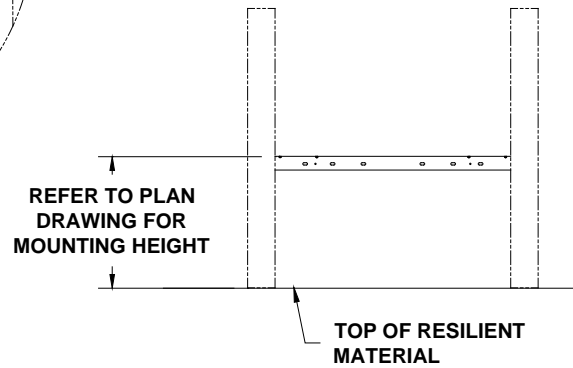
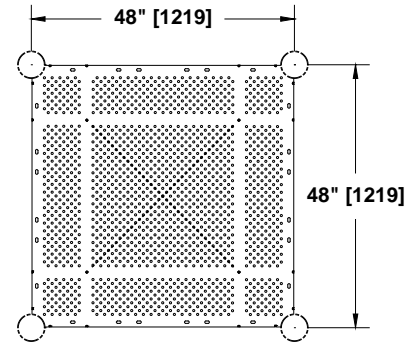
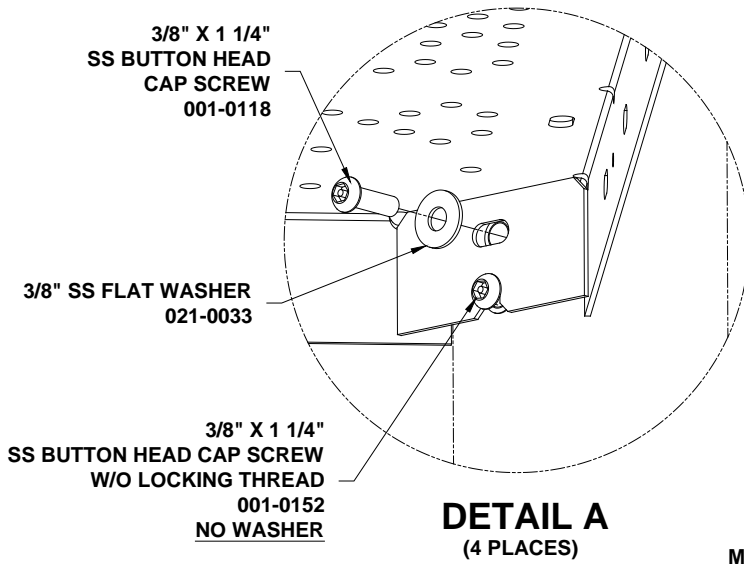
SHIPPING WEIGHT: 48 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the three corners of the TRIANGLE PLATFORM S5P on the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Tighten all hardware.
7. Pour concrete. Let set for two to three days.
8. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



**270-0130
SQUARE PLATFORM S5P**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1656	SQUARE PLATFORM S5P	1
036-1101	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

SQUARE PLATFORM S5P: 12 GA HRPO sheet, finished with a PVC Coating

HARDWARE PACKAGE: Stainless steel

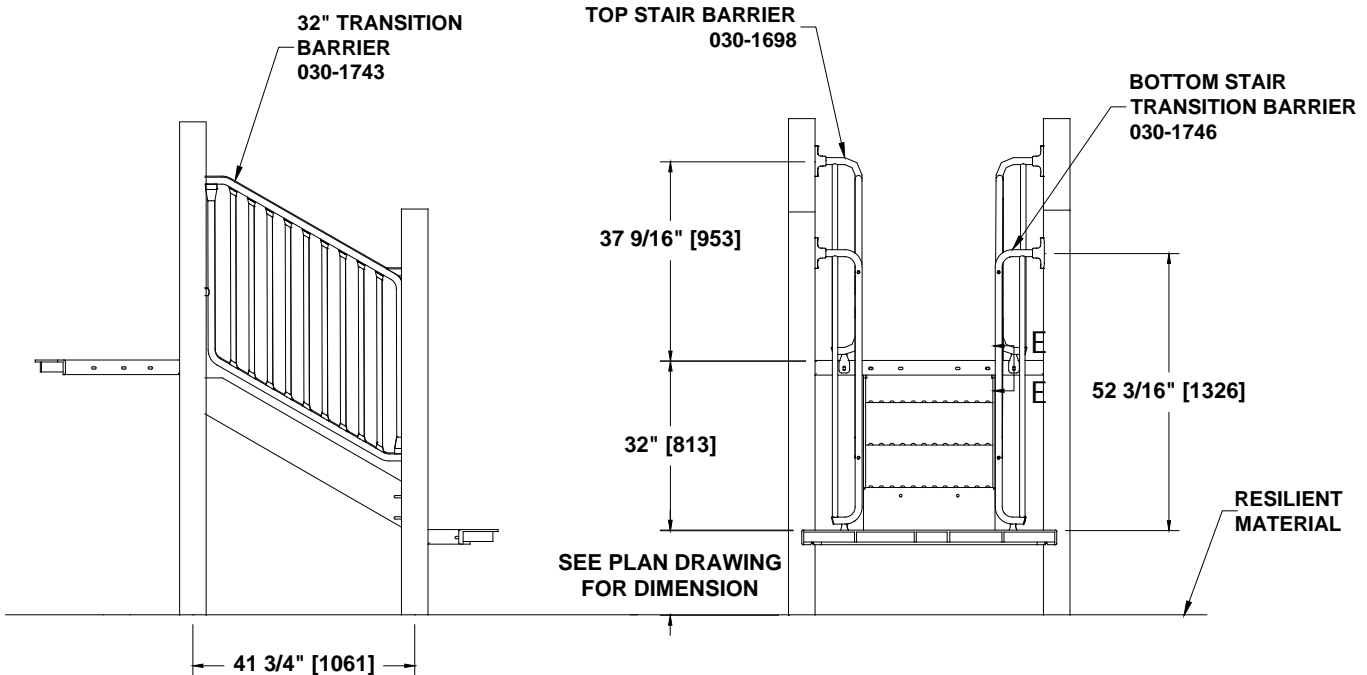
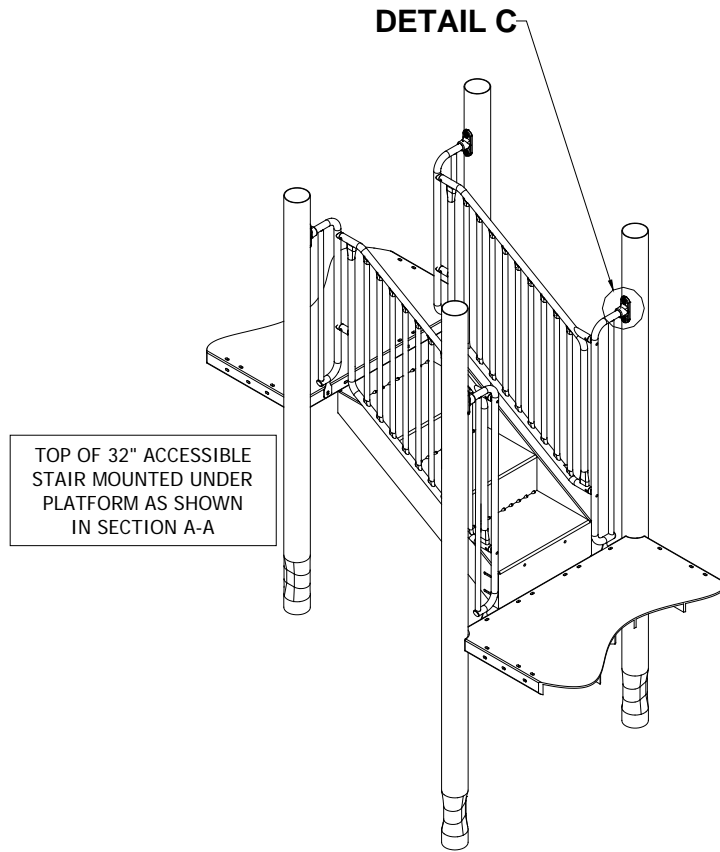
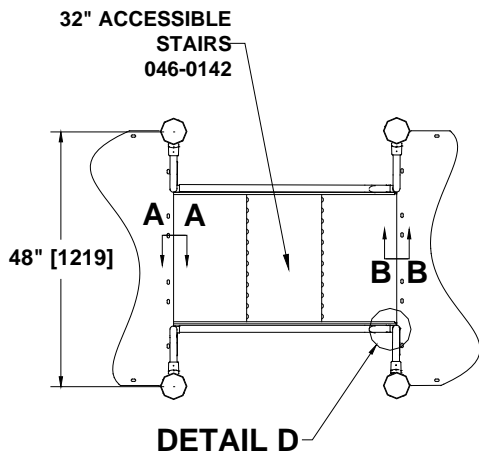
SHIPPING WEIGHT: 106 LBS.

INSTALLATION INSTRUCTIONS

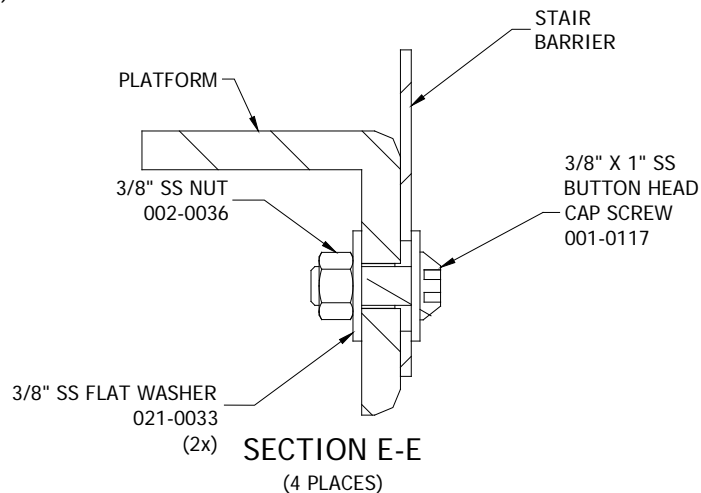
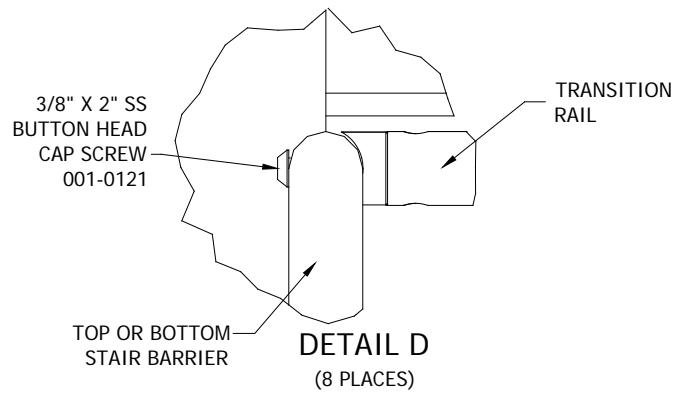
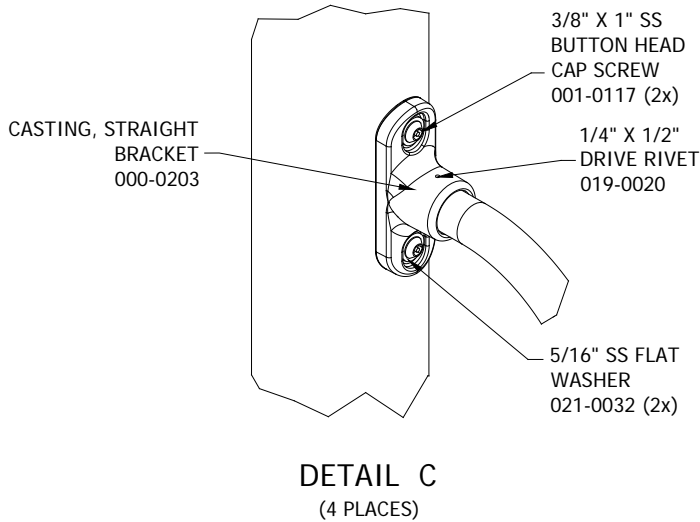
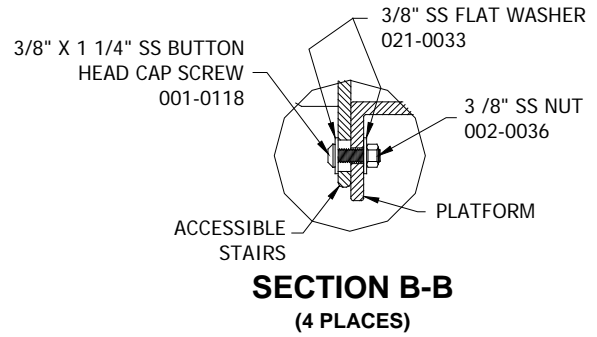
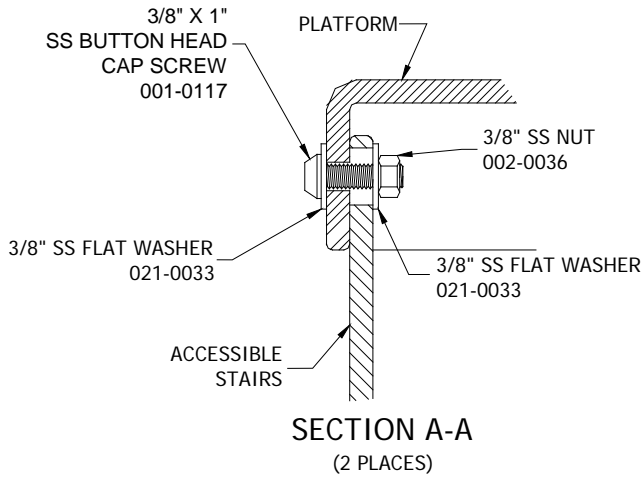
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Locate the double sets of platform mounting holes in each post.
2. Partially thread a 3/8" x 1 1/4" SS button head cap screw W/O LOCKING THREAD into the lower hole of the double set of mounting holes WITHOUT a washer. **DO NOT TIGHTEN.** See DETAIL A.
3. Slide the four corners of the SQUARE PLATFORM onto the partially threaded cap screws on each post.
4. Complete attaching platform to posts by using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS flat washers to secure platform into upper mounting hole. See DETAIL A.
5. Level platform and plumb posts.
6. Tighten all hardware.
7. Pour concrete. Let set for two to three days.
8. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



370-0468
32" TRANSITION STAIR W/BARRIERS



370-0468

32" TRANSITION STAIR W/BARRIERS

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	4
030-1698	TOP STAIR BARRIER	2
030-1743	32" TRANSITION BARRIER	2
030-1746	BOTTOM STAIR TRANSITION BARRIER	2
036-1125	HARDWARE PACKAGE	1
046-0142	32" ACCESSIBLE STAIRS	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

TOP STAIR BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing and 10 GA galvanized steel plate. Finished with a baked on powder coating.

32" TRANSITION BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing, malleable iron plug and 10 GA galvanized steel plate. Finished with a baked on powder coating.

BOTTOM STAIR TRANSITION BARRIER: One piece all welded construction consisting of 1.315" OD x 12 GA & 1.029" OD x 12 GA galvanized steel tubing and 10 GA galvanized steel plate. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

32" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

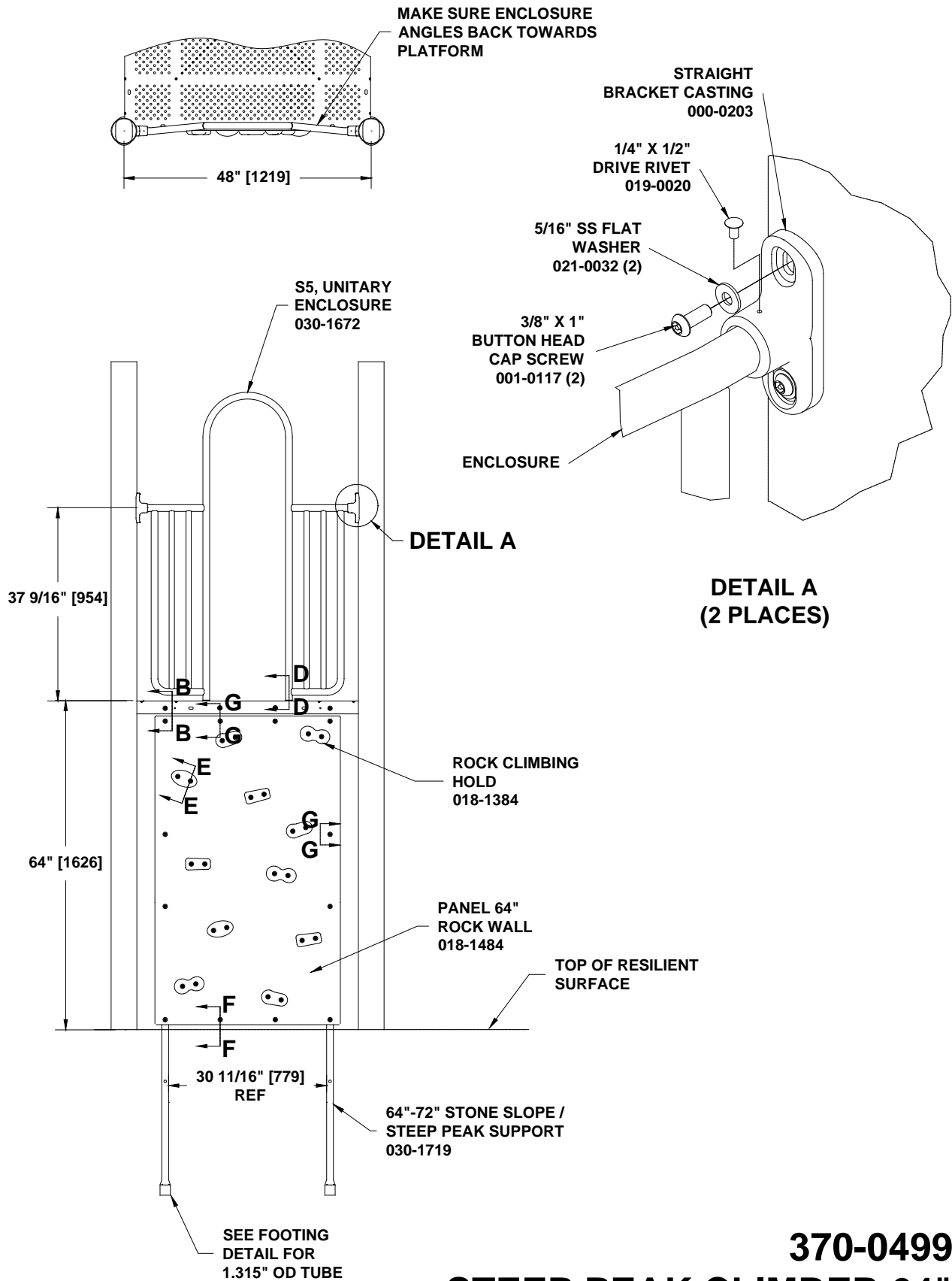
SHIPPING WEIGHT: 216 LBS.

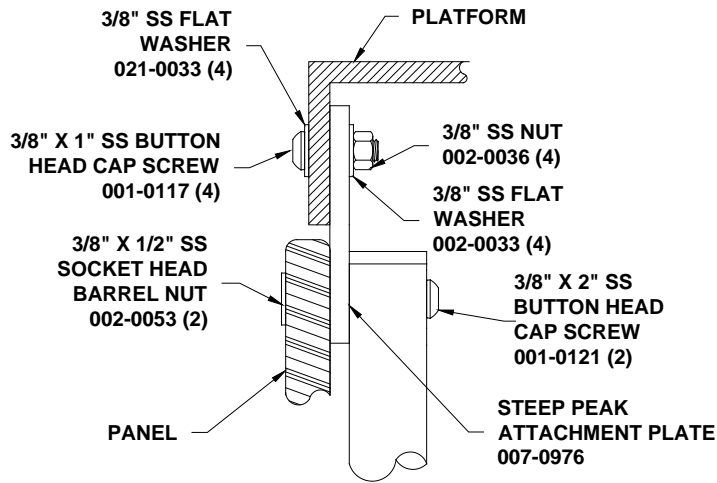
INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

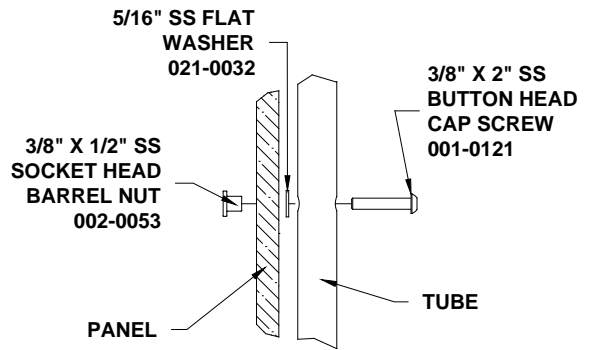
NOTE: Do not tighten hardware until instructed to do so.

1. Install platforms. See appropriate installation instructions.
2. Attach 32" ACCESSIBLE STAIRS to upper platform using 3/8" x 1" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. **NOTE: Make sure the stairs are centered between the posts.** See SECTION A-A.
3. Attach 32" accessible stairs to lower platform using 3/8" x 1 1/4" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. **NOTE: Make sure the stairs are centered between the posts.** See SECTION B-B.
4. Attach STRAIGHT BRACKET CASTINGS to 5" OD posts using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
5. Attach TOP STAIR BARRIER to 32" TRANSITION BARRIER using 3/8" x 2" SS button head cap screws. See DETAIL D.
6. Attach BOTTOM STAIR TRANSITION BARRIER to 32" TRANSITION BARRIER using 3/8" x 2" SS button head cap screws. See DETAIL D.
7. Sleeve TOP STAIR BARRIER and BOTTOM STAIR TRANSITION BARRIER into straight bracket castings. Attach bottom of barriers to platforms using 3/8" x 1" SS button head cap screw, 3/8" SS flat washers and 3/8" SS nuts. See FRONT PAGE of this installation print for orientation. Also see DETAIL C and SECTION E-E.
8. Repeat steps 5 thru 7 for the opposite side of the stair.
9. Tighten all hardware.
10. Drill 1/4" diameter holes thru brackets and barriers. Insert 1/4" diameter drive rivets and pound center pins flush to engage rivets. Apply touch up paint to exposed heads of rivets.
11. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

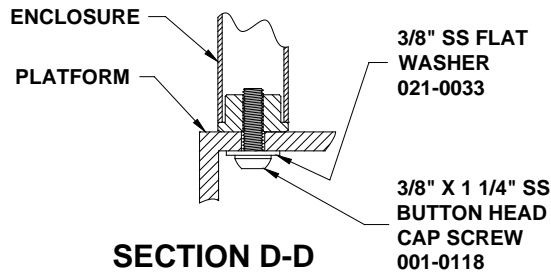




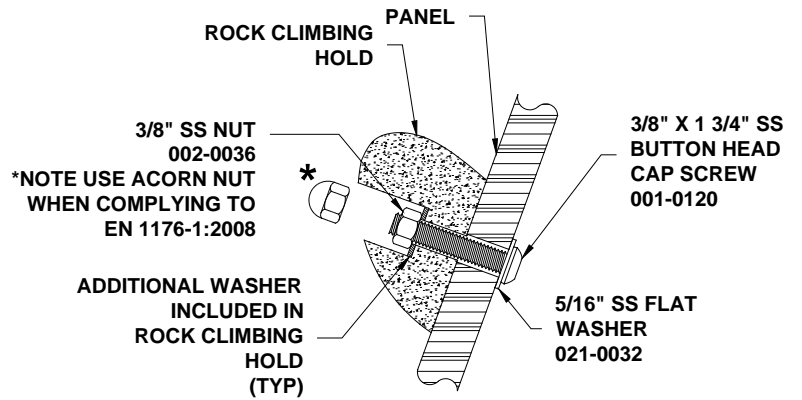
SECTION B-B



SECTION C-C
(6 PLACES)

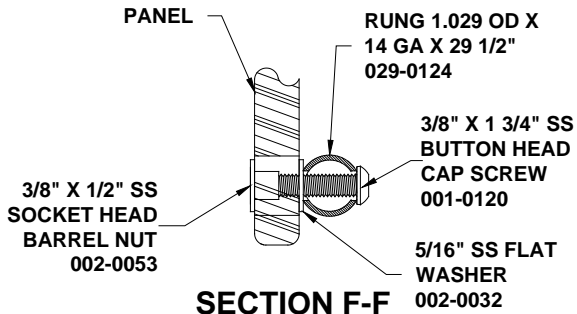


SECTION D-D
(2 PLACES)

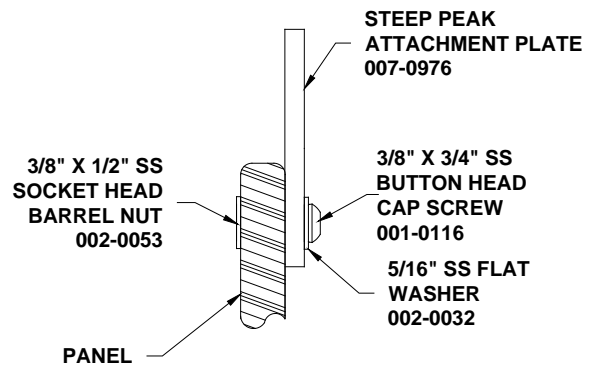


SECTION E-E

(11 ROCK HOLDS)
NOTE: DO NOT OVER TIGHTEN.



SECTION F-F
(2 PLACES)



SECTION G-G
(2 PLACES)

370-0499 STEEP PEAK CLIMBER 64"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
007-0976	STEEP PEAK ATTACHMENT PLATE	1
018-1484	PANEL, 64" ROCK WALL	1
029-0124	TUBE 1.029" OD X 14 GA X 29 1/2"	1
030-1672	NUCLEUS UNITARY ENCLOSURE	1
030-1719	64"-72" STONE SLOPE / STEEP PEAK SUPPORT	2
036-1309	HARDWARE PACKAGE	1
050-0002	11 ROCK CLIMBING HOLDS consisting of:	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

STEEP PEAK ATTACHMENT PLATE: 10 GA. Galv. Sheet

PANEL, 64" ROCK WALL: 3/4" Extruded HDPE.

TUBE 1.029" OD X 14 GA X 29 1/2": Formed from galvanized steel tubing of at least 1.029" OD x 14 GA wall. Finished with a baked on powder coating.

NUCLEUS UNITARY ENCLOSURE: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing, and HDPE threaded inserts. Finished with a baked on powder coating.

64"-72" STONE SLOPE / STEEP PEAK SUPPORT: One piece all welded 1.315" OD tubing w/ 10 GA sheet steel. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivet with 302 stainless steel pin.

11 ROCK CLIMBING HOLDS: Molded professional grade rock climbing hold with stainless steel washers.

SHIPPING WEIGHT: 133 LBS.

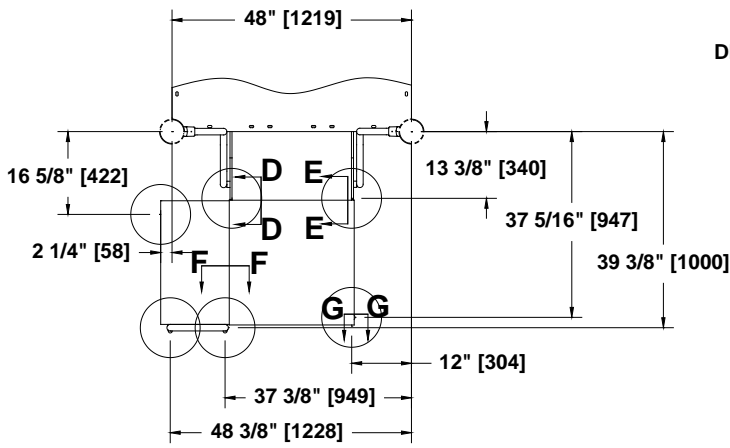
INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes on platform before installing.

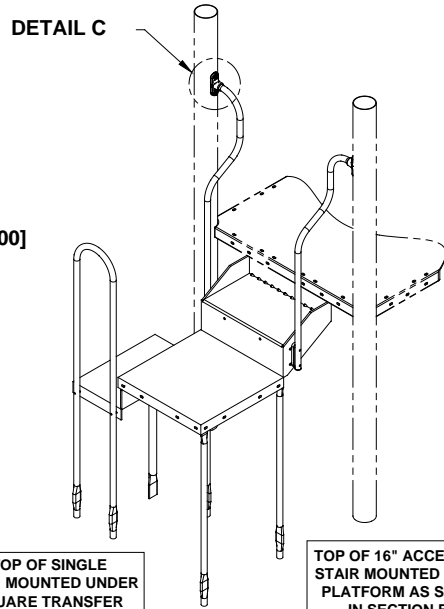
NOTE: Do not tighten hardware until instructed to do so.

NOTE: Make sure enclosure angles back towards platform. (See Top View)

1. Locate and dig footing holes per dimensions. See typical concrete footing details, which are located in the preface of your installation manual.
2. Locate the mounting holes for UNITARY ENCLOSURE on 5" OD posts.
3. Insert a STRAIGHT CASTING BRACKET into each end of the unitary enclosure.
4. Position unitary enclosure with mounting brackets into opening and fasten using 3/8" x 1" SS button head cap screws and 5/16" SS washers through upper holes of the mounting brackets and into 5" OD posts. See DETAIL A.
5. Rotate the unitary enclosure up 90 degrees and install 3/8" x 1" SS button head cap screws and 5/16" SS washers into bottom holes of the mounting brackets. See DETAIL A.
6. Rotate the unitary enclosure down to align holes with platform. Attach the unitary enclosure to platform using 3/8" x 1 1/4" SS button head cap screws and 3/8" SS washers. Tighten all hardware. See SECTION D-D.
7. Drill 1/4" diameter holes through pilot holes of casting brackets and into unitary enclosure. Drive rivets flush with brackets. See DETAIL A.
8. Attach ROCK CLIMBING HOLDS to one side of the PANEL using 3/8" x 1 3/4" SS button head cap screws, 5/16" SS flat washers, and 3/8" SS nuts. When complying with Europe Standard EN 1176-1:2008 use 3/8" SS acorn nuts supplied in your hardware extras bag. **NOTE: The assortment of rock climbing hold shapes may vary from the combination depicted.** Distribute the rock climbing holds randomly across the panel. Tighten all hardware. **NOTE: Do not over tighten.** See SECTION E-E.
9. Attach STEEP PEAK ATTACHMENT PLATE to panel using 3/8" x 2" SS button head cap screws, 3/8" x 3/4" SS button head cap screws, 5/16" SS flat washers, and 3/8" x 1/2" SS Socket Head Barrel nut. See SECTION B-B and SECTION G-G.
10. Attach panel to 64"-72" STONE SLOPE / STEEP PEAK SUPPORT using 3/8" x 2" SS button head cap screws, 5/16" SS flat washers, and 3/8" x 1/2" SS Socket Head Barrel nut. See SECTION C-C.
11. Attach 1.029" OD TUBE to the back of the panel using the holes along the bottom of the panel assembly, use 3/8" x 1 3/4" SS button head cap screws, 5/16" SS flat washers and 3/8" x 1/2" SS Socket Head Barrel nut. Tighten all hardware. See SECTION F-F.
12. Insert assembly into footing holes and attach to backside of platform using 3/8" x 1" SS button head cap screws, 3/8" SS flat washers, and 3/8" SS nuts. Tighten all hardware. See SECTION B-B.
13. Block up and plumb.
14. Pour concrete. Allow concrete to set for 2-3 days.
15. **Install resilient surfacing material in accordance with installation guidelines, ASTM standards and CPSC.**

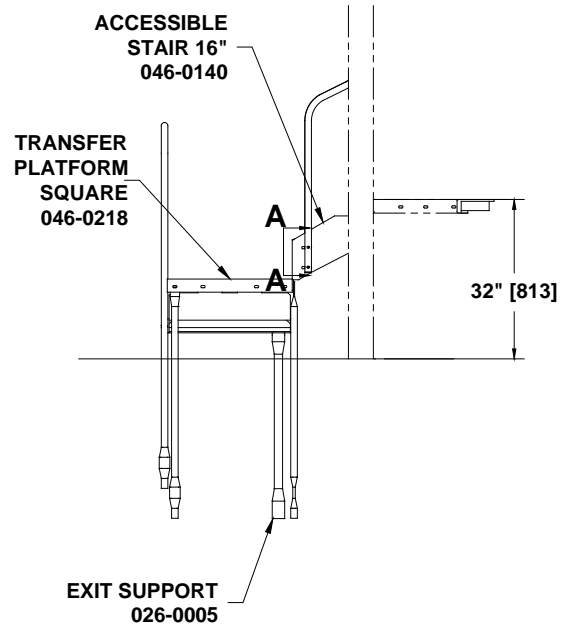
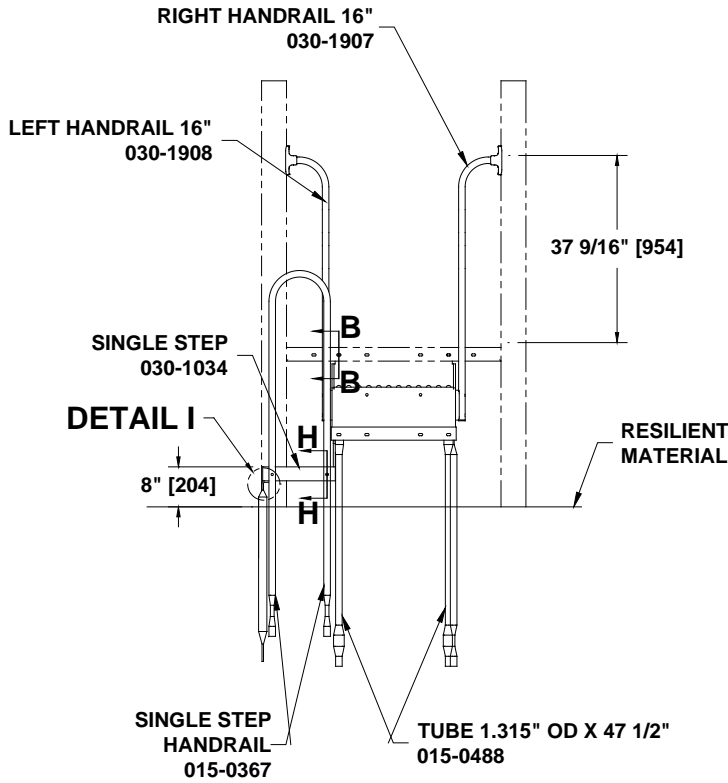


LEFT SETUP SHOWN

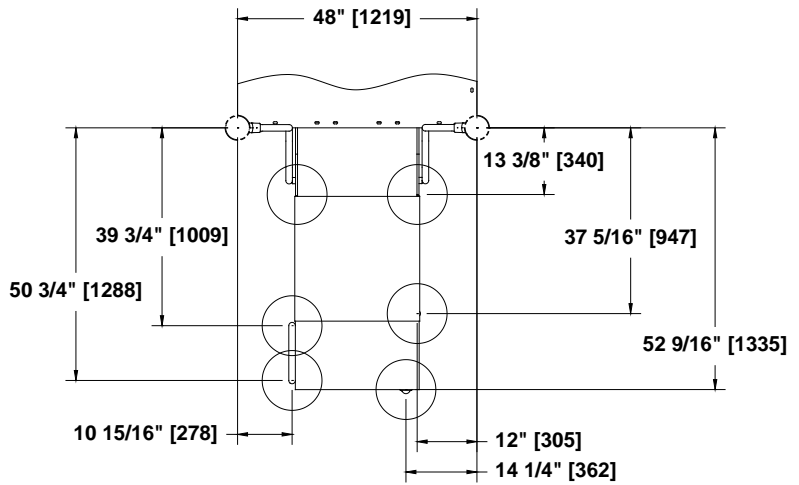


TOP OF SINGLE STEP MOUNTED UNDER SQUARE TRANSFER PLATFORM AS SHOWN IN SECTION F-F

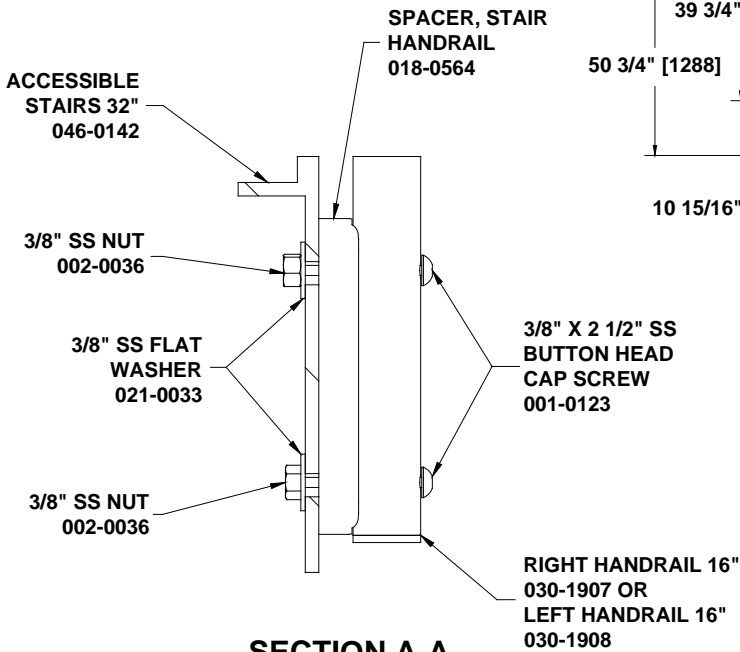
TOP OF 16" ACCESSIBLE STAIR MOUNTED UNDER PLATFORM AS SHOWN IN SECTION B-B



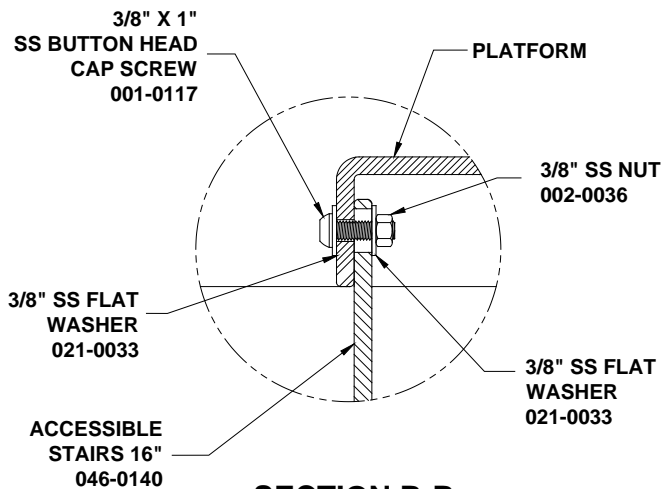
370-0718
TRANSFER STATION, HANDRAIL 32"



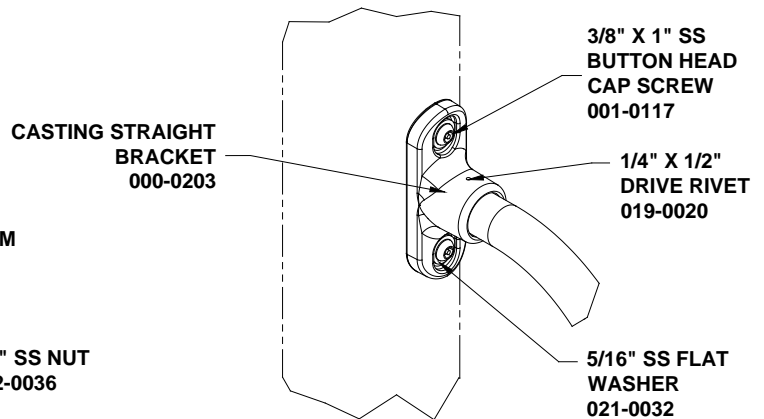
OPTIONAL SETUP



SECTION A-A
2 PLACES

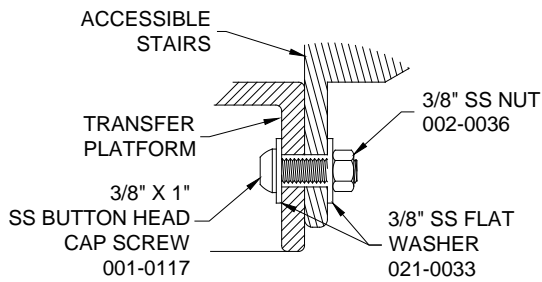


SECTION B-B
2 PLACES

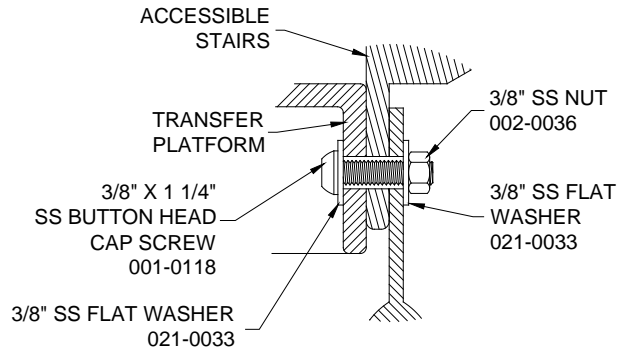


DETAIL C
2 PLACES

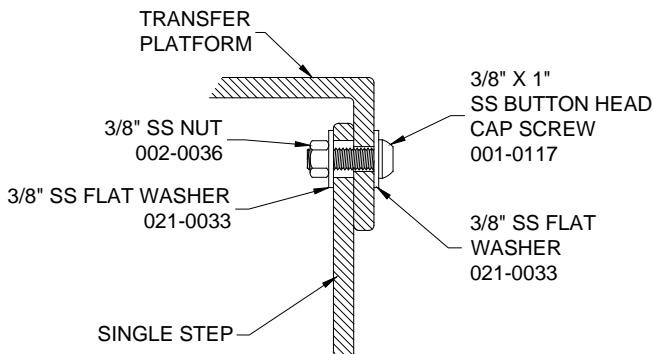
370-0718 TRANSFER STATION, HANDRAIL 32"



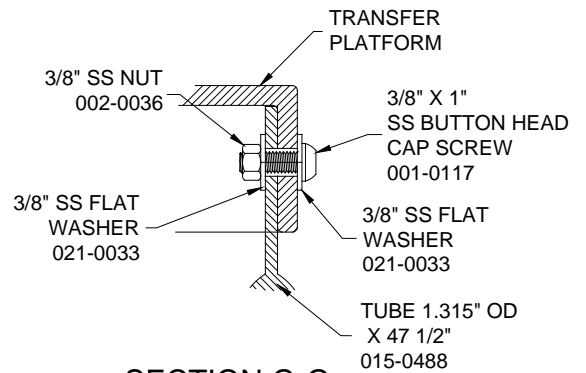
SECTION D-D
2 PLACES



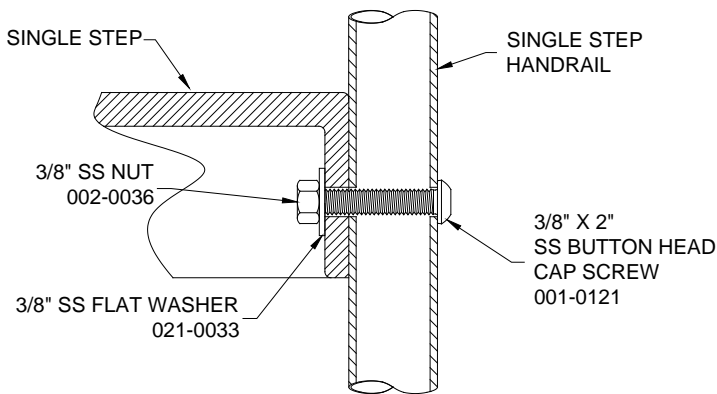
SECTION E-E
2 PLACES



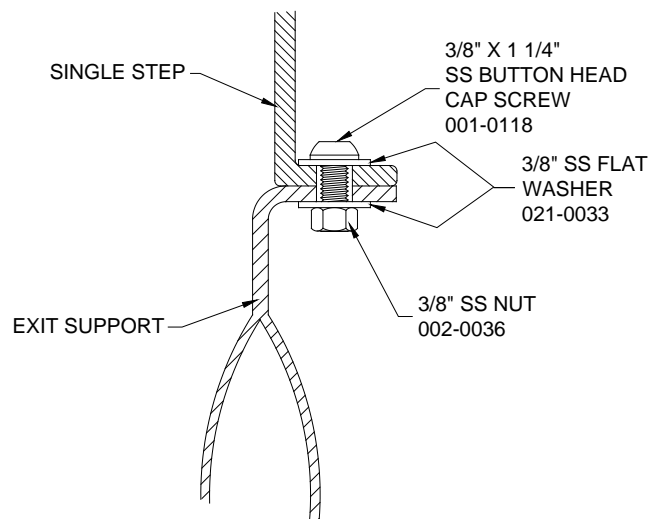
SECTION F-F
2 PLACES



SECTION G-G



SECTION H-H
2 PLACES



DETAIL I

370-0718

TRANSFER STATION, HANRAIL 32"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
015-0367	SINGLE STEP HANDRAIL	1
015-0488	TUBE 1.315" OD X 47 1/2"	3
018-0564	SPACER, STAIR HANDRAIL	2
026-0005	SUPPORT, EXIT, 37.29"	1
030-1034	SINGLE STEP	1
030-1907	RIGHT HANDRAIL 16"	1
030-1908	LEFT HANDRAIL 16"	1
036-1123	HARDWARE PACKAGE	1
046-0140	16" ACCESSIBLE STAIRS	1
046-0218	SQUARE TRANSFER PLATFORM	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

SINGLE STEP HANDRAIL: Formed 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

TUBE 1.315" OD X 47 1/2": 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

SPACER, STAIR HANDRAIL: 3/4" extruded HDPE.

SUPPORT, EXIT, 37.29": 1.660" OD x 13 GA galvanized steel tubing finished with a baked on powder coating.

SINGLE STEP: One piece all welded construction consisting of 12 GA surfaces and gussets. PVC coated after fabrication.

RIGHT HANDRAIL 16"; LEFT HANDRAIL 16": Formed 1.315" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

16" ACCESSIBLE STAIRS: One piece all welded construction consisting of 12 GA HRPO steel surfaces, sides, and gussets. PVC coated after fabrication.

SQUARE TRANSFER PLATFORM: One piece all welded construction consisting of 12 GA surfaces, gussets, and corners. PVC coated after fabrication.

SHIPPING WEIGHT: 163 LBS.

INSTALLATION INSTRUCTIONS

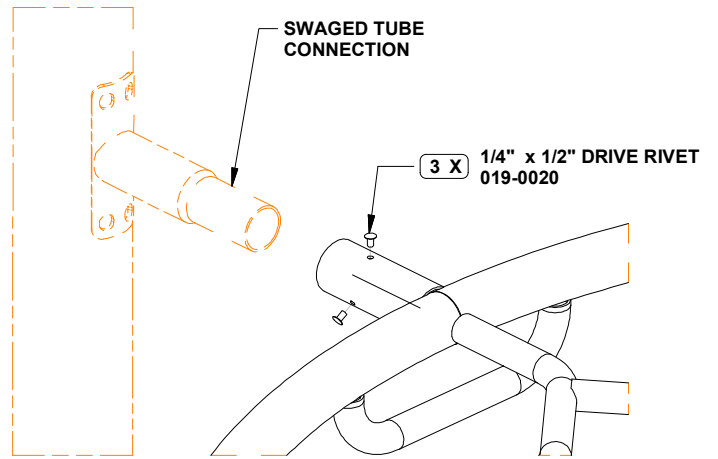
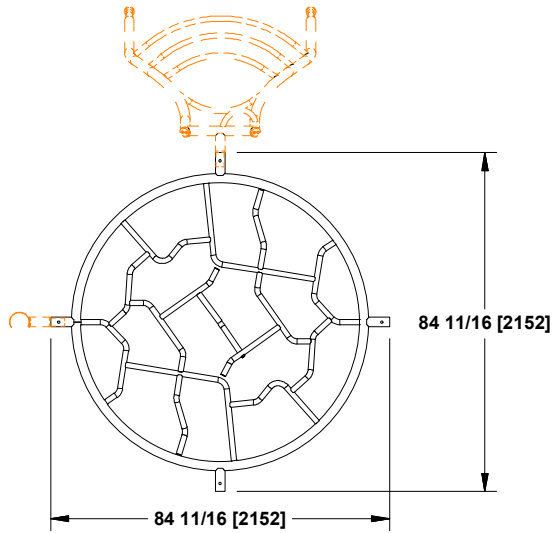
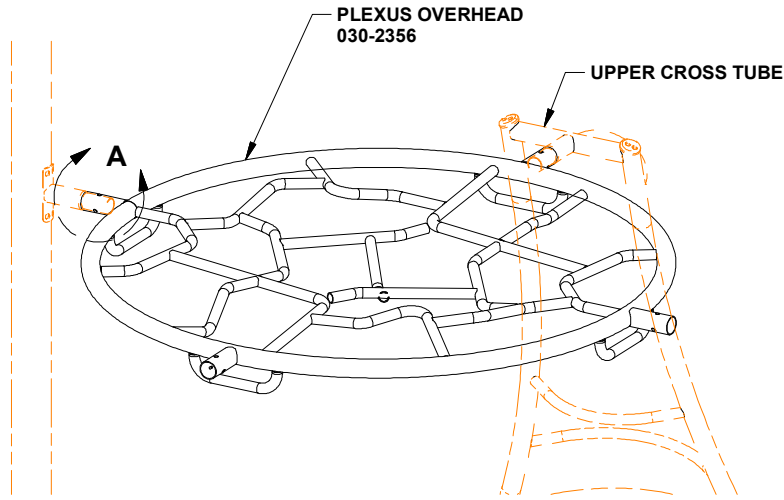
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

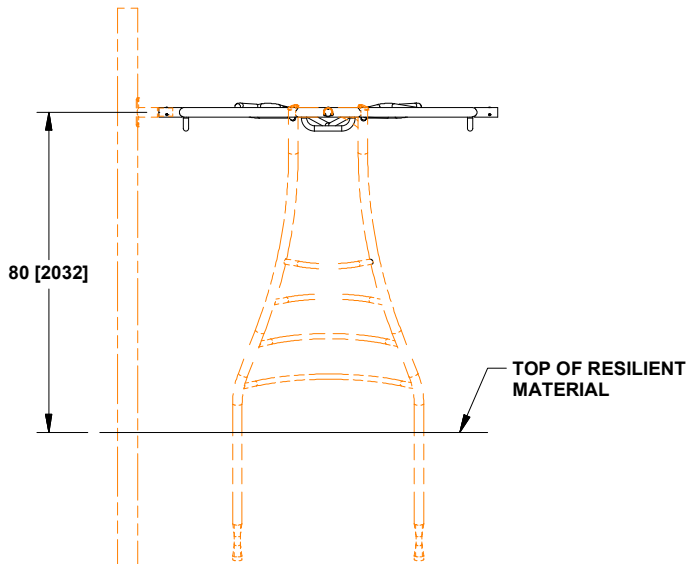
1. Install platforms. See appropriate installation instructions.
2. Dig footing holes per dimensions shown. See concrete footing drawing for 1.315" OD and 1.660" OD tubing, which is located in the preface of your installation manual.
3. Attach TUBES and TRANSFER PLATFORM to 16" ACCESSIBLE STAIRS using 3/8" x 1 1/4" SS button head cap screws with tubes, 3/8" x 1" SS button head cap screws without tubes, 3/8" SS nuts and 3/8" SS flat washers. Refer to SECTION D-D and E-E.
4. Attach Tube to Transfer Platform using 3/8" x 1" SS button head cap screw, 3/8" SS nut and 3/8" SS flat washers. Refer to SECTION G-G.
5. Attach SINGLE STEP to TRANSFER PLATFORM using 3/8" x 1" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION F-F.
6. Attach EXIT SUPPORT to Single Step using a 3/8" x 1 1/4" SS button head cap screw, 3/8" SS washers and a 3/8" SS nut. See DETAIL I.
7. Attach SINGLE STEP HANDRAIL to side of Single Step using 3/8" x 2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. See SECTION H-H. **Note: the heads of the button head cap screws must be on the outside of the step assembly.**
8. Position transfer station assembly into footing holes. Attach Accessible Stair to platform using 3/8" x 1" SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. Do not tighten nuts. See SECTION B-B.
9. Block-up and level transfer station assembly.
10. Attach CASTING STRAIGHT BRACKETS to 5" OD posts using 3/8" X 1" SS button head cap screws and 5/16" SS washers. See DETAIL C.
11. Sleeve RIGHT AND LEFT HANDRAILS into brackets. See DETAIL C.
12. Attach right and left handrails to Accessible Stairs using STAIR HANDRAIL SPACER, 3/8" x 2 1/2" SS button head cap screws, 3/8" SS washers and 3/8" SS nuts. **Note: the head of the button head cap screw must be on the outside of the stair.** See SECTION A-A.
13. Drill 1/4" diameter holes through pilot holes on handrails and into mount brackets. Insert drive rivets and drive flush with handrails. See DETAIL C.
14. Tighten all hardware.
15. Pour concrete and allow concrete to set for 2-3 days.
16. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



DETAIL A
4 PLACES



370-0829 PLEXUS OVERHEAD

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-2356	PLEXUS OVERHEAD	1
036-1184	HARDWARE PACKAGE	3

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PLEXUS OVERHEAD: One piece all welded construction consisting of formed 2 3/8" OD x 12 GA & 1.315" OD x 14 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Aluminum rivets with stainless steel pins.

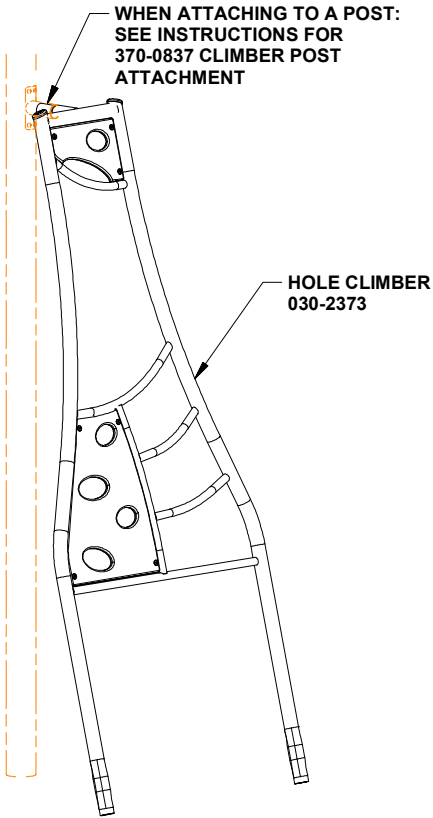
SHIPPING WEIGHT: 96 LBS.

INSTALLATION INSTRUCTIONS

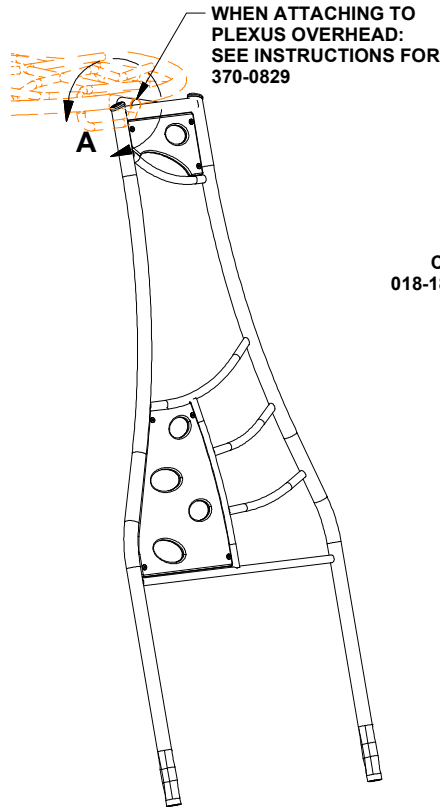
1. Determine location of Plexus Overhead and four attached components from site plan.
2. Slide the swaged tube connection of the climbers or overhead post bracket into the tube connections of the PLEXUS OVERHEAD. See specific mating component installation instructions for attachment. Make sure the climbers are rotated on the swaged tube connection so that the sides of the climbers are perpendicular and the upper cross tube is horizontal. Make sure the overhead ring is level.
4. Once the overhead ring and all climbers or post attachments are in place, install rivets at each of the 4 connection points. Using the 3 holes in each of the 4 connection points of the overhead climber as a guide, drill 1/4" diameter holes through the inner tube. Insert 1/4" drive rivets and pound center pins flush to engage rivets. Apply touch up paint to exposed heads of rivets.
5. Pour concrete in footings for components attached to the overhead and let stand for 2 to 3 days.
6. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



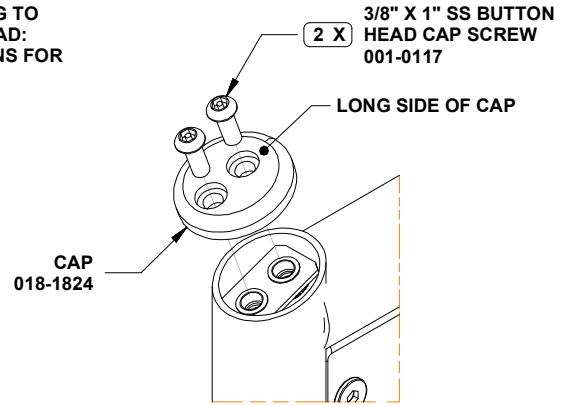
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



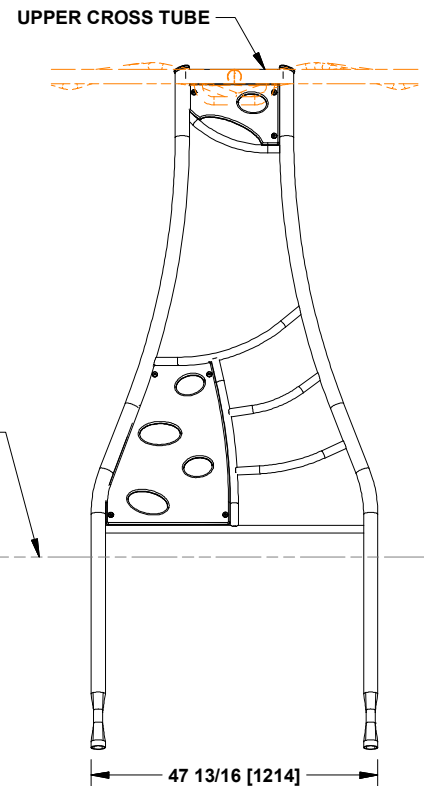
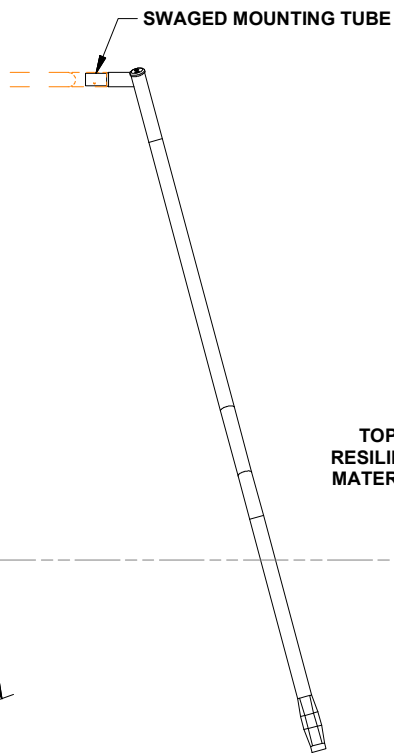
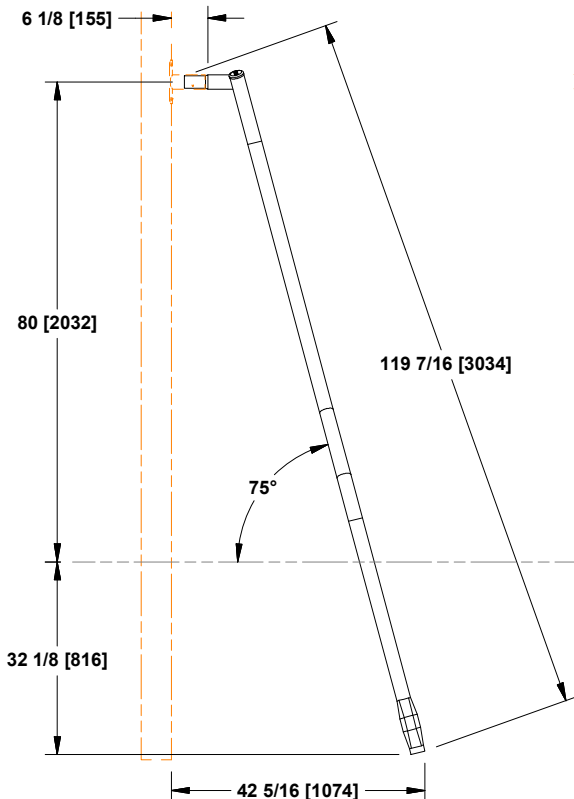
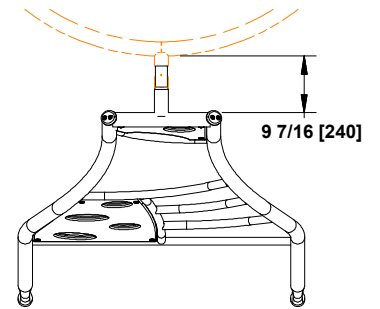
ATTACHED TO A POST



ATTACHED TO PLEXUS OVERHEAD



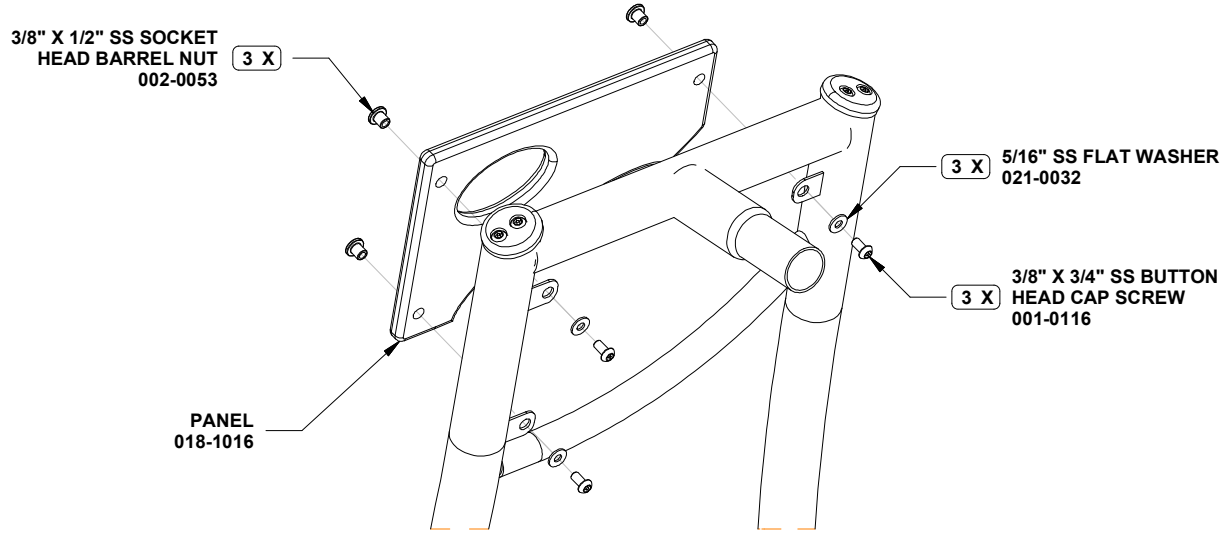
DETAIL A
2 PLACES



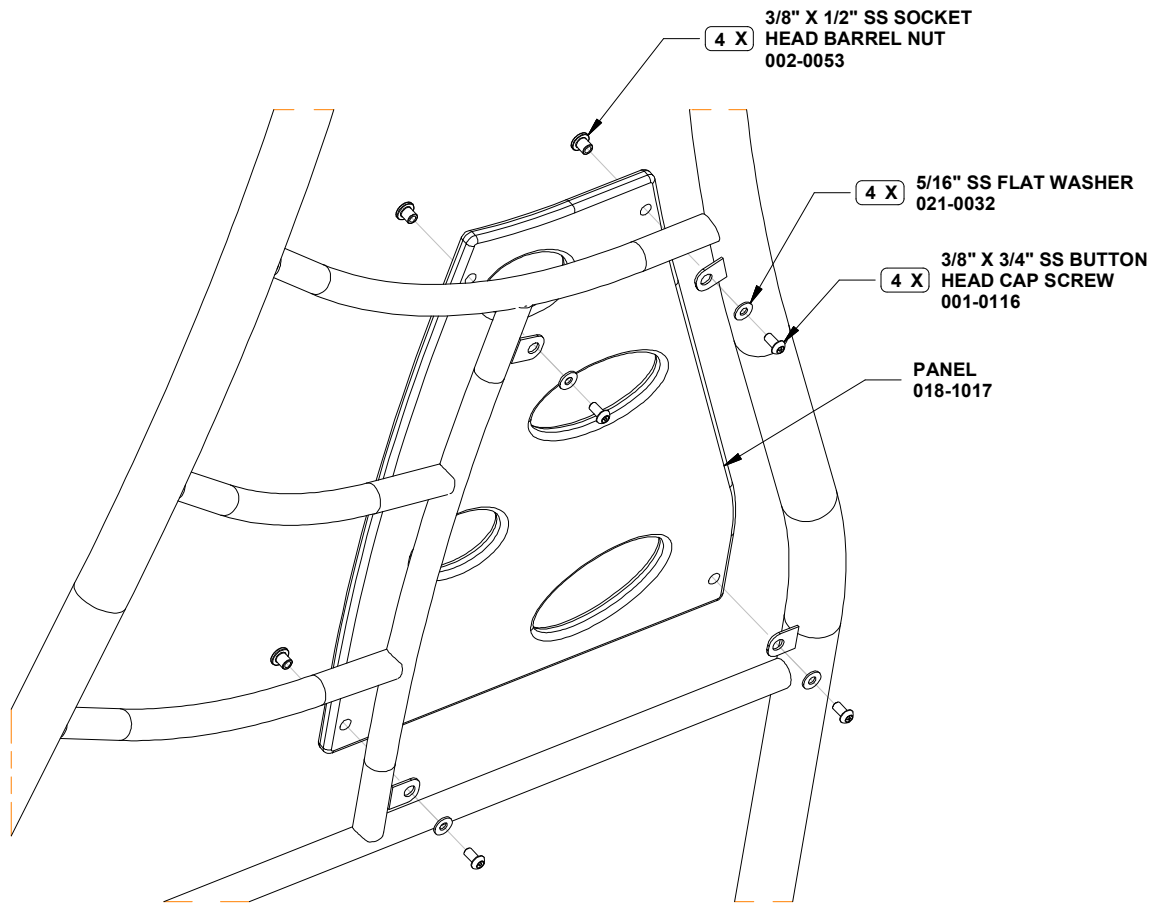
370-0830 PLEXUS HOLE CLIMBER



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE INCHES WITH MILLIMETER EQUIVALENT INSIDE [] BRACKETS.



DETAIL B



DETAIL C

370-0830 PLEXUS HOLE CLIMBER

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-1016	PANEL	1
018-1017	PANEL	1
018-1824	CAP	2
030-2373	HOLE CLIMBER	1
036-1415	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PANEL; PANEL, CAP: 3/4" Extruded HDPE

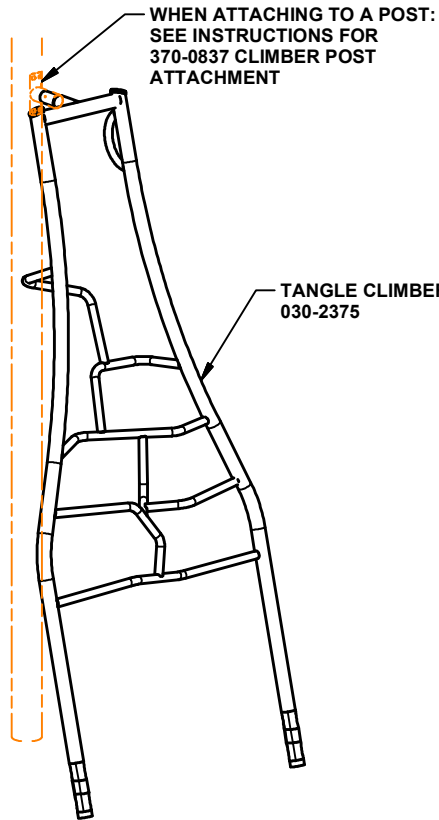
HOLE CLIMBER: Weldment consisting of formed 2.375" OD x 12 GA and 1.315" OD x 12 GA galvanized tubing, 12 GA galvanized steel plate and nut inserts. Finished with a baked on powder coat finish.

HARDWARE PACKAGE: Stainless steel

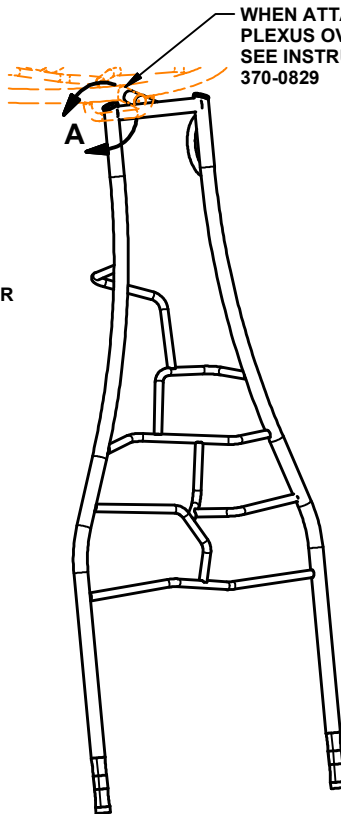
SHIPPING WEIGHT: 97 LBS.

INSTALLATION INSTRUCTIONS

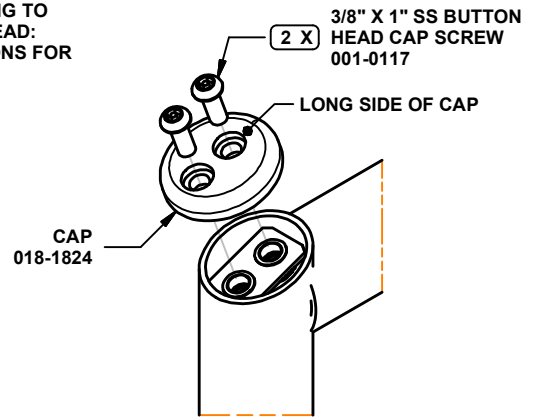
1. Determine location of climber from site plan and dig footing holes accordingly. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach CAP(s) to HOLE CLIMBER with hardware specified in DETAIL A. Make sure the long side of the cap is oriented correctly so that it is centered on the opening and completely covers the open tube. Tighten hardware.
3. Slide the upper swaged mounting tube of the hole climber into the tube connection of either the Climber Post Attachment bracket or the Plexus Overhead. See specific mating component installation instructions for attachment. Make sure the hole climber is rotated on the swaged tube connection so that the sides of the hole climber are perpendicular and the upper cross tube is horizontal.
4. Attach PANELS to the tabs on hole climber using the hardware specified in DETAIL B and DETAIL C. Tighten hardware.
5. Pour concrete. Let set for two to three days.
6. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



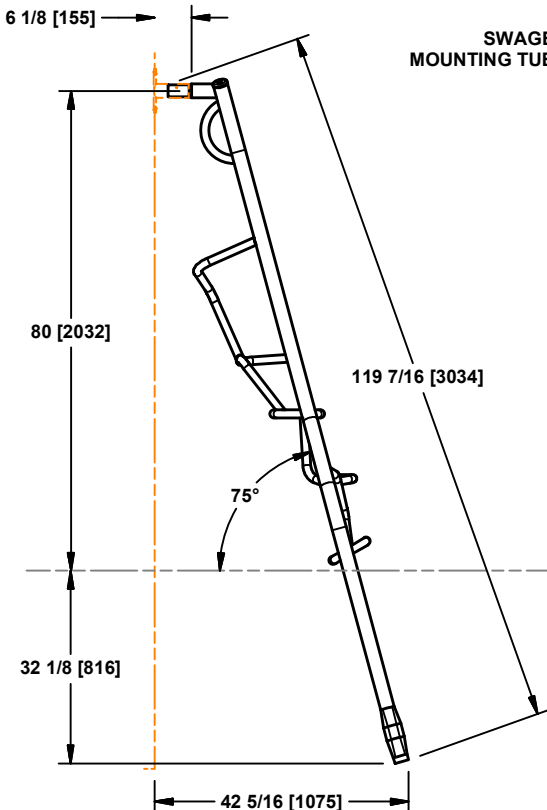
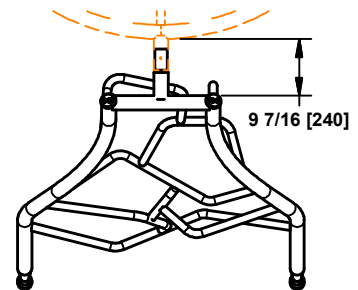
ATTACHED TO A POST



ATTACHED TO
PLEXUS OVERHEAD



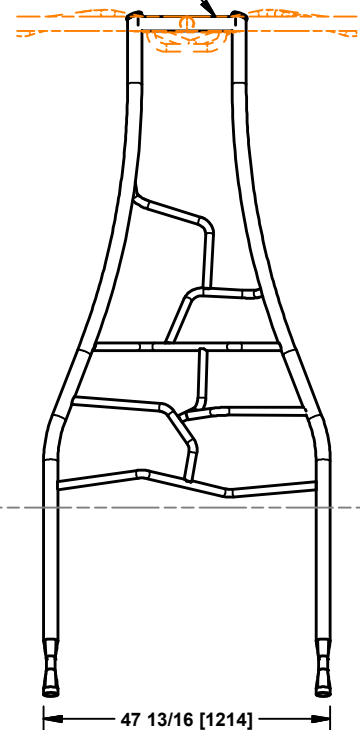
DETAIL A
2 PLACES



SWAGED
MOUNTING TUBE

TOP OF
RESILIENT
MATERIAL

UPPER CROSS TUBE



370-0832 PLEXUS TANGLE CLIMBER

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-1824	CAP	2
030-2375	TANGLE CLIMBER	1
036-0258	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CAP: 3/4" Extruded HDPE

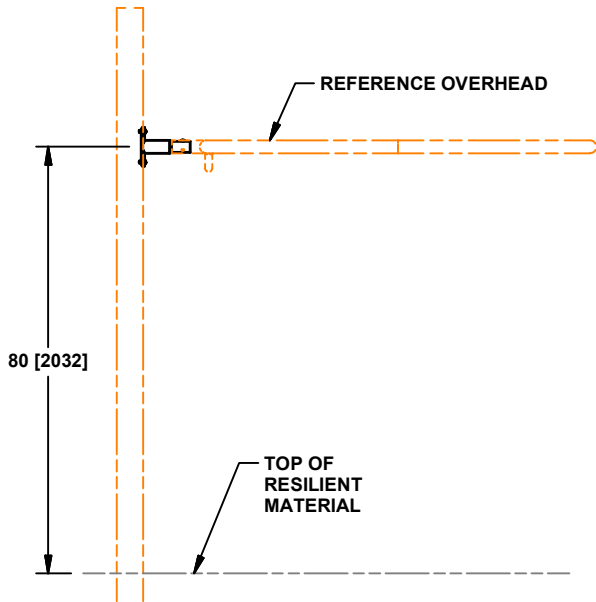
TANGLE CLIMBER: Weldment consisting of formed 2.375" OD x 10 GA and 1.315" OD x 12 GA galvanized tubing, 12 GA galvanized steel plate and nut inserts. Finished with a baked on powder coat finish.

HARDWARE PACKAGE: Stainless steel

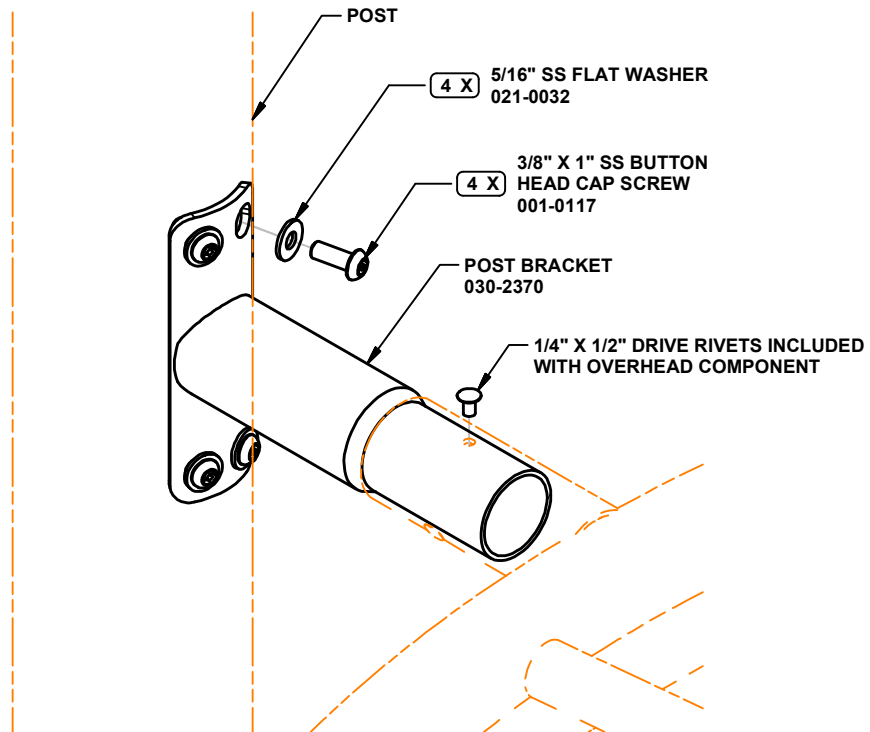
SHIPPING WEIGHT: 89 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of climber from site plan and dig footing holes accordingly. See typical concrete footing details, which are located in the preface of your installation manual.
2. Attach CAP(s) to TANGLE CLIMBER with hardware specified in DETAIL A. Make sure the long side of the cap is oriented correctly so that it is centered on the opening and completely covers the open tube. Tighten hardware.
3. Slide the upper swaged mounting tube of the tangle climber into the tube connection of either the Climber Post Attachment bracket or the Plexus Overhead. See specific mating component installation instructions for attachment. Make sure the tangle climber is rotated on the swaged tube connection so that the sides of the tangle climber are perpendicular and the upper cross tube is horizontal.
4. Pour concrete. Let set for two to three days.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



ELEVATION VIEW



ASSEMBLY VIEW

370-0834 OVERHEAD POST ATTACHMENT

PARTS LIST

PART NO.	DESCRIPTION	QTY
030-2370	POST BRACKET	1
036-0258	HARDWARE PACKAGE	2

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

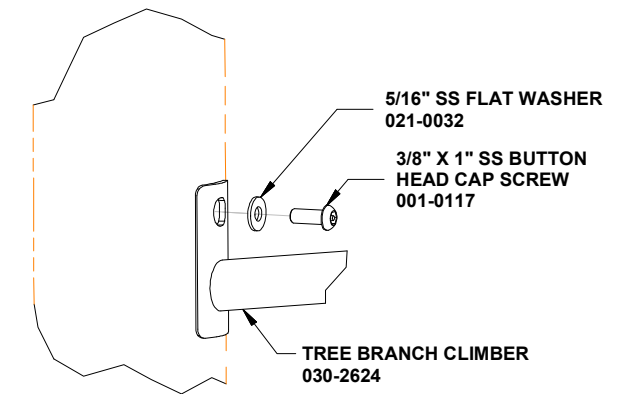
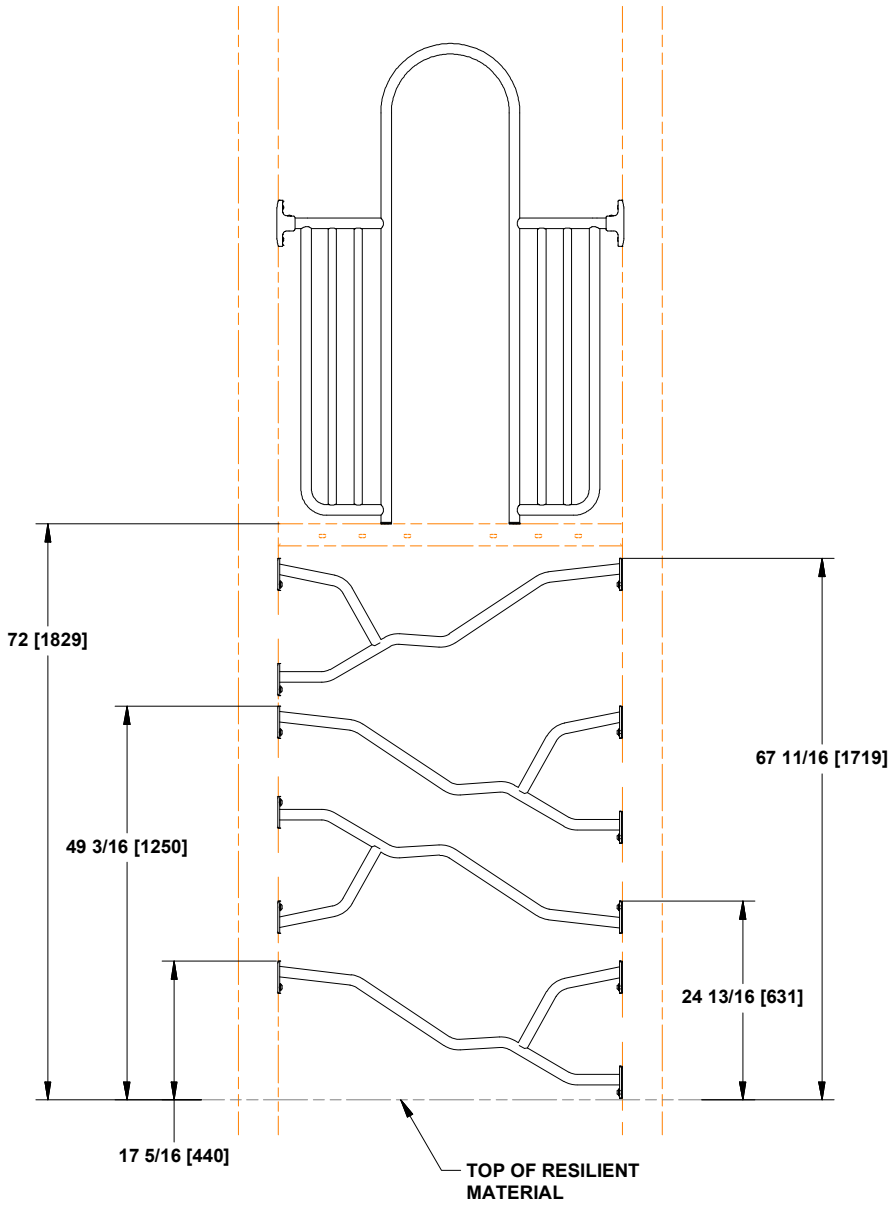
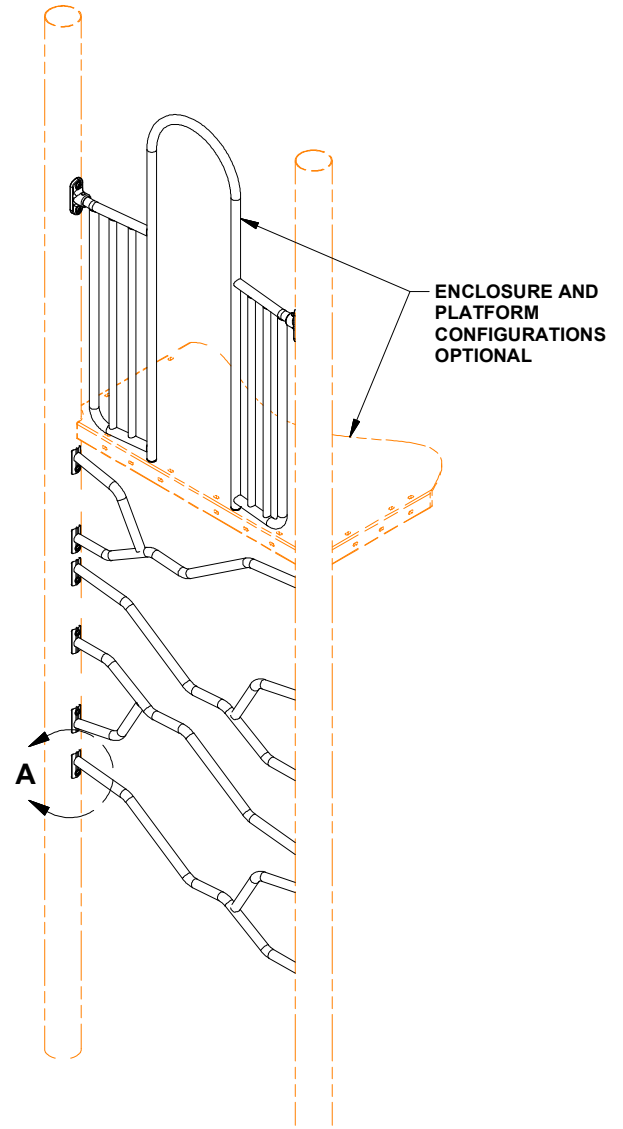
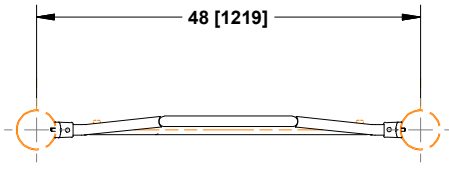
POST BRACKET: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and formed 7 GA stainless steel plates. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

SHIPPING WEIGHT: 3 LBS.

INSTALLATION INSTRUCTIONS

1. Determine location of Overhead Post Attachment from site plan.
2. Attach the POST BRACKET to the post with hardware specified in the assembly view. Slide the tube connection of the overhead onto the swaged portion of the post bracket. See specific overhead installation instructions for attachment. Make sure the overhead component lies on a level horizontal plane in relation to the post.
3. Using the 3 holes in the overhead attachment points as a guide, drill 1/4" diameter holes through the post bracket. Insert 1/4" drive rivets included with overhead component and pound center pins flush to engage rivets. Repeat at applicable remaining overhead attachments. Apply touch up paint to exposed heads of rivets.
4. **Install resilient material in accordance with installation guidelines, ASTM standards and CPSC guidelines.**



DETAIL A
(12 PLACES)

370-0865 TREE BRANCH CLIMBER 72"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-2624	TREE BRANCH CLIMBER	4
036-0040	HARDWARE PACKAGE	4

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TREE BRANCH CLIMBER: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, and 7 GA stainless steel sheet. Finished with a baked on powder coating.

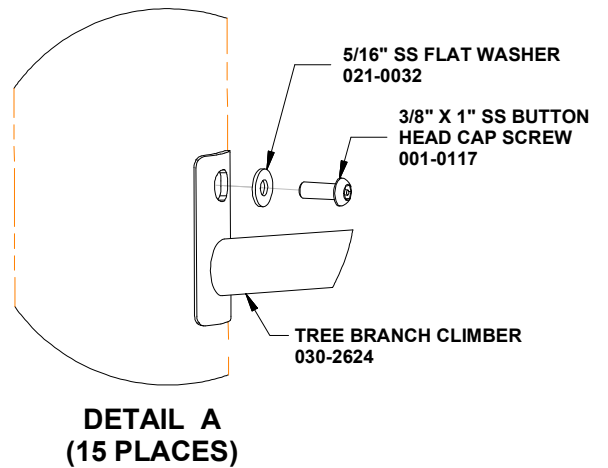
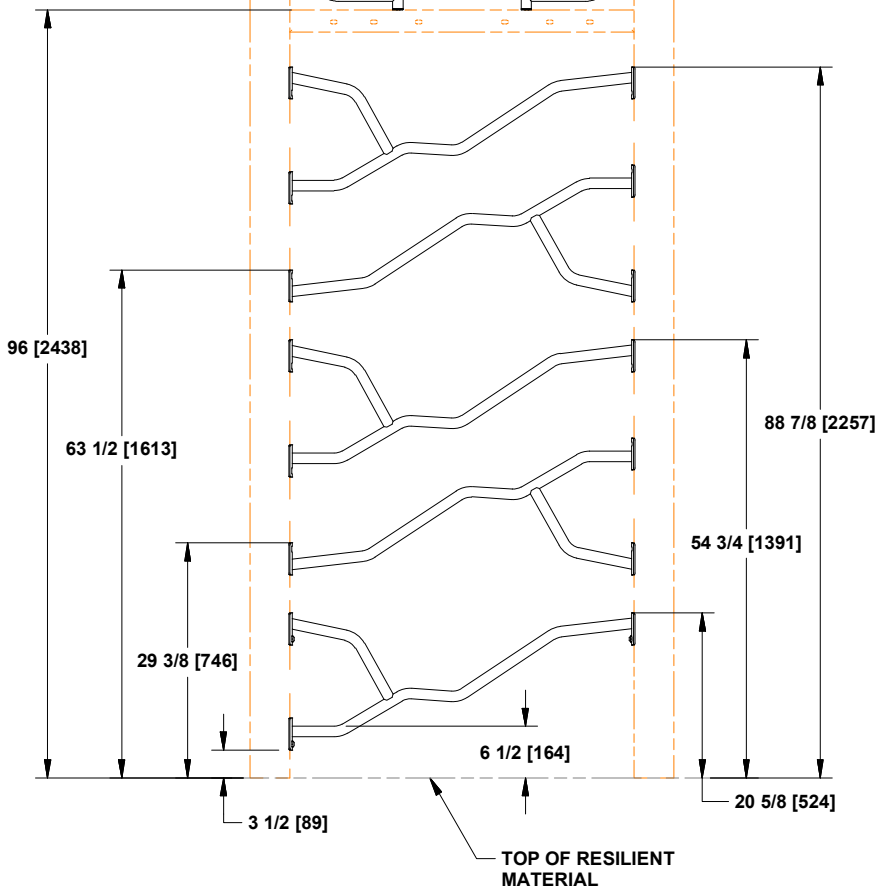
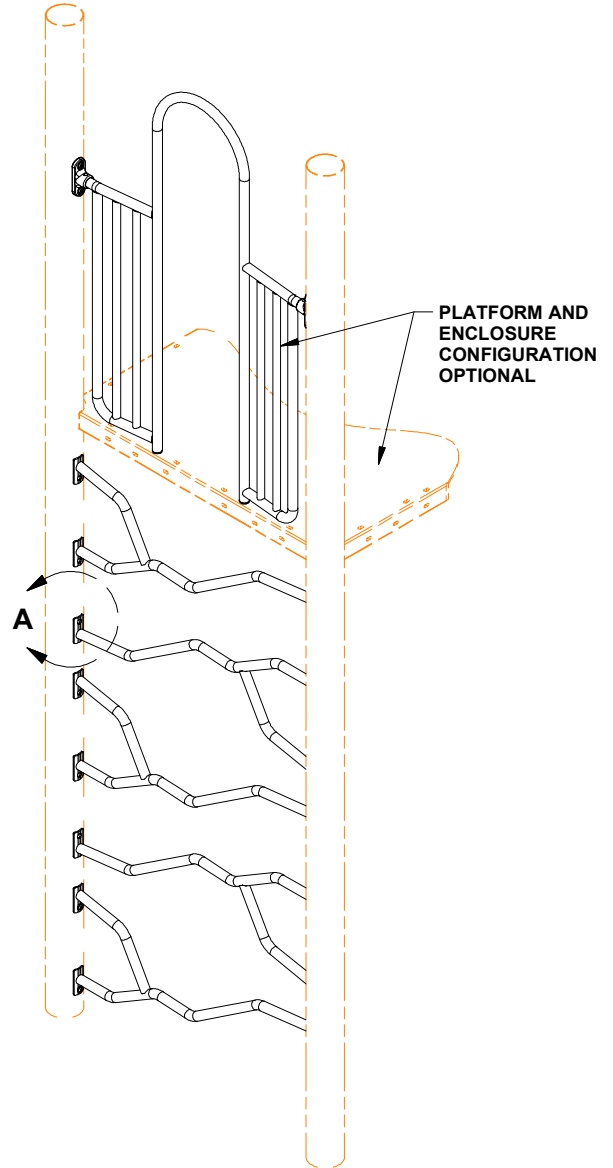
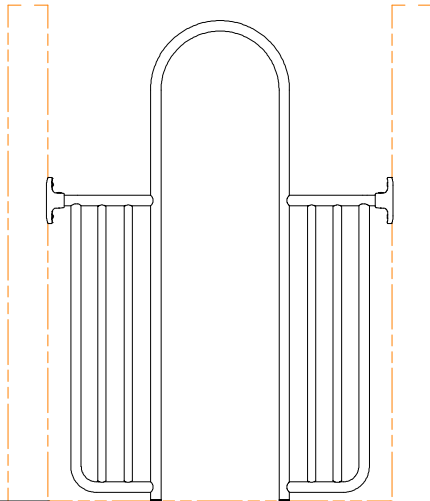
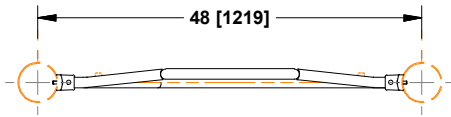
HARDWARE PACKAGE: Stainless Steel.

SHIPPING WEIGHT: 33 LBS.

INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

1. Locate correct post to assemble climber to, from site plan.
2. Attach climber to post using hardware specified in DETAIL A. Repeat for remaining climbers.
3. Tighten all hardware.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



370-0870 TREE BRANCH CLIMBER 96"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-2624	TREE BRANCH CLIMBER	5
036-0040	HARDWARE PACKAGE	5

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TREE BRANCH CLIMBER: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, and 7 GA stainless steel sheet. Finished with a baked on powder coating.

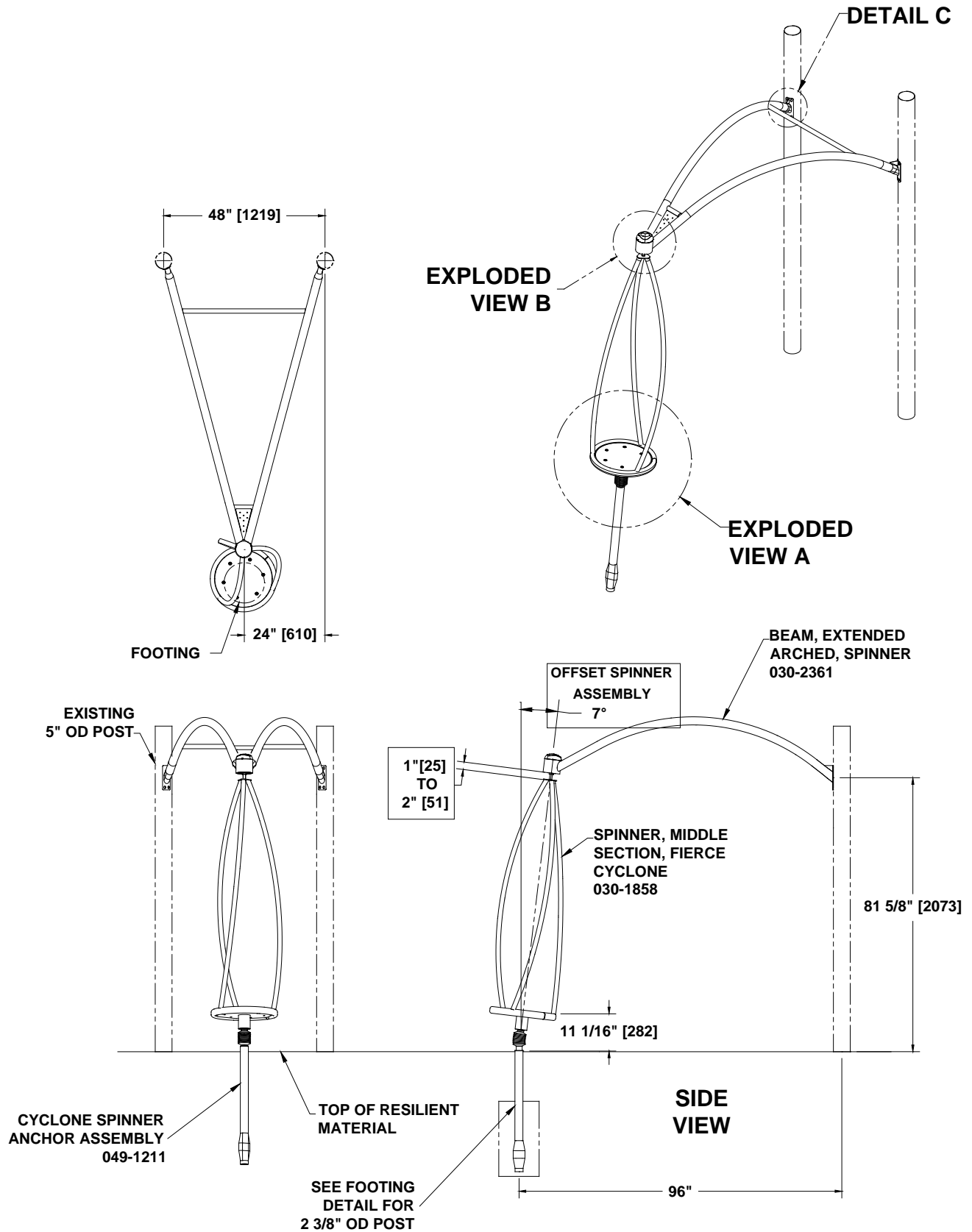
HARDWARE PACKAGE: Stainless Steel.

SHIPPING WEIGHT: 41 LBS.

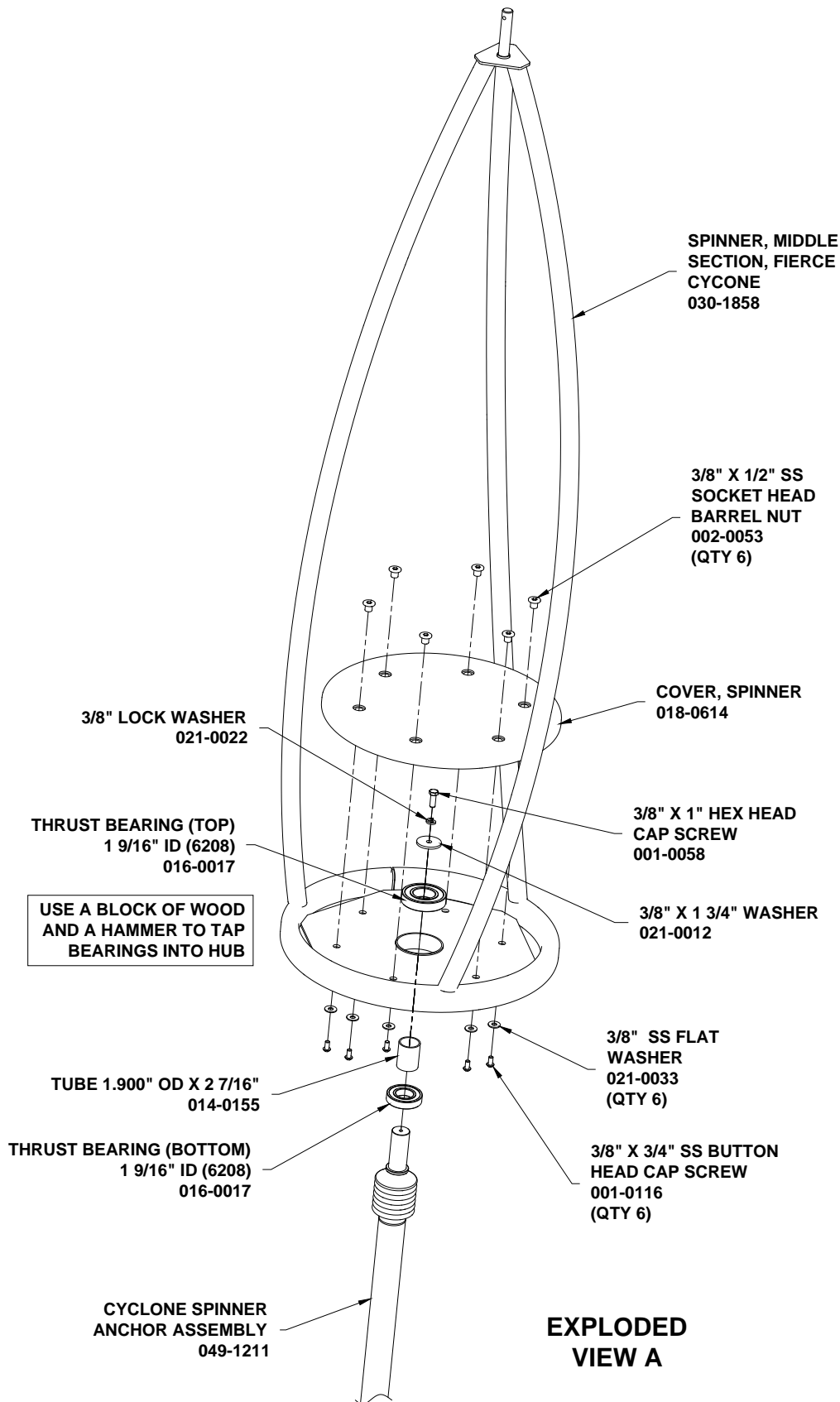
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

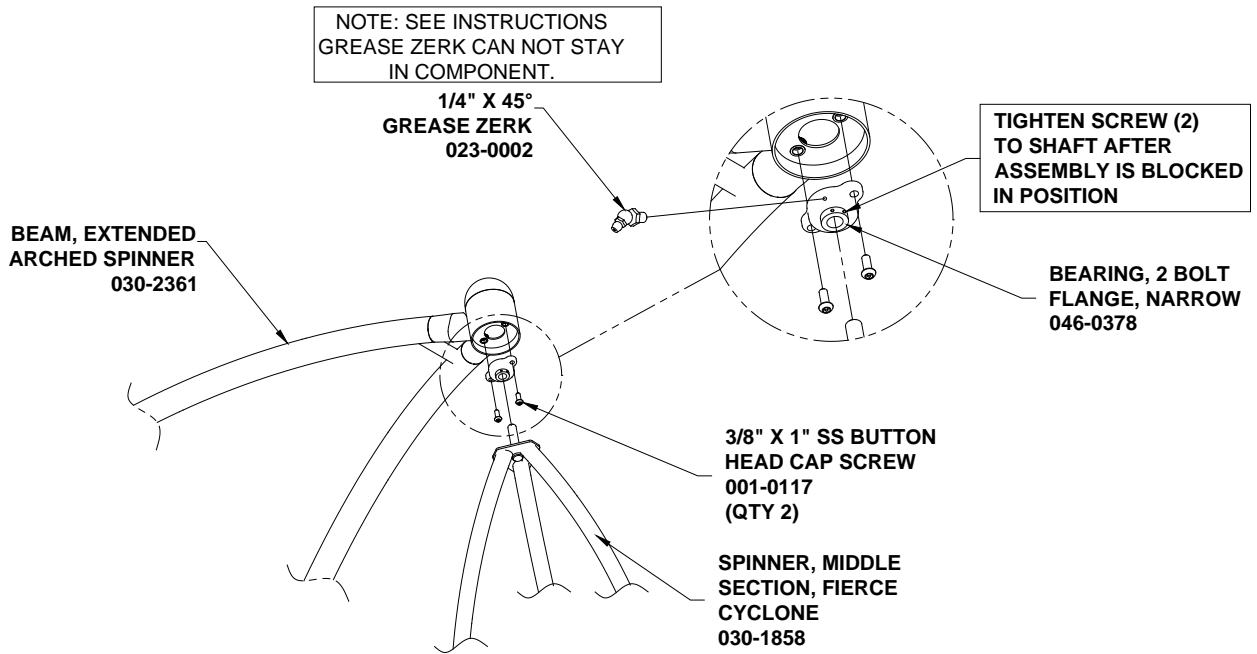
1. Locate correct post to assemble climber to, from site plan.
2. Attach climber to post using hardware specified in DETAIL A. Repeat for remaining climbers.
3. Tighten all hardware.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



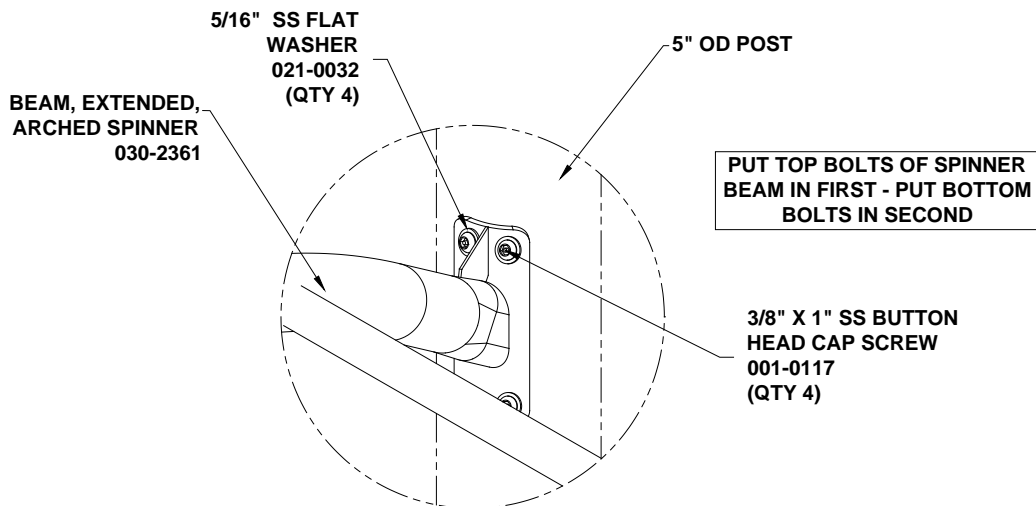
370-1581 SPINNER, FIERCE CYCLONE



370-1581 SPINNER, FIERCE CYCLONE



**EXPLODED
VIEW B**



**DETAIL C
(2 PLACES)**

370-1581 SPINNER, FIERCE CYCLONE

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
014-0155	TUBE, 1.900" OD X 11 GA X 2 7/16"	1
016-0017	THRUST BEARING 1 9/16" ID	2
018-0614	COVER, SPINNER	1
023-0002	1/4" X 45° GREASE ZERK	1
030-1858	SPINNER, MIDDLE SECTION, FIERCE CYCLONE	1
030-2361	BEAM, EXTENDED ARCH, SPINNER	1
036-0815	HARDWARE PACKAGE	1
036-0838	HARDWARE PACKAGE	1
036-1242	HARDWARE PACKAGE	1
036-0258	HARDWARE PACKAGE	3
046-0378	BEARING, 2 BOLT FLANGE, NARROW	1
049-1211	CYCLONE SPINNER ANCHOR ASSEMBLY	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TUBE, 1.900" OD X 11 GA X 2 7/16": 1.900" OD x 11 GA galvanized steel tube.

THRUST BEARING 1 9/16" ID: Heavy duty, precision thrust, sealed ball bearing.

COVER, SPINNER: 3/4" extruded HDPE

1/4" X 45° GREASE ZERK: Zinc plated steel.

SPINNER, MIDDLE SECTION, FIERCE CYCLONE: One piece all welded construction consisting of formed 1.660" OD x 12 GA & 1.315" OD x 12 GA galvanized steel tubing, 3 1/2" OD x 3/8" wall DOM steel tubing and 1/4" HR steel plate. Finished with a baked on powder coating.

BEAM, EXTENDED ARCH, SPINNER: One piece all welded construction consisting of formed 2 3/8" OD x 10 GA & 1.315" OD x 12 GA galvanized steel tubing, and 7 GA stainless steel sheet. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

BEARING, 2 BOLT FLANGE, NARROW: PBT Thermoplastic housing, Zinc coated insert, sealed bearing

CYCLONE SPINNER ANCHOR ASSEMBLY: Assembly consisting of an anchor weldment, rubber boot, malleable iron universal joint, bearings, stainless steel set screws and CF steel shaft.

SHIPPING WEIGHT: 155 LBS.

INSTALLATION INSTRUCTIONS

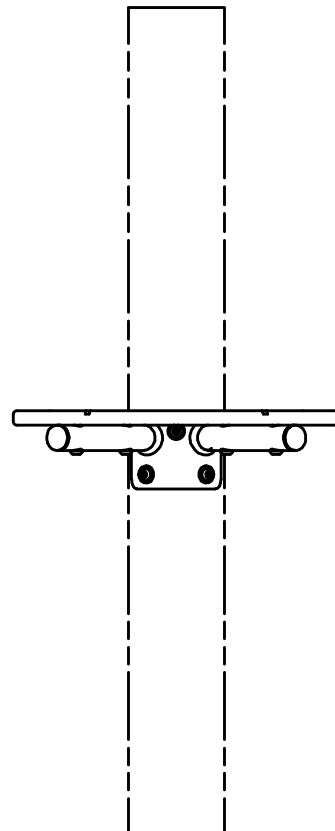
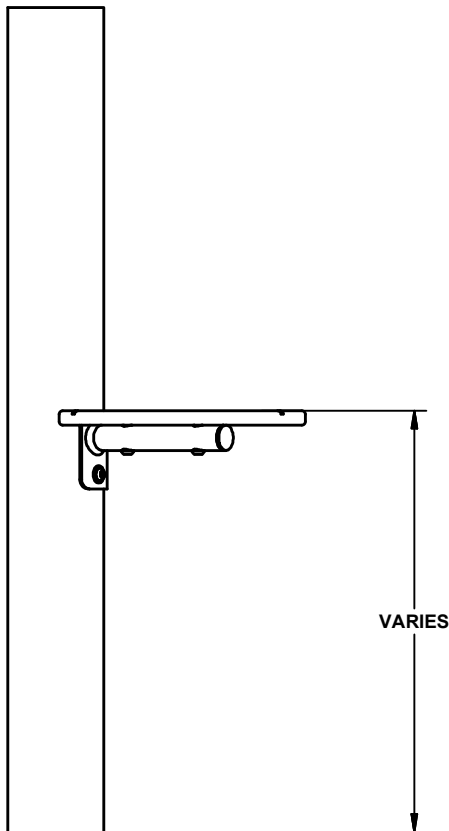
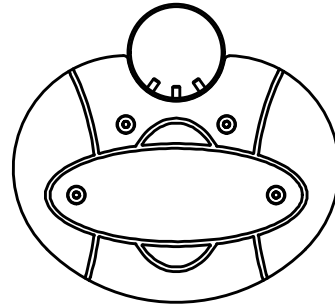
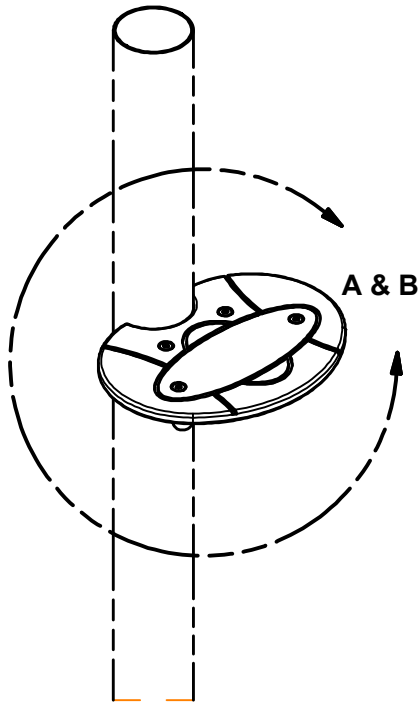
1. Dig footing holes per dimensions shown. See typical concrete footing details for 2 3/8" tubing which are located in the preface of your installation manual.
2. Attach BEAM, EXTENDED ARCH, SPINNER to posts using 3/8" x 1" SS button head cap screws and 5/16" SS flat washers. Tighten hardware. See DETAIL C.
3. Remove steel plug from side of 2 BOLT FLANGE BEARING and insert 1/4" X 45° GREASE ZERK to 2 bolt flange bearing. See EXPLODED VIEW B. Add grease as necessary.

NOTE: Grease zerk is provided so that the Flange Bearing on the Spinner Shaft can be lubricated during periodic maintenance.

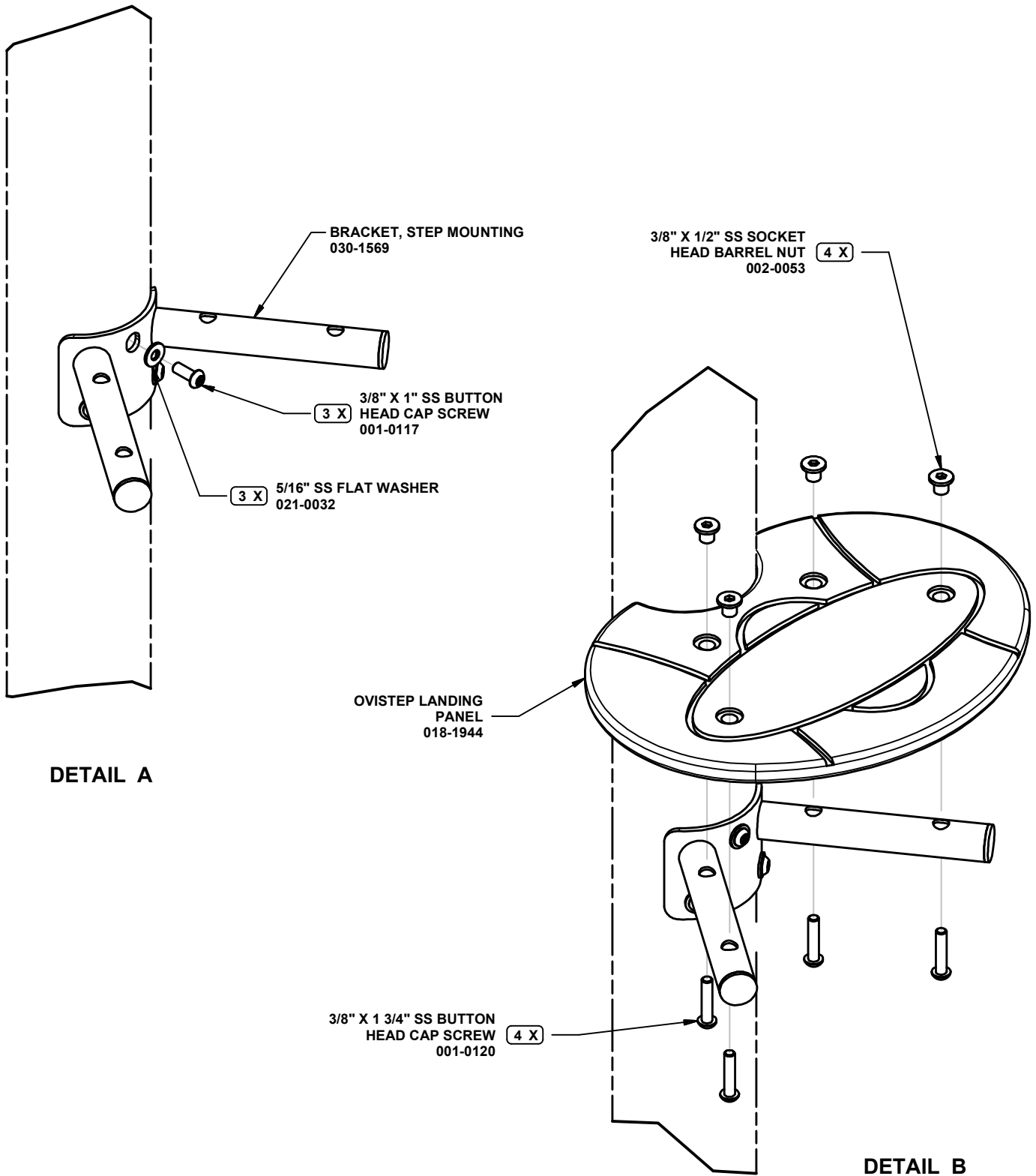
1. Remove set screw from hub.
2. Screw in grease zerk.
3. Insert general purpose grease into grease zerk from hand grease gun.
4. Remove grease zerk and re-insert set screw flush with bearing hub surface.

NOTE: Keep grease zerk in a safe place and save for next maintenance period.

4. Attach 2 bolt flange bearing to ARCHED BEAM using 3/8" x 1" SS button head cap screws. Tighten hardware. See EXPLODED VIEW B.
5. Attach SPINNER MIDDLE SECTION to the CYCLONE SPINNER ANCHOR ASSEMBLY with all the parts in-between. Tighten hardware. See EXPLODED VIEW A.
6. Put Anchor section of Spinner Middle Section assembly into the footing hole. Push assembly up so shaft of Spinner Middle Section goes into the Flange Bearing on the Arched Beam. Ensure that there is 1" to 2" of space between Arched Beam and to bar of the Spinner Middle Section. See EXPLODED VIEW B & SIDE VIEW.
7. Block up Spinner Middle Section assembly. Ensure there is a 7 degree offset. Tighten set screws. See EXPLODED VIEW B & SIDE VIEW.
8. Pour concrete and allow concrete to set for 2-3 days.
9. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



370-1608 OVISTEP LAUNCH PAD



370-1608 OVISTEP LAUNCH PAD

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-1944	OVISTEP LANDING PANEL	1
030-1569	BRACKET, STEP MOUNTING	1
036-1305	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

OVISTEP LANDING PANEL: 3/4" co-extruded HDPE.

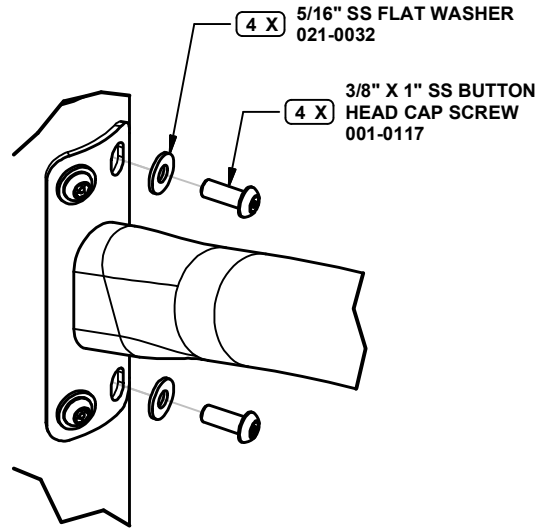
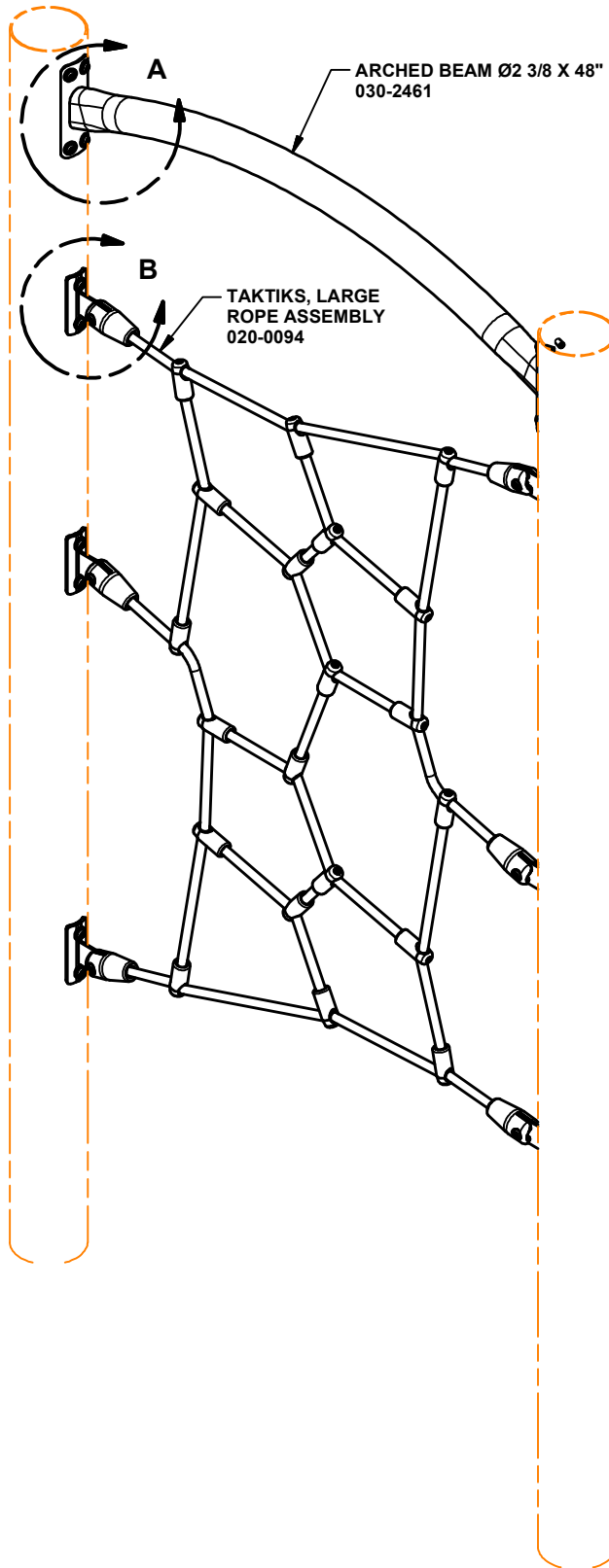
BRACKET, STEP MOUNTING: One piece all welded construction consisting of 10 GA galvanized sheet steel, 7 GA stainless steel sheet and 1.315" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

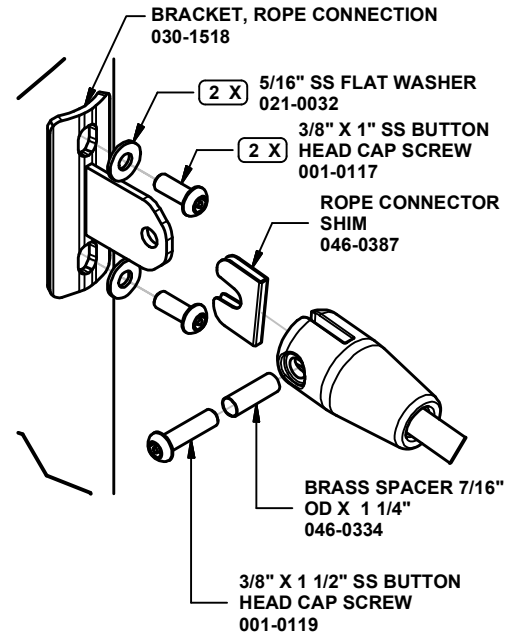
SHIPPING WEIGHT: 9.55 LBS.

INSTALLATION INSTRUCTIONS

1. Attach STEP MOUNTING BRACKET to post using hardware specified in DETAIL A.
2. Attach OVISTEP LANDING PANEL to Step Mounting Bracket using hardware specified in DETAIL B.
3. Plumb and level component. Tighten all hardware.
4. **INSTALL RESILIENT SURFACING MATERIAL IN ACCORDANCE TO INSTALLATION GUIDELINES.**

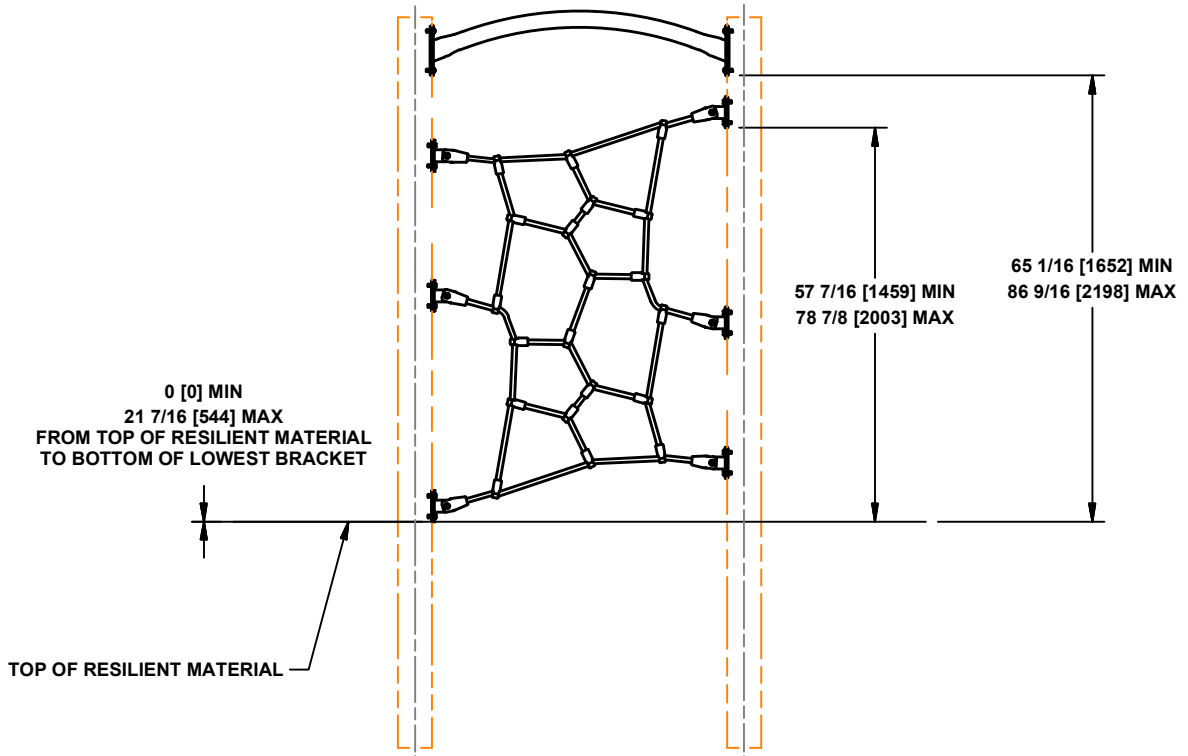
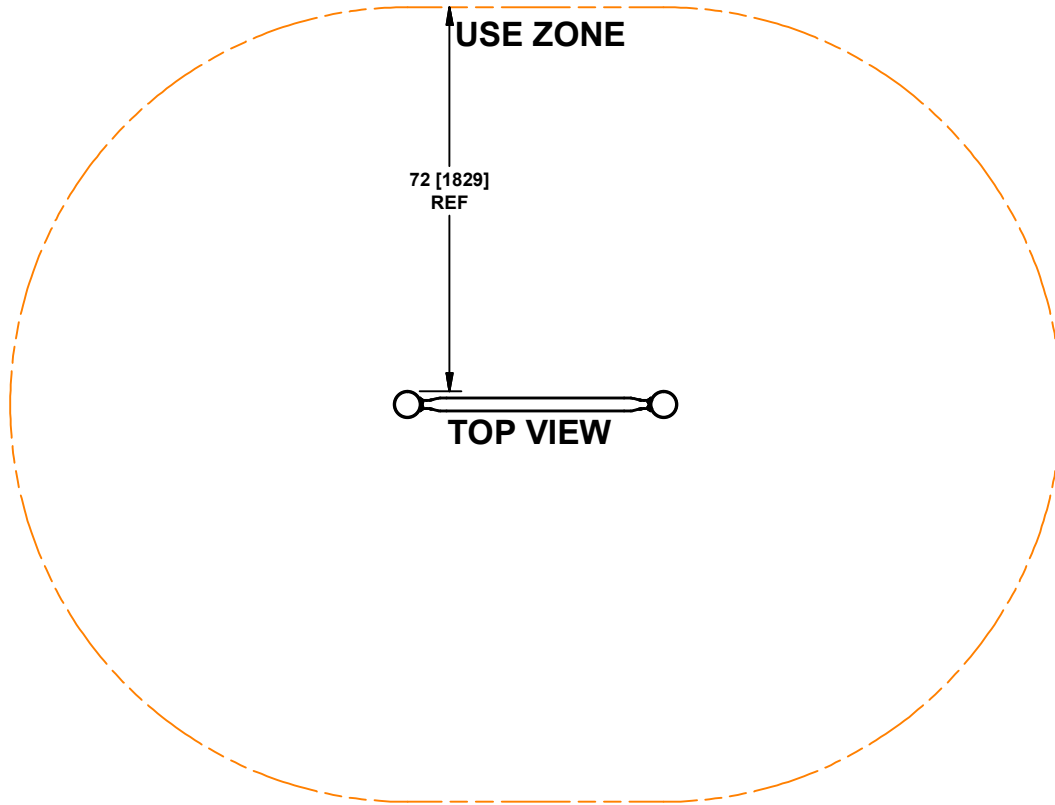


DETAIL A
(2 PLACES)



DETAIL B
(6 PLACES)

370-1616 TAKTIKS, TALL ROPE WALL



SIDE VIEW

370-1616 TAKTIKS, TALL ROPE WALL

PARTS LIST

PART NO.	DESCRIPTION	QTY
020-0094	TAKTIKS, LARGE ROPE ASSEMBLY	1
030-1518	BRACKET, ROPE CONNECTION	6
030-2461	ARCHED BEAM Ø2 3/8 X 48"	1
036-0258	HARDWARE PACKAGE	4
036-0883	HARDWARE PACKAGE	3
046-0334	BRASS SPACER 7/16" OD X 1 1/4"	6

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

TAKTIKS, LARGE ROPE ASSEMBLY: Rope consists of 6 right hand, regular lay strands, closed around a synthetic fiber core, with each preformed strand consisting of 8 galvanized steel wires tightly covered with polyester fibers. Aluminum end connectors and ferrules with stainless steel screws.

BRACKET, ROPE CONNECTION: One piece all welded construction consisting of a formed 3/16" stainless steel plate and a 8 GA galvanized steel sheet. Finished with a baked on powder coating.

ARCHED BEAM Ø2 3/8 X 48": One piece all welded construction consisting of formed 2 3/8" OD x 10 GA galvanized steel tubing and 7 GA stainless steel sheet. Finished with a baked on powder coating.

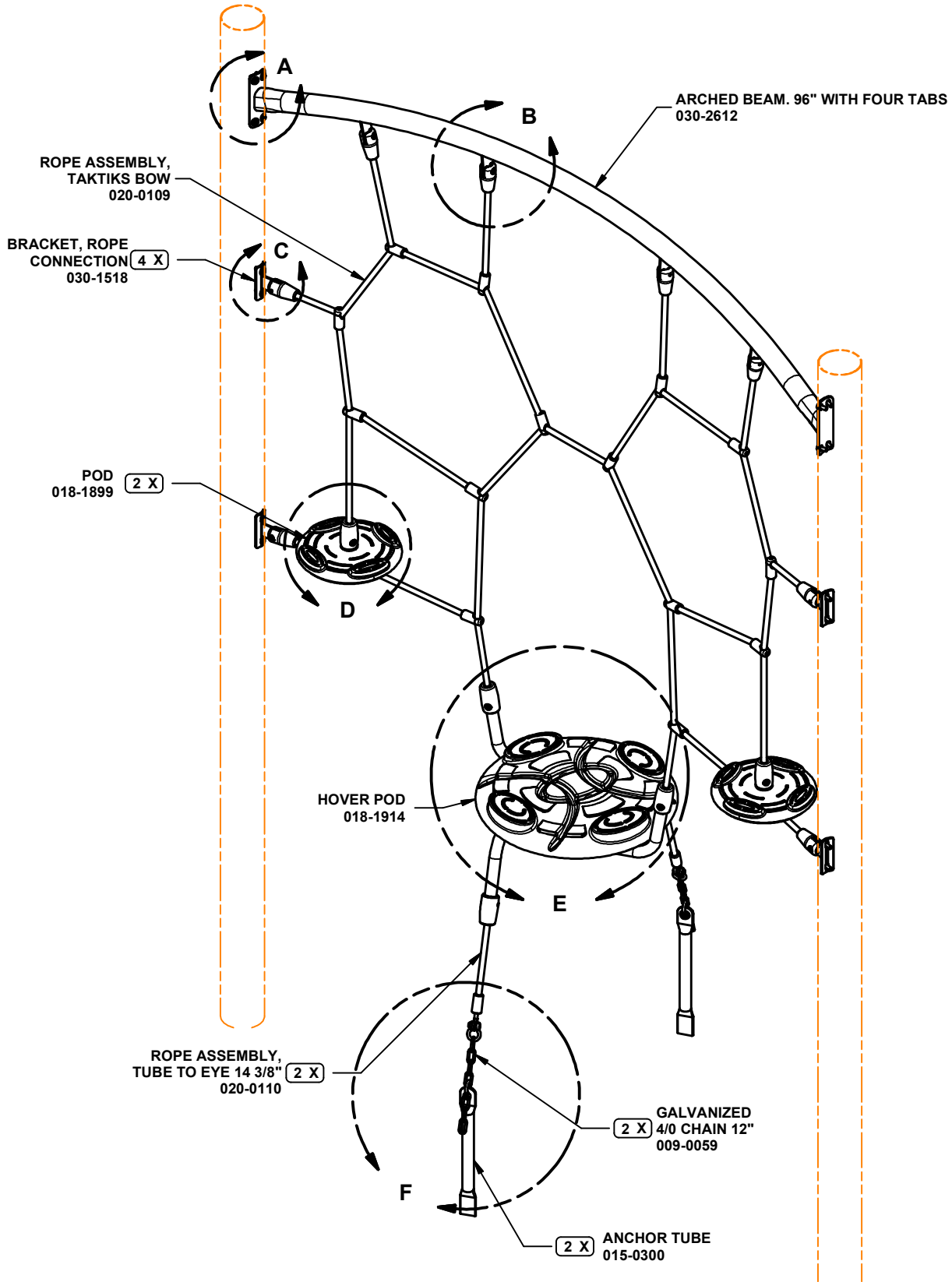
HARDWARE PACKAGE; HARDWARE PACKAGE: Stainless steel and black thermoplastic.

BRASS SPACER 7/16" OD X 1 1/4": Brass Tube 7/16" OD X .028" Wall

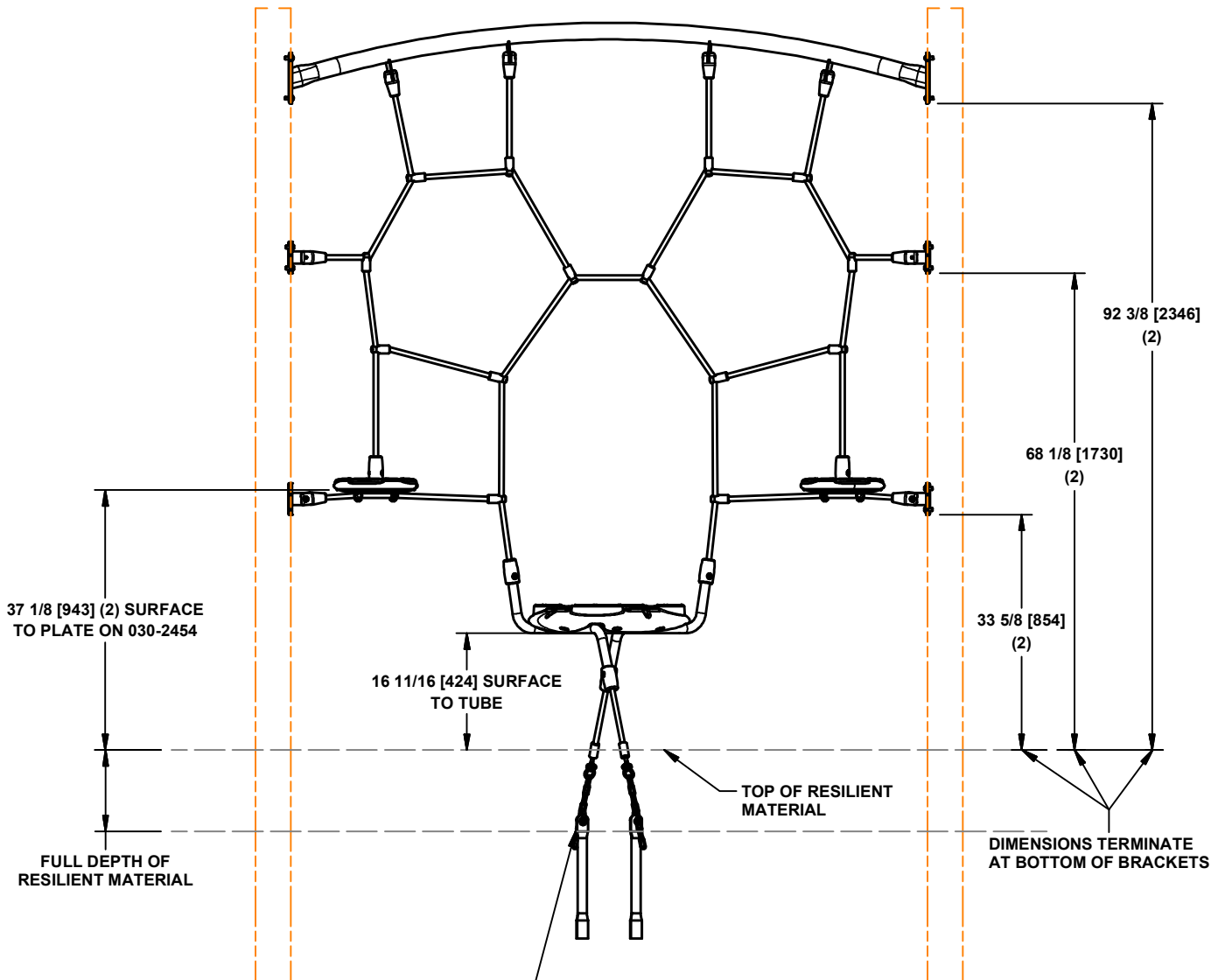
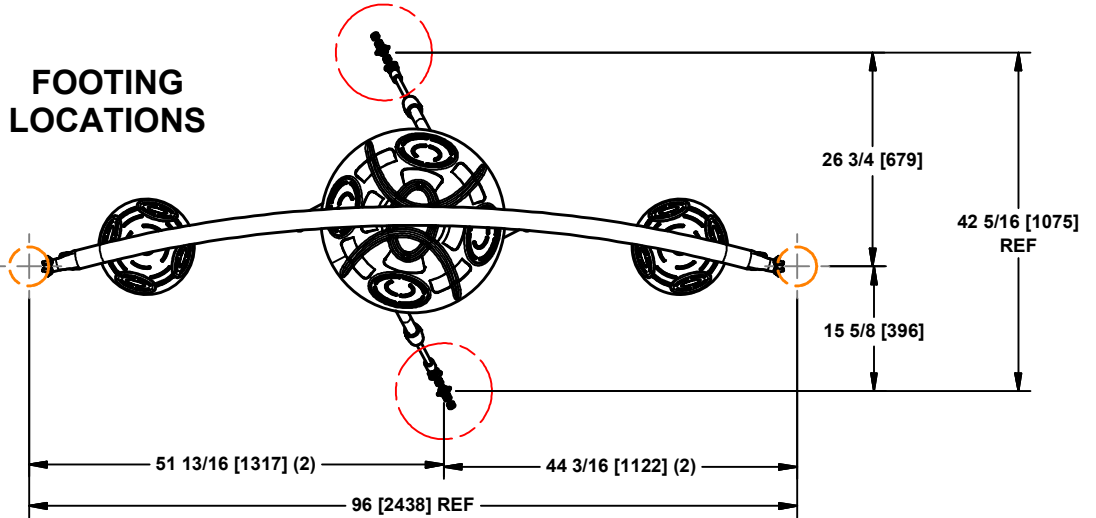
SHIPPING WEIGHT: 30 LBS.

INSTALLATION INSTRUCTIONS

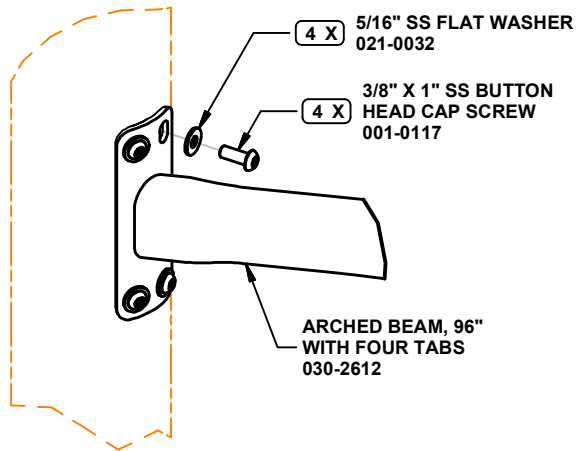
1. After posts have been installed, attach ARCHED BEAM Ø2 3/8 X 48" to the posts using hardware specified in DETAIL A.
2. Attach TAKTIKS, LARGE ROPE ASSEMBLY and BRACKET, ROPE CONNECTION to the posts using hardware specified in DETAIL B.
3. **Install resilient material in accordance to installation guidelines, ASTM standards, and CPSC guidelines.**



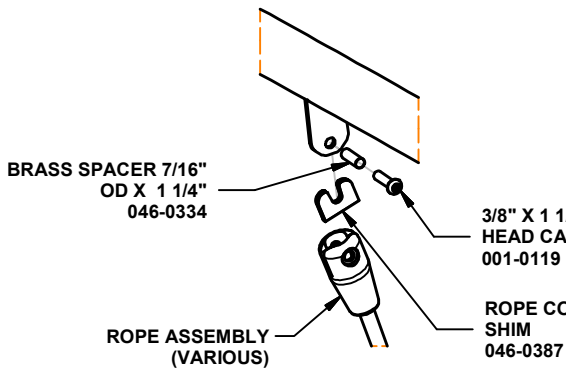
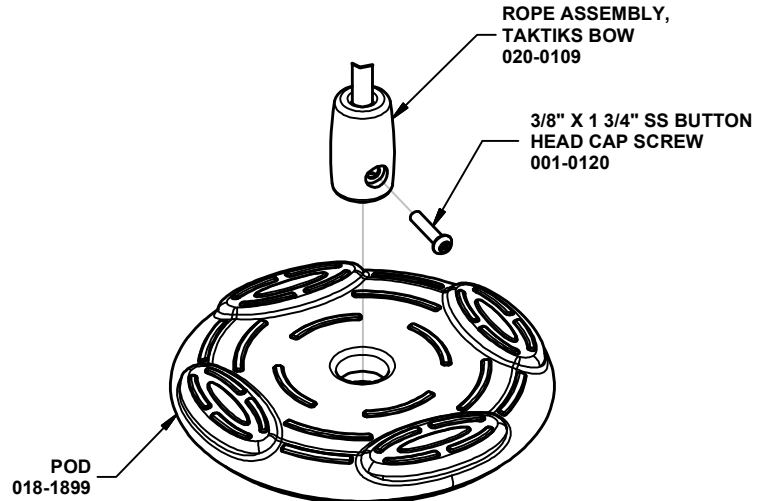
370-1620 TAKTIKS BOW CLIMBER



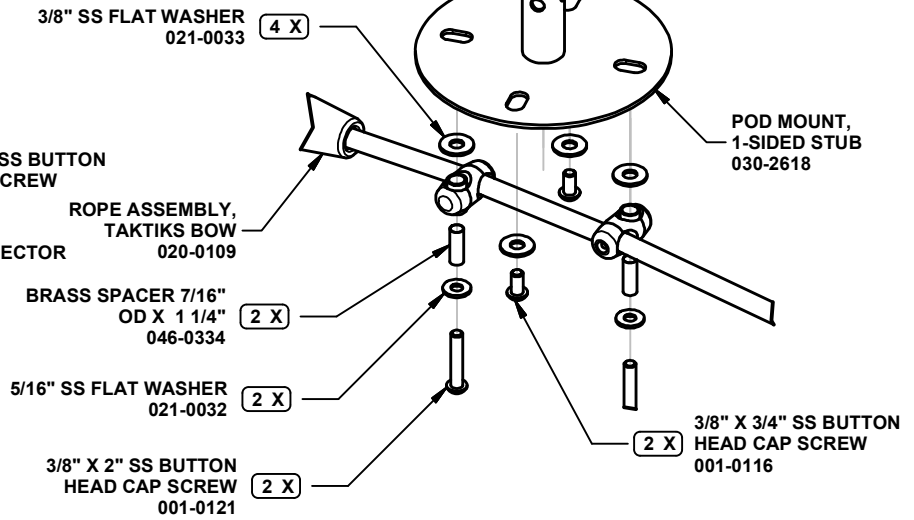
370-1620 TAKTIKS BOW CLIMBER



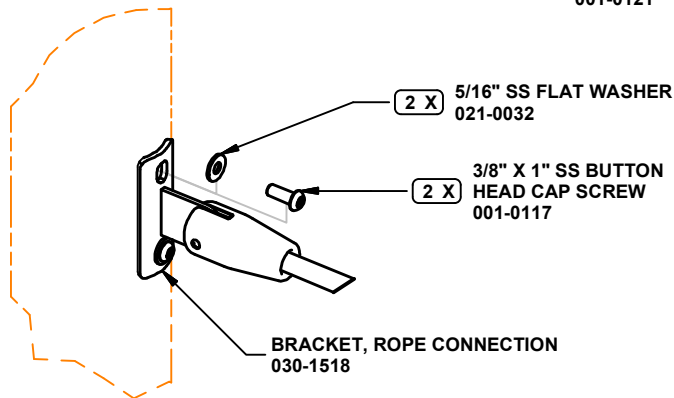
DETAIL A
(2 PLACES)



DETAIL B
(8 PLACES)

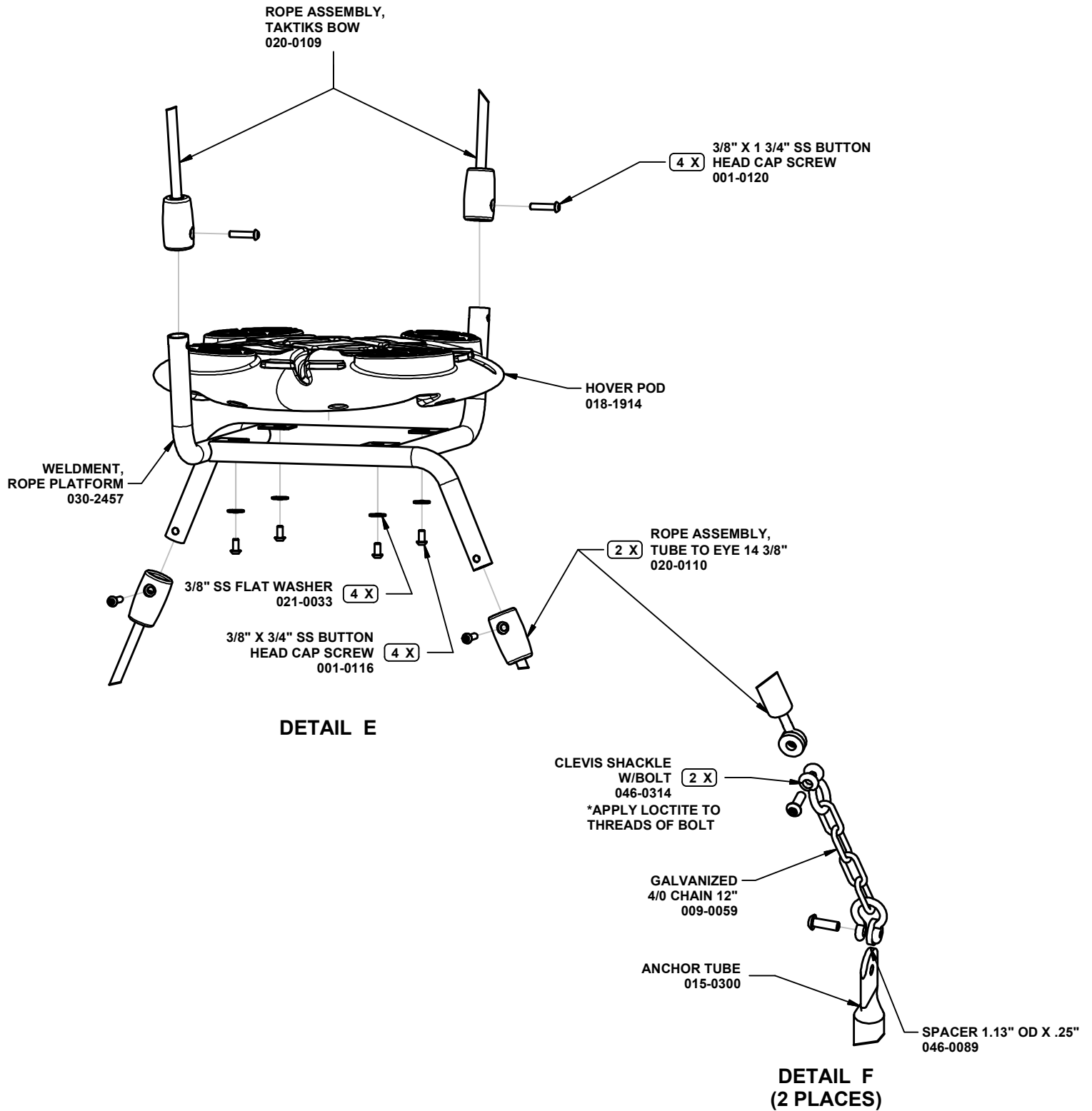


DETAIL D
(2 PLACES)



DETAIL C
(4 PLACES)

370-1620 TAKTIKS BOW CLIMBER



370-1620 TAKTIKS BOW CLIMBER

PARTS LIST

PART NO.	DESCRIPTION	QTY
009-0059	GALVANIZED 4/0 CHAIN 12"	2
015-0300	ANCHOR TUBE	2
018-1899	POD	2
018-1914	HOVER POD	1
020-0109	ROPE ASSEMBLY, TAKTIKS BOW	1
020-0110	ROPE ASSEMBLY, TUBE TO EYE 14 3/8"	2
030-1518	BRACKET, ROPE CONNECTION	4
030-2457	WELDMENT, ROPE PLATFORM	1
030-2612	ARCHED BEAM, 96" WITH FOUR TABS	1
030-2618	POD MOUNT, 1-SIDED STUB	2
036-0788	HARDWARE PACKAGE	2
036-0893	HARDWARE PACKAGE	1
046-0089	SPACER 1.13" OD X .25"	4
046-0291	LOCTITE	1
046-0334	BRASS SPACER 7/16" OD X 1 1/4"	12

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED 4/0 CHAIN 12": Galvanized 4/0 straight coil chain.

ANCHOR TUBE: 1.315" OD x 12 GA galvanized steel tubing.

POD; HOVER POD: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction.

ROPE ASSEMBLY, TAKTIKS BOW; ROPE ASSEMBLY, TUBE TO EYE 14 3/8": Rope consists of 6 right hand, regular lay strands, closed around a synthetic fiber core, with each preformed strand consisting of 8 galvanized steel wires tightly covered with polyester fibers. Aluminum end connectors and ferrules.

BRACKET, ROPE CONNECTION: One piece all welded construction consisting of a formed 3/16" stainless steel plate and a 8 GA galvanized steel sheet. Finished with a baked on powder coating.

WELDMENT, ROPE PLATFORM: One piece all welded construction consisting of formed 1.315" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

ARCHED BEAM, 96" WITH FOUR TABS: One piece all welded construction consisting of formed 2 3/8" OD x 10 GA galvanized steel tubing, 7 GA stainless steel sheet and 8 GA galvanized steel plate. Finished with a baked on powder coating.

POD MOUNT, 1-SIDED STUB: One piece all welded construction consisting of formed 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized steel sheet. Finished with a baked on powder coating.

HARDWARE PACKAGE: 5/16" Shackle with a 3/8" X 1 5/32" bolt.

HARDWARE PACKAGE: Stainless steel and black thermoplastic.

SPACER 1.13" OD X .25": 1/4" Nylatron GS.

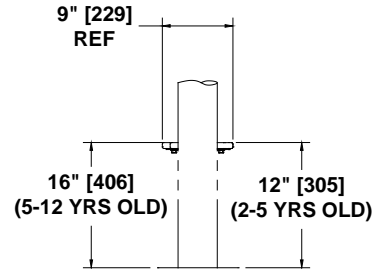
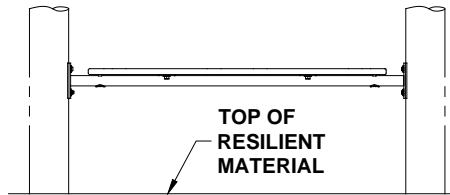
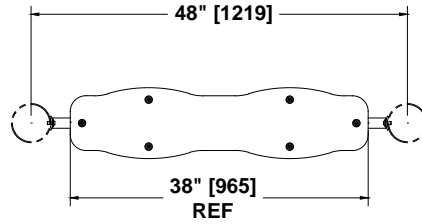
LOCTITE: Thread Locker; **CAUTION**: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

BRASS SPACER 7/16" OD X 1 1/4": Brass Tube 7/16" OD X .028" Wall

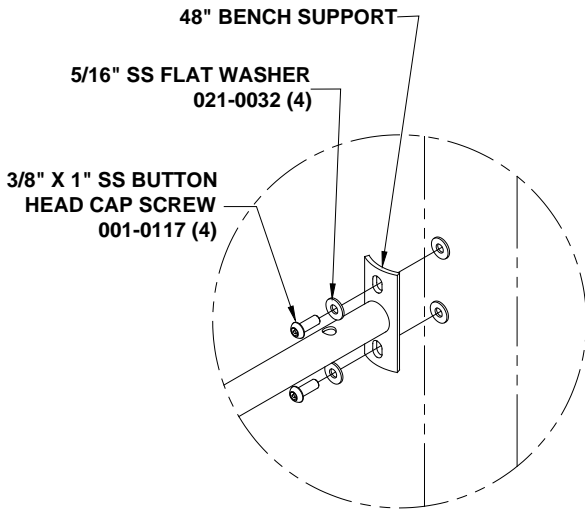
SHIPPING WEIGHT: 79 LBS.

INSTALLATION INSTRUCTIONS

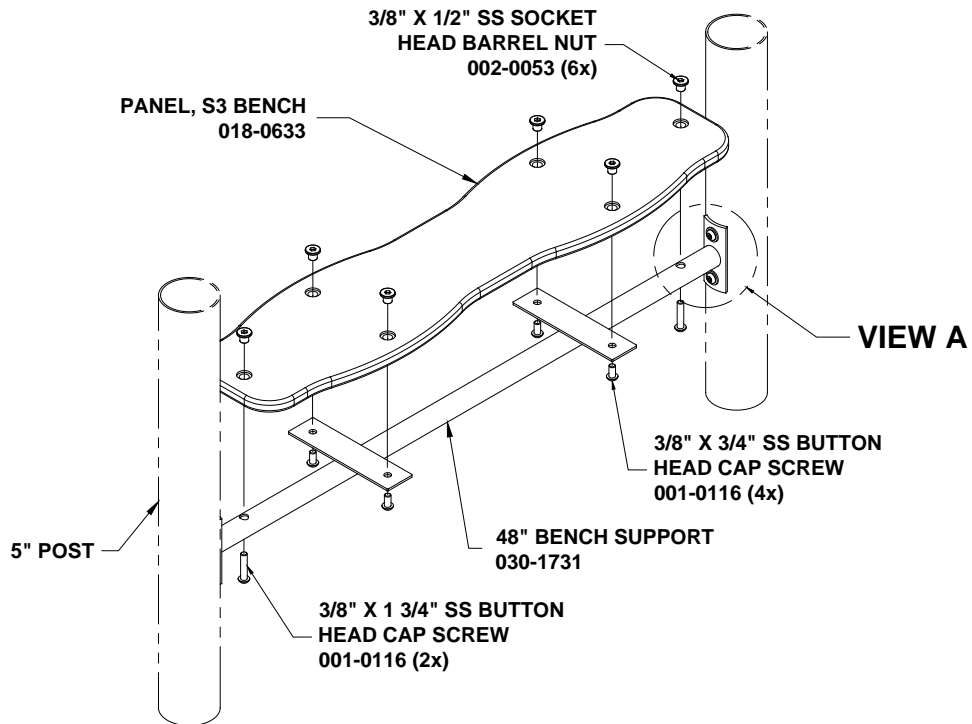
1. Locate footing holes per dimensions shown in FOOTING LOCATIONS view and dig per dimensions given in TYPICAL CONCRETE FOOTINGS for 2 3/8" OD tubes or smaller, which is located in the preface of your installation manual.
2. Attach ARCHED BEAM, 96" WITH FOUR TABS to posts using hardware shown in DETAIL A.
3. Attach (4) BRACKET, ROPE CONNECTION to posts using hardware specified in DETAIL C.
4. Attach ROPE ASSEMBLY, TAKTIKS BOW to beam and brackets using hardware specified in DETAIL B.
5. Assemble (2) POD MOUNT, 1-SIDED STUB and (2) POD using hardware specified in DETAIL D.
6. Attach (2) pod assembly to taktiks bow rope assembly using hardware specified in DETAIL D.
7. Assemble WELDMENT, ROPE PLATFORM and HOVER POD using hardware specified in DETAIL E.
8. Attach hover pod assembly to Taktiks Bow rope assembly using hardware specified in DETAIL E.
9. Connect (2) ROPE ASSEMBLY, TUBE TO EYE 14 3/8" to hover pod assembly using hardware specified in DETAIL E.
10. Assemble (2) GALVANIZED 4/0 CHAIN 12", (2) ANCHOR TUBE, and (2) tube to ropes with eye bolts using hardware specified in DETAIL F. NOTE: Apply Loctite to clevis bolts.
11. Place anchor tube into footings. Pour concrete. Let set for two to three days.
12. **MAKES SURE ROPES ARE TAUT.** If some are not taut, remove bolts from anchor tubes and refasten bolt through the next higher link.
13. **Install resilient material in accordance to installation guidelines, ASTM standards, and CPSC guidelines.**



ELEVATION VIEW



**VIEW A
(2 PLACES)**



**470-0482
48" BENCH**

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
018-0633	PANEL, S3 BENCH	1
030-1731	48" BENCH SUPPORT	1
036-1363	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PANEL, S3 BENCH: 3/4" EXTRUDED HDPE

48" BENCH SUPPORT: One piece all welded construction consisting of 1.315" OD x 14 GA galvanized tubing, formed 3/16" stainless steel plates and 10 GA HRS steel plates. Finished with a baked on powder coating.

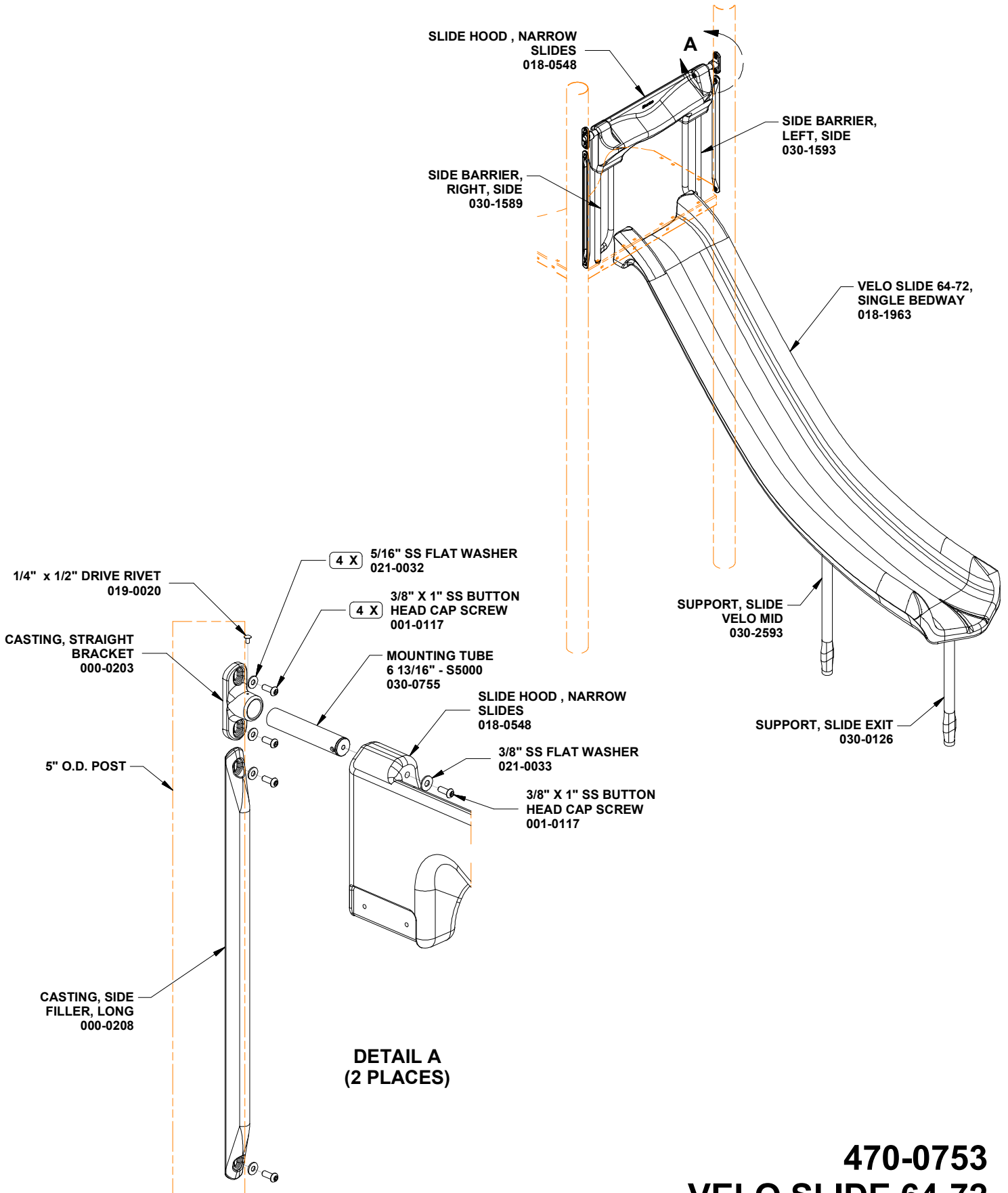
HARDWARE PACKAGE: Stainless steel

SHIPPING WEIGHT: 18 LBS.

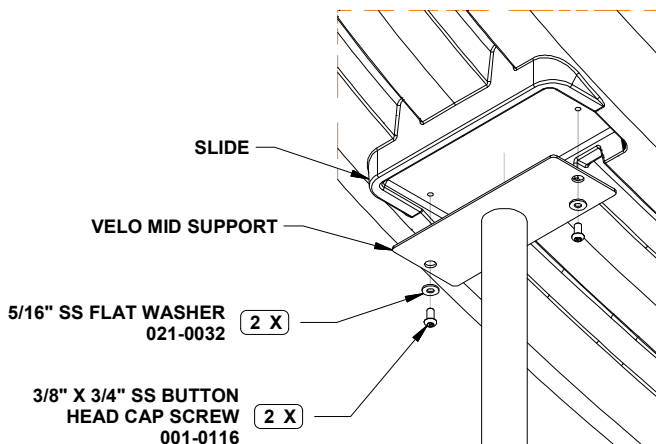
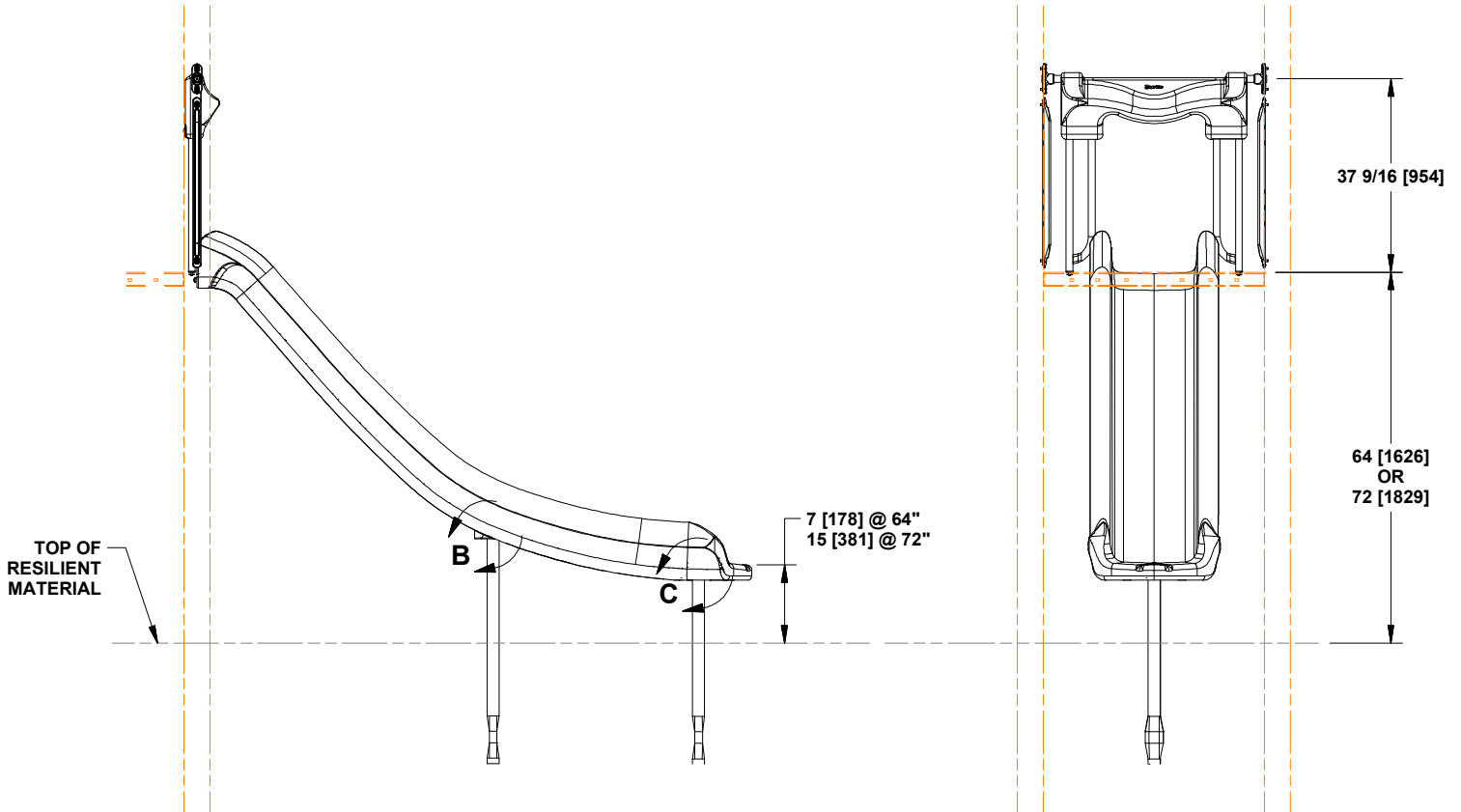
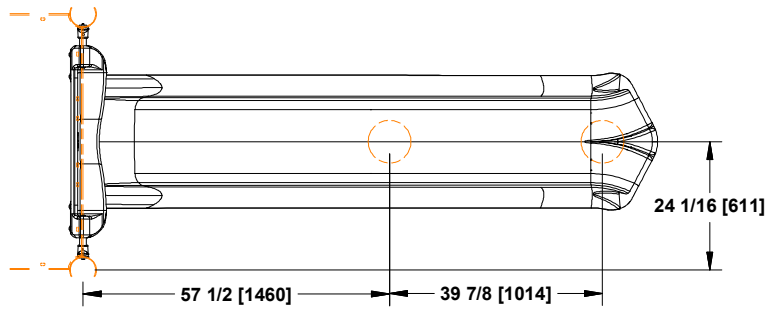
INSTALLATION INSTRUCTIONS

NOTE: Do not tighten hardware until instructed to do so.

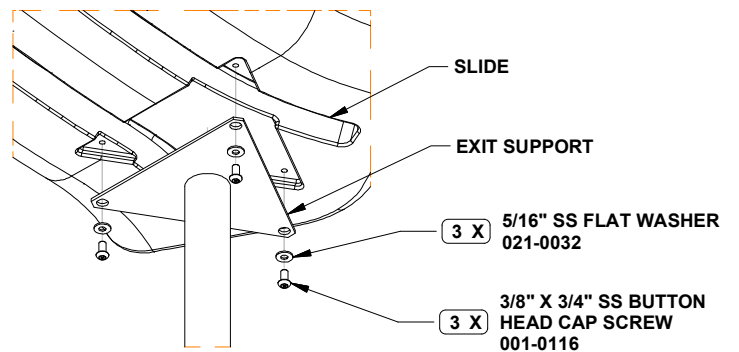
1. Secure both ends of the 48" BENCH SUPPORT to 5" posts using 3/8" x 1" SS button head cap screws and 5/16" SS flat washers. See VIEW A.
2. Attach BENCH PANEL to 48" bench support using 3/8" x 3/4" SS button head cap screws, 3/8" x 1 3/4" SS button head cap screws and 3/8" x 1/2" SS Socket Head Barrel Nut. Tighten hardware.
3. Level bench panel and tighten hardware.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



470-0753 VELO SLIDE 64-72

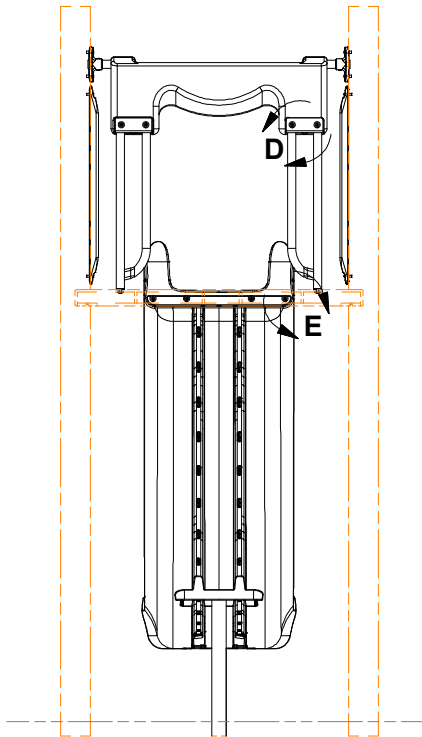


DETAIL B

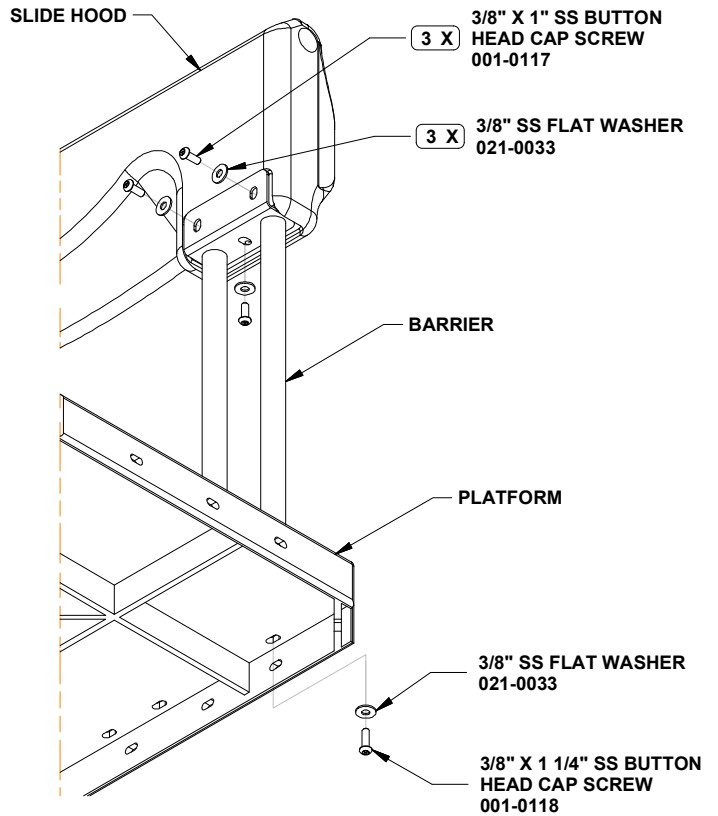


DETAIL C

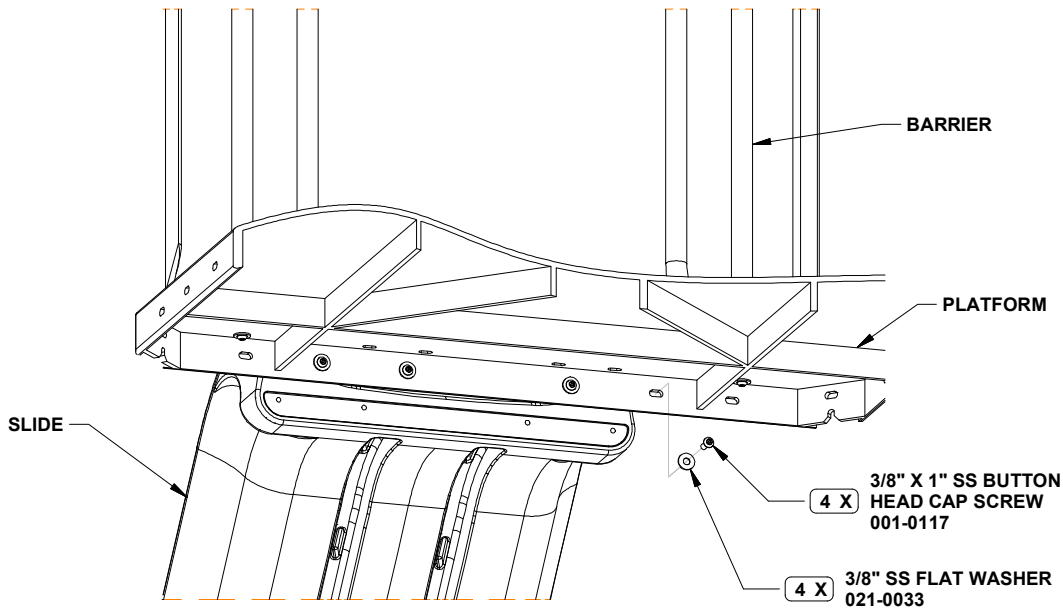
470-0753 VELO SLIDE 64-72



BACK VIEW



**DETAIL D
(2 PLACES)**



DETAIL E

470-0753
VELO SLIDE 64-72

PARTS LIST

PART NO.	DESCRIPTION	QTY
000-0203	CASTING, STRAIGHT BRACKET	2
000-0208	CASTING, SIDE FILLER, LONG	2
018-0548	SLIDE HOOD , NARROW SLIDES	1
018-1963	VELO SLIDE 64-72, SINGLE BEDWAY	1
030-0126	SUPPORT, SLIDE EXIT	1
030-0755	MOUNTING TUBE 6 13/16" - S5000	2
030-1589	SIDE BARRIER, RIGHT, SLIDE	1
030-1593	SIDE BARRIER, LEFT, SLIDE	1
030-2593	SUPPORT, SLIDE VELO MID	1
036-1206	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat- Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, LONG: A56 Aluminum. Finished with baked on powder coating.

SLIDE HOOD , NARROW SLIDES; SLIDE, VELO SLIDE 64-72, SINGLE BEDWAY: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SUPPORT, SLIDE EXIT: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and 8 GA galvanized sheet steel. Finished with a baked on powder coating.

MOUNTING TUBE 6 13/16" - S5000: One piece all welded construction consisting of a 1.315 OD x .083" wall galvanized tube and a 12L14 steel threaded insert. Finished with a baked on powder coating.

SIDE BARRIER, RIGHT, SLIDE ; SIDE BARRIER, LEFT, SLIDE : One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized sheet steel, and HDPE threaded inserts. Finished with a baked on powder coating.

SUPPORT, SLIDE VELO MID: One piece all welded construction consisting of 10 GA galvanized steel plate and 2 3/8" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless Steel button head cap screws, washers, lock nuts, barrel nuts, drive rivets. Zinc plated hex head cap screws.

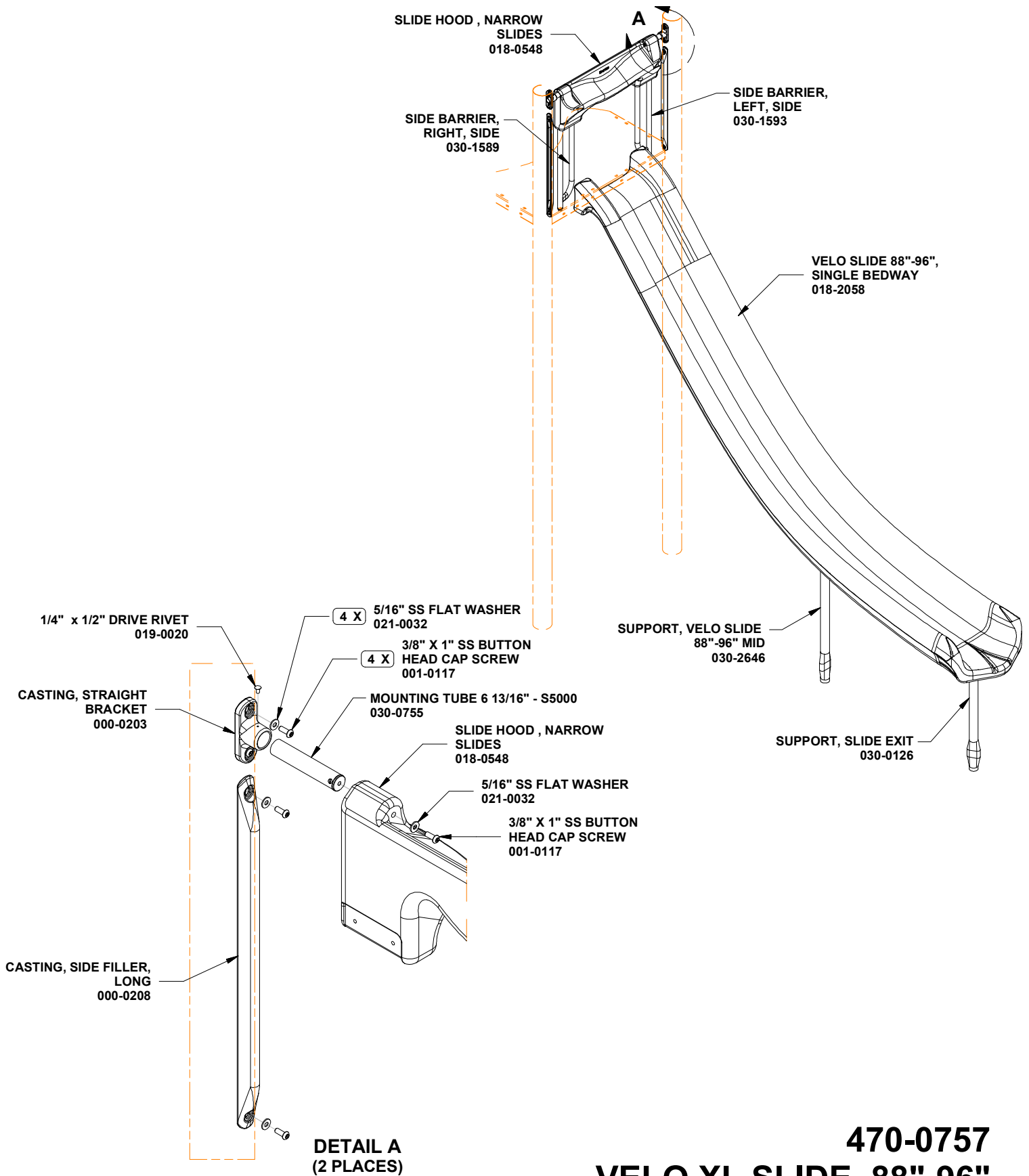
SHIPPING WEIGHT:144 LBS.

INSTALLATION INSTRUCTIONS

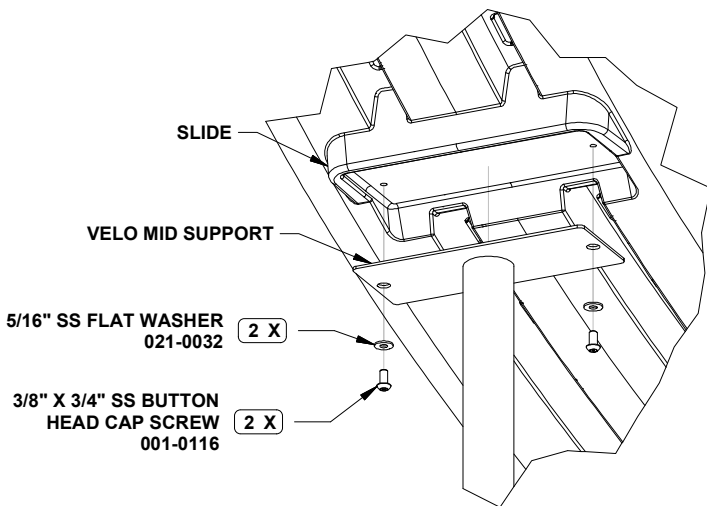
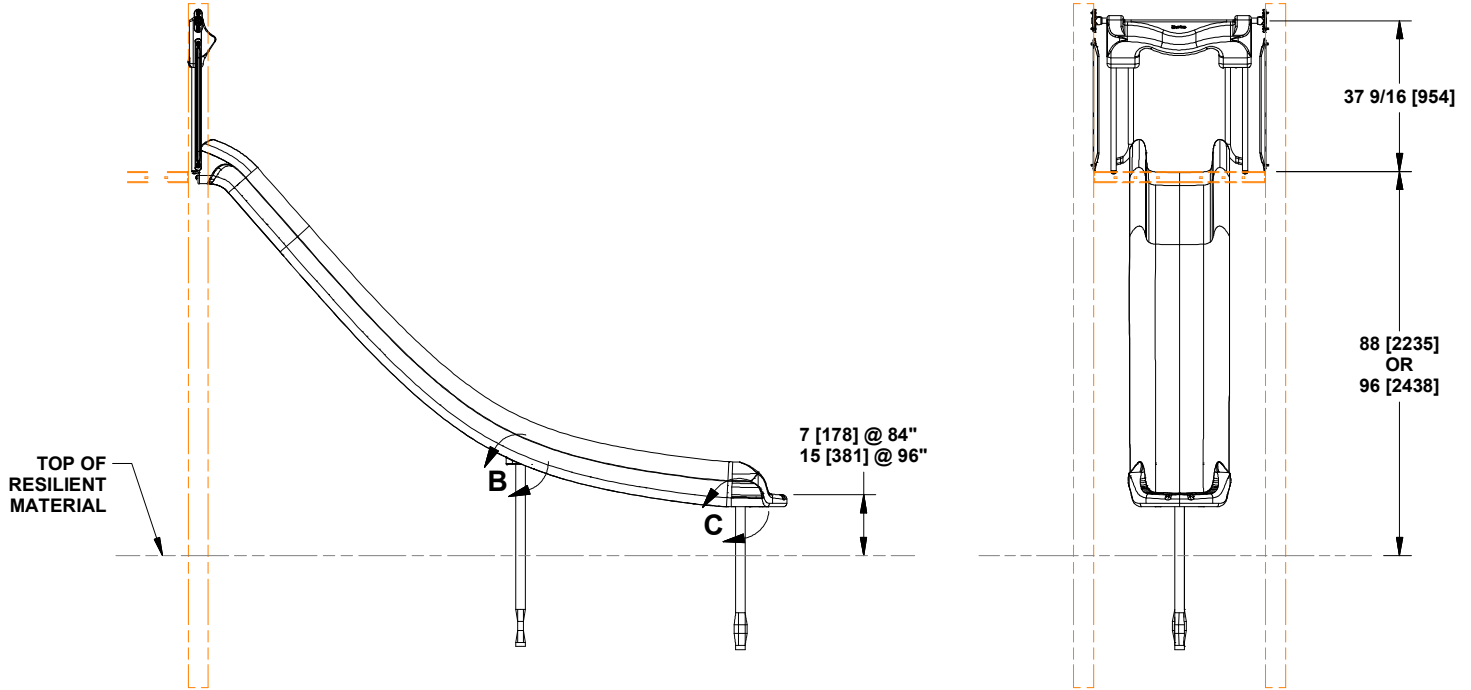
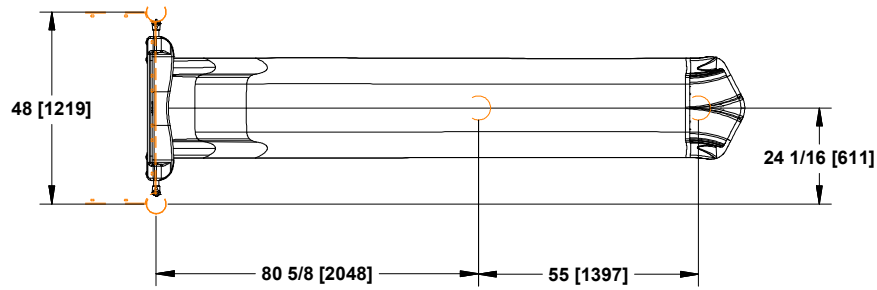
NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

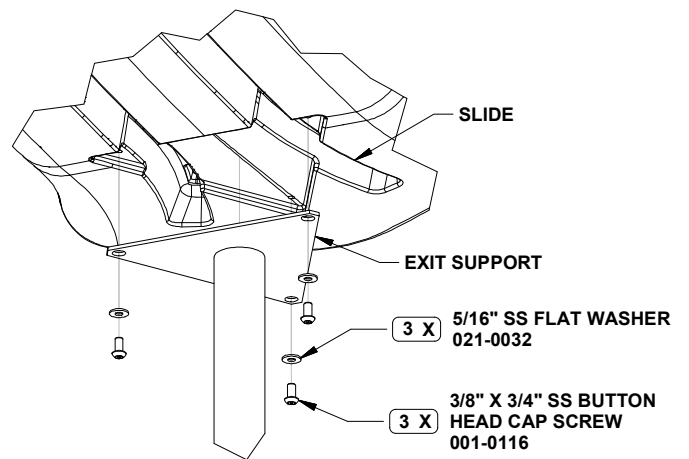
1. After platform has been installed, locate and dig footing holes as per dimensions shown. See footing detail drawing, which is located in the preface of your installation manual.
2. Attach CASTING, SIDE FILLER, LONG to 5" O.D. posts using hardware specified in DETAIL A.
3. Attach SUPPORT, SLIDE VELO MID and SUPPORT, SLIDE EXIT to VELO SLIDE 64-72, SINGLE BEDWAY using hardware specified in DETAIL B and DETAIL C. Tighten fasteners.
4. Position slide into footing holes. Attach slide to platform using hardware specified in DETAIL E. Make sure that the slide is flush and tight to platform.
5. Insert MOUNTING TUBE 6 13/16" - S5000 into SLIDE HOOD, NARROW SLIDES and attach using hardware specified in DETAIL A.
6. Attach SIDE BARRIER, RIGHT, SLIDE and SIDE BARRIER, LEFT, SLIDE to slide hood using hardware specified in DETAIL D.
7. Slide casting brackets onto mounting tubes and attach to 5" O.D. posts using hardware specified in DETAIL A.
8. Attach side barriers to platform using hardware specified in DETAIL D.
9. Tighten all hardware.
10. Block-up, level and plumb.
11. Pour concrete. Let set for two to three days.
12. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



470-0757
VELO XL SLIDE, 88"-96"

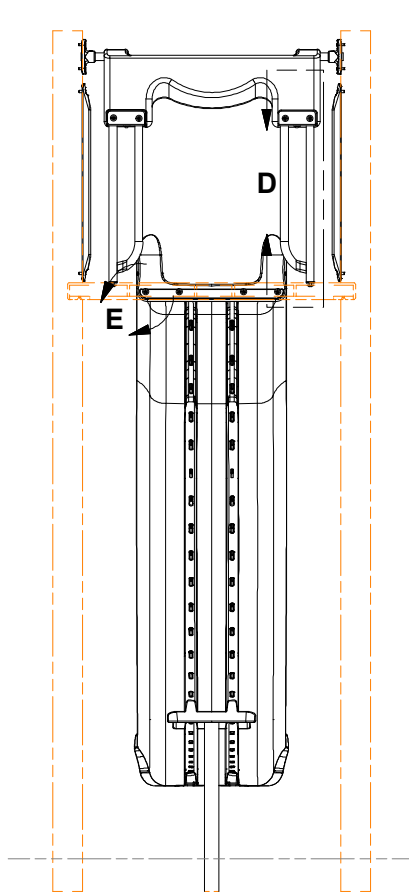


DETAIL B

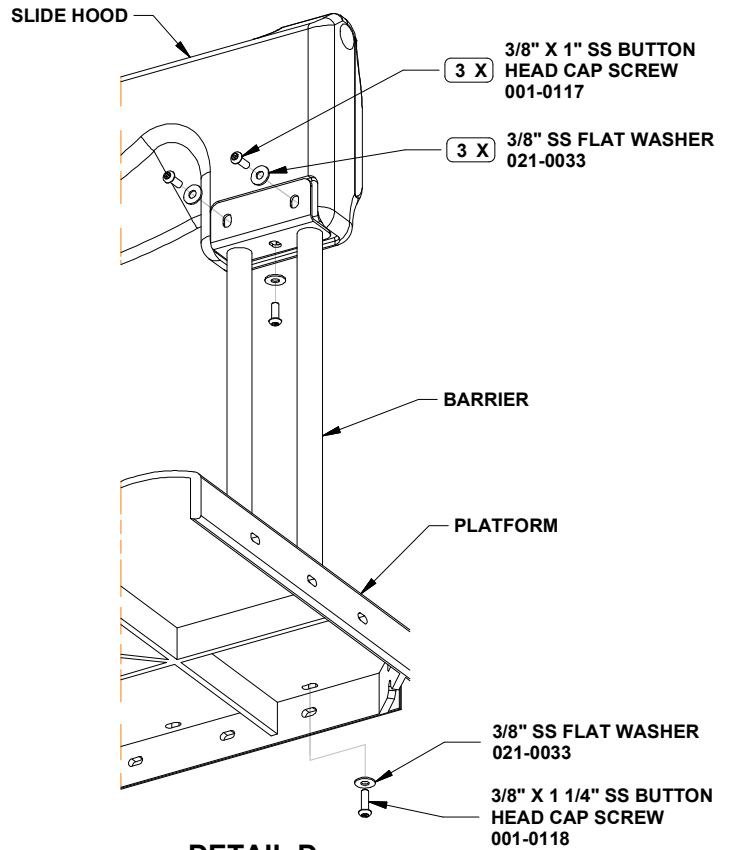


DETAIL C

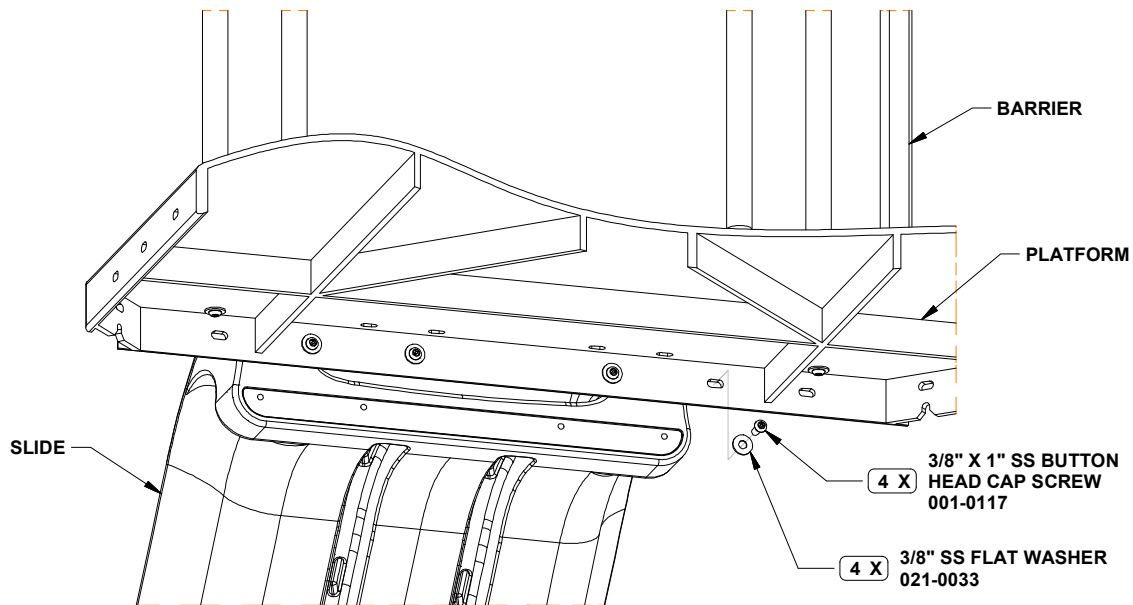
470-0757 VELO XL SLIDE, 88"-96"



BACK VIEW



**DETAIL D
(2 PLACES)**



DETAIL E

470-0757
VELO XL SLIDE, 88"-96"

PARTS LIST

PART NO.	DESCRIPTION	QTY
000-0203	CASTING, STRAIGHT BRACKET	2
000-0208	CASTING, SIDE FILLER, LONG	2
018-0548	SLIDE HOOD , NARROW SLIDES	1
018-2058	VELO SLIDE 88"-96", SINGLE BAY	1
030-0126	SUPPORT, SLIDE EXIT	1
030-0755	MOUNTING TUBE 6 13/16" - S5000	2
030-1589	SIDE BARRIER, RIGHT, SLIDE	1
030-1593	SIDE BARRIER, LEFT, SLIDE	1
030-2646	SUPPORT, VELO SLIDE 88"-96" MID	1
036-1206	HARDWARE PACKAGE	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, LONG: A56 Aluminum. Finished with baked on powder coating.

SLIDE HOOD, NARROW SLIDES; SLIDE VELO SLIDE 88"-96", SINGLE BEDWAY: 1/4" thick, linear, low density, rotationally modeled, U.V. stabilized polyethylene with double wall construction, molded in 3/8" T-nut inserts, and a textured surface.

SUPPORT, SLIDE EXIT: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and 8 GA galvanized sheet steel. Finished with a baked on powder coating.

MOUNTING TUBE 6 13/16" - S5000: One piece all welded construction consisting of a 1.315" OD x .083" wall galvanized tube and a 12L14 steel threaded insert. Finished with a baked on powder coating.

SIDE BARRIER, RIGHT, SLIDE; SIDE BARRIER, LEFT, SLIDE: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, 10 GA galvanized sheet steel, and HDPE threaded inserts. Finished with a baked on powder coating.

SUPPORT, VELO SLIDE 88"-96" MID: One piece all welded construction consisting of 10 GA galvanized steel plate and 2 3/8" OD x 12 GA galvanized steel tubing. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel button head cap screws, washers, lock nuts, barrel nuts, drive rivets. Zinc plated hex head cap screws.

SHIPPING WEIGHT: 169 LBS.

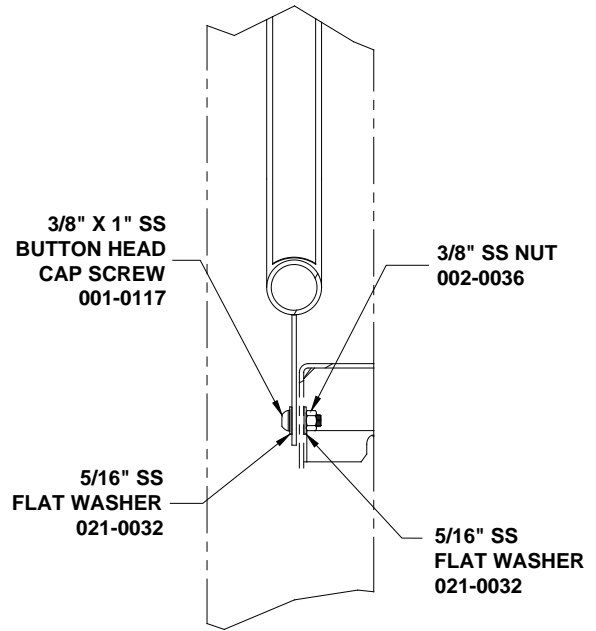
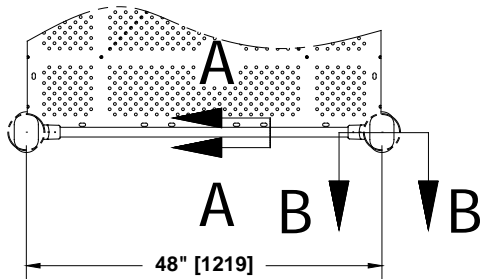
INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

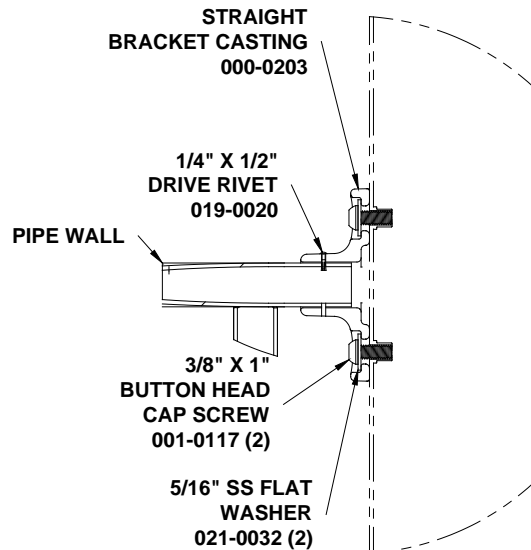
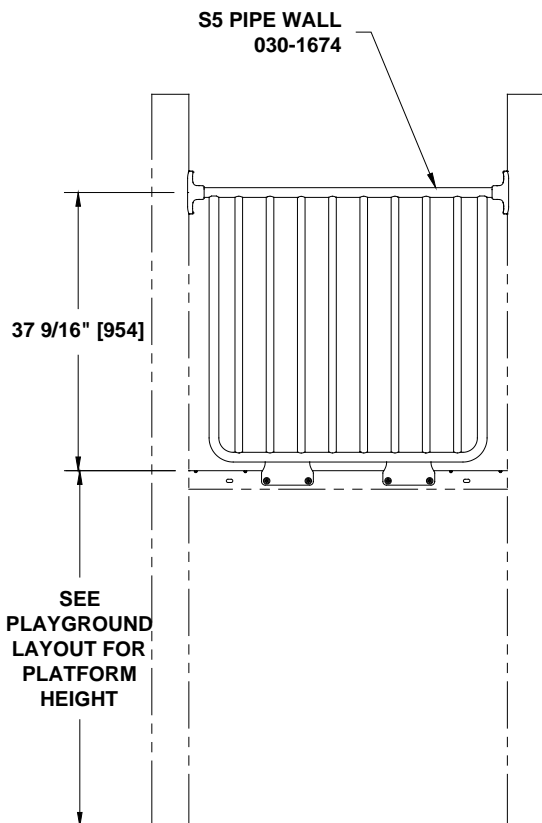
NOTE: Do not tighten hardware until instructed to do so.

1. After platform has been installed, locate and dig footing holes as per dimensions shown. See footing detail drawing, which is located in the preface of your installation manual.
2. Attach CASTING, SIDE FILLER, LONG to 5" OD posts using hardware specified in DETAIL A.
3. Attach SUPPORT VELO SLIDE 88"-96" MID. and SUPPORT, SLIDE EXIT to VELO SLIDE 88"-96", SINGLE BEDWAY using hardware specified in DETAIL B and DETAIL C. Tighten fasteners.
4. Position slide into footing holes. Attach slide to platform using hardware specified in DETAIL D. Make sure that the slide is flush and tight to platform.
5. Insert MOUNTING TUBE 6 13/16" - S5000 into SLIDE HOOD, NARROW SLIDES and attach using hardware specified in DETAIL A.
6. Attach SIDE BARRIER, RIGHT, SLIDE and SIDE BARRIER, LEFT, SLIDE to SLIDE HOOD, NARROW SLIDES using hardware specified in DETAIL D.
7. Slide CASTING, STRAIGHT BRACKET onto MOUNTING TUBE 6 13/16" - S5000 and attach to 5" OD posts using hardware specified in DETAIL A.
8. Attach side barriers to platform using hardware specified in DETAIL D.
9. Tighten all hardware.
10. Block-up, level and plumb.
11. Pour concrete. Let set for 2-3 days.
- 12. Install resilient material in accordance to installation guidelines, ASTM standards, and CPSC guidelines.**

470-0757 VELO XL SLIDE, 88"-96"
REV: 00 PCN: 17-0350 7/9/2018



SECTION A-A
(4 PLACES)



SECTION B-B
(2 PLACES)

570-0394 PIPE WALL

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
030-1674	S5 PIPE WALL	1
036-1284	HARDWARE PACKAGE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

S5 PIPE WALL: One piece all welded construction consisting of 1.315" OD x 14 GA, 1.315" OD x 12 GA, and 1.029" OD x 14 GA galvanized steel tubing. Finished with a baked on powder coating.

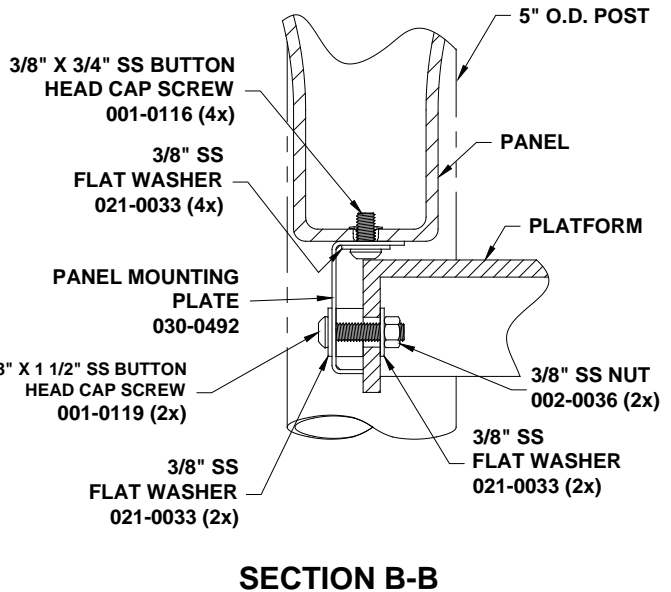
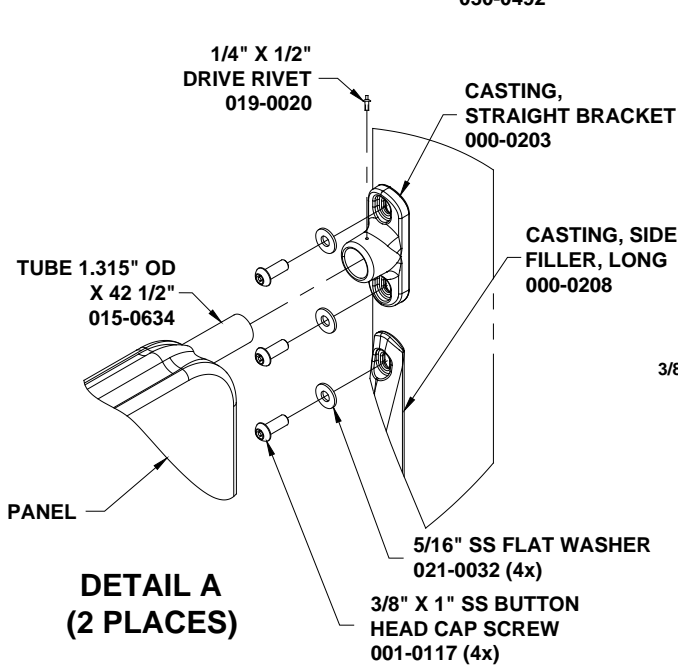
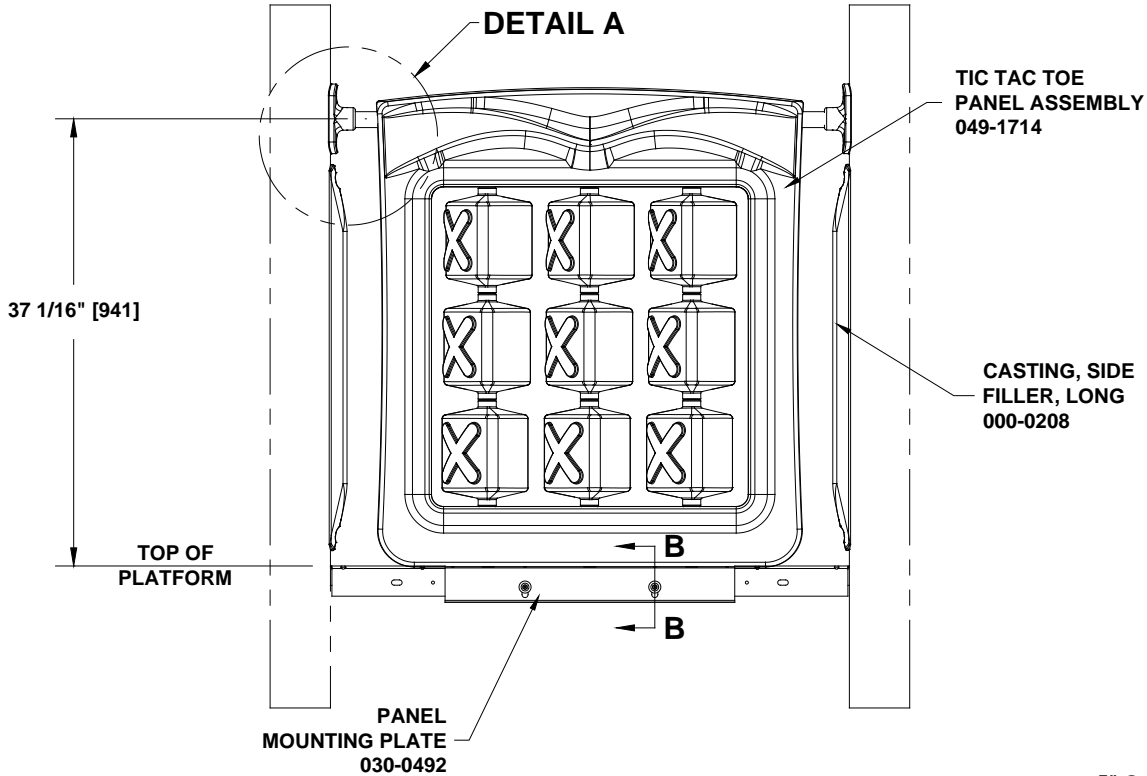
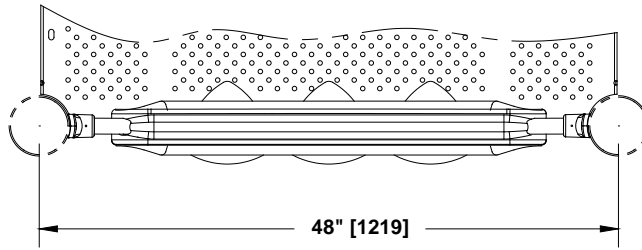
HARDWARE PACKAGE: Stainless steel screws, nuts & washers and aluminum rivets with 302 stainless steel pin.

SHIPPING WEIGHT: 37 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

1. Slide BRACKETS onto tube on PIPE WALL.
2. Attach brackets with pipe wall to 5" OD post using 3/8" x 1" SS button head cap screws and 5/16" SS washers. See SECTION B-B.
3. Attach bottom of pipe wall to platform using 3/8" x 1" SS button head cap screws, 5/16" SS washers and 3/8" SS nuts. Tighten all hardware. See SECTION A-A.
4. Drill 1/4" diameter holes through pilot hole, into pipe wall and through mounting bracket. See SECTION B-B.
5. Drive rivets flush with brackets and pipe wall.
6. Tighten All Hardware.



570-0788

TIC TAC TOE PANEL ASSEMBLY

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0203	CASTING, STRAIGHT BRACKET	2
000-0208	CASTING, SIDE FILLER, LONG	2
015-0634	TUBE 1.315" OD X 42 1/2"	1
030-0492	PANEL MOUNTING PLATE	1
036-1168	HARDWARE PACKAGE	1
049-1714	TIC TAC TOE PANEL ASSEMBLY	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

CASTING, STRAIGHT BRACKET: A356-T6 Aluminum, Heat-Treated. Finished with baked on powder coating.

CASTING, SIDE FILLER, LONG: A56 Aluminum. Finished with baked on powder coating.

TUBE 1.315" OD X 42 1/2": 1.315" O.D. GALV TUBING

PANEL MOUNTING PLATE: One piece all welded construction consisting of 10 GA and 14 GA galvanized steel plates. Finished with a baked on powder coating.

HARDWARE PACKAGE: Aluminum rivets and stainless steel screws, nuts, and washers.

TIC TAC TOE PANEL ASSEMBLY: Assembly consisting of 1.029" OD x 14 GA galvanized steel tubing; 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene panel with double wall construction, molded in 3/8" T-nut inserts, and a textured outside surface; 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene cubes with a textured outside surface; and nylon washers.

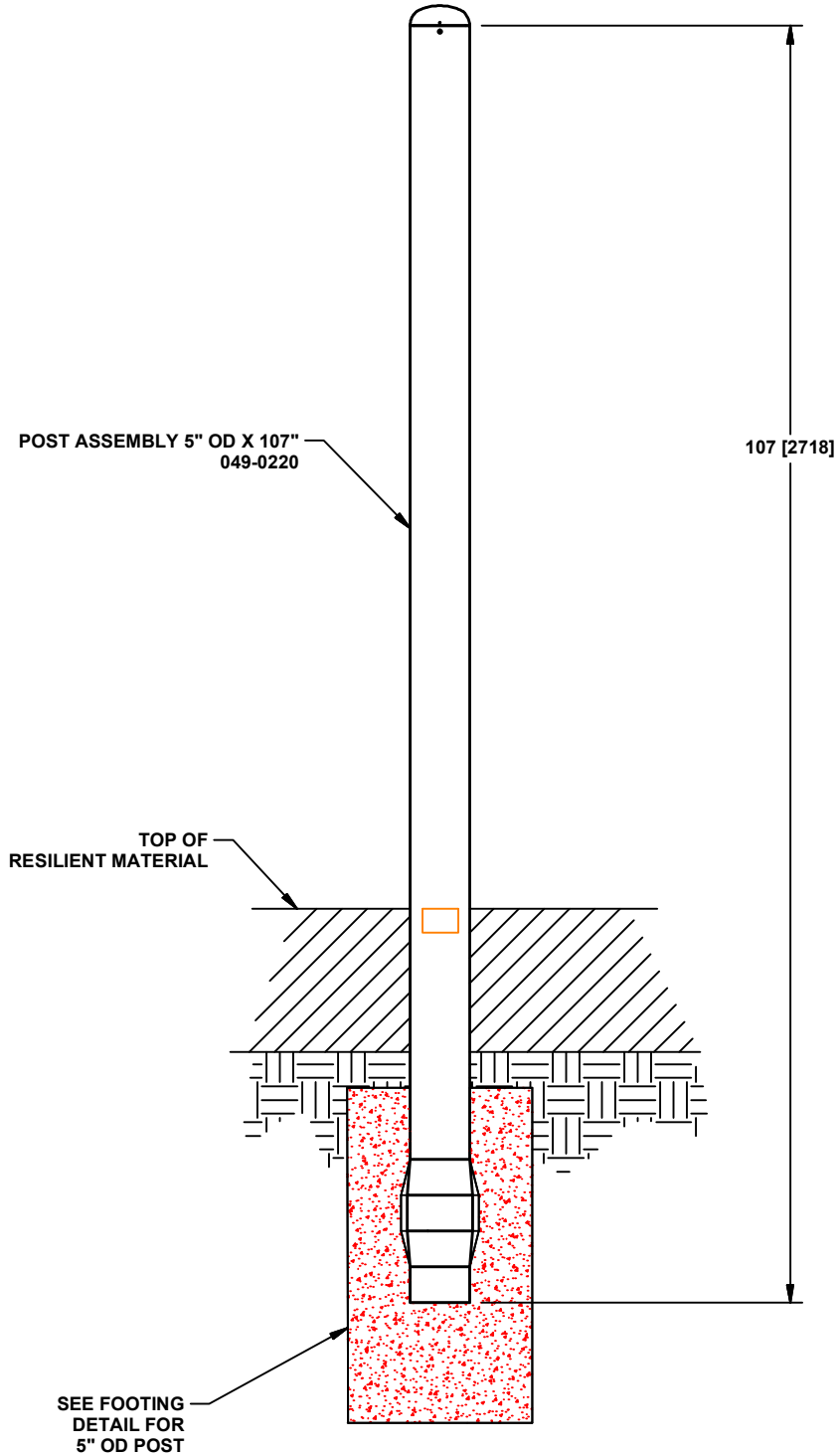
SHIPPING WEIGHT: 56 LBS.

INSTALLATION INSTRUCTIONS

NOTE: PVC coating may need to be removed from mounting holes of parts before installation.

NOTE: Do not tighten hardware until instructed to do so.

1. Attach PANEL MOUNTING PLATE to TIC TAC TOE PANEL using 3/8" x 3/4" SS button head cap screws and 3/8" SS flat washers. See SECTION B-B.
2. Sleeve TUBE 1.315" OD X 42 1/2" into panel. See DETAIL A.
3. Position panel assembly on 5" OD posts and fasten upper hole of CASTING BRACKETS to 5" OD posts using 3/8" x 1" SS button head cap screws and 5/16" SS flat washers. Tighten hardware. See DETAIL A.
4. Rotate panel assembly up 90 degrees and fasten lower hole in casting brackets to 5" OD posts with 3/8" x 1" SS button head cap screw and 5/16" SS flat washers. See DETAIL A.
5. Tighten hardware.
6. Rotate panel down to the platform and fasten mounting plate to platform using 3/8" x 1 1/2" SS button head cap screws, 3/8" SS flat washers and 3/8" SS nuts. Tighten hardware. See SECTION B-B.
7. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0002 POST ASSEMBLY 5" OD X 107"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
049-0220	POST ASSEMBLY 5" OD X 107"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

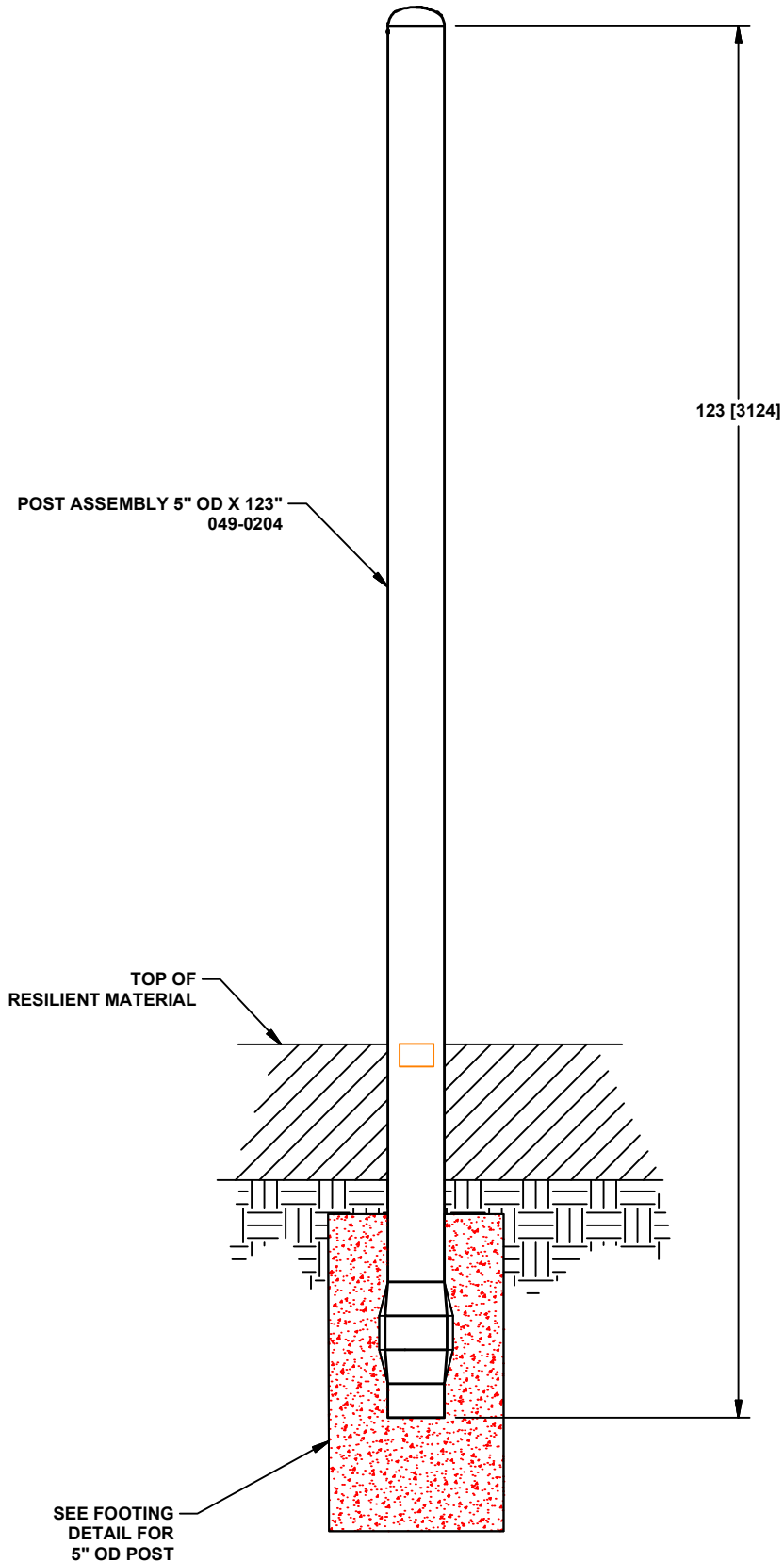
SPECIFICATIONS

POST ASSEMBLY 5" OD X 107": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 57 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0165 POST ASSEMBLY 5" OD X 123"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0204	POST ASSEMBLY 5" OD X 123"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

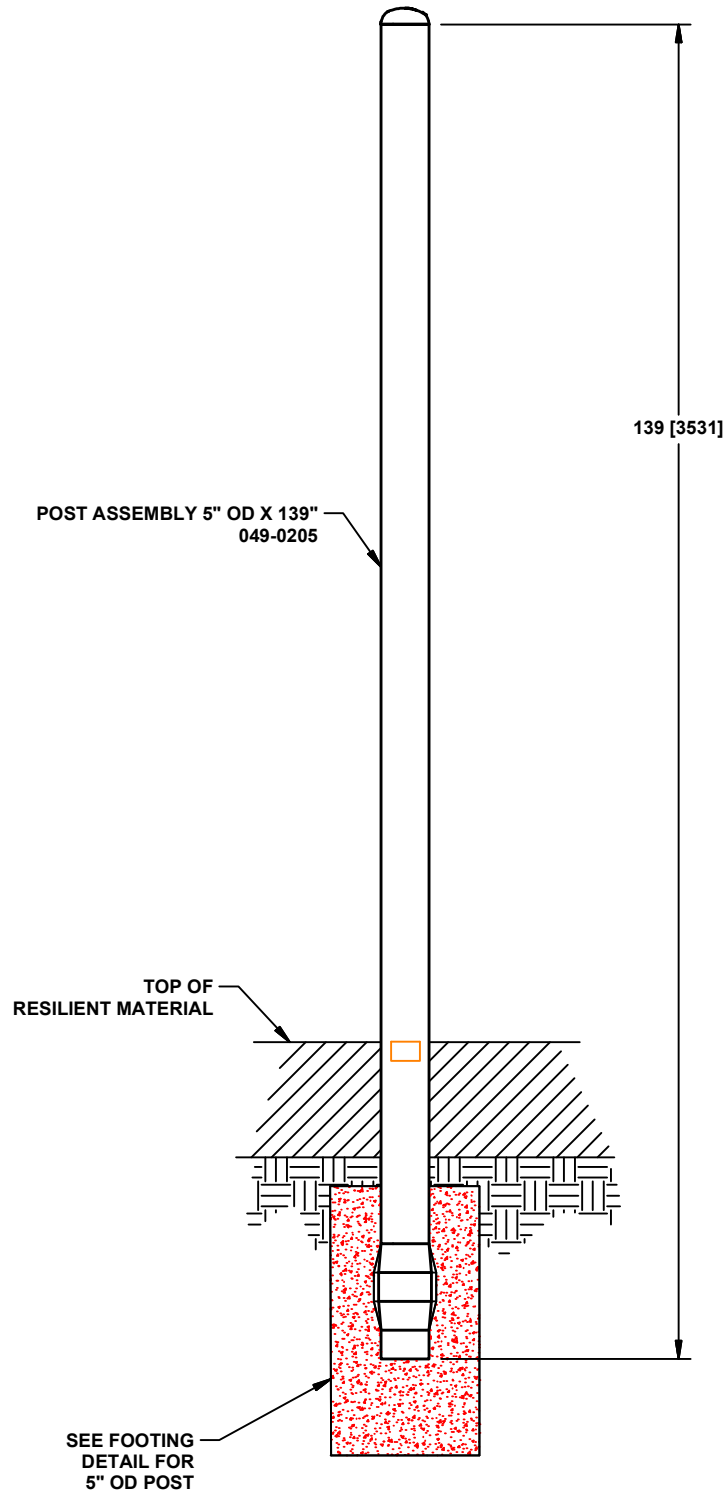
SPECIFICATIONS

POST ASSEMBLY 5" OD X 123": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 66 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0166 POST ASSEMBLY 5" OD X 139"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0205	POST ASSEMBLY 5" OD X 139"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

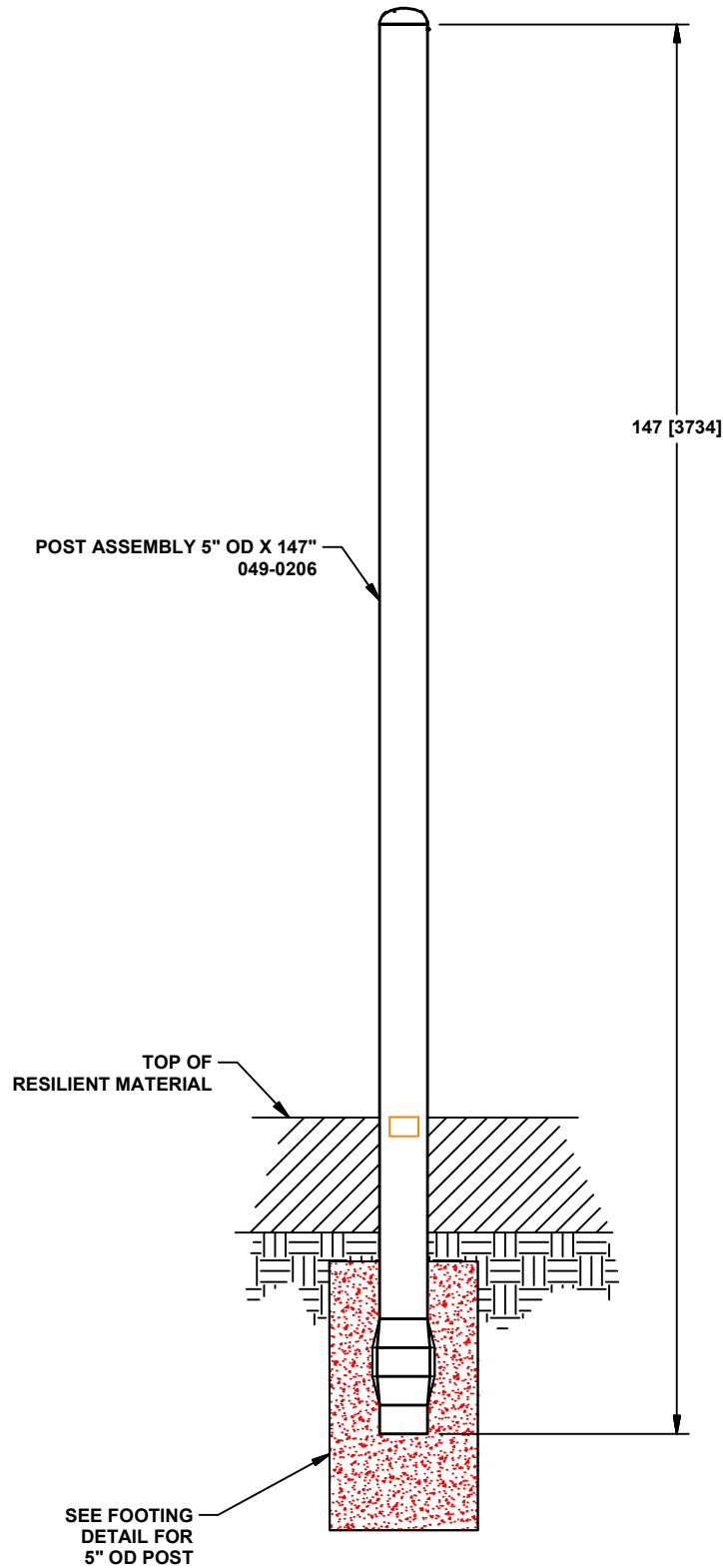
SPECIFICATIONS

POST ASSEMBLY 5" OD X 139": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 74 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0167 POST ASSEMBLY 5" OD X 147"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0206	POST ASSEMBLY 5" OD X 147"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

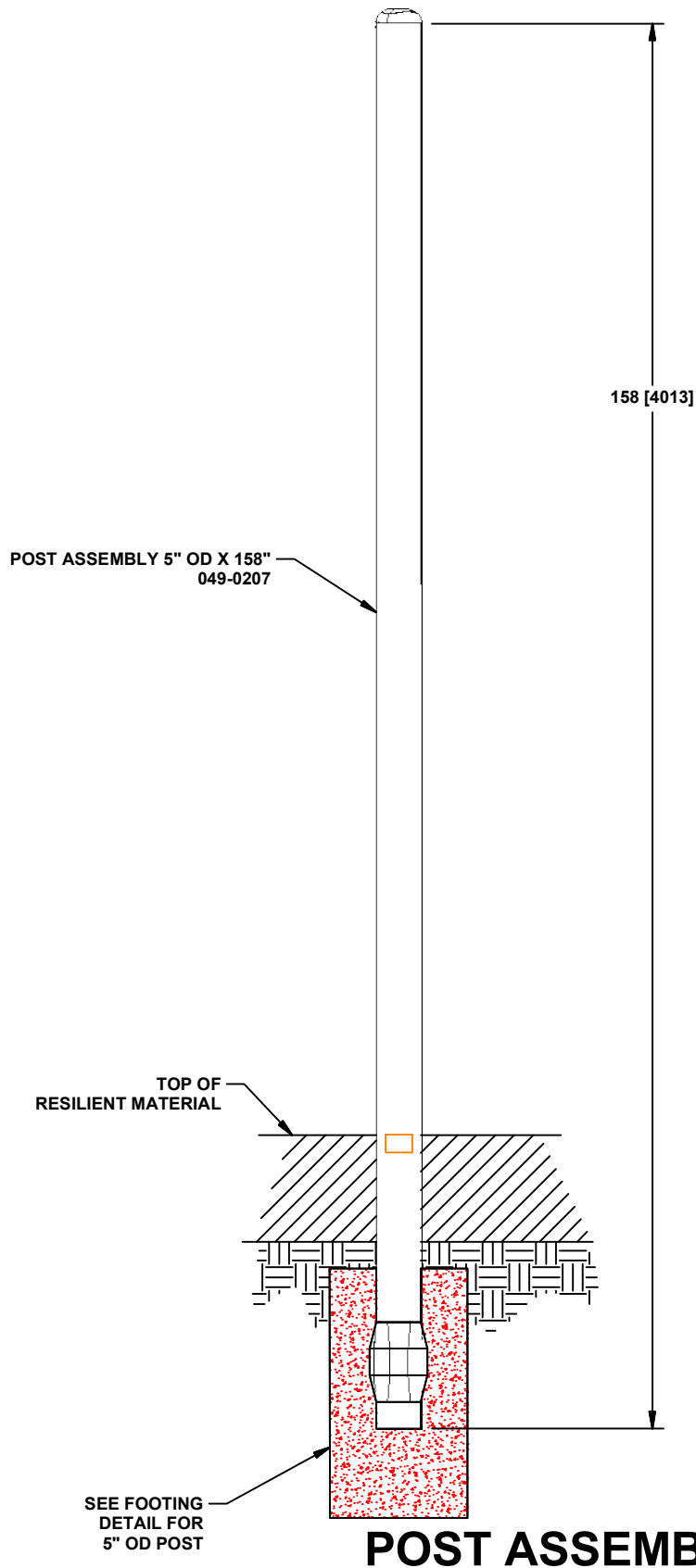
SPECIFICATIONS

POST ASSEMBLY 5" OD X 147": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 78 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0168

POST ASSEMBLY 5" OD X 158"

PARTS LIST

PART NO. DESCRIPTION QTY

PART NO.	DESCRIPTION	QTY
049-0207	POST ASSEMBLY 5" OD X 158"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

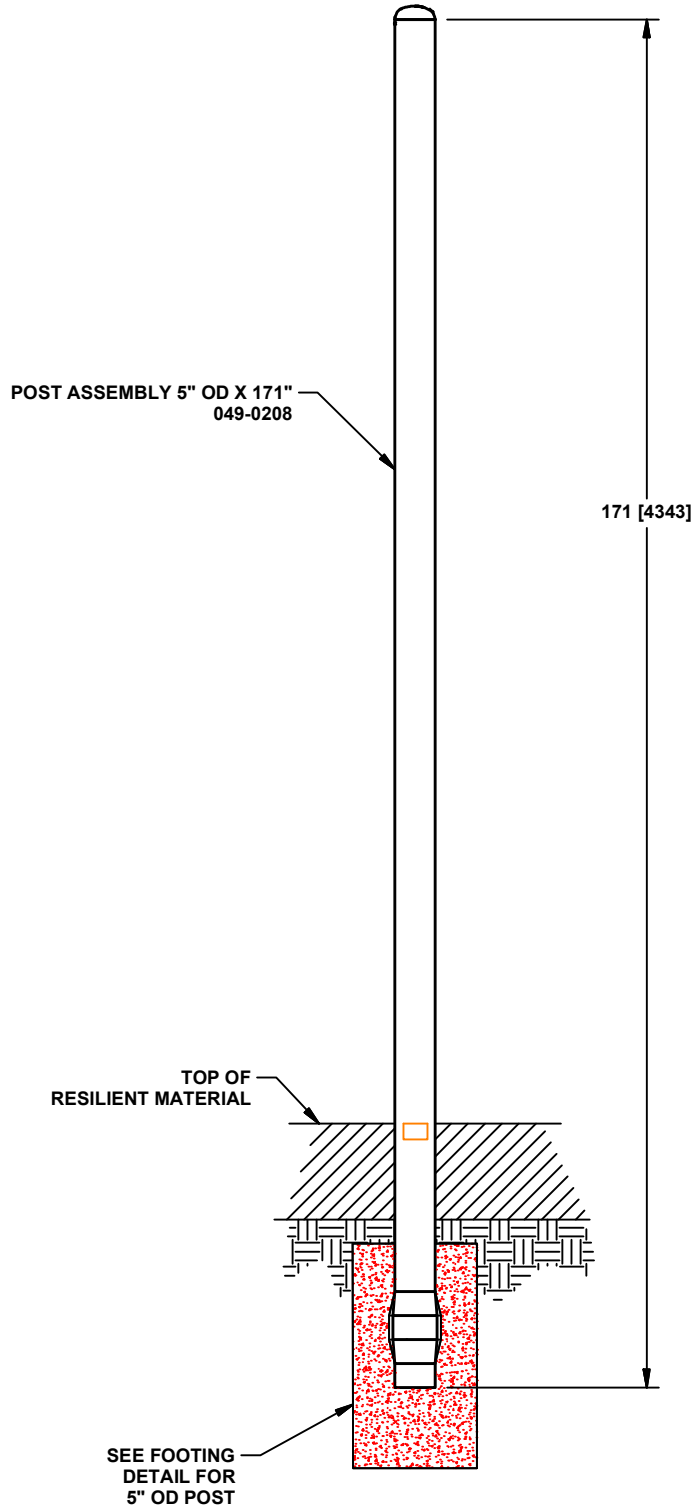
SPECIFICATIONS

POST ASSEMBLY 5" OD X 158": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 84 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0169 POST ASSEMBLY 5" OD X 171"

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
049-0208	POST ASSEMBLY 5" OD X 171"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

POST ASSEMBLY 5" OD X 171": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 91 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

BCI Burke Company, LLC
660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566
www.bciburke.com

SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) A Handbook for Public Playground Safety** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-Children's Playspaces and Equipment A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

BCI Burke Company, LLC
660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566
www.bciburke.com

PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

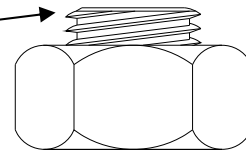


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. **NOTE:** *In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets. See typical mount bracket assembly drawings located in the installation instructions section.*

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

GENERAL INSTALLATION GUIDELINES

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

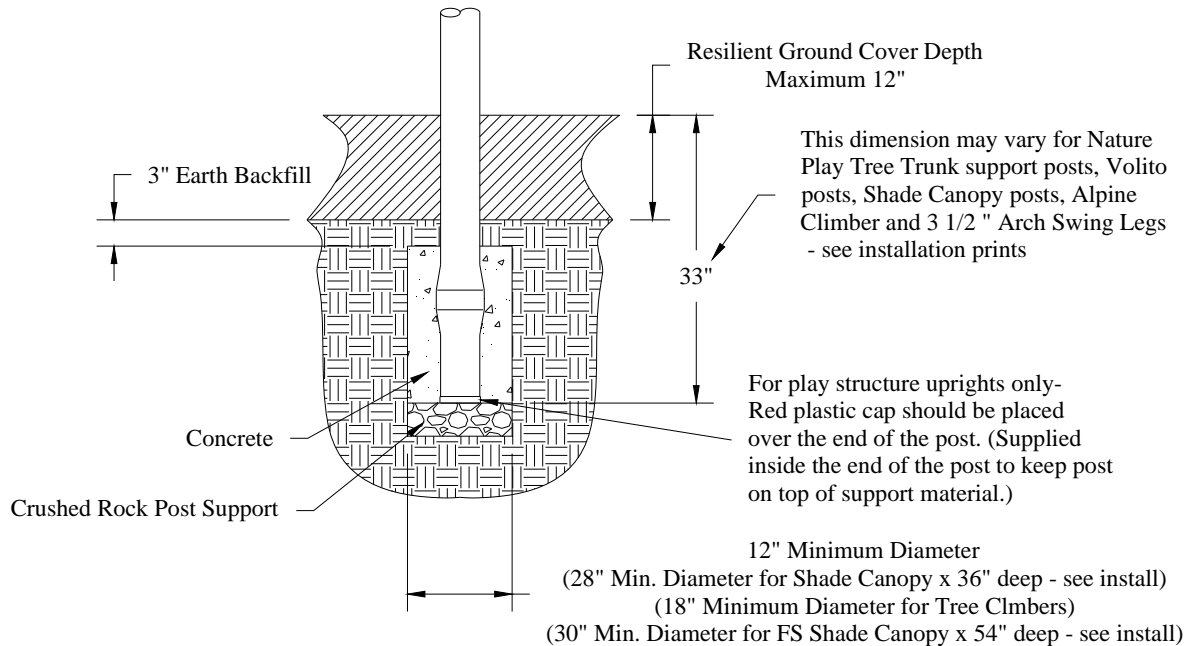


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

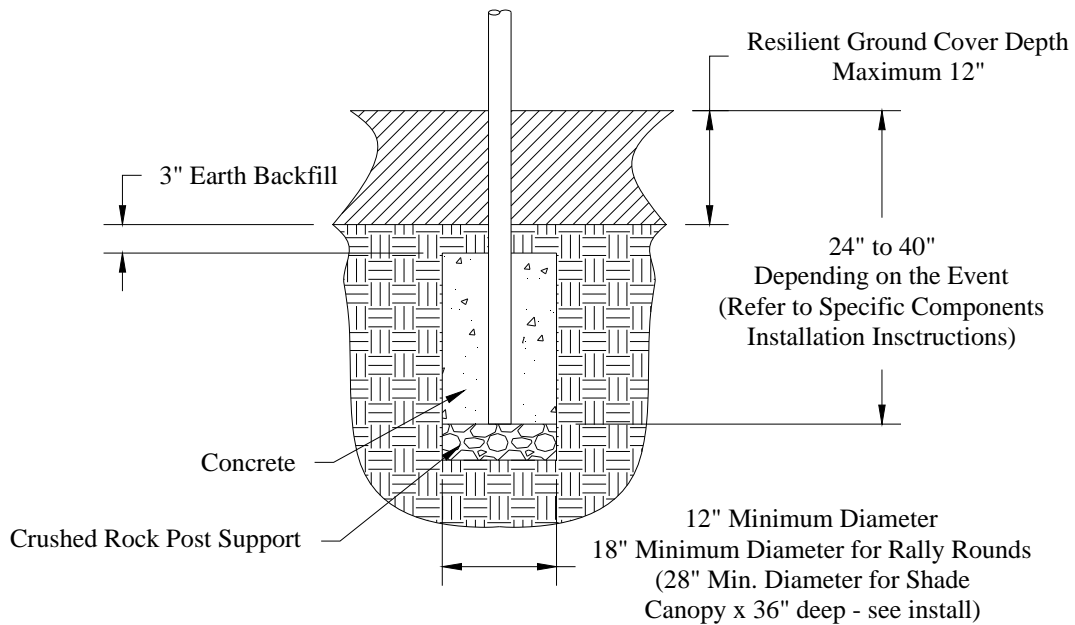


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

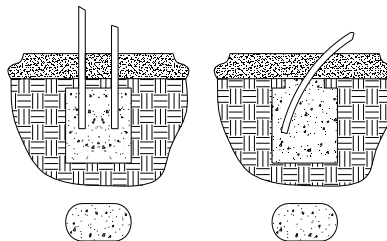


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

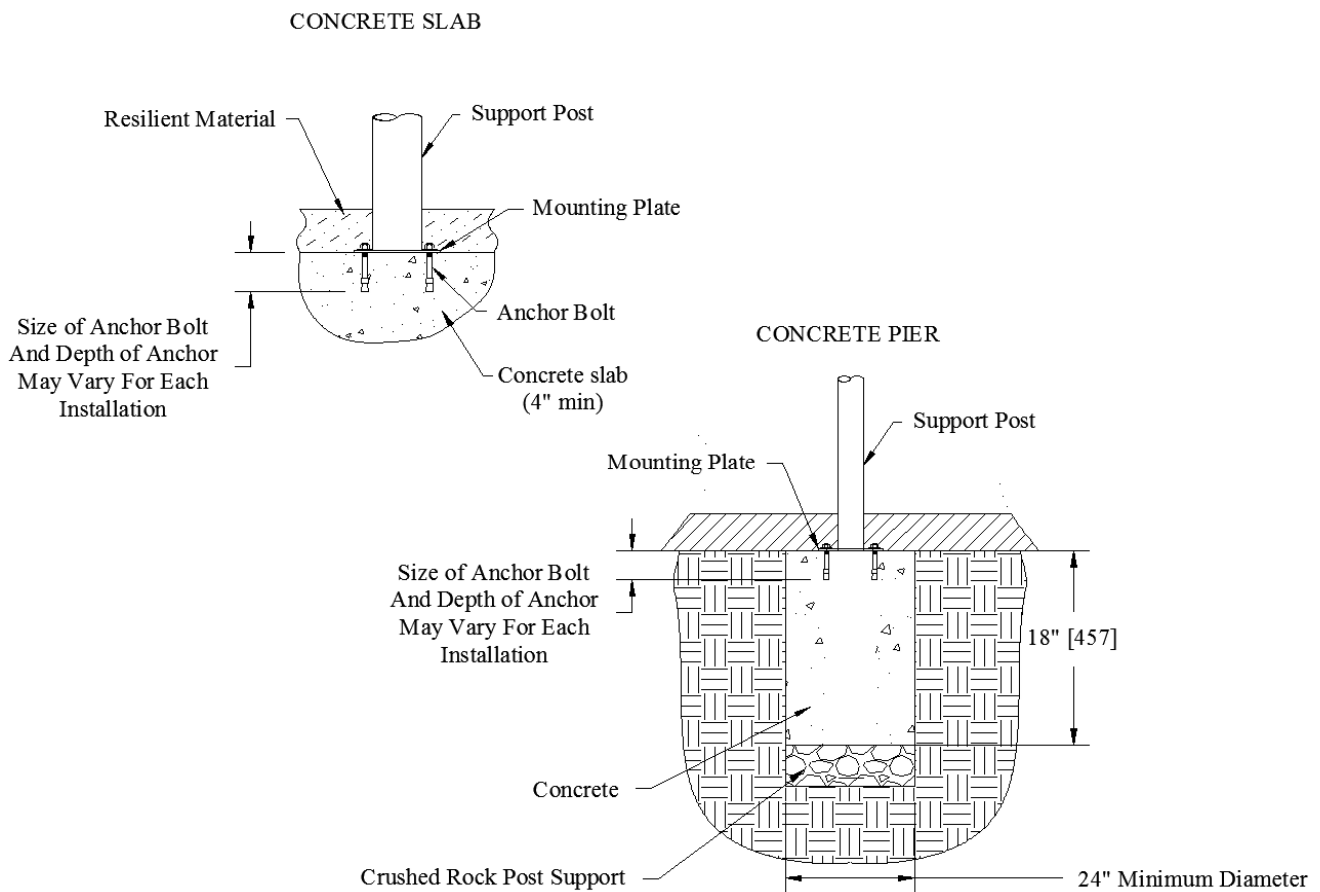


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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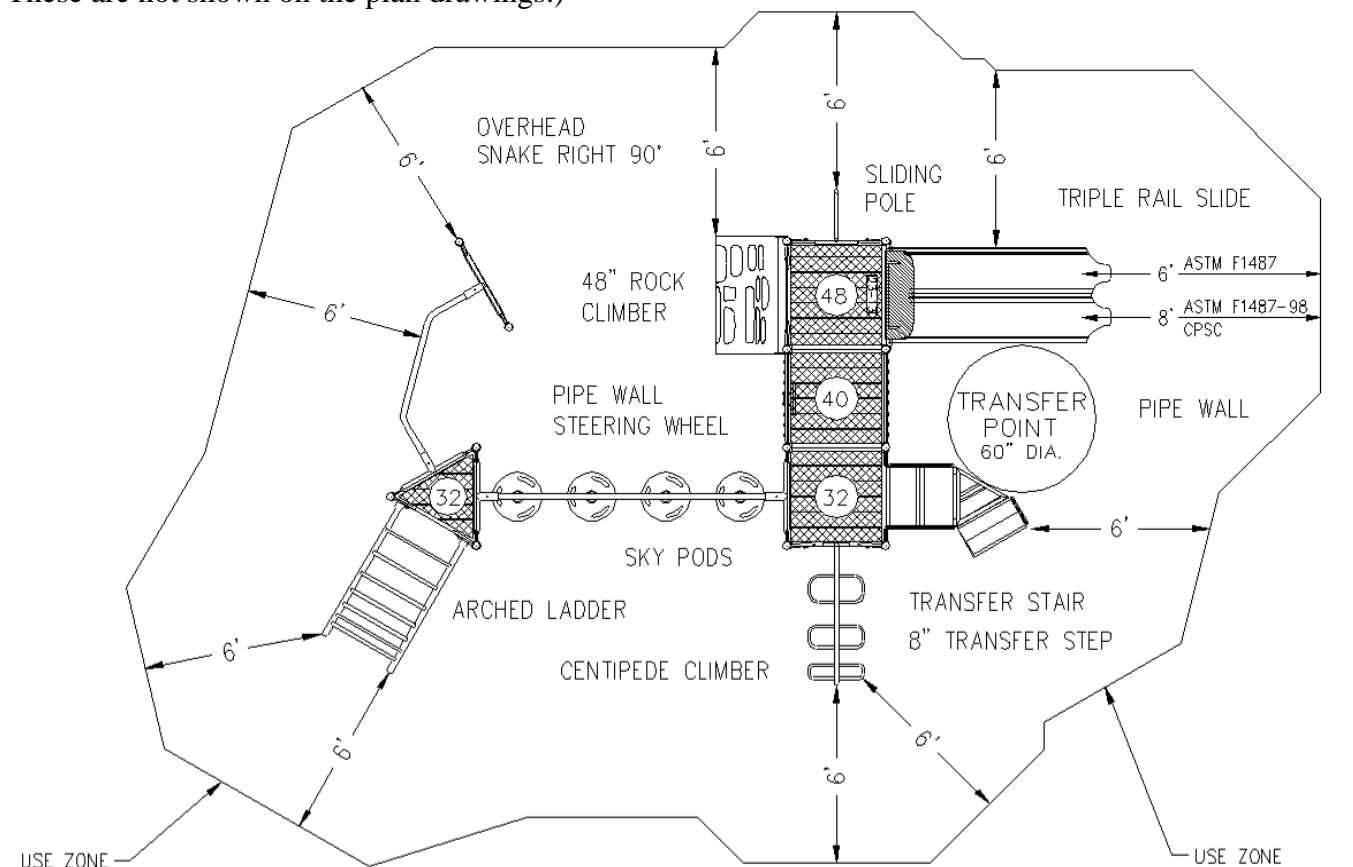
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

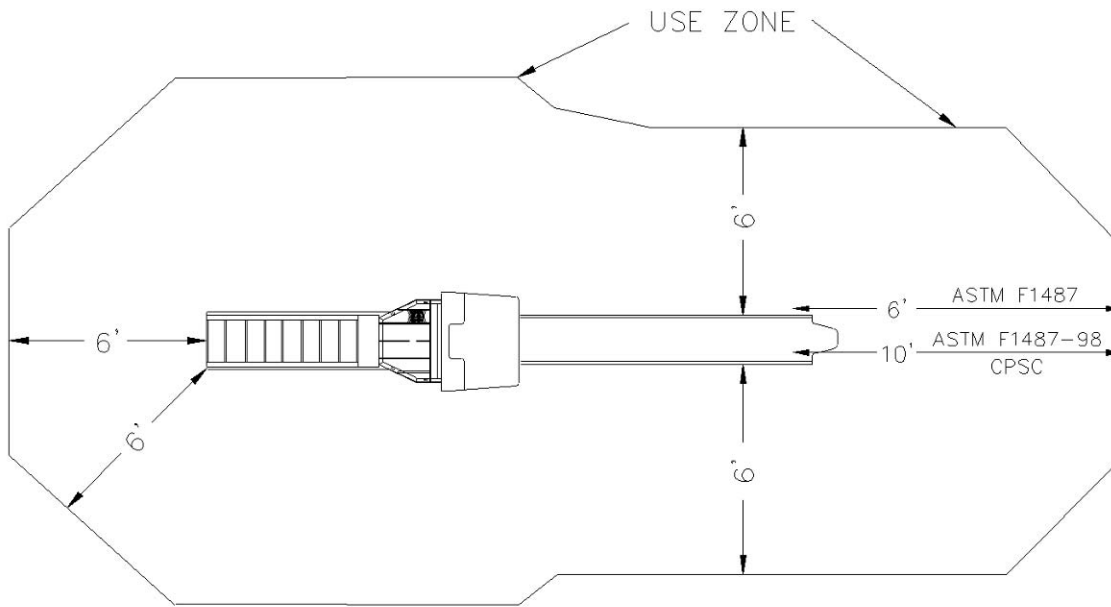


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of Y + 72 in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

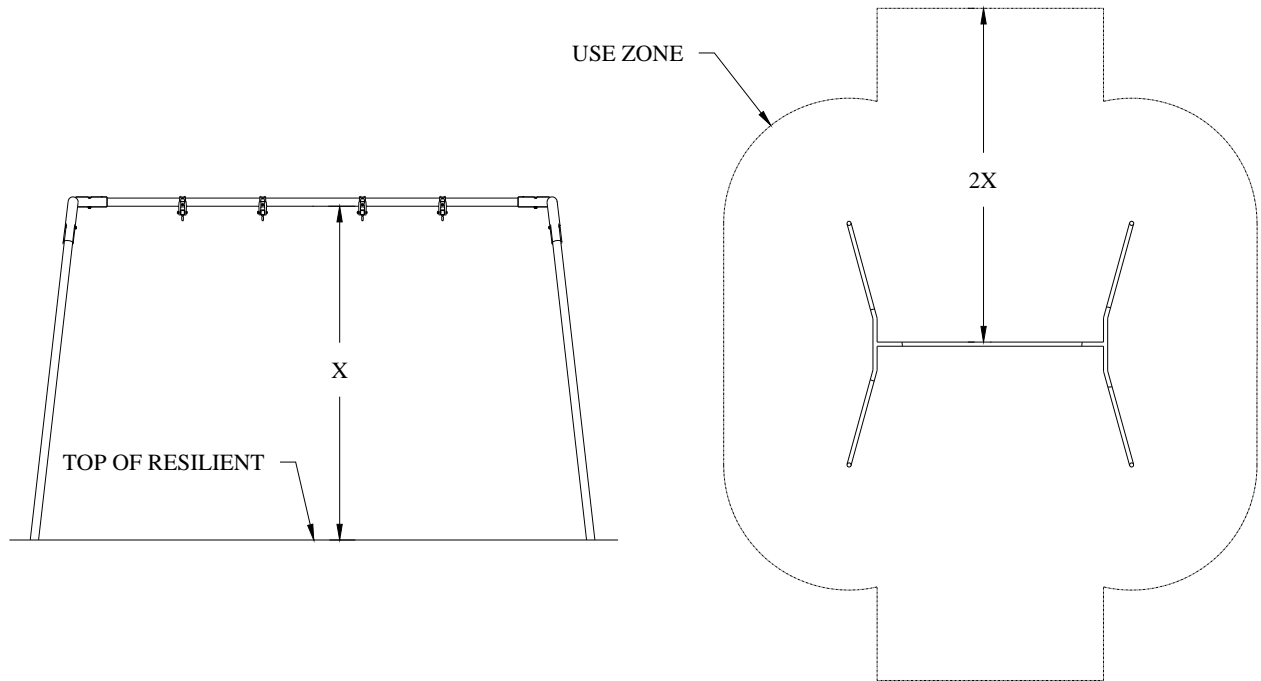


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

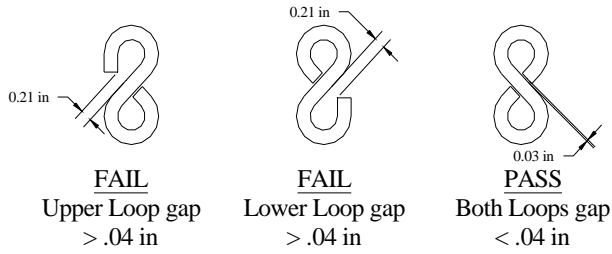


Figure 9: Check loops for .04" gap

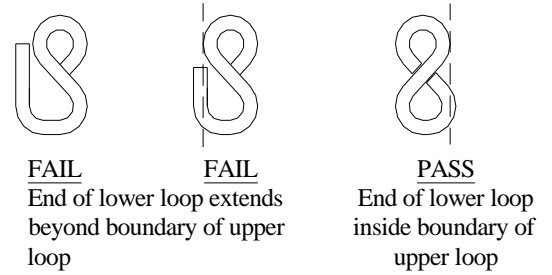


Figure 10: Check lower loop projection



Figure 11: Check upper loop projection

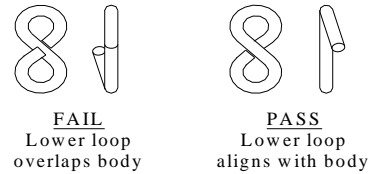


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

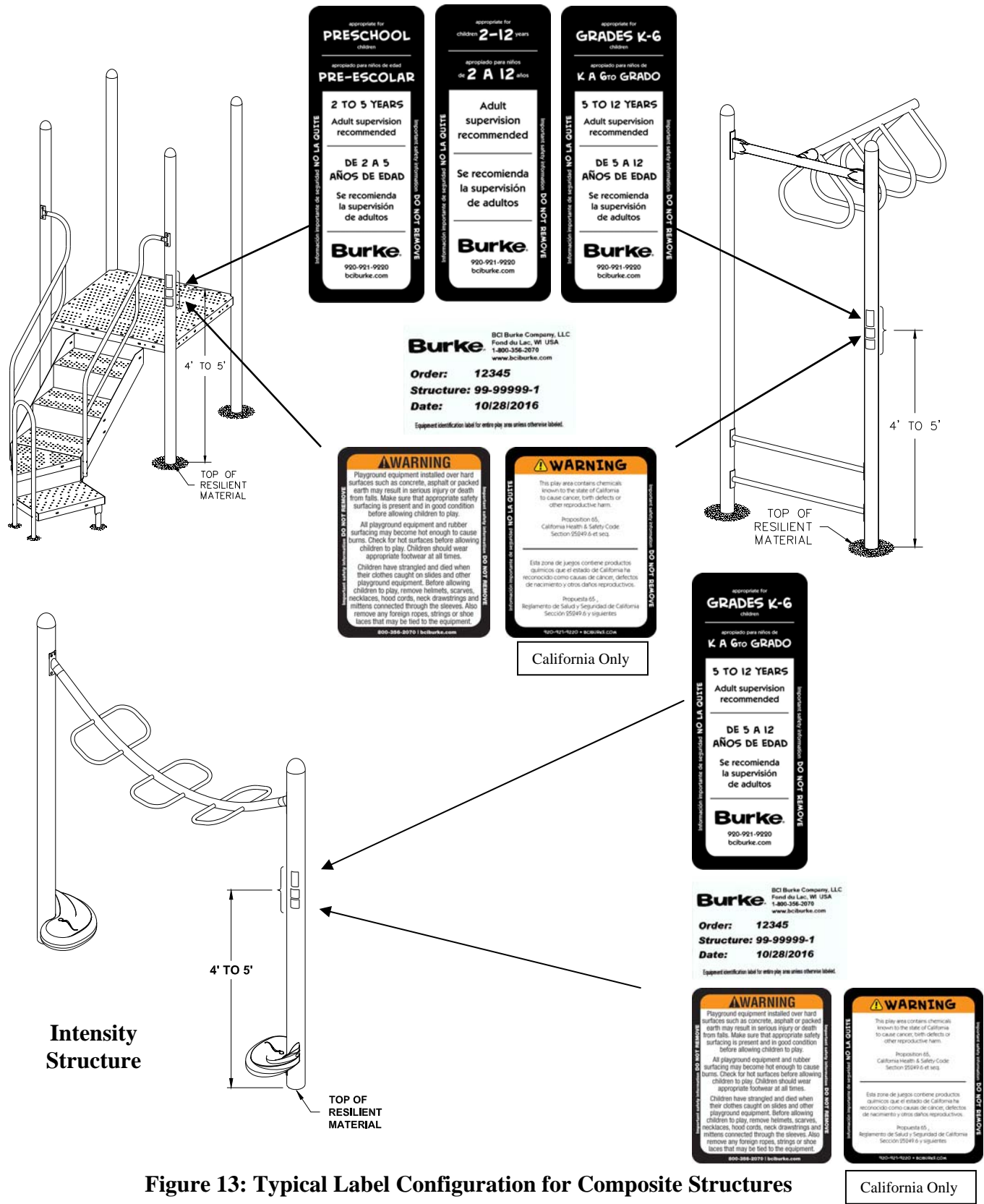


Figure 13: Typical Label Configuration for Composite Structures

California Only

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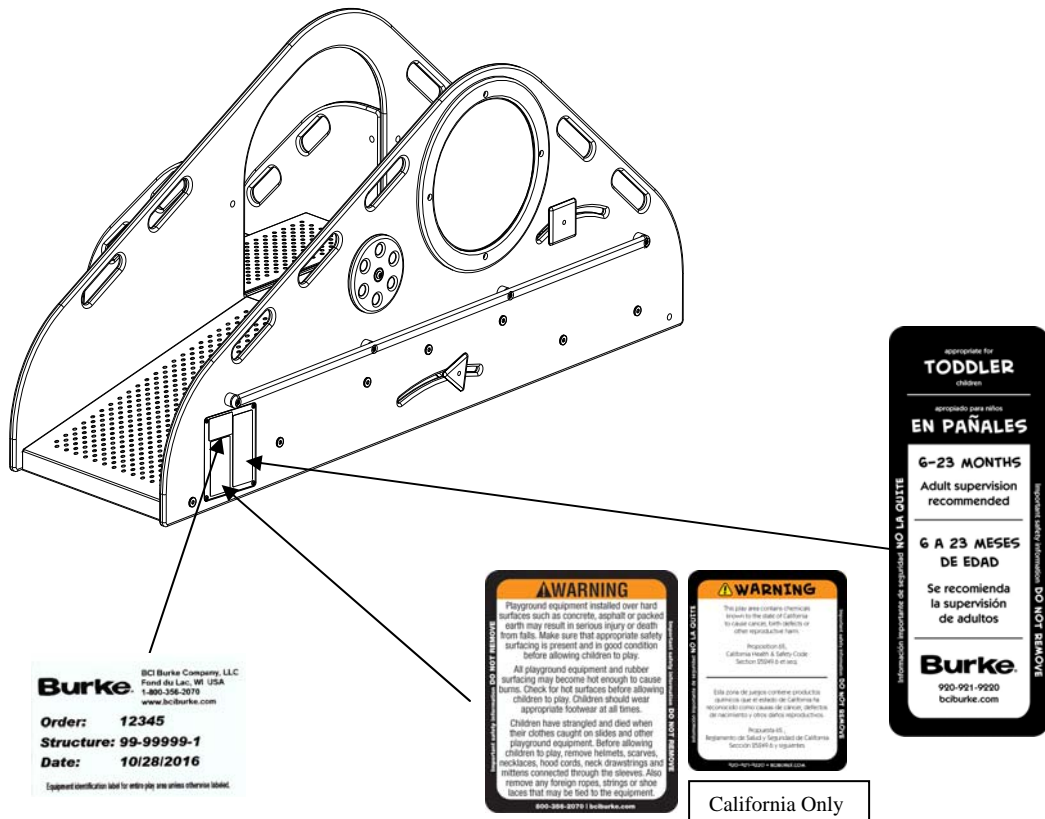


Figure 14: Typical Label Configuration for Composite Structures

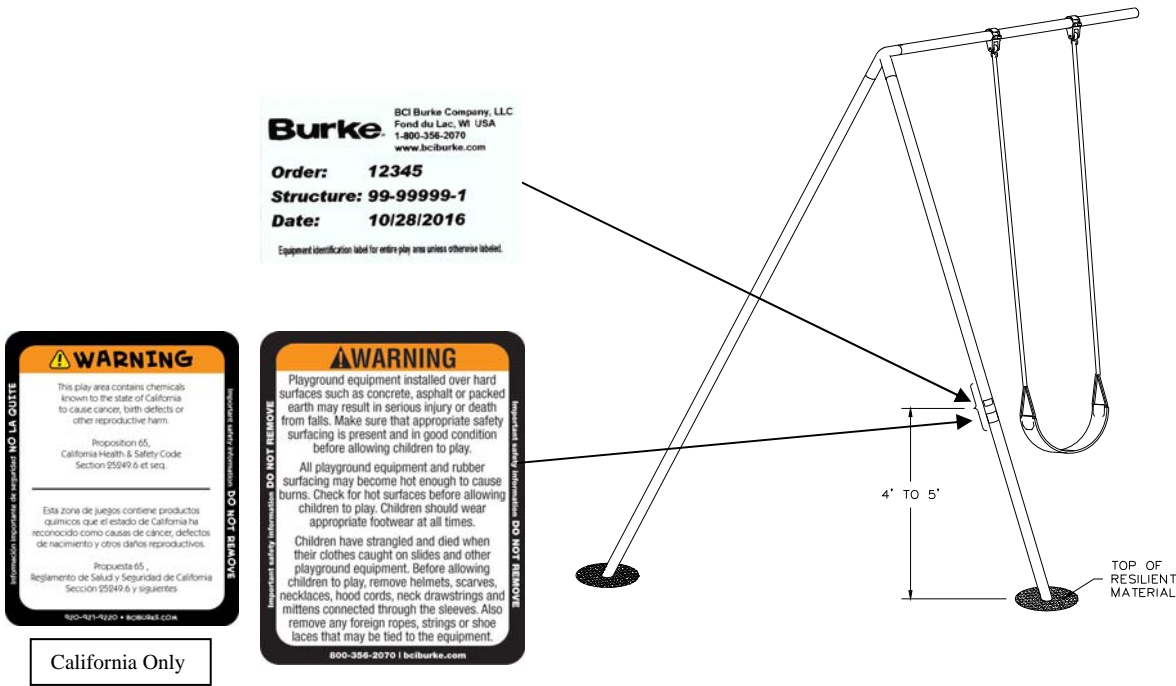


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.
- Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.
 - Clean dried concrete off support posts and any other affected components
 - Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.
 - Insure all post ends have properly installed post caps. Insure the drive rivets are secure.
 - Insure all fasteners are tightened according to specifications listed on your installation instructions.
 - Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.
- Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.
 - Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.
 - Touch up any exposed metal on coated parts following the instructions in the Maintenance section.
 - Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.
 - Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.
 - Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.
 - Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.

Inspected by: _____

Inspection Date: _____

BCI Burke Company, LLC
For questions, call us at:
1-800-356-2070

MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris. **DO NOT** use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

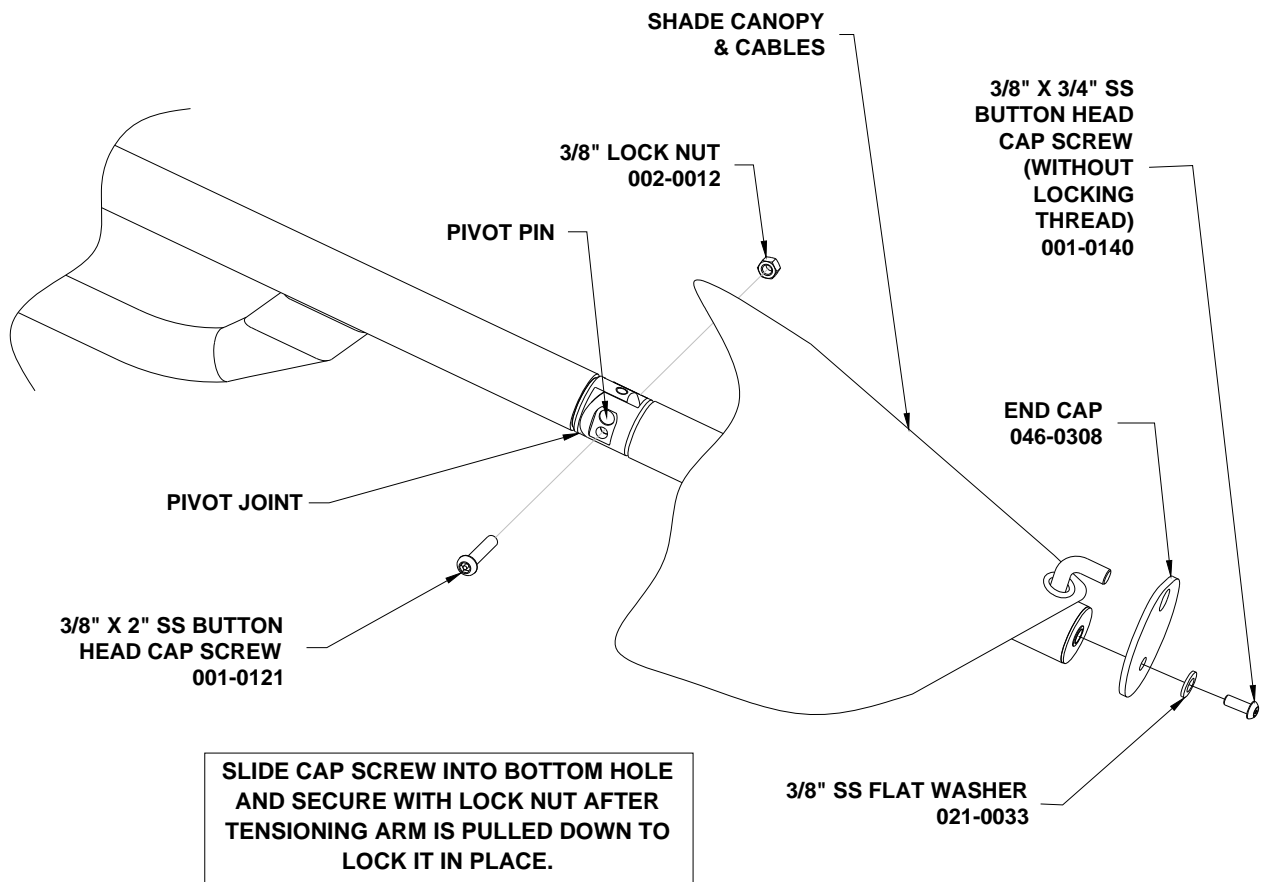


Figure 16: Tensioning Arm in 'Closed Position'

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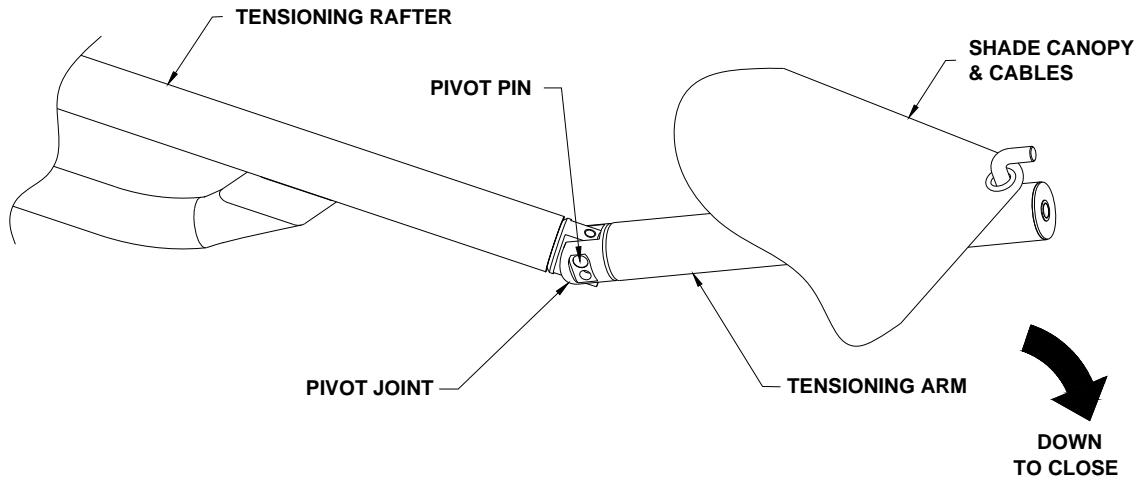


Figure 17: Tensioning Arm in 'Open Position'

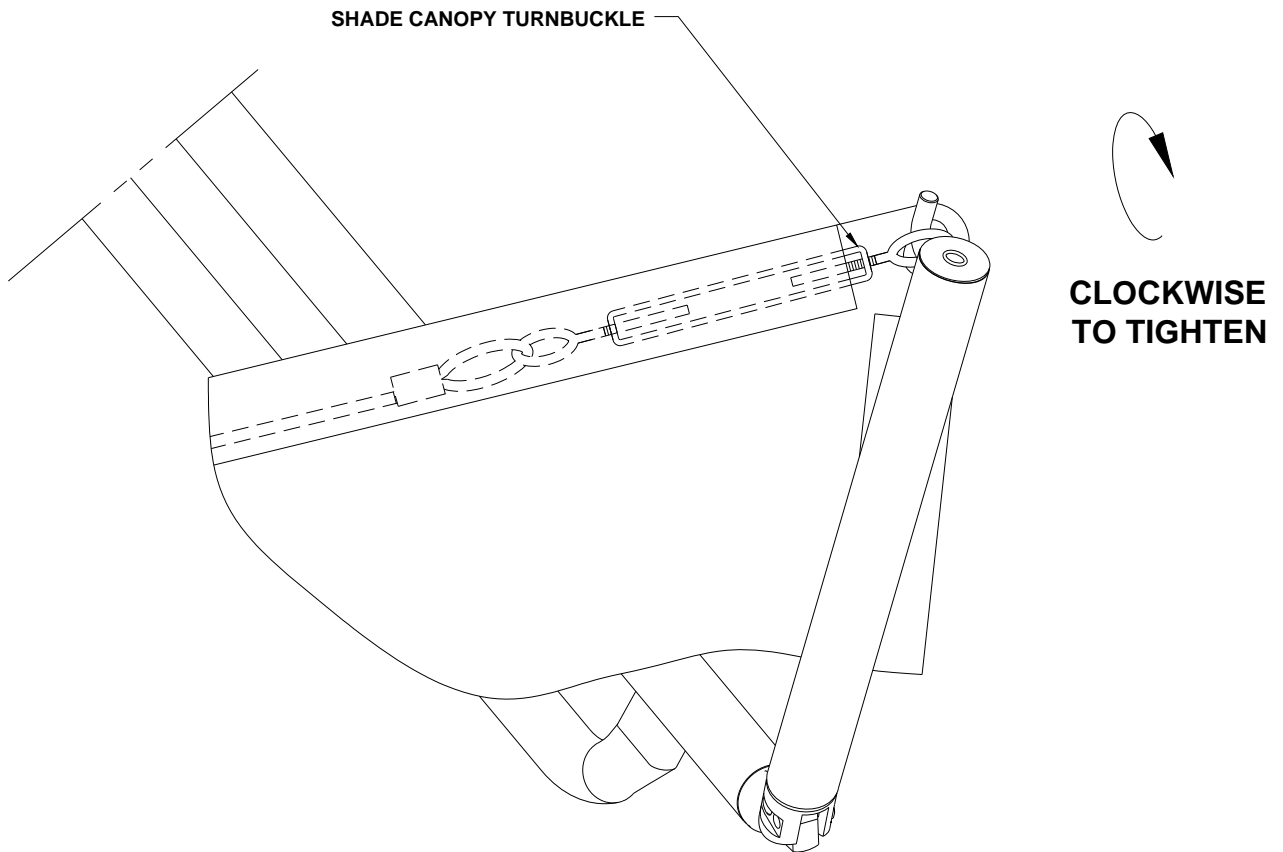


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope **AFTER** flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																			
Visible cracks, bending, warping																			
Accessible sharp edges or points																			
Rusted metal surfaces																			
Rusting of metal and corrosion on aluminum																			
Deformation of open hooks, rings, links, etc.																			
Worn swing hangers and chain																			
Missing or damaged swing seats																			
Heavy swing seats with sharp corners or edges																			
Broken supports/anchors																			
Jagged, exposed or cracked and loose concrete footing																			
Inadequate surfacing material under equipment																			
Exposed ends of pipe. Missing caps or plugs																			
Protruding bolt ends																			
Chipped or peeling paint																			
Cuts or fraying in rope with exposed steel reinforcement strands																			
Vandalism, broken glass, trash, etc.																			
Broken or missing rails, steps, rungs, seats																			
Loose or missing hardware																			
Pinch or crush points																			
Moving components, etc.																			
Lack of lubrication on moving parts																			
Worn bearings																			
Poor drainage areas at footings, slide exits, etc																			
Vandalized or cracked PVC coating																			

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

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For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnec[®]t clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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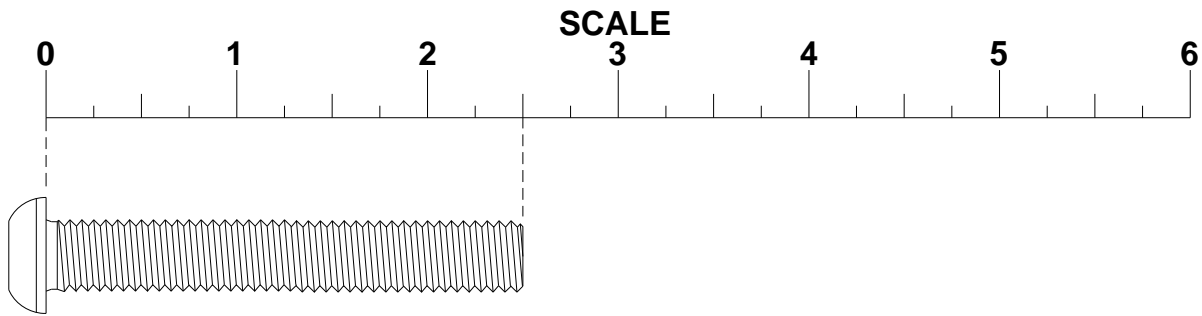
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APPENDIX

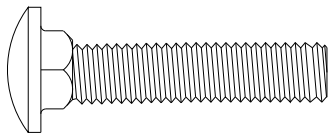
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BCI BURKE HARDWARE

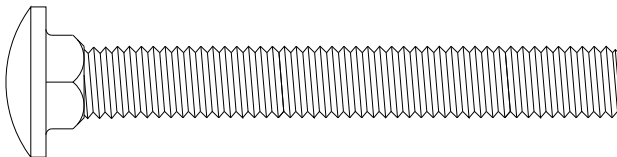


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

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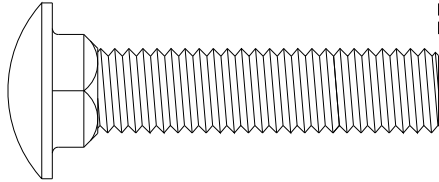
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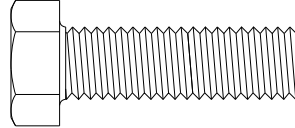
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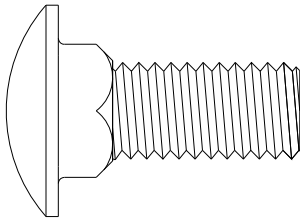
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



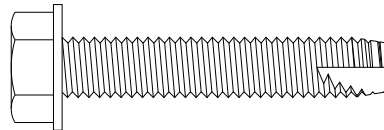
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4" SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4" SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

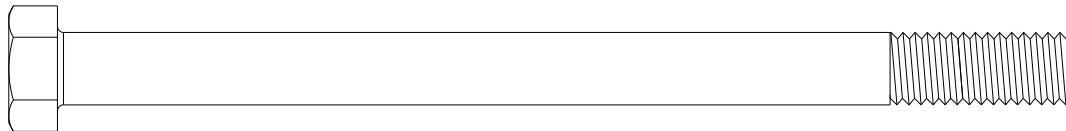


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

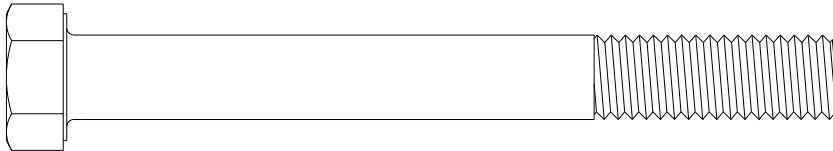
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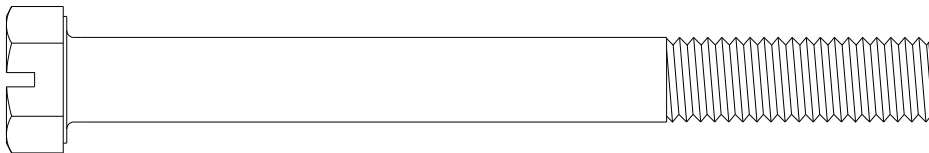
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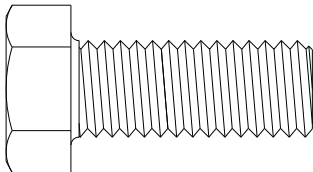
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

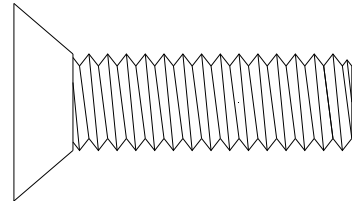


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

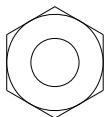
001-0186 - 3/8" X 1 1/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



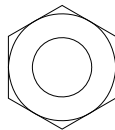
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



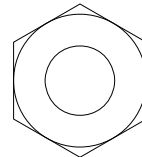
001-0139 - 1/2" X 1 3/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



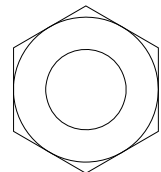
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

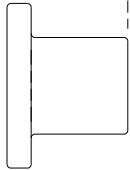
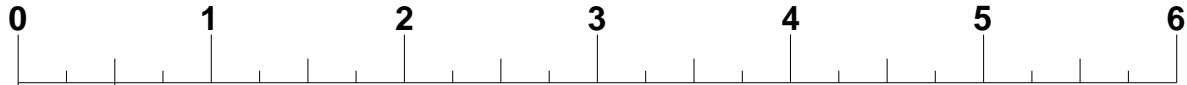
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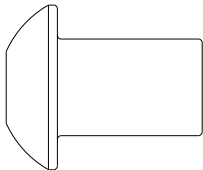
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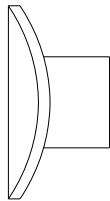
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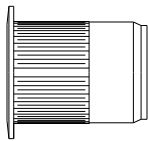
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



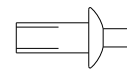
002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



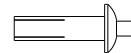
002-0042 - 3/8" NUT INSERT



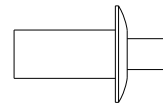
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



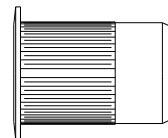
019-0010 - 5/32" X 3/8" DRIVE RIVET



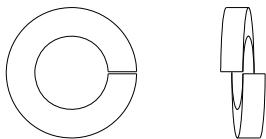
019-0016 - 1/8" X 15/32" DRIVE RIVET



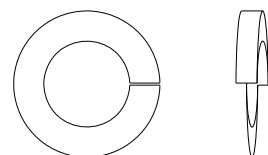
019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0022 - 3/8" LOCK WASHER



021-0027 - 7/16" LOCK WASHER

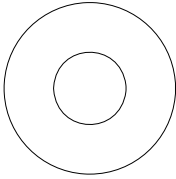
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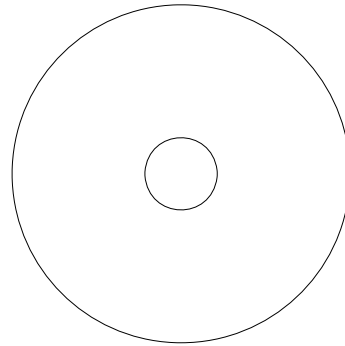
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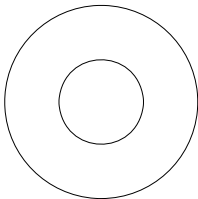
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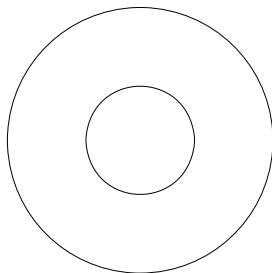
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



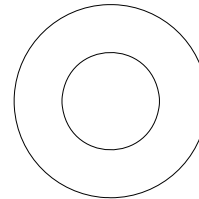
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



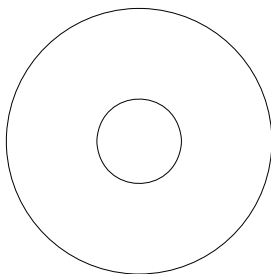
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



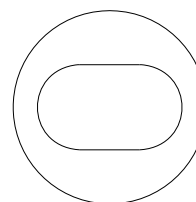
021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

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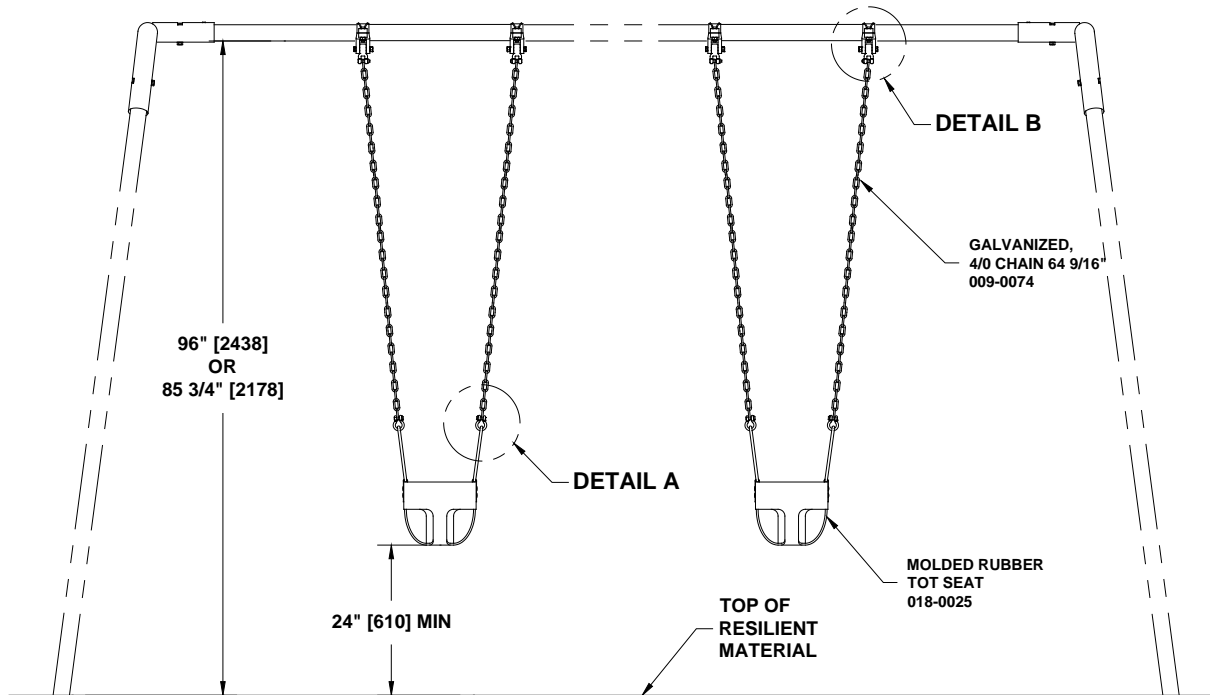
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Installation Instructions

BCI Burke Company, LLC

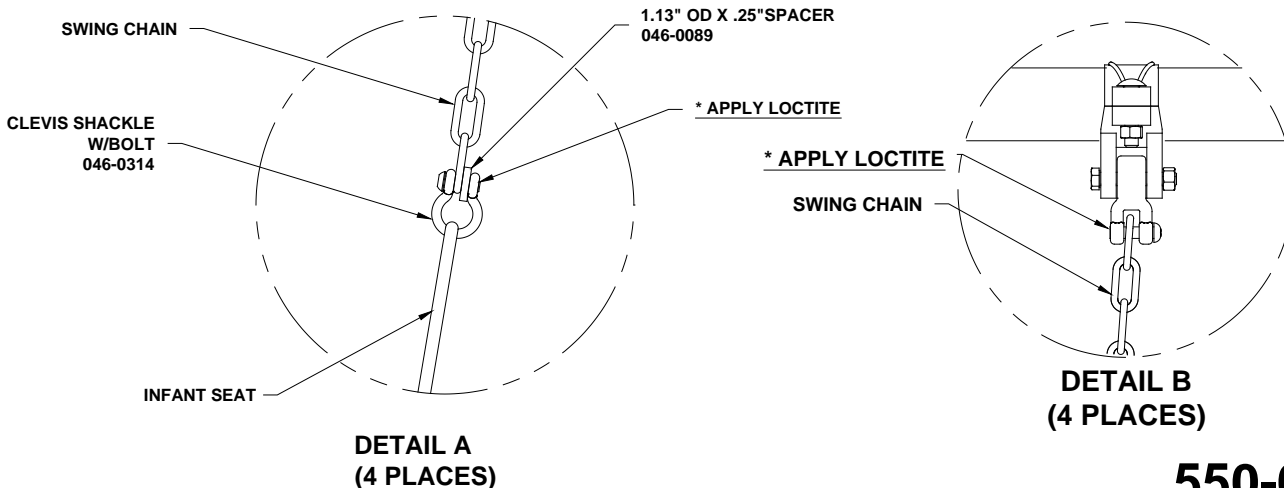
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SWING SEAT HEIGHT REQUIREMENTS
CUT CHAIN OFF THE TOP,
TO ATTAIN 24" MINIMUM
SEAT HEIGHT, MAKE SURE TO
CUT EQUAL AMOUNTS OFF BOTH CHAINS.

IMPORTANT: APPLY LOCTITE
TO BOLT BEFORE TIGHTENING



550-0100
TOT SEAT, 7' & 8' PAIR, STD CHAIN

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
009-0074	GALVANIZED, 4/0 CHAIN 64 9/16"	4
018-0025	MOLDED RUBBER TOT SEAT	2
046-0089	SPACER 1.13" OD X .25"	4
046-0291	LOCTITE	1
046-0314	CLEVIS SHACKLE W/BOLT	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED, 4/0 CHAIN 64 9/16": 3/8" diameter, 4/0 straight coil chain.

MOLDED RUBBER TOT SEAT: Molded rubber, reinforced with a steel insert. Riveted galvanized attachment hardware.

SPACER 1.13" OD X .25": 1/4" Nylatron GS.

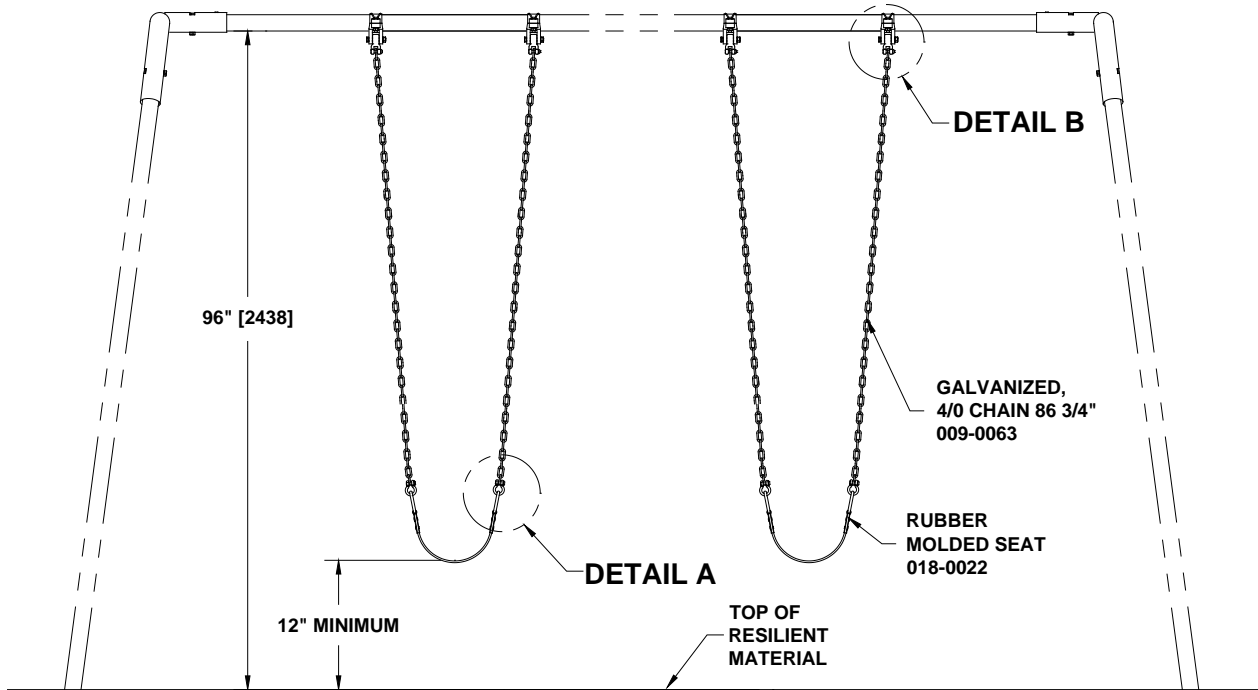
LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

CLEVIS SHACKLE W/BOLT: 5/16" Shackle with a 3/8" X 1 1/2" bolt.

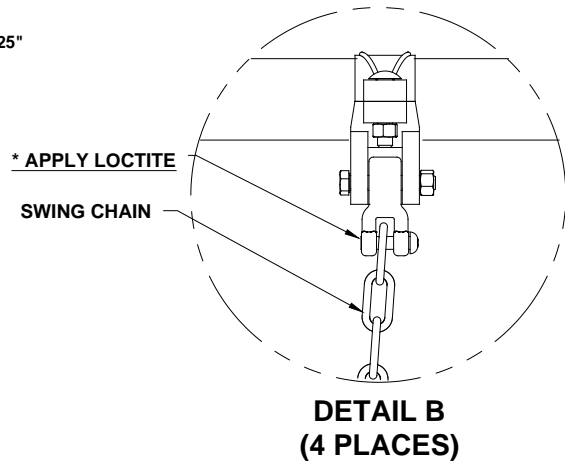
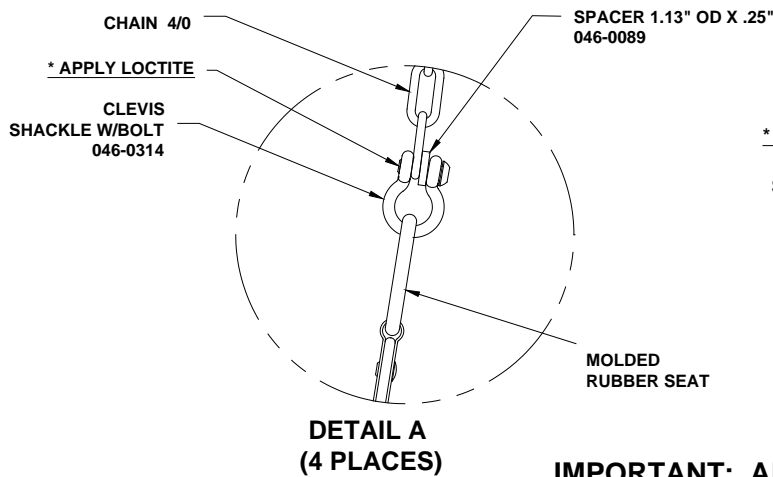
SHIPPING WEIGHT: 24 LBS.

INSTALLATION INSTRUCTIONS

1. Unscrew bolt on swing hanger and attach swing CHAIN 4/0 to swing hanger. Apply LOCTITE to all bolts on hangers before tightening. See DETAIL B.
2. Unscrew bolt in CLEVIS SHACKLE and slide shackles onto both sides of MOLDED RUBBER SEAT. See DETAIL A.
3. Determine what length to cut the chains. Attach the seat to the chains with SPACER and shackle at your desired height. Note there must be a minimum of 24" between the underside of the seat and the top of the resilient material.
4. With the seats at the desired heights and also attaining the 24" minimum clearance, cut and remove the excess chain. Make sure to cut the same length off each chain so that the seat remains level. Apply loctite to all shackle bolts and tighten.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



SWING SEAT HEIGHT REQUIREMENTS
CUT CHAIN OFF THE TOP,
TO ATTAIN 12" MINIMUM
SEAT HEIGHT, MAKE SURE TO
CUT EQUAL AMOUNTS OFF BOTH CHAINS.



IMPORTANT: APPLY LOCTITE
TO END OF BOLTS BEFORE TIGHTENING

550-0112
BELT SEAT, 8' PAIR, STD CHAIN

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
009-0063	GALVANIZED 4/0 CHAIN 86 3/4"	4
018-0022	MOLDED RUBBER SEAT	2
046-0089	SPACER 1.13" OD X .25"	4
046-0291	LOCTITE	1
046-0314	CLEVIS SHACKLE W/BOLT	4

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

GALVANIZED 4/0 CHAIN 86 3/4": 3/8" diameter, 4/0 straight coil chain.

MOLDED RUBBER SEAT: Molded rubber, reinforced with a steel insert. Riveted galvanized attachment hardware.

SPACER 1.13" OD X .25": 1/4" Nylatron GS.

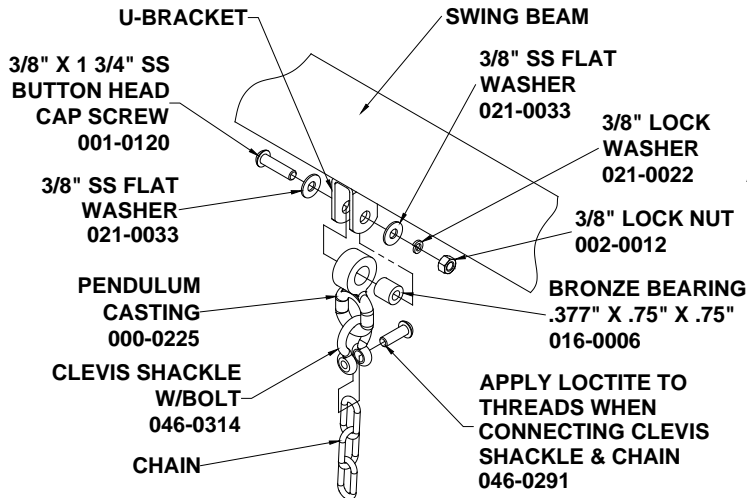
LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

CLEVIS SHACKLE W/BOLT: 5/16" Shackle with a 3/8" X 1 1/2" bolt.

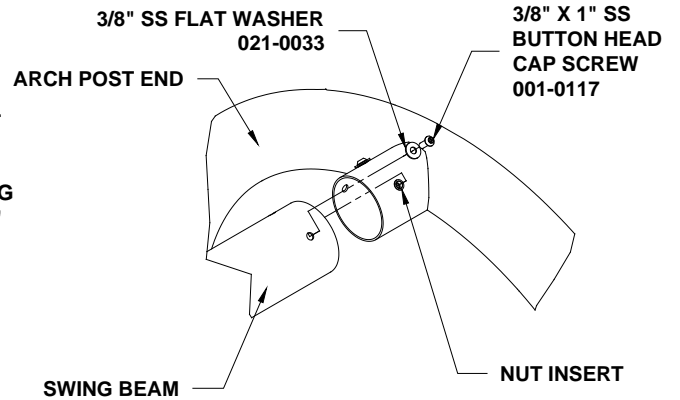
SHIPPING WEIGHT: 20 LBS.

INSTALLATION INSTRUCTIONS

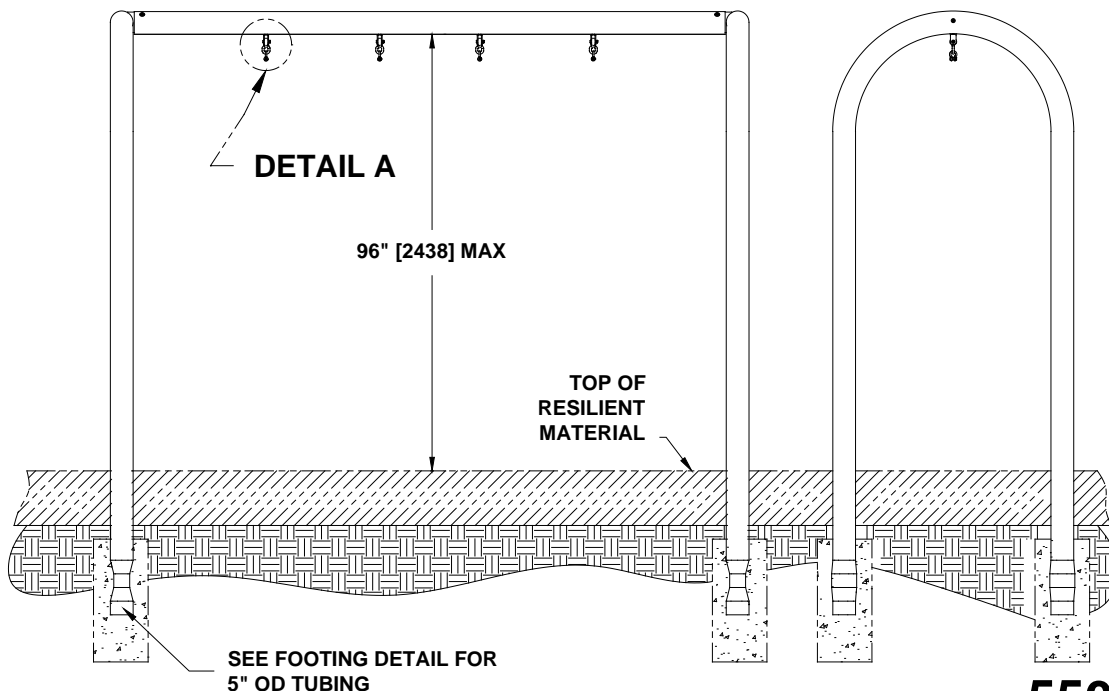
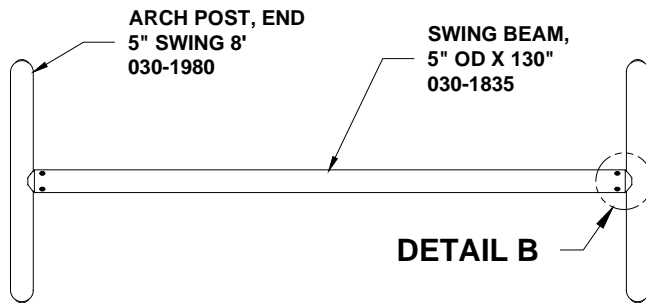
1. Unscrew bolt on swing hanger and attach swing CHAIN 4/0 to swing hanger. Apply LOCTITE to all bolts on hangers before tightening. See DETAIL B.
2. Unscrew bolt in CLEVIS SHACKLE and slide shackles onto both sides of MOLDED RUBBER SEAT. See DETAIL A.
3. Determine what length to cut the chains. Attach the seat to the chains with SPACER and shackle at your desired height. Note there must be a minimum of 12" below the seat between the underside of the seat and the top of the resilient material. When measuring, the seat must be pulled down as if someone were sitting in it and the resilient material must be at its finished depth.
4. With the seats at the desired heights and also attaining the 12" minimum clearance, cut and remove the excess chain. Make sure to cut the same length off each chain so that the seat remains level. Apply loctite to all shackle bolts and tighten.
5. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



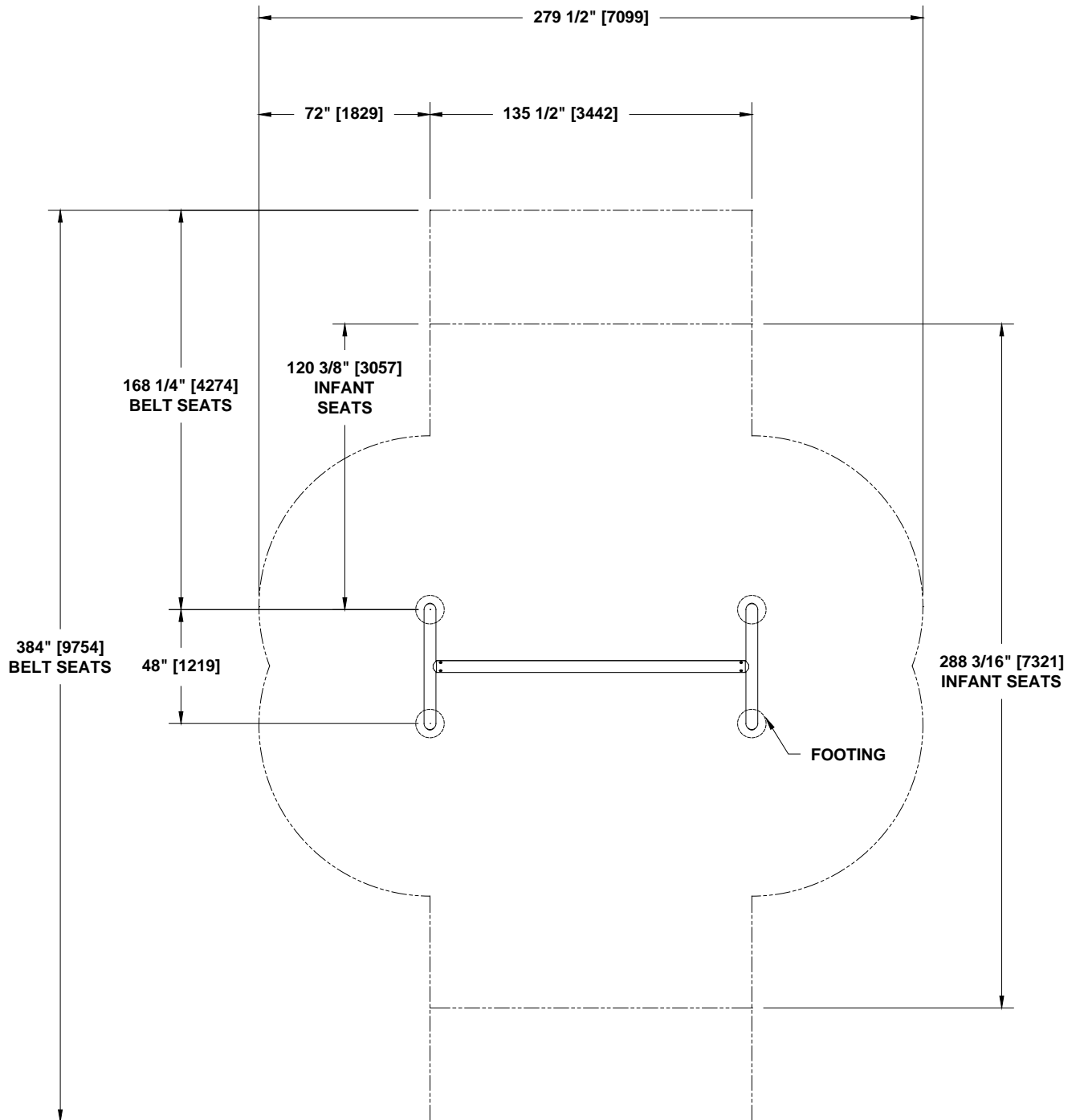
**DETAIL A
(4 PLACES)**



**DETAIL B
(2 PLACES)**



**550-0135
5" OD ARCH SWING**



FALL ZONE PER ASTM/CPSC STANDARDS

550-0135 5" OD ARCH SWING

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0225	PENDULUM CASTING	4
016-0006	BRONZE BEARING .377" X .75" X .75"	4
030-1835	SWING BEAM, 5" OD X 130"	1
030-1980	ARCH POST END, 5" OD SWING	2
036-0227	HARDWARE PACKAGE	1
036-0788	HARDWARE PACKAGE	2
036-1414	HARDWARE PACKAGE	1
046-0291	LOCTITE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PENDULUM CASTING: Galvanize plated, grade 32510, malleable iron

BRONZE BEARING .377" X .75" X .75": Oil impregnated, bronze.

SWING BEAM, 5" OD X 130": One piece all welded construction consisting of 5" OD x 11 GA galvanized steel tubing and 8 GA galvanized steel plate. Finished with a baked on powder coating.

ARCH POST END, 5" OD SWING: One piece all welded construction consisting of 5" OD x 11 GA & 11/16" OD low carbon steel bar and 4 1/2" OD x 11 GA steel tubing w/cadmium and yellow chromate plating, and an assembly of 3/8" nut inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: 5/16" Shackle with a 3/8" X 1 5/32" bolt.

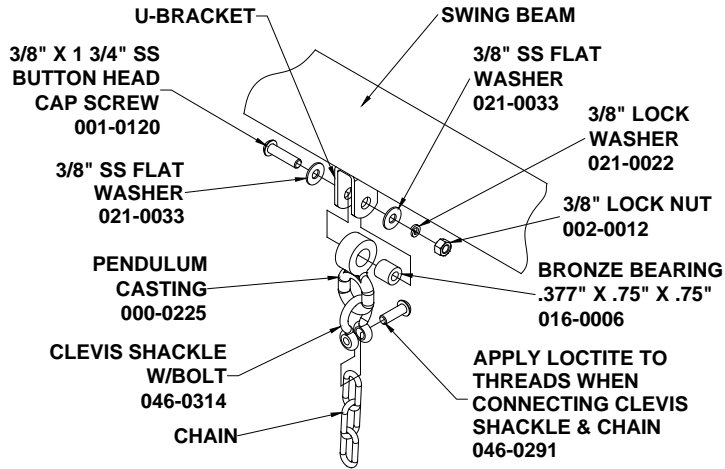
HARDWARE PACKAGE: Stainless steel washers & screws and zinc plated steel lock nuts & washers.

LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

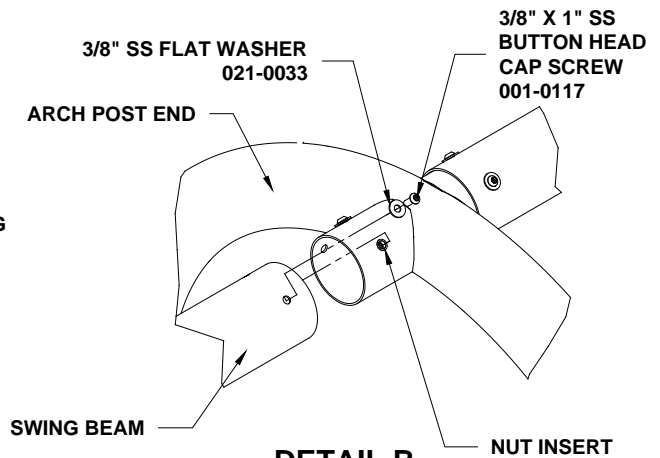
SHIPPING WEIGHT: 367 LBS.

INSTALLATION INSTRUCTIONS

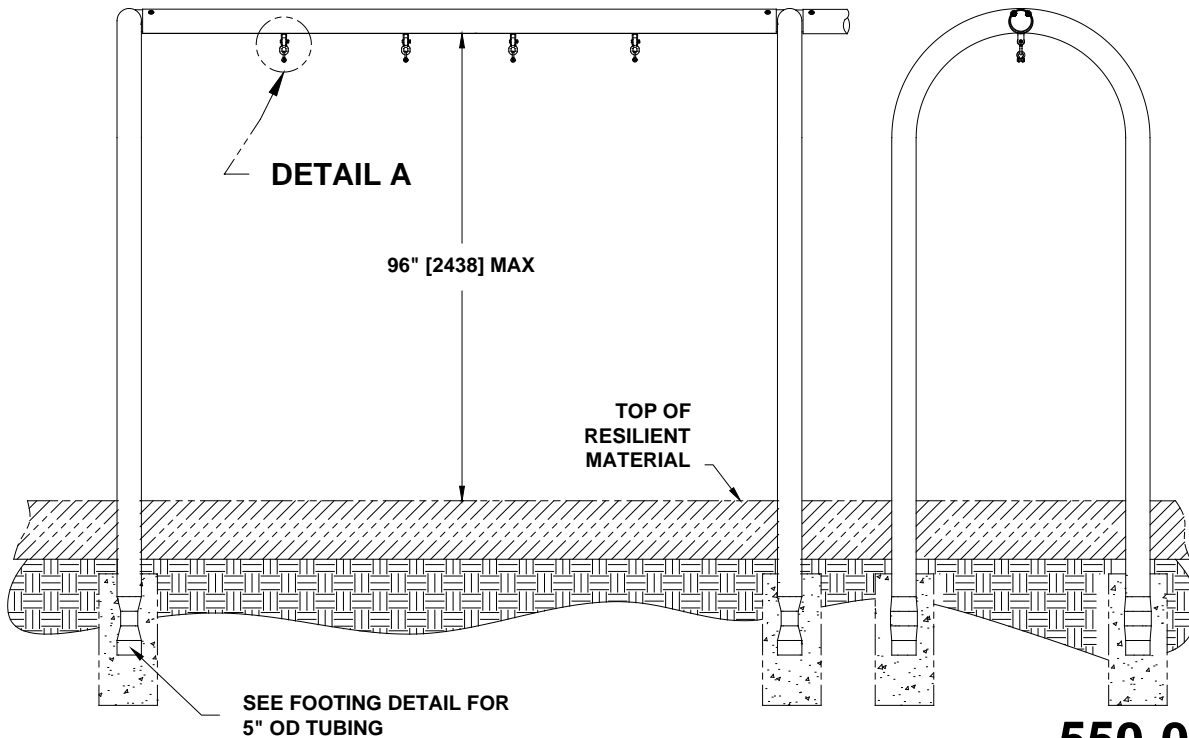
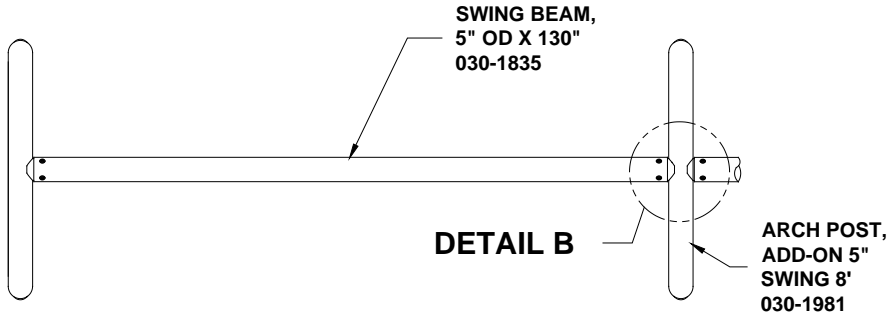
1. Determine 5" OD post locations per dimensions shown.
2. Dig footing holes. See typical concrete footing drawing for 5" OD posts, which is located in the preface of the installation manual.
3. Attach 5" OD x 130" SWING BEAM to both ARCH POST, END 5" OD SWING by sleeving the swing beam over arch post stub and fasten using 3/8" X 1" SS button head cap screws and 3/8" SS flat washers. Tighten hardware. See DETAIL B.
4. Position frame into footing holes. Block up, plumb, and level frame.
5. Pour concrete and allow it to set for 2 to 3 days.
6. Insert BRONZE BEARING .377" X .75" X .75" into PENDULUMS and attach to swing beam as shown in DETAIL A. Tighten hardware.
7. Attach swing chain to pendulum using CLEVIS SHACKLE W/ BOLT. Tighten hardware. See DETAIL A.
8. **INSTALL RESILIENT SURFACING MATERIAL.**



**DETAIL A
(4 PLACES)**

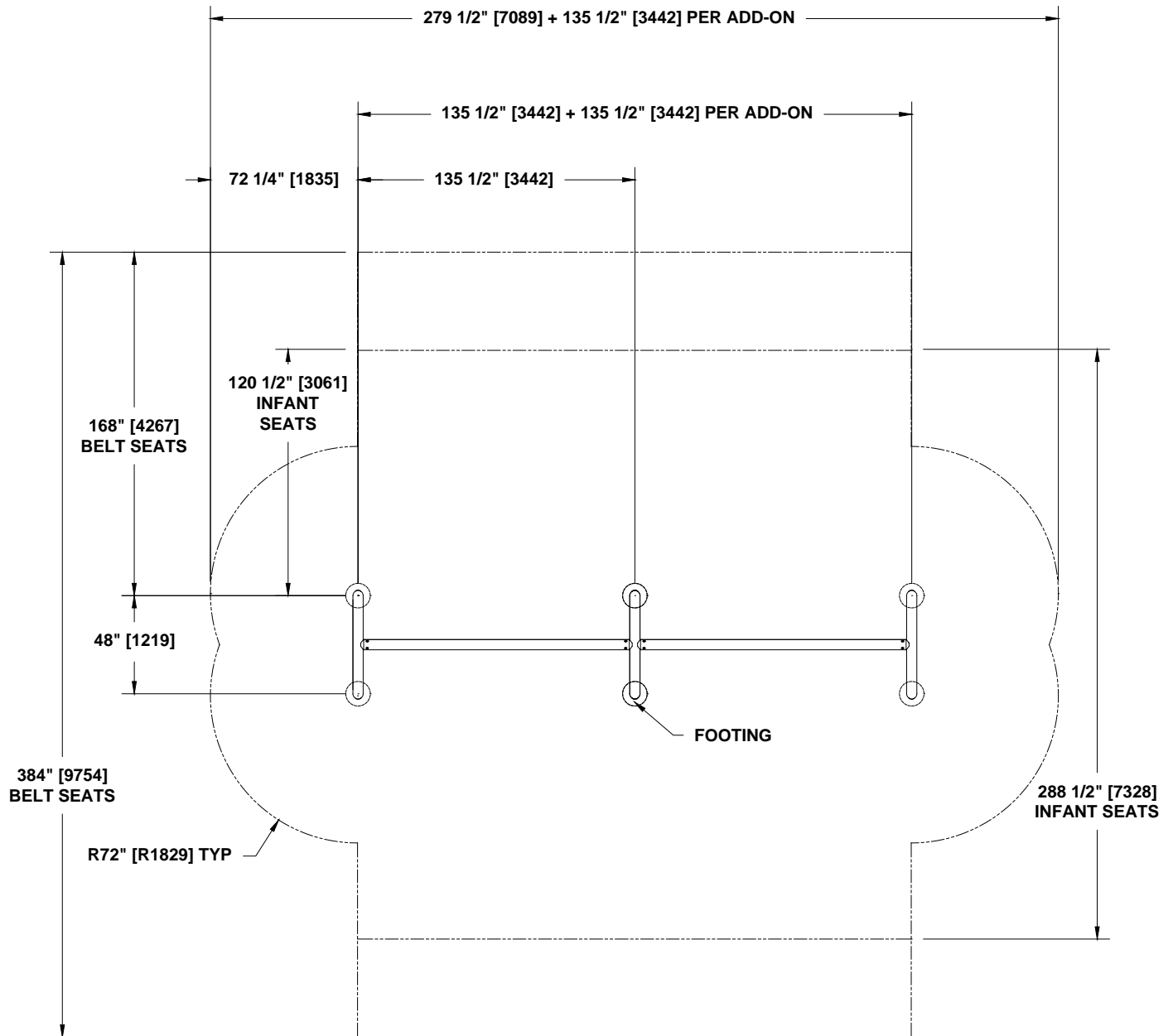


**DETAIL B
(2 PLACES)**



550-0136

5\"/>



FALL ZONE PER ASTM/CPSC STANDARDS

550-0136 5" OD ARCH SWING ADD-ON

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
000-0225	PENDULUM CASTING	4
016-0006	BRONZE BEARING .377" X .75" X .75"	4
030-1835	SWING BEAM, 5" OD X 130"	1
030-1981	ARCH POST, ADD-ON 5" OD SWING	1
036-0227	HARDWARE PACKAGE	1
036-0788	HARDWARE PACKAGE	2
036-1414	HARDWARE PACKAGE	1
046-0291	LOCTITE	1

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

PENDULUM CASTING: Galvanize plated, grade 32510, malleable iron

BRONZE BEARING .377" X .75" X .75": Oil impregnated, bronze.

SWING BEAM, 5" OD X 130": One piece all welded construction consisting of 5" OD x 11 GA galvanized steel tubing and 8 GA galvanized steel plate. Finished with a baked on powder coating.

ARCH POST, ADD-ON 5" OD SWING: One piece all welded construction consisting of 5" OD x 11 GA & 3/8" Schedule 40 galvanized steel pipe and 4 1/2" OD x 11 GA steel tubing w/cadmium and yellow chromate plating, and an assembly of 3/8" nut inserts. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

HARDWARE PACKAGE: 5/16" Shackle with a 3/8" X 1 5/32" bolt.

HARDWARE PACKAGE: Stainless steel washers & screws and zinc plated steel lock nuts & washers.

LOCTITE: Thread Locker; CAUTION: May irritate eyes, skin and respiratory system. Contains: polyglycol dimethacrylate, polyglycol oleate propylene glycol, titanium dioxide, and cumene hydroperoxide.

SHIPPING WEIGHT: 224 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post locations per dimensions shown.
2. Dig footing holes. See typical concrete footing drawing for 5" OD posts, which is located in the preface of the installation manual.
3. Attach 5" OD x 130" SWING BEAM to arch post end and ARCH POST, ADD-ON 5" SWING 8' by sleeving the swing beam over arch post and fasten using 3/8" X 1" SS button head cap screws. Tighten the hardware. See DETAIL B.
4. Position frame into footing holes. Block up, plumb, and level frame.
5. Pour concrete and allow it to set for 2 to 3 days.
6. Insert BRONZE BEARING .377" X .75" X .75" into PENDULUMS and attach to swing beam as shown in DETAIL A. Tighten hardware.
7. Attach swing chain to pendulum using CLEVIS SHACKLE W/ BOLT. Tighten hardware. See DETAIL A.
8. **INSTALL RESILIENT SURFACING MATERIAL.**

Burke®

Order Number

Job Name

Structure Number

GENERAL CONFORMITY CERTIFICATION

As required by the Consumer Product Safety Improvement Act of 2008, Public Law 110-314 122 Stat. 3016 (August 14, 2008) H.R. 4040

1. This Certification of Compliance covers the playground components sold on Order #____, identified as Proposal #_____.
2. This Certification of Compliance certifies that the products identified in item 1 comply with all rules, bans, standards or regulations applicable to the product under the Consumer Product Safety Improvement Act of 2008; Sections 101, 102, 103 and 108.
3. Manufacturer certifying compliance of the products:
BCI Burke Company, LLC
660 Van Dyne Road
Fond du Lac, WI 54935
(920) 921-9220
4. The contact information for the individual maintaining records of the test results is as follows:
Wayne Orvold
BCI Burke Company, LLC
660 Van Dyne Road
Fond du lac, WI 54935
(920) 921-9220
Worvold@bciburke.com
5. These products were manufactured for shipment on _____.
6. This General Conformity Certification and certification of compliance is based on testing completed through a reasonable testing program (ISO WI 028-08) maintained at the manufacturer listed above.
7. The testing for this certificate was completed at:
Applied Technical Services, Incorporated
1049 Triad Coart
Marietta, GA 30062
(770) 423-1400

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SITE PLAN & FOOTING PLAN DRAWINGS ARE LOCATED IN THE BACK OF THE MANUAL ALONG WITH ORDER DOCUMENTATION.

INTRODUCTION

Congratulations on your purchase of Burke playground equipment!

A tremendous amount of care, quality and workmanship went into the design and manufacture of your equipment. Now is the time when your part of the teamwork really begins.

Following are a few topics vital to the maintenance of your playground and - most importantly - minimizing your problems in the field.

- All equipment must be installed per Burke Installation Guidelines and Specifications. Detailed prints and instructions are included in the back of this manual, arranged in numerical order by the component number which can be found on the site plan drawings which are at the very end of this manual.
- Don't forget to add a proper safety surface, as recommended by CPSC Guidelines for Public Playground Equipment and ASTM- F 1487 Standards or CSA/CAN Z614 Standards.
- It is critical to the long life of your equipment to establish a routine maintenance program. To help you, enclosed is a checklist including frequency for inspection based on recommendations of the CPSC Guidelines for Public Playground Equipment.

If your playground has been installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Your equipment has arrived in great shape.
Protect your Warranty - equipment maintenance is up to you.

We are here to help you with any questions or concerns you may have about your equipment. Please feel free to call our Toll Free 1-800 number.

Thank you for your business.

BCI Burke Company, LLC

For questions, call us at:
1-800-356-2070

This installation manual is applicable to the following playground equipment: **Nucleus®**, **Voltage®**, **Intensity®**, **NaturePlay®**, **Circuit Play®**, **Circuit Play Beginnings®**, **Little Buddies®** and **Burke Basics**

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SUPERVISION

Playgrounds should be supervised at all times when children are using them. Supervisors and parents should use sound judgment in preventing overcrowding on equipment, or the use of play apparatus whose challenge exceeds the user's capabilities. Parents and adult supervisors should instruct children on the safe use of playground equipment. Intensive classroom and home instruction about safe behavior on playground equipment make an important contribution to playground safety.

For references and details on safety recommendations, we suggest you add the following publications to your library.

- **Consumer Product Safety Commission (CPSC) A Handbook for Public Playground Safety** (Publication No. 325)
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1487**
-Standard consumer safety performance specification for playground equipment for public use.
- **American Society for Testing and Materials (ASTM) F1292**
-Standard specification for impact attenuation of surface systems under and around playground equipment.
- **Canadian Standards Association (CAN/CSA) Z614**
-Children's Playspaces and Equipment A National Standard of Canada

To obtain the above publications you may contact the following:

US Consumer Product Safety Commission
Washington, D.C. 20207
1-800-638-2772
<http://www.cpsc.gov>

Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, Canada L4W 5N6
<http://www.csa.ca>
(800) 463-6727

American Society for Testing and Materials
100 Barr Harbor Dr.
West Conshohocken, PA 19428
<http://www.astm.org>
(610) 832-9585
Fax: (610) 832-9555

NOTE:

For equipment and components that are certified and compliant with the Canadian Standard, CAN/CSA Z614, BCI Burke Company, LLC has performed the necessary Structural Integrity tests required and can ensure compliance with the requirements of Clause 9.

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PRE-INSTALLATION GUIDELINES

Instructions are clearly presented and simple to read. Each step in the process is concisely explained. There are no secrets to completing a successful BCI Burke play structure package. Carefully read the instructions and familiarize yourself with the assembly procedures. Continually keep in mind that proper planning saves time and money. When your unit is finally assembled, place your instruction sheets in a safe, but easily accessible, file for future referral. Do not deviate or take shortcuts in the assembly procedures.

BCI Burke builds durable, long-lasting equipment. You, however, are responsible for the proper installation and maintenance of the equipment. Always follow the equipment installation drawings provided and DO NOT deviate from the specifications or fabrication.

Several steps are of the **UTMOST IMPORTANCE** before beginning assembly:

1. Read instructions carefully and familiarize yourself with the site plan drawings in the very back of this manual, and the accompanying component installation instructions, arranged in numerical order also in the back of this manual.
2. Make sure to plan to orientate and place structures so that slides are not in direct sunlight during play times, as slide surfaces tend to get hot.
3. Clear and level an area large enough for your unit and the recommended minimum use and no-encroachment zones. A use zone is an area beneath and around the equipment, which we have identified on the plan drawing, which can be found in the back of this manual. This zone under and around your equipment must be free and clear of any obstruction. Overhead obstructions within the use zones of playground equipment that are not part of the play structure (for example tree limbs) shall be at least 84" above each designated play surface or 84" above the pivot point of the swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes (ex: National Electrical Safety Code).
4. Have the proper tools available for installation. You will need an auger for digging footing holes, hammer, rubber mallet, 3/16", 1/4", 5/16", 7/16" and 3/4" drill bits, an accurate level, tape measure along with a standard set of wrenches, and a non-permanent felt-tip pen for marking clamp locations. A tool for completely closing S-Hooks is also necessary.
5. The equipment will arrive via truck and will be packed on long pallets, up to 14' long. You will need to plan for a way to remove the pallets from the truck, either with a fork lift with extended forks, or a large group of people to unload from the pallet on the truck by hand.
6. The use of a transit is recommended for accurate footing and platform heights. Plot the dimensions of your layout accurately with all 5" OD (Nucleus, Intensity) support posts at 48" centers, all 3-1/2" OD (Voltage) platform support posts at 44" centers and all 2-3/8" OD (Little Buddies) platform support posts at 40" centers. Footing hole locations for other components can be done at a later time during installation.

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GENERAL INSTALLATION GUIDELINES

1. Identify each component of your equipment before starting installation. The Site Plan drawings in the very back of this manual identify each component by number and also identify each of the upright support posts with a letter designation.
2. The letter designation for the upright posts can also be found on the packaging of each post and there is a chart for reference located in the Appendix of this manual starting on page 33.
3. The Installation Instructions are located in the back of this manual, arranged in numerical order by the component number. The component number can be found on the site plan and on the list of components in the order documentation.
4. The platform heights, which are shown as a number in a circle on the platform on the Site Plan Drawings, are measured from the finished grade of the resilient surfacing material to the top of the platforms. They are shown in inches.
5. Footing hole depths may vary depending on the depth of the resilient material to be installed along with local soil and weather conditions. See Typical Concrete Footings in Figures 2 - 7 (located on pages 11 - 13). Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level. Be sure to use red plastic caps provided on ends of posts to keep posts from sinking in support material.
6. Assemble the main structure referring to the site plan and installation drawings for correct post and platform orientation. **Make sure to attach and use connecting pieces (e.g. bridges, horizontal ladders, tubes, etc.) to ensure the correct distances to adjacent main structure units, platforms or supports. It is very difficult to adjust post spacing once they are set in concrete.**
7. After each connecting section is attached, be sure to plumb and level each component and tighten all bolts, nuts and set screws. After tightening all bolts, nuts and set screws, make sure to check any exposed bolt ends to make sure they do not protrude beyond the face of the nut more than 2 threads as required in ASTM F1487 section 6.4.3.

More than 2 threads exposed

NON-COMPLIANT

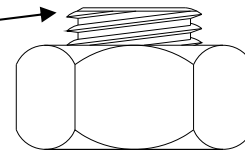


Figure 1: Thread Protrusion

If there are more than 2 threads protruding beyond the face of the nut, check for correct hardware and assembly first. If hardware and assembly are correct, there are several ways to remedy the exposed threads. You could use a shorter bolt, put extra washers behind the nut or cut the bolt removing the extra threads. If you cut the bolt, make sure to grind the ends so that they are free of burrs and sharp edges. If there are opposing bolts, such as on swing hangers, you can loosen one nut and tighten the other to even the protruding threads out

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GENERAL INSTALLATION GUIDELINES

8. Once the central unit is in place, brace posts in vertical position until footings have been poured, recheck level and tighten all bolts, nuts and set screws. See corresponding installation drawings.
9. Attach safety enclosures (e.g. pipe walls, panels) on all platforms where other play components are not used. Tighten all bolts, nuts and set screws.
10. Attach other components (e.g. slides, arch ladders, cargo nets, etc.) next, according to their respective installation instruction drawings. Tighten all bolts, nuts and set screws.
11. Pour concrete footings. **MAKE SURE UNIT IS PLUMB AND LEVEL BEFORE POURING CONCRETE FOOTINGS.** See Typical Concrete Footings in Figure 2 through Figure 5 (Located on Page 7 through Page 9). After concrete footings have been poured and the concrete has set, backfill holes with dirt to reduce the potential of any concrete footing ever protruding above the resilient surfacing material
12. Clamp and Bracket Installation Guidelines:

Nucleus/Voltage/Intensity

Drill holes to pin or rivet mount brackets per instructions in installation drawings. This is VERY IMPORTANT. This will ensure that the components will not slide, slip, or rotate on the brackets. **NOTE:** *In coastal areas, a clear silicone caulk (provided in installation kit with purchase of Burke Coastal Package) can be utilized to help seal the drilled holes prior to inserting rivets into the mount brackets. See typical mount bracket assembly drawings located in the installation instructions section.*

13. Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines. See Resilient Surfacing Material, Figures 6 - 8, and Table 1 (located on pages 10 - 12).
14. Attach swings, rings, and tire swings after resilient surfacing material is in place. Completely close all "S" hooks. See ASTM Requirements for Fastening Devices in Figures 9 - 12 (located on page 13).
15. Attach Warning and Manufacturer labels. See Warning and Manufacturer Labels for instructions and Figures 13 - 14 (located on pages 14 - 15).
16. After installation is complete, inspect the entire unit. Make sure all fastening hardware and setscrews are tight, and all drive pins and rivets have been installed. Make sure all "S" hooks are completely closed. Check all coated parts to ensure coating is covering all metal; if not, follow repair instructions listed in the Maintenance section.

GENERAL INSTALLATION GUIDELINES

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17. We strongly recommend complete inspections for new structures occur within three (3) days after installation, within seven (7) days after installation and on a regularly scheduled basis thereafter. Playgrounds with heavy use should be inspected daily. For your convenience there is an Inspection Checklist (located on page 16).



NO IMPACT WRENCHES

We do not recommend the use of impact wrenches for the assembly of any playground components as they can damage the hardware, nutsert and component part.

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TYPICAL CONCRETE FOOTINGS

Burke specifies concrete in-ground footings, surface mount, and surface mount pier footings to provide the foundation for the playground structure. The details provided on this page recommend minimum footing requirements. This page is what you will reference when installation prints require you to see a typical footing detail. **The following details are to be used on all Burke products unless specific dimensions are given on a particular component installation sheet.**

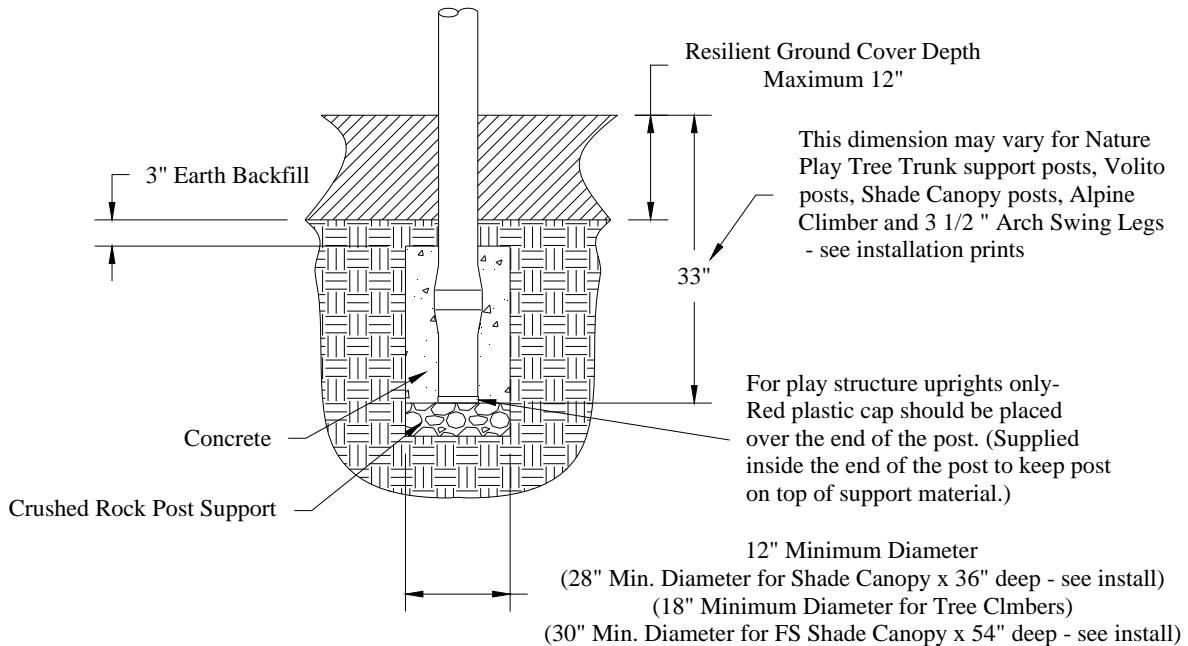


Figure 2: Support Post Footing Detail

Support Post Footing Detail is used for the following:

- 5" OD TUBING
- 3 1/2" OD TUBING
- ALL SQUARE TUBING
- 12' x 12' AND 15' X 15' SHADEPLAY CANOPY POSTS (33" MIN DEPTH)
- 15' X 19', 15' X 21', HEX AND ARA SHADEPLAY CANOPY POSTS (36" MIN DEPTH)

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.
4. Use masonry bricks, gravel, or shims at the bottom of the footing holes in order to block up and plumb the posts and the platforms to the correct level.

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TYPICAL CONCRETE FOOTINGS

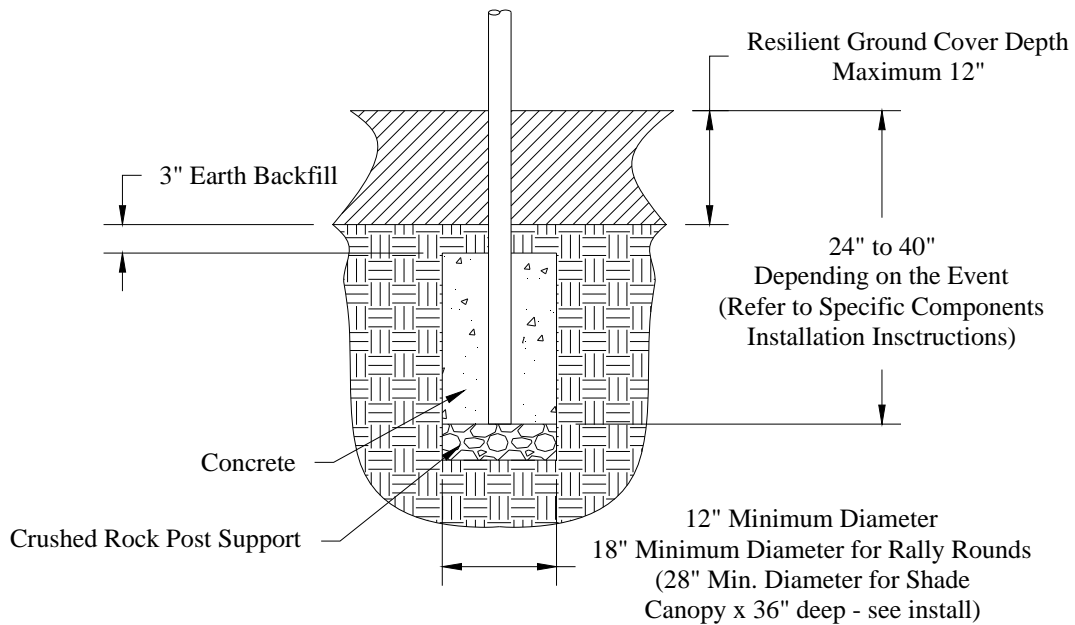


Figure 3: Play Event Footing Detail

The Play Event Footing Detail is used for the following:

- All tubing 2 3/8" OD and smaller
- All Playground Structure Play events
- 12' x 12' and 15' x 15' ShadePlay Canopy Posts (36" MIN DEPTH)
- 15' x 19' and HEX ShadePlay Canopy Posts (36" MIN DEPTH)

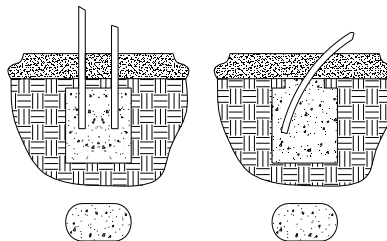


Figure 4: Optional Play Event Footing

Some play events have 2 supports close together or a single support that enters the ground at an angle. A trench like hole can be excavated to cover both situations as shown above. The starting size of the trench should adhere to the dimensions listed on the play event footing detail.

Special Considerations:

1. Consult your local building codes to assure proper depth of footings. The required diameter and depth of the concrete can vary depending on soil conditions and temperature extremes.
2. In cold weather climates the concrete should be deep enough to reach below the frost line, especially the main support posts.
3. In sandy or loose soil conditions the diameter of the footing should be doubled to provide a stable support structure.

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TYPICAL CONCRETE FOOTINGS

When installing a surface mounted structure or event as seen in Figure 5, there may be multiple mounting plate styles depending on the type of supports involved. A hole is to be drilled and an anchor installed for each hole or slot in all mounting plates. Surface mounted events and structures are to be installed to concrete surfaces only. Concrete is to be a minimum of 4 inches in thickness and have a minimum strength rating of 3000psi for structures without shade canopies; 4000psi with shade canopies.

Burke recommends 1/2" diameter anchors, with the length based on the thickness of the concrete slab, the type of anchors and the recommendation of the anchor manufacturer. The pullout strength of each anchor should be a minimum of 2600 pounds. If there is a shade canopy on the structure, surface mounting must be approved by the factory first, and anchors used must be an epoxy based anchor with a minimum pullout strength of 4000 pounds.

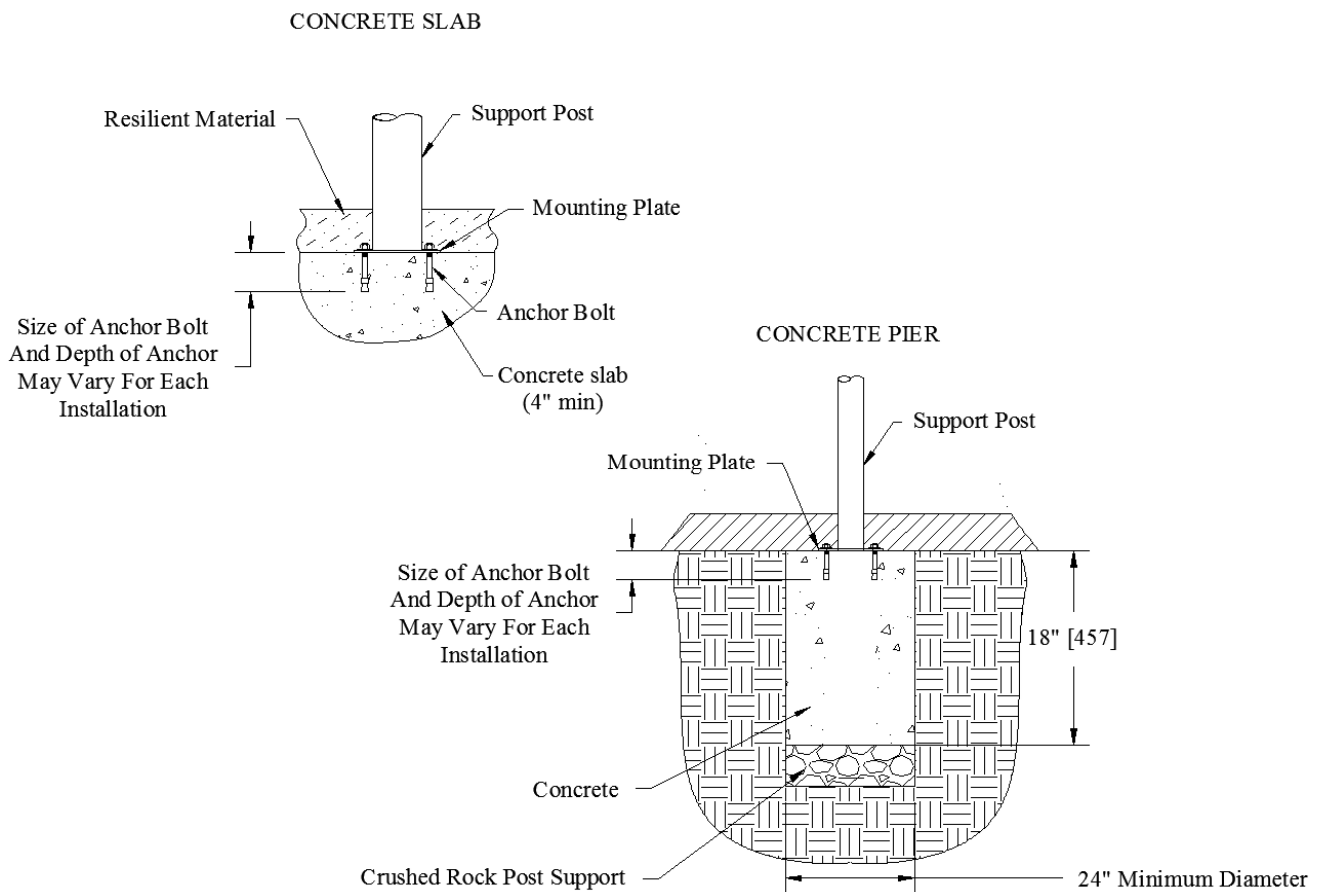


Figure 5: Surface Mount Detail

Special Considerations:

1. Consult your local building codes to ensure the use of the proper anchor bolt size.
2. Concrete must have the proper amount of curing time to ensure that anchors have maximum holding power.
3. Existing concrete is to be free of cracks and heaving in areas where anchor bolts are to be installed.

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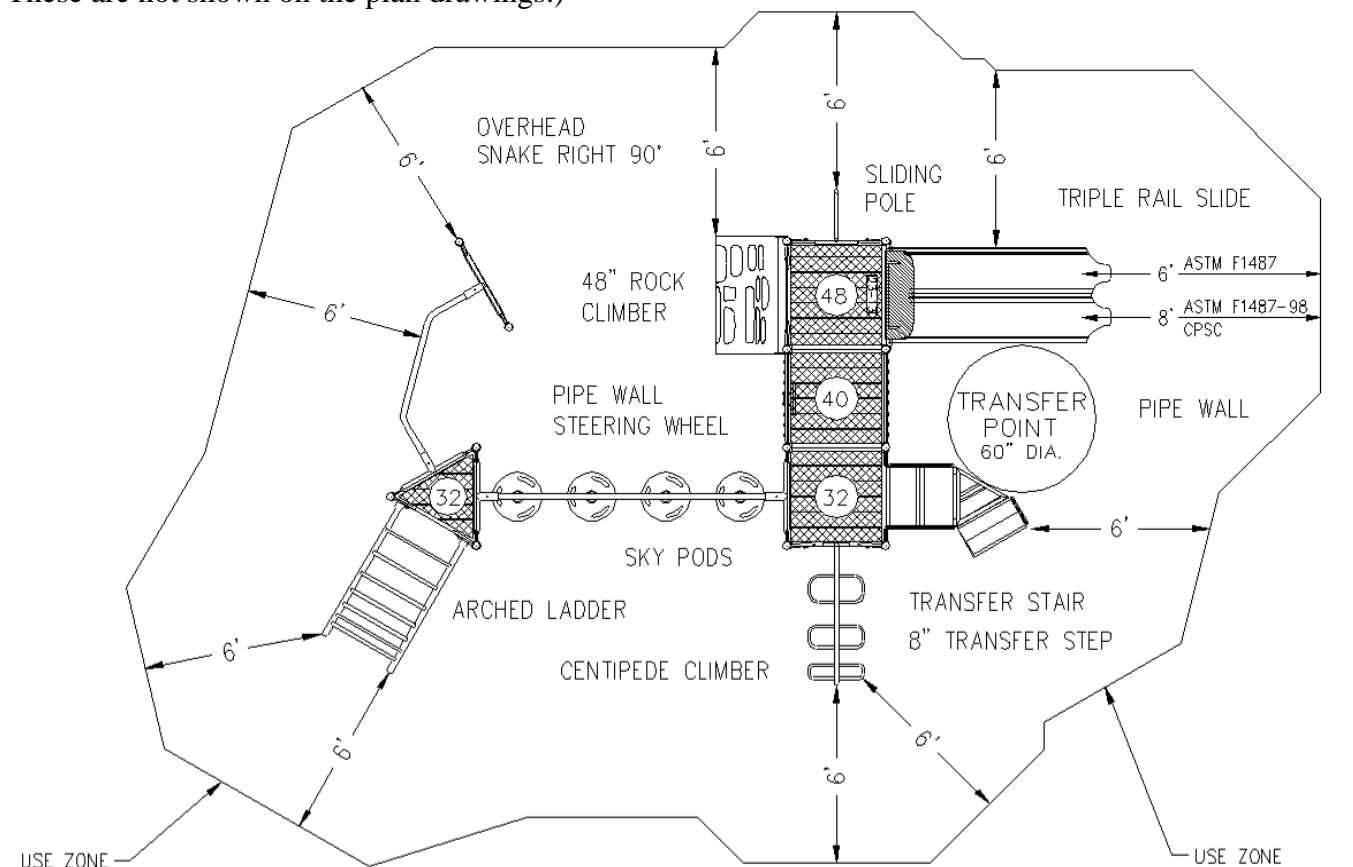
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RESILIENT SURFACING MATERIAL

As the owner of a playground, you are responsible for understanding the recommendations for surfacing and providing and maintaining an appropriate impact attenuating surface material under and around all playground equipment.

Since the majority of playground injuries result from falls, use only a soft, resilient surface under and around play equipment. Never place play equipment on hard surfaces, such as concrete or asphalt. Grass surfaces are not recommended; compacted earth will not cushion falls. Shock-absorbing surfaces should meet the U.S. Consumer Product Safety Commission (CPSC) recommendations as detailed in *A Handbook for Public Playground Safety*. (Revision dated 1997, Publication No. 325, pages 3 through 6 and Appendix C pages 38 through 40), ASTM F1292: Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment and ASTM F1487: Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. For installations in Canada, shock-absorbing surfaces should also meet the requirements of CAN/CSA Z614 Clause 10. Use the soft, resilient surface in the use zone or protective surfacing zone, which we have identified on the Site Plan Drawing. (Sample in Figure 6 below.) There are also additional space requirements called no-encroachment zones around moving equipment and slides, as required in CAN/CSA Z614. (Typically extending an additional 1.8 m beyond the protective surfacing zone. These are not shown on the plan drawings.)



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**Figure 6: Sample Site Plan Drawing
RESILIENT SURFACING MATERIAL**

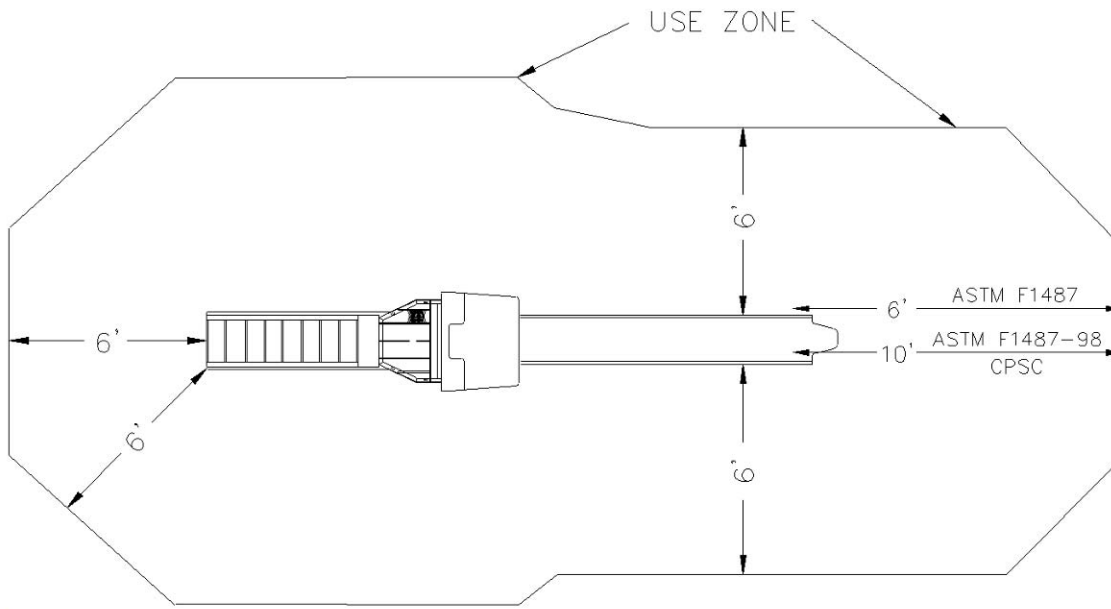


Figure 7: Use Zone for Slides

The selection of the resilient surface should be based on the fall potential from the highest platforms as well as the height of the average user. For stationary components and slides it should extend a minimum of 6 feet in all directions as shown in Figure 7.

To the front and to the rear of to-fro swings, the use zone should extend a “minimum distance of 2X on a line extending 90° both front and rear from the longitudinal direction of the suspending beam, where X equals the vertical distance from the top of the protective surfacing to the pivot point of the swing” and the use zone for a rotating tire swing “shall be a minimum horizontal distance of Y + 72 in. (1830 mm) in all directions from pivot point of the swing, where Y equals the vertical distance between the pivot point and the top of the swing seat or suspended member.” (ASTM F 1487 Pg. 13-14. A minimum horizontal distance of 2Y is required in Canada for rotating tire swings). See Figure 8 (Located on Page 12).

In addition to the use zone required in ASTM and CPSC, a no-encroachment zone may also be provided. This is an area in which the children run and play around the equipment. To prevent traffic conflicts, the no-encroachment zone should be free of any other equipment, trees, fencing, curbing, or other hazardous objects and should extend beyond the soft resilient surfacing a minimum of 6 feet. (No-encroachment zones for to-fro and tire swings are required in Canada).

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RESILIENT SURFACING MATERIAL

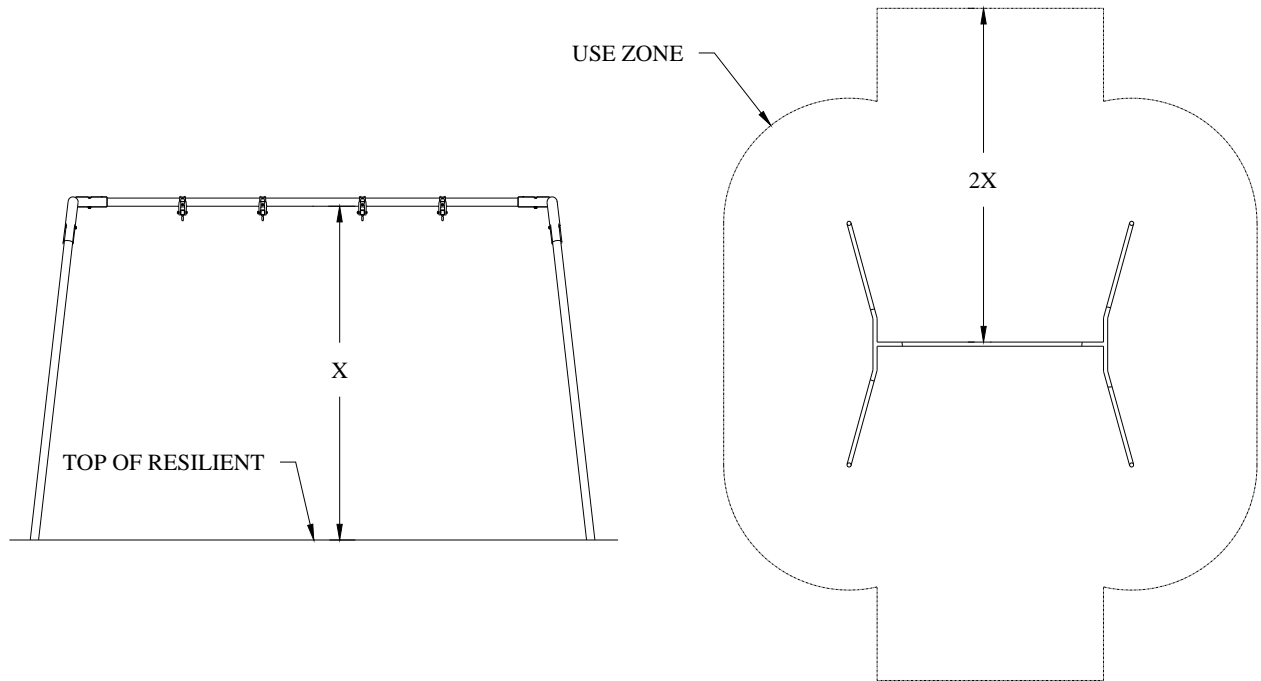


Figure 8: Use Zones for To-Fro Swings

An impact attenuating surfacing material is required under and around all equipment. The Playground Surfacing Technical Information Guide published by the U. S. Consumer Product Safety Commission contains the results of tests performed to determine the relative shock-absorbing properties of seven loose-fill materials commonly used resilient surfacing. The report contains a table of Critical Heights, the height below which a life-threatening head injury would not be expected to occur, for each of the loose-fill surface materials tested. This information is available through the Consumer Product Safety Commission and is shown below in Table 1.

Table 1: CPSC Critical Fall Heights (taken from pub. 325, page 10)

Type of Loose-Fill Material	Compressed Depth of Loose-fill material	Protects to fall height of:
Wood Chips	9 inches	10 ft.
Wood Mulch (non-CCA)	9 inches	7 ft.
Shredded/recycled rubber	9 inches	10 ft.
Pea Gravel	9 inches	5 ft.
Sand	9 inches	4 ft.

Manufactured surfaces, such as rubber matting materials, may also be suitable for use under and around playground equipment. Manufacturers of these surface materials should be contacted for specific information on the shock-absorbing performance and cost of their individual products.

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ASTM REQUIREMENTS FOR FASTENING DEVICES

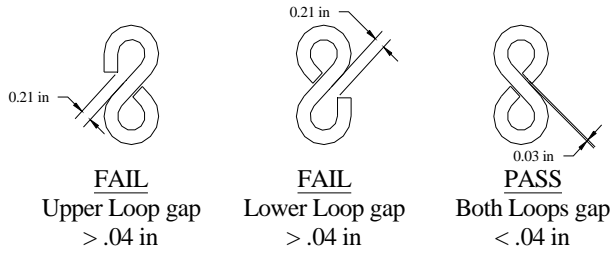


Figure 9: Check loops for .04" gap

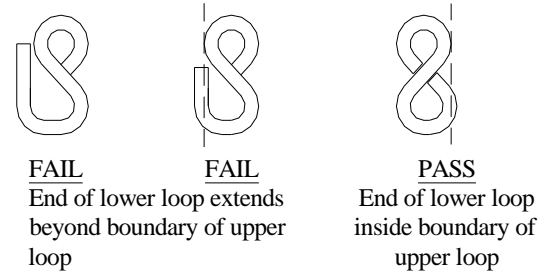


Figure 10: Check lower loop projection

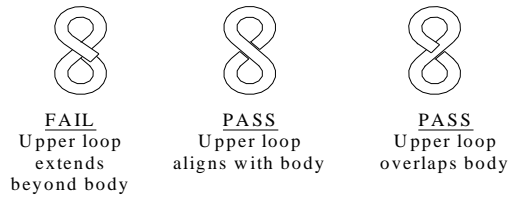


Figure 11: Check upper loop projection

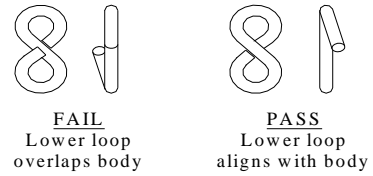


Figure 12: Check lower loop alignment

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WARNING AND MANUFACTURER LABELS

The following is the Owner's responsibility. Please read it carefully.

Labels, as required by ASTM F 1487, CAN/CSA Z614, CPSIA and California law, have been included with this playground equipment and must be applied after installation is complete.

Instructions

- Choose highly visible label locations at a height of 4' to 5' above the resilient surfacing material. See Figure 13.
- The preferable location would be out of direct sunlight.
- Posts are the best location for labels. Do not place on PVC coated items or areas of high wear.
- Surface must be clean and dry prior to applying labels.
- Replacement labels are available upon request should a label become destroyed, mutilated or vandalized. Contact Burke Customer Service at 1-800-356-2070.



Age-appropriate Safety Labels with Manufacturer's Identification – You will receive labels with your equipment that designate the age appropriateness based on the specific components in your design. (Note: Three labels not shown here are those for 6-23 month olds, 4-5 year olds and 4-12 year olds. Age appropriateness is determined by ASTM requirements and CPSC recommendations.) Apply one label adjacent to or visible from the primary entrance to a structure and one label visible from another entrance on the opposite side of the structure. There should be a minimum of two labels on each play structure. Larger structures may have additional labels included. These labels should be placed near other entrances on opposite sides of the structure.



Equipment Identification Label and cover label - Place this label and clear protective cover label on all equipment, either directly below the Age-appropriate designation or as the top most label for equipment that does not have a specific age-appropriate label. See Figures 13, 14 and 15. This label provides the tracking label information required by CPSIA.



California Only

Warning Labels - Place one directly underneath each of the Age-appropriate Safety Labels and/or Manufacturer's Identification Label. If you have additional labels they should be placed near other entrances on opposite sides of the structure. **Warning Labels are a Requirement in the ASTM F1487 Standard** and they should serve as a constant reminder of the potential hazards associated with using the play equipment. **California Prop 65 Warning Label** – Required in California only.

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WARNING AND MANUFACTURER LABELS

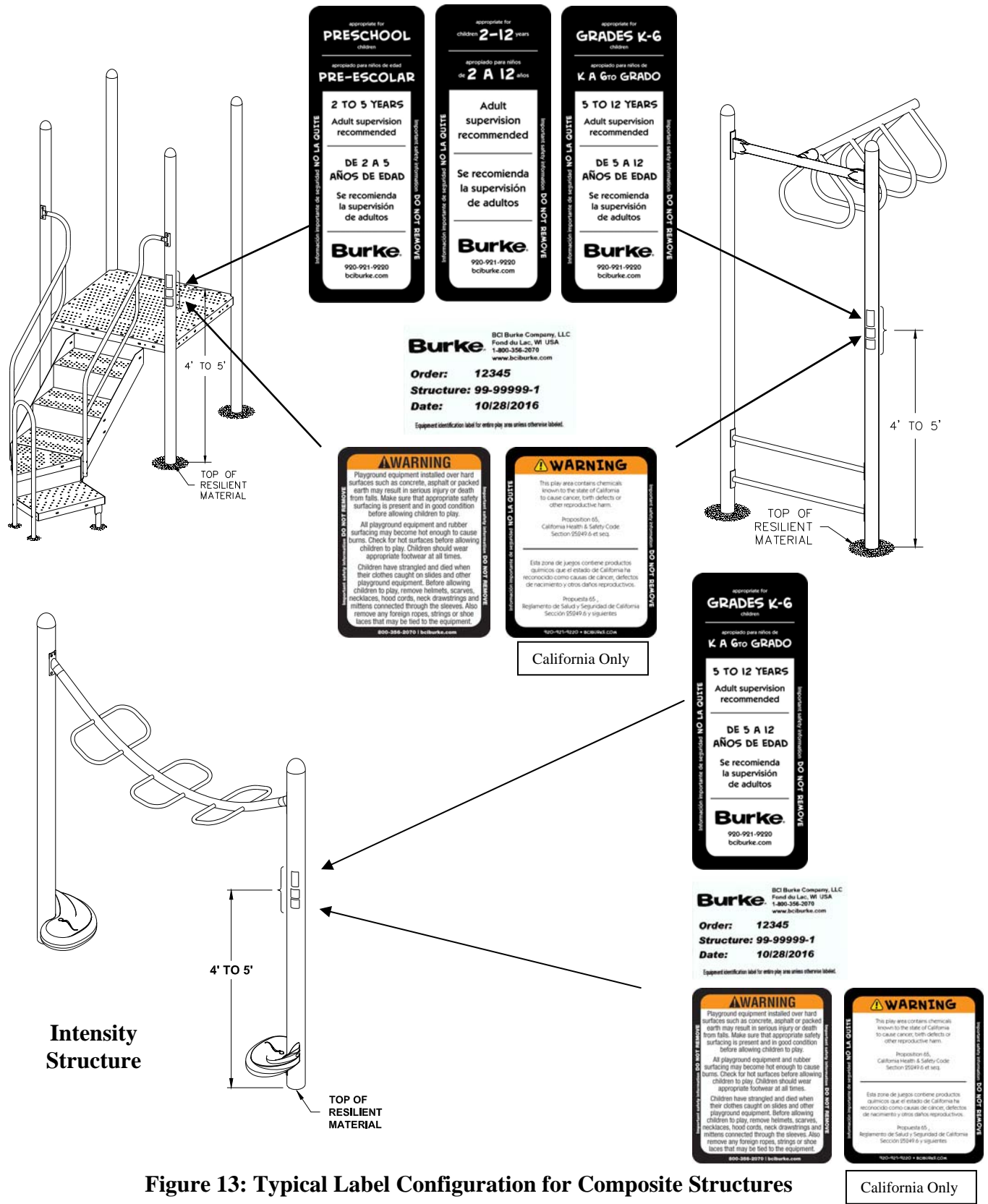


Figure 13: Typical Label Configuration for Composite Structures

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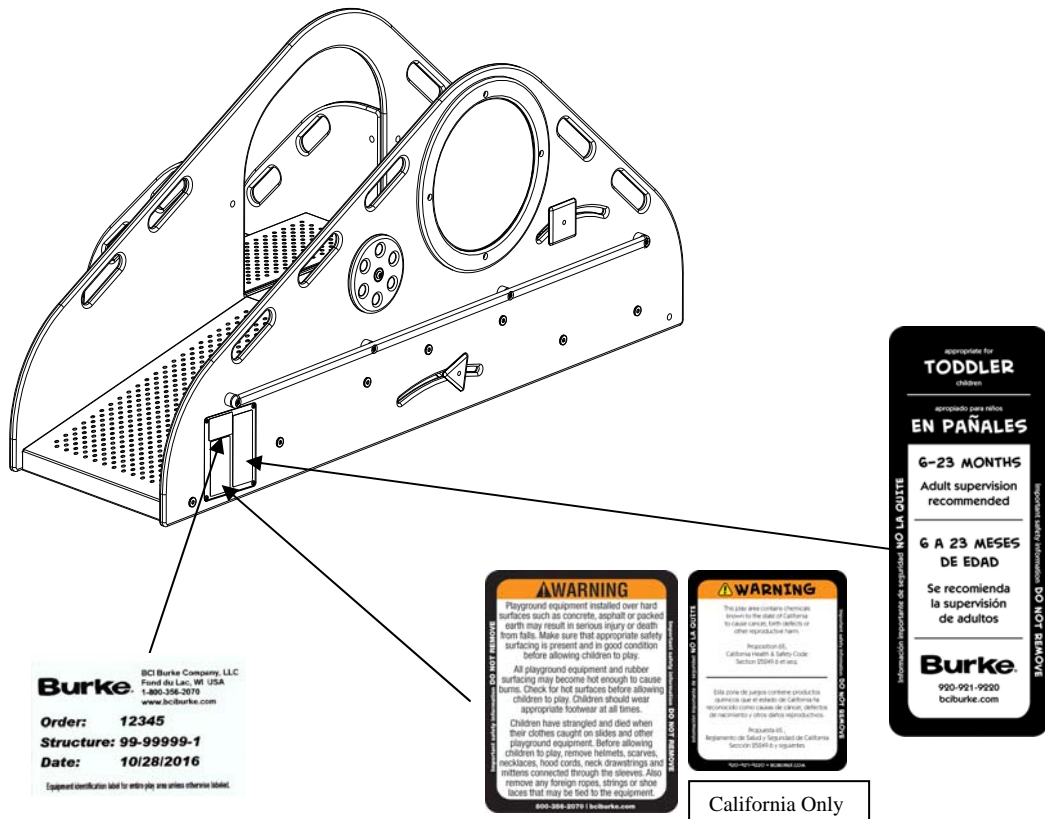


Figure 14: Typical Label Configuration for Composite Structures

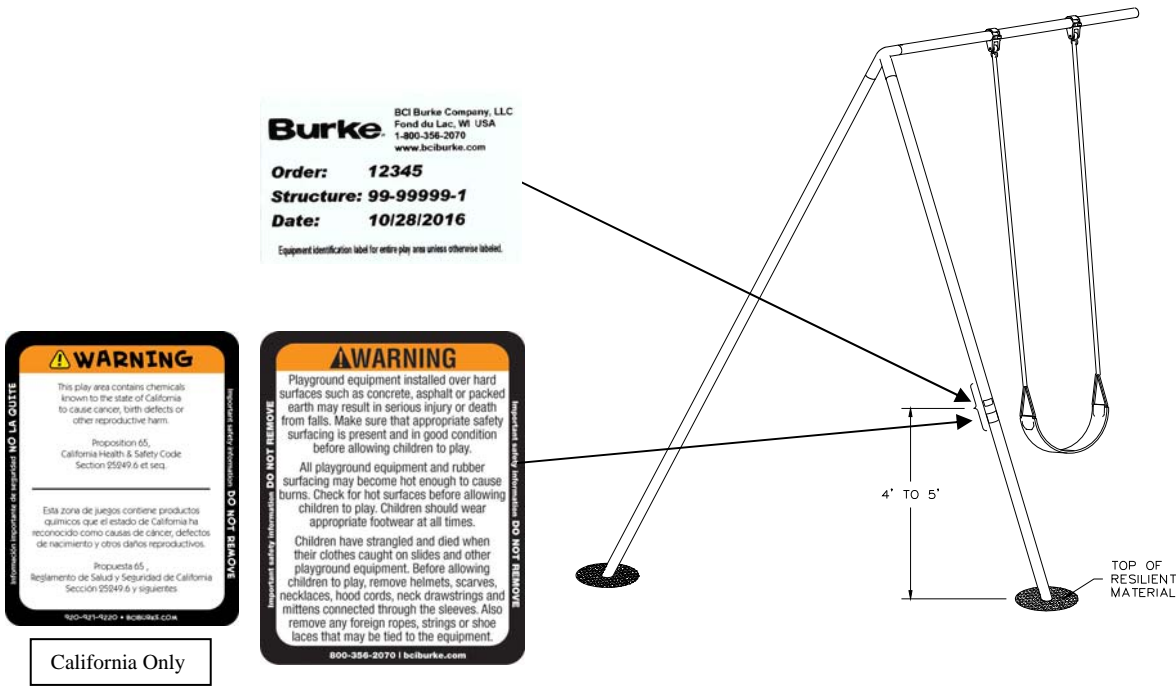


Figure 15: Typical Label Configuration for Non-Age Specific Equipment

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INSPECTION CHECKLIST

- Review all Playground Installation Guidelines, particularly checking for specified dimensions. Make sure actual installation dimensions agree with the ones in the instructions.
- Double check deck heights. The height of the deck or platform is measured from the top of the resilient surfacing material to the top of the platform.
 - Clean dried concrete off support posts and any other affected components
 - Review entire structure to insure that there are no completely bounded openings greater than 3 1/2" and less than 9". Completely bounded openings are openings that are enclosed on all sides.
 - Insure all post ends have properly installed post caps. Insure the drive rivets are secure.
 - Insure all fasteners are tightened according to specifications listed on your installation instructions.
 - Insure all "S" hooks are completely closed. An "S" hook is considered closed when there is no gap or space greater than .04" when measured with a feeler gauge, or the thickness of a dime.
- Check height of all upper body equipment, such as horizontal ladders. The height of these components should agree with dimensions as specified in Playground Installation Guidelines when measured from top of the resilient surfacing material.
 - Touch up any scratches or installation damage to powder coated finish with color-matched spray paint supplied with the equipment.
 - Touch up any exposed metal on coated parts following the instructions in the Maintenance section.
 - Check ropes of rope climbers for any installation damage such as cuts that may expose the steel reinforcement strands.
 - Insure proper use zone has been allowed for equipment. See Site Plan Drawing included in this manual to check dimensions of required zone.
 - Dispose of all packaging material properly. Recycle appropriate materials and keep items like plastic bags out of reach or contact of small children.
 - Insure all support post connections are permanently secured. Insure all drive rivets and/or spring pins have been installed. Review installation instructions for specific locations.

Inspected by: _____

Inspection Date: _____

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For questions, call us at:

1-800-356-2070

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MAINTENANCE

Poorly Maintained playground equipment and surface areas can contribute to serious injury. Develop a comprehensive maintenance program, which should include staff training, use of inspection checklists, prompt repair of discovered problems and detailed documentation. To obtain more information, contact the U. S. Consumer Product Safety Commission (CPSC), Washington, D. C. 20207 (1-800-638-2772) and request "A Handbook for Public Playground Safety" Revised 1997.

INSPECTIONS:

It is critical to maintaining the long life of your equipment and preventing injuries, to establish a routine maintenance program.

Once your Burke equipment has been installed and your Final Inspection Check completed, we recommend a complete inspection within seven (7) days after installation and on a regularly scheduled basis thereafter. *Playgrounds with heavy use or in coastal areas should be inspected daily.*

As a guideline, please see the **Frequency of General Maintenance** and **General Maintenance Checklist**, which provide charts with recommended frequency for inspections as well as suggested inspection areas of your play equipment.

Surfacing:

If you have loose surfacing materials, such as sand or wood chips, check for specified depth throughout the playground. Add new material as required.

If your safety surfacing is poured-in-place or a matting or tile, check for wear or damage.

If your playground is installed in atmospheric conditions of high salt content, i.e. near the ocean, the chance for corrosion is much more likely. Therefore, frequent checks are highly recommended.

Instructions for Inspection Checklist:

1. Determine what is to be inspected and how frequently.
2. Establish a regular pattern of inspection.
3. File Inspection Report with your permanent records.
4. If a replacement part is needed, contact your local representative.
5. If repairs are needed, list action taken and date to be filed in your permanent records.

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MAINTENANCE

PVC Coating Repair Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean the area in need of repair.
 - a. Remove any coating that is loose; trim coating with a knife if necessary.
 - b. If there is any rust, remove and clean thoroughly.
3. Once clean, take container of repair material and open the spout and squeeze out the material into the cleaned area in need of repair.
4. Take a putty knife or similar tool to spread the material evenly. It should be at the same level thickness as the original coating when complete.
5. Let dry for about 15 minutes and recheck. As the material dries, it shrinks - so you may need to add material repeating the same steps (3-4) mentioned above.
6. Once fully dry (1 full day to ensure proper cure), remove yellow tape, etc. that segregated the children from the area repaired. The children may be allowed to play again.

Touch-up Painting Instructions:

1. Segregate the area of the equipment (by yellow tape, fencing, etc.) from children, where the repair is located.
2. Clean area to be touched up by removing any loose paint or dirt particles and removing any rust with a light grit sand paper. Wipe area with clean cloth.
3. For best results, primer and touch up paint should be at room temperature. Avoid high heat and high humidity when applying the touch up paint. Shake can thoroughly to allow mixing ball to properly mix contents of the can.
4. **For structures in coastal areas:** Apply primer in *light* coats until area is covered. Allow primer to dry for 30 minutes (Primer is supplied with purchase of Burke Coastal Package).
5. **For structures in coastal areas:** Apply touch up paint in several light coats to cover the primed areas. Avoid drips and runs of the touch up paint for the best finish. Let dry for a minimum of 6 hours before use.

Special Notes:

1. Check Material Safety Data Sheet before starting to ensure safety.
2. Do not open container of repair material until ready to use.
3. As soon as you finish using the container with repair material, close it tightly immediately so it does not dry out.

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MAINTENANCE

ShadePlay Canopy Instructions

To clean shade canopy fabric use plain water to hose down the fabric and remove any debris. **DO NOT** use any type of detergent. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty.

CAUTION: The ShadePlay canopy must be removed from the play structure before inclement weather, severe wind storms or winter (snow) weather to prevent damage to the shade fabric or play structure.

To remove and later re-install the ShadePlay canopy, the quick release fastening mechanism will facilitate easy removal and re-installation.

To remove the ShadePlay canopy:

1. Remove end cap from end of tensioning rafter. See Figure 16.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at the pivot joint that secures the tensioning arm in the closed position. See Figure 16.
3. **DO NOT TRY TO REMOVE PIVOT PIN.** It is locked into position with a set-screw located on the top side of the rafter.
4. Carefully push up tensioning arm into the 'Open Position'. See Figure 17.

WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

5. Unhook shade canopy fabric, cable end(s) and/or turnbuckle from hook.
6. Carefully pull down tensioning arm into 'Closed Position' and install removed hardware securing end cap and tensioning arm in closed position.
7. Repeat steps 1 thru 6 as necessary for all tensioning rafters.
8. Fold or roll up ShadePlay canopy and store in dry safe location until ready to re-install.

To re-install the ShadePlay canopy:

1. Remove end cap from end of all rafters.
2. Remove lower 3/8" x 2" button head cap screw and 3/8" locknut at all the pivot joints that secure the tensioning arms in the closed position. See Figure 16.
3. Look to make sure pivot pin is in the pivot joint of all tensioning arms. See Figure 17.
4. Lay ShadePlay canopy over rafters and orientate it so that each tensioning arm has a canopy corner. See Figure 18.
5. Attach canopy to all rafters, with tensioning arms in open position attach the canopy corner, cable end and turnbuckle end onto hook.
6. Continue to tighten canopy by carefully pulling tensioning arms down into 'Closed Position'. If canopy is too tight to pull arm down, loosen turnbuckle tension a small amount. See Figure 18.

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WARNING: BE EXTREMELY CAREFUL WHEN PIVOTING TENSIONING ARM INTO OPEN OR CLOSED POSITION. TENSIONING ARM COULD SPRING UP DUE TO THE TENSION BEING APPLIED BY CANOPY CABLE SYSTEM AND COULD RESULT IN INJURY. KEEP HANDS AND FINGERS OUT FROM BETWEEN CANOPY AND ARM AND OUT OF PIVOT JOINT AREA.

7. After all tensioning arms are in 'Closed Position' look around canopy for major wrinkles in fabric. The majority of wrinkles can be removed by moving the tensioning arms back into the 'Open Position' and tightening each turnbuckle a small amount. Repeat this process, tightening the turnbuckles only a small amount each time until the major wrinkles are eliminated. Minor wrinkles will disappear with time in the environment and in the stretched state. Tighten all turnbuckles evenly to spread tension. See Figure 18.
8. When tightening canopy is complete, secure tensioning arms with 3/8" x 2" button head cap screws and 3/8" locknuts. Tighten all hardware on pivot joint. See Figure 16.
9. Install end caps to all rafter ends using 3/8" x 3/4" SS button head cap screw (without locking thread) and 3/8" SS flat washer. See Figure 16.

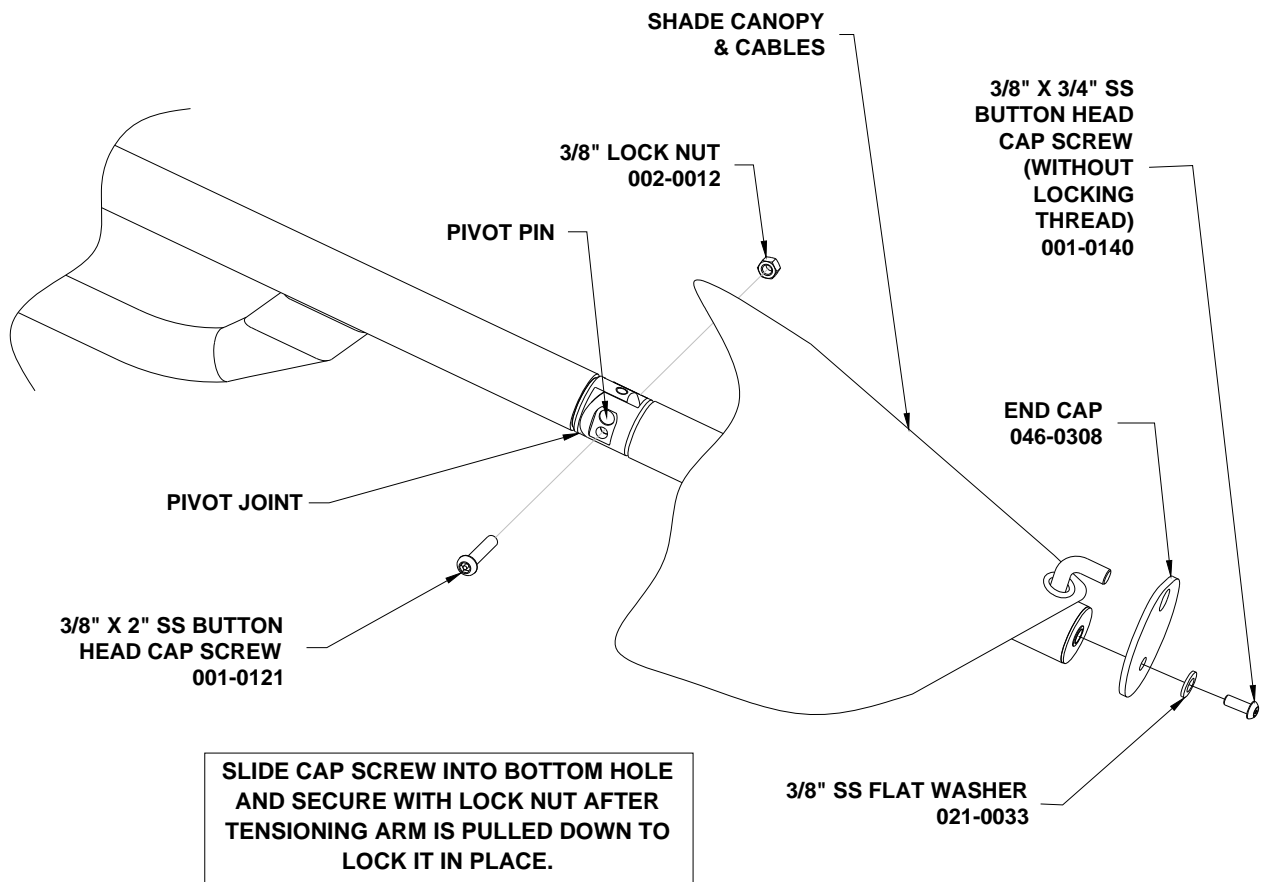


Figure 16: Tensioning Arm in 'Closed Position'

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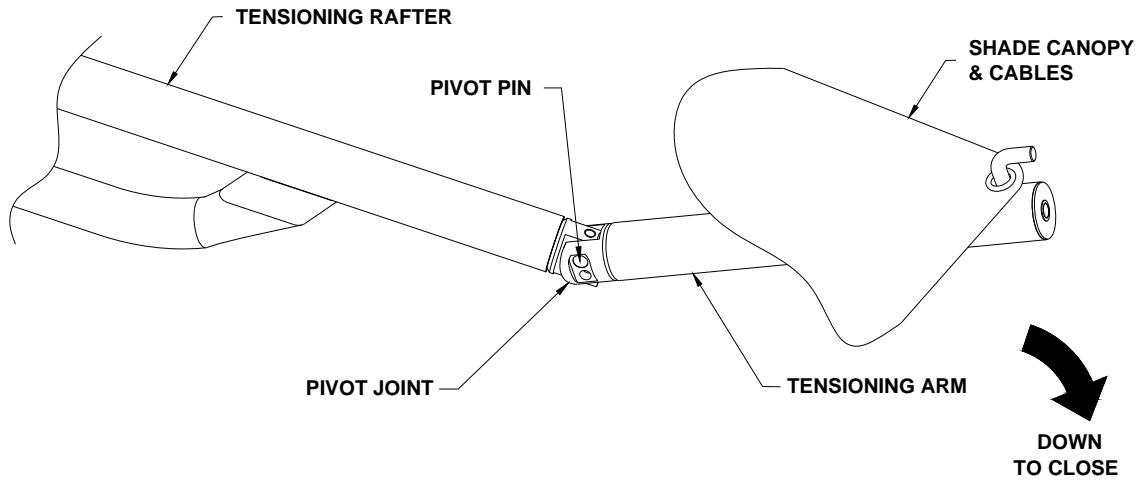


Figure 17: Tensioning Arm in 'Open Position'

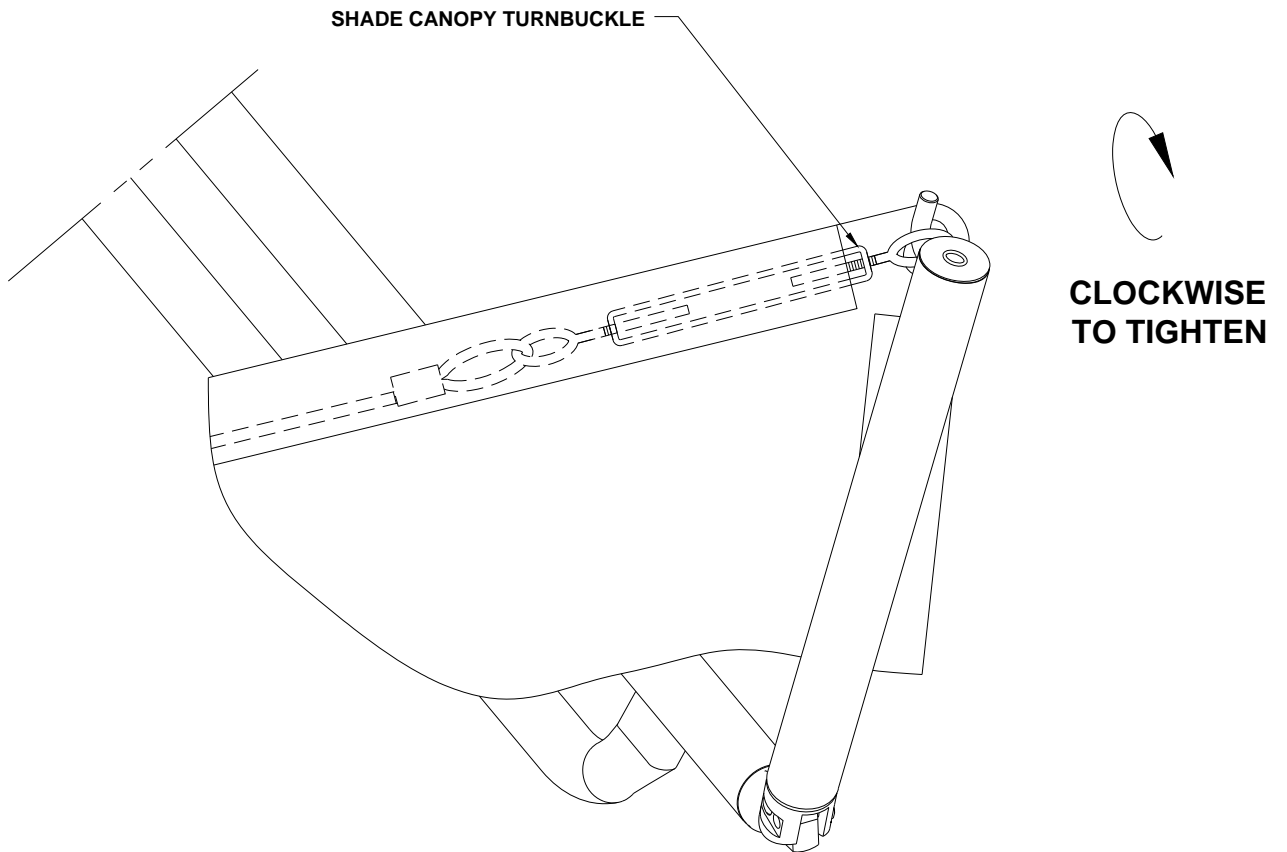


Figure 18: Tightening/Loosening Shade Canopy Turnbuckle

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MAINTENANCE

Sensory Panel Maintenance and Troubleshooting

Care and Maintenance

Please refer to the installation instructions for details on battery installation. Apart from replacing the batteries from time to time, the unit is virtually maintenance free and has no other user-serviceable parts. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

Cleaning

DO NOT use any chemicals or abrasive cleaners on the electronics control housing, sensors or speaker grill. Use a household hand pump water sprayer (the type you would water small household plants with) with a solution of water and a mild household detergent (the type you would use to clean your dishes) and gently spray the unit and wipe off with a soft damp cloth. DO NOT use a pressure washer or high powered hose to clean the unit.

Speaker Grill

Keep the speaker grill clean and clear of dirt and obstructions. The speaker itself is a marine grade external speaker and it will not get damaged by cleaning with water. DO NOT attempt to push anything through the speaker grill to clear any obstructions as this may damage the speaker membrane and/or reduce the water-resistance of the whole unit.

Troubleshooting Guide

Fault	Solution
Low or decreased volume	<ul style="list-style-type: none">• Ensure that the speaker grill is clear from obstruction. Volume is set at 75% during manufacture. If more volume is required, please seek advice from the manufacturer. Tampering with the electronic circuitry will void the warranty.
Not all the sensors are activating the sound replay	<ul style="list-style-type: none">• Check that the speaker and sensor connectors are securely seated.
Water or evidence of water inside the electronic housing	<ul style="list-style-type: none">• If water is found inside the housing please contact the manufacturer immediately.

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Fault	Solution
No sound or intermittent sound with older batteries	<ul style="list-style-type: none"> • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • Replace the batteries with high-quality alkaline batteries (i.e. Duracell Ultra or better).
No sound or intermittent sound with new batteries	<ul style="list-style-type: none"> • Allow at least five minutes for the batteries and unit to acclimatize to the environment. • Check that batteries are firmly seated between the terminals in the battery holder and are in the correct orientation. Check that the speaker and sensor connectors are securely seated. • Make certain that the sound chip on the printed circuit board has not been dislodged. If you suspect that it is dislodged, see the instructions below. • To eliminate the possibility of a faulty battery, replace the batteries with another set of high-quality alkaline batteries (i.e. Duracell Ultra or better). Again, allow at least five minutes for the batteries and unit to acclimatize to the environment.
The sound chip appears to be dislodged from its housing	<ul style="list-style-type: none"> • If ALL of the pins on the chip appear in or directly above the corresponding socket on the housing, a light and even pressure may be used to re-seat the chip. IMPORTANT – excessive or uneven pressure may cause the chip to be damaged. If in doubt, contact the manufacturer. • If the pins are not located in or directly above the corresponding housing socket, DO NOT attempt to use pressure to re-seat the chip. Contact the manufacturer for advice.
No sound or intermittent sound when all previous solutions have been exhausted	<ul style="list-style-type: none"> • The unit and its components have been designed to be easily swapped out by a skilled service technician. In the rare event of failure, please contact the manufacturer for assistance. Any attempt to tamper with the unit in any way other than advised in this guide will void the unit warranty.

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MAINTENANCE

Climbing Rope Maintenance

- A routine check per the Maintenance Checklist is very important.
- Address any issues **early!**
- Monitor wear versus mis-use / vandalism.
- Avoid sand as a resilient material.



Addressing Frayed/Cut Ropes

- Simple flaming technique with a handheld propane torch – approved by rope manufacturer. Contact your Burke Representative for Details.
- Swift, sweeping motion with handheld torch so as not to burn or scorch the rope.
- Monitor wear of rope **AFTER** flaming is done.
- When metal strands are very evident, rope should be purchased / replaced.

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MAINTENANCE

GFRC Maintenance

GFRC - Cleaning Methods

1. For smaller surface areas, a scrub brush and light cleaning detergent mixed with water is the best approach. A ZEP exterior siding cleaner can be heavily diluted and scrubbed on and off with the brush.
2. For larger areas, you can use a pressure washer. The pressure washer should be no greater than a 1500 PSI washer. Use a 25 to 40-degree wide nozzle to prevent surface damage of the topical paints on the theme finishes. Hold the nozzle a minimum of 2' away from the surface. Clean a small, hidden test area before starting the project to ensure the pressure washer will not damage the surface. Pressure washers generate very high pressure, so it's essential to take safety precautions and follow all the manufactures instructions when using them:
 - Use both hands when holding the spray nozzle.
 - Don't use pressure washers while standing on a ladder.
 - Wear protective eyewear at all times.
 - Never point the nozzle at anyone.
3. An alternative to using a pressure washer is to use a *home-washing kit* that attaches to the garden hose. The kits aren't as quick or as effective as pressure washers but are easier to use and are available at most local hardware stores.

GFRC - Cleaning

1. Cover or remove anything you don't want wet or washed from the area that is to be cleaned.
2. Check the theme finishes for trouble spots that are covered in mildew, mold or moss. To determine whether a trouble area is affected by mildew, apply a small amount of diluted household bleach to the area. If it clears up, the problem is mildew. Pressure washers usually don't remove mildew, so you'll need to clean those areas by hand. Scrub off the mildew using a solution of 9 parts water and 1 part bleach.
3. If using a power washer with a soap feed, you may use a mild solution of water and detergent, or you may also use a ZEP cleaner or alternative that is specifically for power washers, following the instructions for that specific cleaner.
4. If there is indication of efflorescence on the GFRC surface, this can be cleaned with a 10% muriatic acid solution.
5. Remember, always perform cleaning on test area and inspect for damage before proceeding.
6. Begin spraying the surface, holding the nozzle at a 45-degree angle. Work from the bottom up, and move across the surface from side to side at a steady pace, maintaining the 2' distance between the surface and the nozzle head.
7. Rinse with clean water from the top down to prevent streaks.

GFRC - Repairing

1. Minor scuff marks can be painted with the touch up repair kit provided. Multiple colors are provided in order to blend in with the original theme and markings.
2. If damage requires patching, a standard water plug kit for concrete repair can be purchased at any local hardware store. Follow the instructions for repair, making sure to create a similar surface texture of rock or tree bark in the concrete while it is still wet.
3. Once concrete patch is dry it can be painted with the touch up repair kit provided.

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MAINTENANCE

ZipVenture Maintenance and Inspection

ZipVenture products should be inspected and maintained as specified for all playground equipment. The following are additional maintenance and inspection procedures specific to the ZipVenture products.

Tools Required:

1. 8-ft step ladder
2. Ratchet wrench with Burke security bits
3. 9/16" & 3/4" sockets for ratchet wrench
4. Torque wrench
5. 50-lb weight with means of attaching to trolley seat (Burke recommends a sand bag and nylon webbing strap)

Maintenance and Inspection Points:

1. Visually inspect entire structure for:
 - a. Loose, frayed, or tangled wires from wire rope
 - b. Broken springs at either end of cable
 - c. Loose spring brake parts (springs should be affixed to the cable at one end and not able to slide away)
 - d. Screws missing from spring brake parts
2. Move trolley to 20 feet from arrival (low) end of ride. Measure from the loop at the end of the wire rope. Holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 13 to 15 inches. If not, the tension in the wire rope will need to be adjusted. Make sure resilient material is maintained to the proper level and is consistent each time you are measuring.
3. Attach 50-lb weight to seat of trolley. With the trolley in the same 20 feet from arrival end position, and holding seat level, measure distance from top of resilient material to bottom of seat. This should be in the range of 11 to 13 inches. If not, the tension in the wire rope will need to be adjusted. Make sure the resilient material is maintained to the proper level and is consistent each time you are measuring.
4. Check tightness of fasteners. Wire rope clips should be tightened to 45 ft-lb torque.
5. Use ladder to inspect wire rope at center, both ends and also under the springs. As you inspect the wire rope, note that a strand is a group of wires twisted together, and multiple strands are then twisted around a central core to form the wire rope or cable. You should inspect the individual wires and the strands for any broken wires or excessive wear. If there are any broken wires, strands out of place or excessive wear, the cable should be replaced.
6. At the ends of the cable, there is a thimble inside the loop for reinforcement. If the thimble or the swaged fitting at the launch end of the cable is cracked, split, or broken, that piece or the entire cable (in the case of the swaged end) shall be replaced.
7. Using the ladder, remove the outer covers from the trolley. Remove the nuts from the bolts that hold the trolley case together and remove one side of the case. Roll the trolley back and forth a few inches on the rope and observe the pulleys. If a pulley does any of the following, replace both pulleys:
 - a. Fails to roll and slides along the rope,
 - b. Has its inner race rotate with the outer part of the pulley,

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- c. Makes a clicking noise, or
 - d. Wobbles (make sure it is the pulley, not the mounting bolt moving)
8. Inspect the sliders which cover the holes where the rope enters and exits the trolley. If they are broken or worn to less than 3/32" (.094) thick at any point then replace all of the sliders.
 9. Inspect the pendulum and bronze bearing attached to the trolley which support the seat chain. If the bronze bearing is excessively worn (oblong hole, split or cracked) or missing then replace the bearing.
 10. Reassemble trolley and replace the covers. Make sure to apply Loctite when reattaching the hardware.
 11. Check the link at the launch end and the turnbuckle at the arrival end. Both should move freely up and down, left and right. If not then the spherical bearings should be replaced.
 12. Check the spring assemblies at both ends. Look for broken or bent springs, damage to the plastic parts that secure the springs, missing set screws, and wear of the rubber bumpers. Replace any parts that need it.

Note: All bearings are lubricated for life. If a bearing is worn out then it must be replaced.

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MAINTENANCE

Frequency of General Maintenance

How Often	Check	Swings	Slides	Climbers	Structures	Animals	Whirls
Daily	Open S Hooks	X		X	X		
Daily	Broken Anchor Bolts	X	X	X	X	X	X
Daily	Worn Chains	X		X	X		
Daily	Broken Guardrails/Handrails	X	X	X	X	X	X
Daily	Sharp Edges	X	X	X	X	X	X
Daily	Loose or Missing Nuts/Bolts	X	X	X	X	X	X
Daily	Sharp Points/Protrusions	X	X	X	X	X	X
Daily	Unplugged Holes in Pipe	X	X	X	X	X	X
Daily/Weekly	Broken Welds	X	X	X	X	X	X
Daily/Weekly	Inadequate Surfacing	X	X	X	X	X	X
Daily/Weekly	Ropes for cuts or fraying with exposed steel reinforcement strands			X	X		
Daily/Weekly	Vandalized or Cracked PVC Coating	X		X	X		
Weekly	Worn Pinions/Clevises	X		X	X		
Weekly	Exposed Footings	X	X	X	X	X	X
Weekly	Worn Bearings	X			X		X
Weekly	Rust of Metal	X	X	X	X	X	X
Weekly	Corrosion of Aluminum	X	X	X	X	X	X
Monthly	Add grease lubrication to wheel bearings	X			X		X
Monthly	Play Mat (integrity and adhesion to surface if applicable)	X	X	X	X	X	X
Spring/Fall	Pinch Points	X	X	X	X	X	X
Inclement Weather (High winds, Snow)	Remove Shade Canopy				X		

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MAINTENANCE

General Maintenance Checklist

Date																			
Visible cracks, bending, warping																			
Accessible sharp edges or points																			
Rusted metal surfaces																			
Rusting of metal and corrosion on aluminum																			
Deformation of open hooks, rings, links, etc.																			
Worn swing hangers and chain																			
Missing or damaged swing seats																			
Heavy swing seats with sharp corners or edges																			
Broken supports/anchors																			
Jagged, exposed or cracked and loose concrete footing																			
Inadequate surfacing material under equipment																			
Exposed ends of pipe. Missing caps or plugs																			
Protruding bolt ends																			
Chipped or peeling paint																			
Cuts or fraying in rope with exposed steel reinforcement strands																			
Vandalism, broken glass, trash, etc.																			
Broken or missing rails, steps, rungs, seats																			
Loose or missing hardware																			
Pinch or crush points																			
Moving components, etc.																			
Lack of lubrication on moving parts																			
Worn bearings																			
Poor drainage areas at footings, slide exits, etc																			
Vandalized or cracked PVC coating																			

Directions:

1. Start by reading instructions
2. Write in date of inspection
3. Check each item of inspection as it applies to your equipment
4. Make copy and file with your permanent records

SUGGESTED PUBLIC PLAYGROUND LEADERS CHECKLIST

- Prepare written guidelines for playground operation, defining goals and procedures.
- Provide for constant supervision by establishing a written schedule.
- Conduct daily cleaning and check for broken glass and other litter.
- Do not permit children to use wet or damaged equipment.
- Constantly observe play patterns to note possible hazards and suggest appropriate equipment or usage changes.
- Prepare written accident reports with special attention to surface conditions, type and extent of injury, age and sex of child, how the accident occurred, and weather conditions.
- Insist on first aid and accident training for playground leaders.
- Instruct children and playground supervisors on how to use equipment. (Playground equipment safety should be taught in the classroom.)
- Do not permit too many children on the same piece of equipment at the same time; suggest that children take turns, or direct their attention toward other equipment or activities.
- Make periodic checkups and request that worn or damaged pieces of equipment be replaced.

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For questions, call us at:

1-800-356-2070

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BCI Burke Generations Warranty[®]

The Longest and Strongest warranty in the industry

BCI Burke Company, LLC (“Burke”) warrants that all standard products are warranted to be free from defects in materials and workmanship, under normal use and service, for a period of one (1) year from the date of invoice.

We stand behind our products.

In addition, the following products are warranted, under normal use and service from the date of invoice as follows:

- **One Hundred (100) Year Limited Warranty** on aluminum and steel upright posts (including Intensity[®], Voltage[®], Nucleus[®] and Little Buddies[®]) against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on KoreKonnnect[®] clamps against structural failure due to corrosion, deterioration or workmanship.
- **One Hundred (100) Year Limited Warranty** on Hardware (nuts, bolts, washers).
- **One Hundred (100) Year Limited Warranty** on bolt-through fastening and clamp systems (Voltage[®], Intensity[®], Nucleus[®] and Little Buddies[®]).
- **Twenty-Five (25) Year Limited Warranty** on spring assemblies and aluminum cast animals.
- **Fifteen (15) Year Limited Warranty** on main structure platforms and decks, metal roofs, table tops, bench tops, railings, loops and rungs.
- **Fifteen (15) Year Limited Warranty** on all plastic components including StoneBorders against structural failure due to materials or workmanship.
- **Ten (10) Year Limited Warranty** on ShadePlay Canopies fabric, threads, and cables against degradation, cracking or material breakdown resulting from ultra-violet exposure, natural deterioration or manufacturing defects. This warranty is limited to the design loads as stated in the specifications.
- **Ten (10) Year Limited Warranty** on NaturePlay[®] Boulders and GFRC products against structural failure due to natural deterioration or workmanship. Natural wear, which may occur with any concrete product with age, is excluded from this warranty.
- **Ten (10) Year Limited Warranty** on Full Color Custom Signage against manufacturing defects that cause delamination or degradation of the sign. Full Color Custom Signs also carry a two (2) year warranty against premature fading of the print and graphics on the signs.
- **Five (5) Year Limited Warranty** on Intensity[®] and RopeVenture[™] cables against premature wear due to natural deterioration or manufacturing defects. Determination of premature wear will be at the manufacturer’s discretion.
- **Five (5) Year Limited Warranty** on swing seats and hangers; Kid Koaster[®] Trolleys and other moving parts against structural failure due to materials or workmanship.
- **Three (3) Year Limited Warranty** on electronic panel speakers, sound chips and circuit boards against electronic failure caused by manufacturing defects.

The warranty stated above is valid only if the equipment is erected in conformity with the layout plan and/or installation instructions furnished by BCI Burke Company, LLC using approved parts; have been maintained and inspected in accordance with BCI Burke Company, LLC instructions. Burke’s liability and your exclusive remedy hereunder will be limited to repair or replacement of those parts found in Burke’s reasonable judgment to be defective. Any claim made within the above stated

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warranty periods must be made promptly after discovery of the defect. A part is covered only for the original warranty period of the applicable part. Replacement parts carry the applicable warranty from the date of shipment of the replacement from Burke. After the expiration of the warranty period, you must pay for all parts, transportation and service charges.

Burke reserves the right to accept or reject any claim in whole or in part. Burke will not accept the return of any product without its prior written approval. Burke will assume transportation charges for shipment of the returned product if it is returned in strict compliance with Burke's written instructions.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IF THE FOREGOING DISCLAIMER OF ADDITIONAL WARRANTIES IS NOT GIVEN FULL FORCE AND EFFECT, ANY RESULTING ADDITIONAL WARRANTY SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTIES AND BE OTHERWISE SUBJECT TO AND LIMITED BY THE TERMS OF BURKE'S PRODUCT WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Warranty Exclusions: The above stated warranties do not cover: "cosmetic" defects, such as scratches, dents, marring, or fading; damage due to incorrect installation, vandalism, misuse, accident, wear and tear from normal use, exposure to extreme weather; immersion in salt or chlorine water, unauthorized repair or modification, abnormal use, lack of maintenance, or other cause not within Burke's control; and

Limitation of Remedies: Burke is not liable for consequential or incidental damages, including but not limited to labor costs or lost profits resulting from the use of or inability to use the products or from the products being incorporated in or becoming a component of any other product. If, after a reasonable number of repeated efforts, Burke is unable to repair or replace a defective or nonconforming product, Burke shall have the option to accept return of the product, or part thereof, if such does not substantially impair its value, and return the purchase price as the buyer's entire and exclusive remedy. Without limiting the generality of the foregoing, Burke will not be responsible for labor costs involved in the removal of products or the installation of replacement products. Some states do not allow the exclusion of incidental damages, so the above exclusion may not apply to you.

Terms of Sale

Pricing: Prices published in this catalog are in USD, are approximate and do not include shipping & handling, surfacing, installation nor applicable taxes.

All prices are subject to change without notice. Contact your Burke representative for current pricing. Payments are to be made in USD.

Weights: Weights are approximate and may vary with actual orders.

Installation: All equipment is shipped unassembled. For a list of factory-certified installers in your area, please contact your Burke representative.

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Specifications: Product specifications in this catalog were correct at the time of publication. However, product improvements are ongoing at Burke, and we reserve the right to change or discontinue specifications without notice.

Loss or Damage in Transit: A signed bill of lading is our receipt from a carrier that our shipment to you was complete and in good condition upon arrival. Before you sign, please check the Bill of Lading carefully when the shipment arrives to make sure nothing is missing and there are no damages. Once the shipment leaves our plant, we are no longer responsible for any damage, loss or shortage.

For more information regarding the warranty, call Customer Service at 920-921-9220 or 1-800-356-2070.

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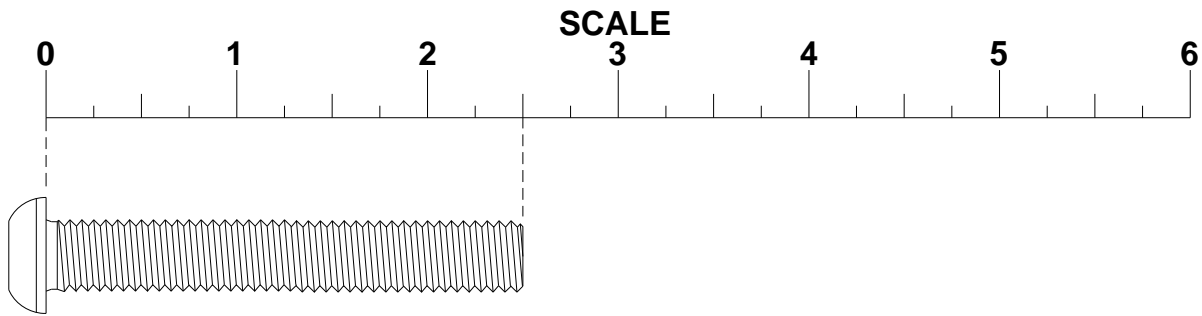
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APPENDIX

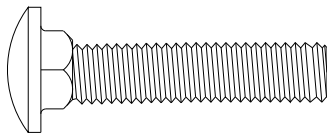
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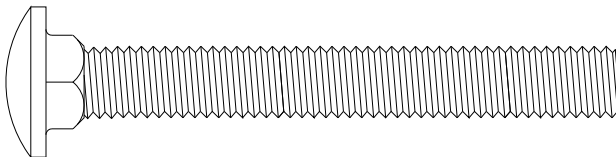


- 001-0116 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW
- 001-0117 - 3/8" X 1" SS BUTTON HEAD CAP SCREW
- 001-0118 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW
- 001-0119 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW
- 001-0120 - 3/8" X 1 3/4" SS BUTTON HEAD CAP SCREW
- 001-0121 - 3/8" X 2" SS BUTTON HEAD CAP SCREW
- 001-0122 - 3/8" X 2 1/4" SS BUTTON HEAD CAP SCREW
- 001-0123 - 3/8" X 2 1/2" SS BUTTON HEAD CAP SCREW
- 001-0140 - 3/8" X 3/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0143 - 3/8" X 1/2" SS BUTTON HEAD CAP SCREW
- 001-0152 - 3/8" X 1 1/4" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0153 - 3/8" X 1 1/2" SS BUTTON HEAD CAP SCREW W/OUT LOCKING THREAD
- 001-0185 - 3/8" X 1" SS BHCS W/O LOCKING THREAD
- 001-0165 - 3/8" X 3/8" SS BUTTON HEAD CAP SCREW



001-0083 - 1/4" X 1 1/4" CARRIAGE BOLT

- 001-0010 - 5/16" X 3/4" CARRIAGE BOLT
- 001-0163 - 5/16" X 1 1/2" CARRIAGE BOLT
- 001-0074 - 5/16" X 4 1/4" CARRIAGE BOLT
- 001-0082 - 5/16" X 2 3/4" CARRIAGE BOLT
- 001-0080 - 5/16" X 2" CARRIAGE BOLT
- 001-0077 - 5/16" X 1 1/4" CARRIAGE BOLT
- 001-0081 - 5/16" X 2 1/4" CARRIAGE BOLT



- 001-0018 - 3/8" X 3/4" CARRIAGE BOLT
- 001-0048 - 3/8" X 2 3/4" CARRIAGE BOLT
- 001-0098 - 3/8" X 3" CARRIAGE BOLT
- 001-0053 - 3/8" X 2 1/4" CARRIAGE BOLT
- 001-0039 - 3/8" X 2" CARRIAGE BOLT
- 001-0054 - 3/8" X 2 1/2" CARRIAGE BOLT
- 001-0068 - 3/8" X 1 1/4" CARRIAGE BOLT

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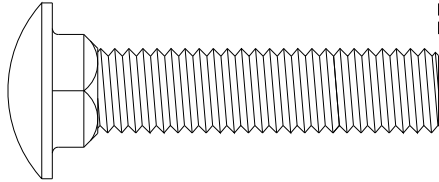
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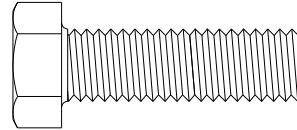
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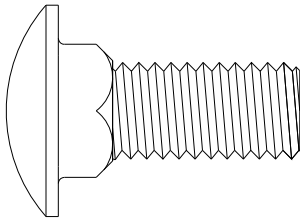
001-0137 - 1/4"-28 UNF X 5/8" ZC HEX HEAD CAP SCREW



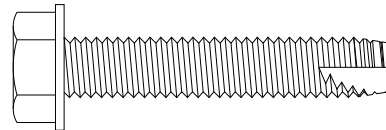
001-0025 - 5/16" X 1" HEX HEAD BOLT
 001-0147 - 5/16" X 1" SS HEX HEAD BOLT
 001-0146 - 5/16" X 1 1/4" SS HEX HEAD BOLT
 001-0184 - 5/16" X 1 3/4" SS HEX HEAD BOLT



001-0050 - 7/16" X 2" CARRIAGE BOLT
 001-0066 - 7/16" X 3" CARRIAGE BOLT
 001-0055 - 7/16" X 2 1/4" CARRIAGE BOLT
 001-0097 - 7/16" X 6 1/2" CARRIAGE BOLT

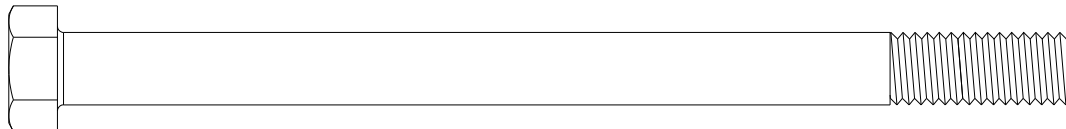


001-0056 - 3/8" X 1 1/4" HEX HEAD CAP SCREW
 001-0058 - 3/8" X 1" HEX HEAD CAP SCREW
 001-0087 - 3/8" X 1 1/2" HEX HEAD CAP



001-0141 - 1/2" X 1 1/4" CARRIAGE BOLT

001-0135 - 5/16" X 1 1/2" SELF TAPPING SCREW



001-0023 - 3/8" X 2 3/4" HEX HEAD CAP SCREW
 001-0046 - 3/8" X 4 1/2" HEX HEAD CAP SCREW
 001-0072 - 3/8" X 2" HEX HEAD CAP SCREW
 001-0073 - 3/8" X 3 3/4" HEX HEAD CAP SCREW
 001-0134 - 3/8" X 3 1/2" HEX HEAD CAP SCREW
 001-0076 - 3/8" X 3 1/4" HEX HEAD CAP SCREW
 001-0084 - 3/8" X 2 1/4" HEX HEAD CAP SCREW
 001-0089 - 3/8" X 3" HEX HEAD CAP SCREW
 001-0090 - 3/8" X 5" HEX HEAD CAP SCREW
 001-0101 - 3/8" X 4" HEX HEAD CAP SCREW

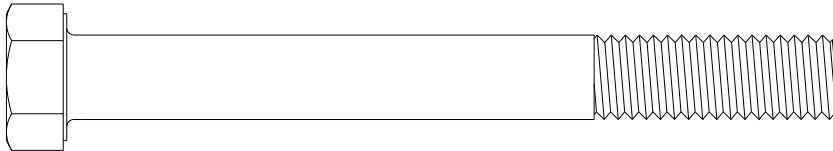
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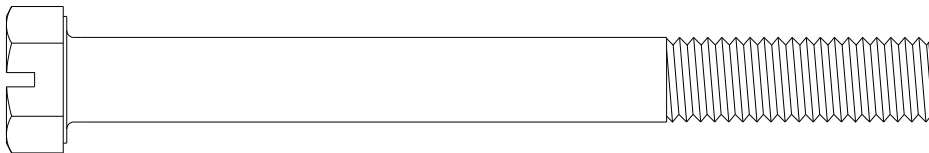
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SCALE



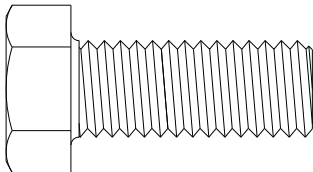
001-0096 - 7/16" X 3 1/2" HEX HEAD CAP SCREW
001-0132 - 7/16" X 4" HEX HEAD CAP SCREW

001-0062 - 7/16" X 1 1/4" HEX HEAD CAP SCREW
001-0049 - 7/16" X 4 1/2" HEX HEAD CAP SCREW

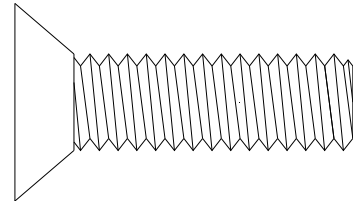


001-0037 - 7/16" X 3" HEX HEAD CAP SCREW - SLOTTED
001-0047 - 7/16" X 4 1/2" HEX HEAD CAP SCREW - SLOTTED

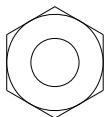
001-0186 - 3/8" X 1 1/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



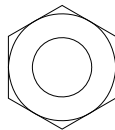
001-0099 - 1/2" X 4 1/2" HEX HEAD CAP SCREW
001-0057 - 1/2" X 1 1/4" HEX HEAD CAP SCREW
001-0160 - 1/2" X 1 1/4" HEX HEAD CAP SCREW - GRADE 8
001-0170 - 1/2" X 5" FULLY THREADED HEX HEAD SCREW



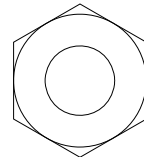
001-0139 - 1/2" X 1 3/4" SS FLAT COUNTERSUNK HEAD CAP SCREW



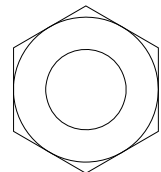
002-0003 - 5/16" LOCK NUT



002-0012 - 3/8" LOCK NUT
002-0018 - 3/8" NUT
002-0036 - 3/8" SS NUT



002-0005 - 7/16" LOCK NUT



002-0004 - 1/2" LOCK NUT
002-0049 - 1/2" SS LOCK NUT

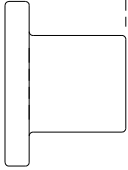
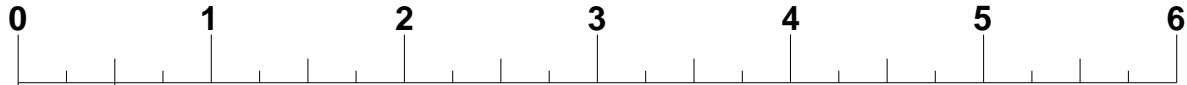
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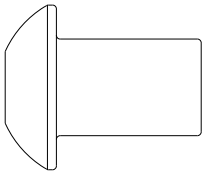
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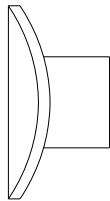
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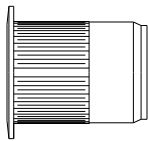
002-0053 - 3/8" X 1/2" SS SOCKET HEAD BARREL NUT
002-0063 - 3/8" X 3/8" SS SOCKET HEAD BARREL NUT



002-0062 - 3/8" X 3/4" SS SOCKET HEAD BARREL NUT



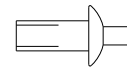
002-0040 - 3/8" SS T-NUT FORMED
002-0028 - 1/4" T-NUT



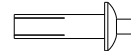
002-0042 - 3/8" NUT INSERT



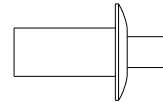
019-0002 - 3/16" X 7/8" DRIVE RIVET
019-0004 - 3/16" X 1 5/32" RIVET



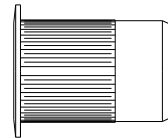
019-0010 - 5/32" X 3/8" DRIVE RIVET



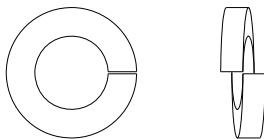
019-0016 - 1/8" X 15/32" DRIVE RIVET



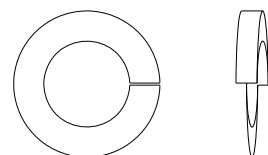
019-0020 - 1/4" X 1/2" DRIVE RIVET
019-0009 - 1/4" X 3/4" DRIVE RIVET



002-0061 - 3/8" NUT INSERT (7 GA GRIP)



021-0022 - 3/8" LOCK WASHER



021-0027 - 7/16" LOCK WASHER

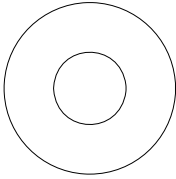
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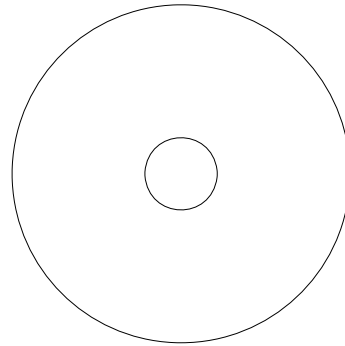
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BCI BURKE HARDWARE

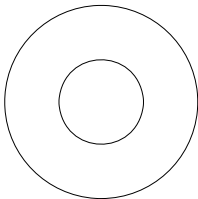
SCALE



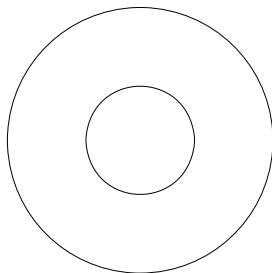
021-0032 - 5/16" SS FLAT WASHER
021-0028 - 5/16" FLAT WASHER



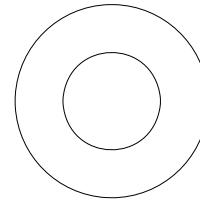
021-0012 - 3/8" X 1 3/4" WASHER
021-0001 - 1 3/4" OD X 13/16" ID X 3/32" WASHER



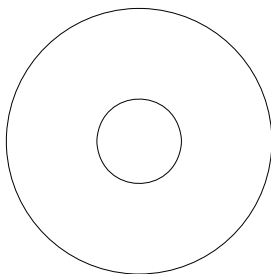
021-0033 - 3/8" SS FLAT WASHER
021-0029 - 3/8" FLAT WASHER



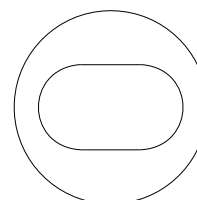
021-0025 - 1/2" FLAT WASHER
021-0034 - 1/2" SS FLAT WASHER



021-0042 - WASHER, NYLON, 1/2" ID X 1" OD X .125 THK



021-0008 - 1 3/8" OD WASHER



021-0019 - 3/8" X 1" OD SLOTTED WASHER

BCI Burke Company, LLC

660 Van Dyne Road • P.O. Box 549 • Fond du Lac, WI 54936-0549 • (920) 921-9220 • 1-800-356-2070 • Fax (920) 921-9566

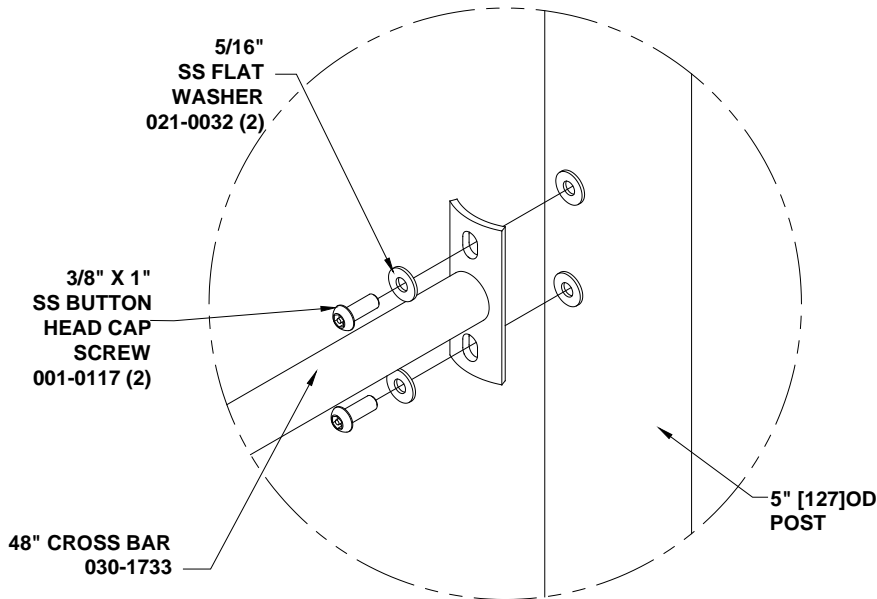
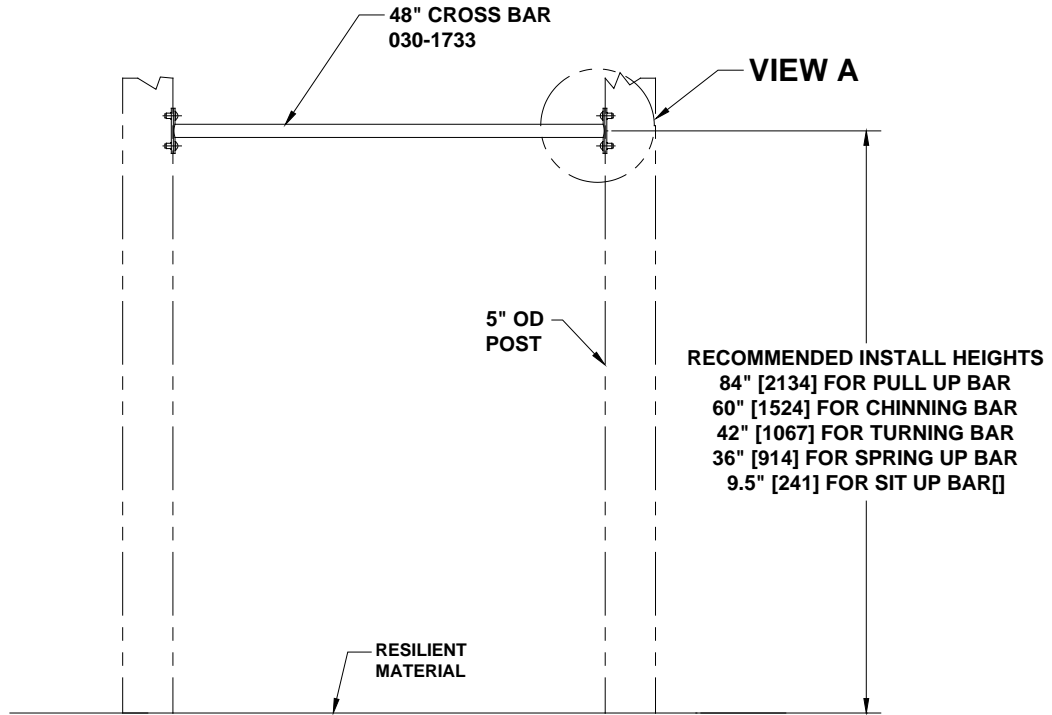
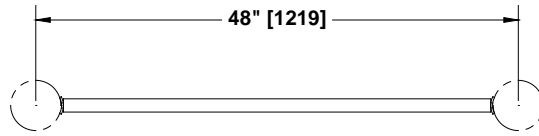
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Installation Instructions

BCI Burke Company, LLC

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VIEW A
(2 PLACES)

370-0491 48" CROSS BAR

PARTS LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
030-1733	48" CROSS BAR	1
036-0258	HARDWARE PACKAGE	2

Note: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

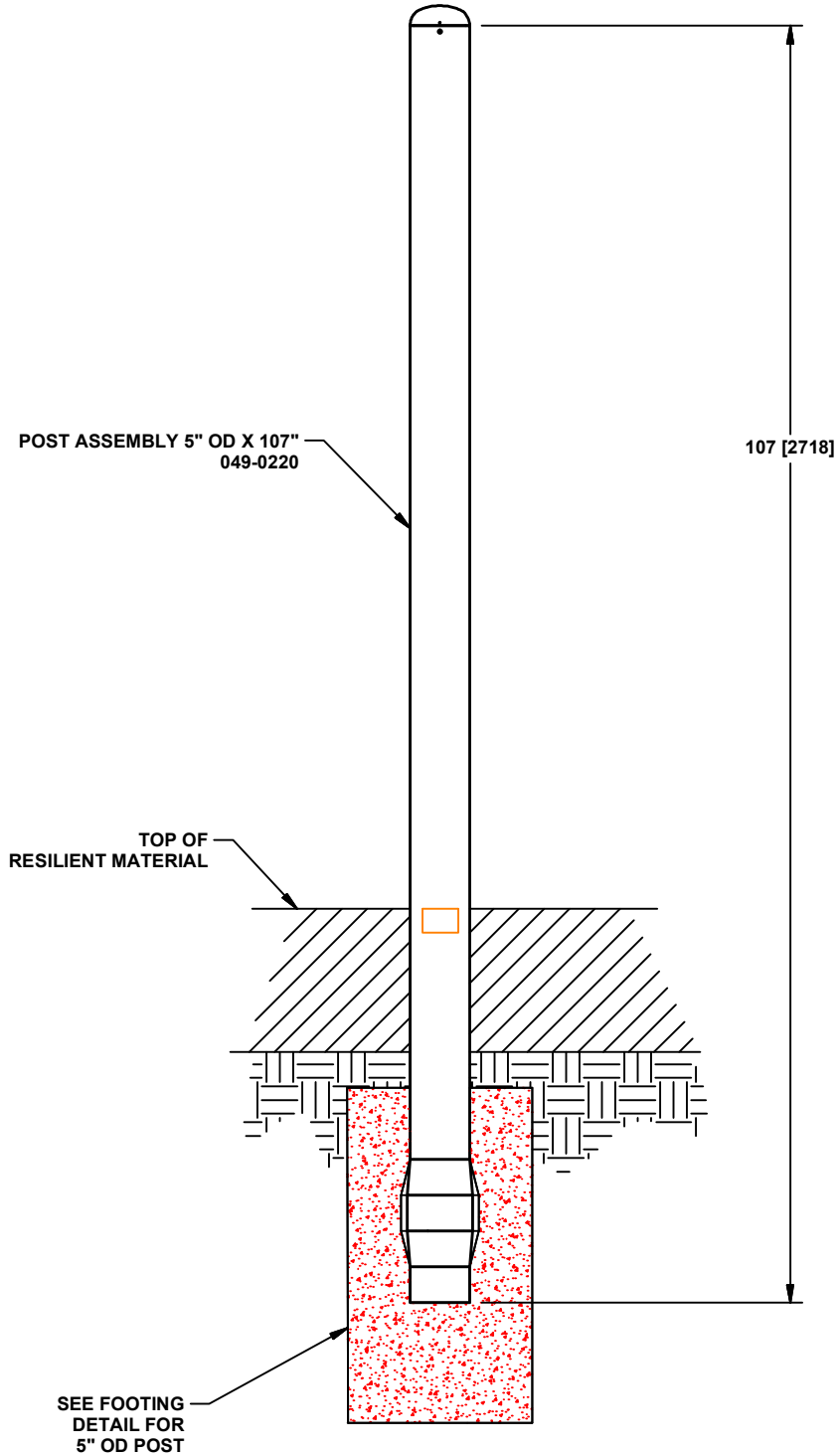
48" CROSS BAR : One piece all welded construction consisting of 1.315" OD, 14 GA galvanized steel tubing and 7 GA stainless steel plate. Finished with a baked on powder coating.

HARDWARE PACKAGE: Stainless steel.

SHIPPING WEIGHT: 5 LBS.

INSTALLATION INSTRUCTIONS

1. Attach CROSS BAR to 5" OD posts using 3/8" x 1" button head cap screws and 5/16" washers. See View A.
2. TIGHTEN SCREWS.
3. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0002 POST ASSEMBLY 5" OD X 107"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0220	POST ASSEMBLY 5" OD X 107"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

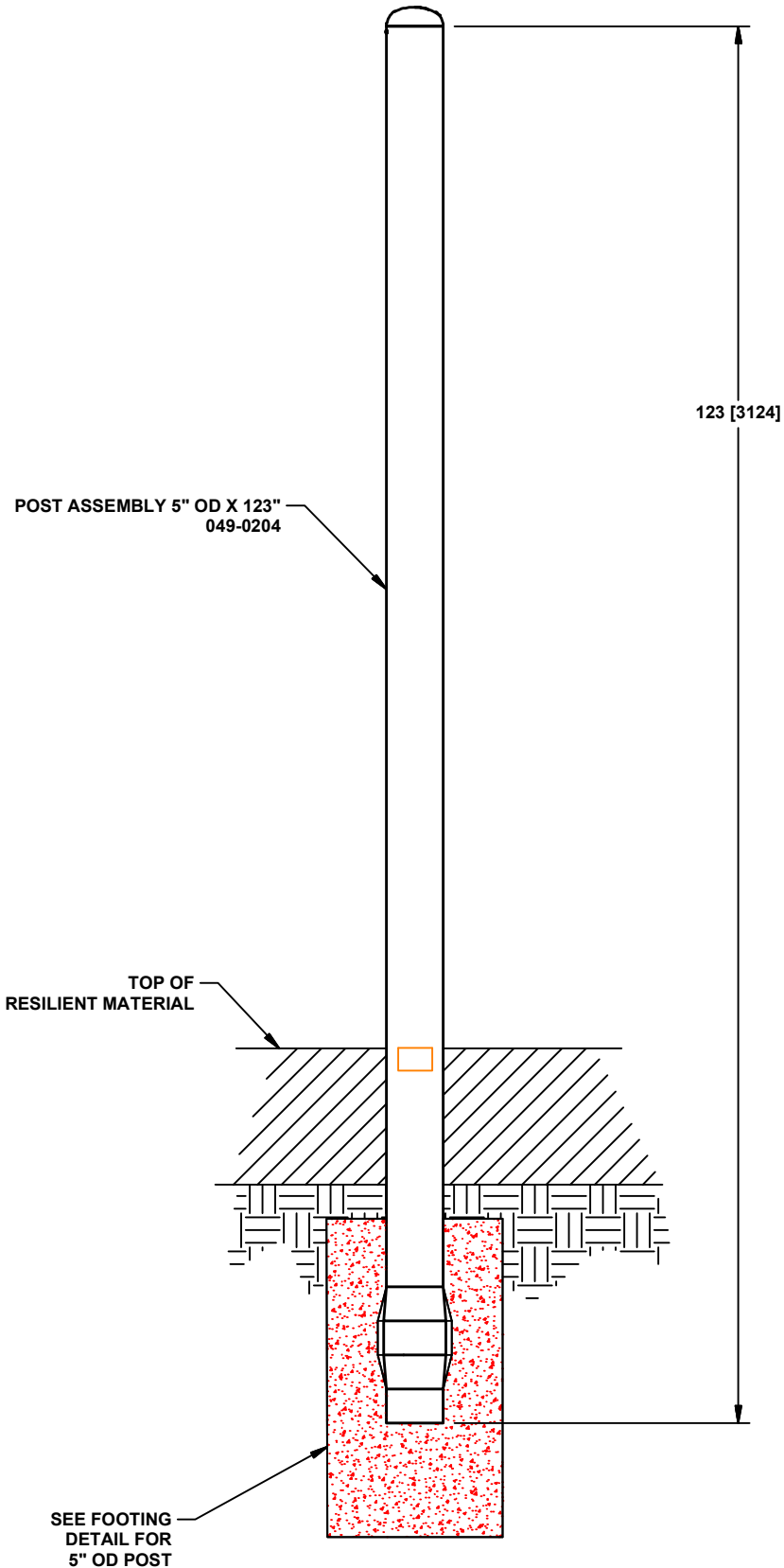
SPECIFICATIONS

POST ASSEMBLY 5" OD X 107": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 57 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**



670-0165 POST ASSEMBLY 5" OD X 123"

PARTS LIST

PART NO.	DESCRIPTION	QTY
049-0204	POST ASSEMBLY 5" OD X 123"	1

NOTE: Hardware package(s) may include extra hardware that is not necessary for this installation.

SPECIFICATIONS

POST ASSEMBLY 5" OD X 123": Assembly consisting of 5" OD x 11 GA galvanized steel tubing, 1/4" wall cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

SHIPPING WEIGHT: 66 LBS.

INSTALLATION INSTRUCTIONS

1. Determine 5" OD post location and dig footing hole as per typical concrete footing drawing, which is located in the preface of your installation manual.
2. Insert post into footing hole. Block-up and plumb post.
3. Pour concrete and let set 2 - 3 days.
4. **Install resilient material in accordance to installation guidelines, ASTM standards and CPSC guidelines.**

Playground Installation Instructions: Sherry (OB) Park

OB Sherry Park

Madison, WI - Option #2



(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



OB Sherry Park

Madison, WI - Option #2

LR
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RECREATION, LLC

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260 W. Main St.
Cambridge, WI 53523
info@leerecreation.com
www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995



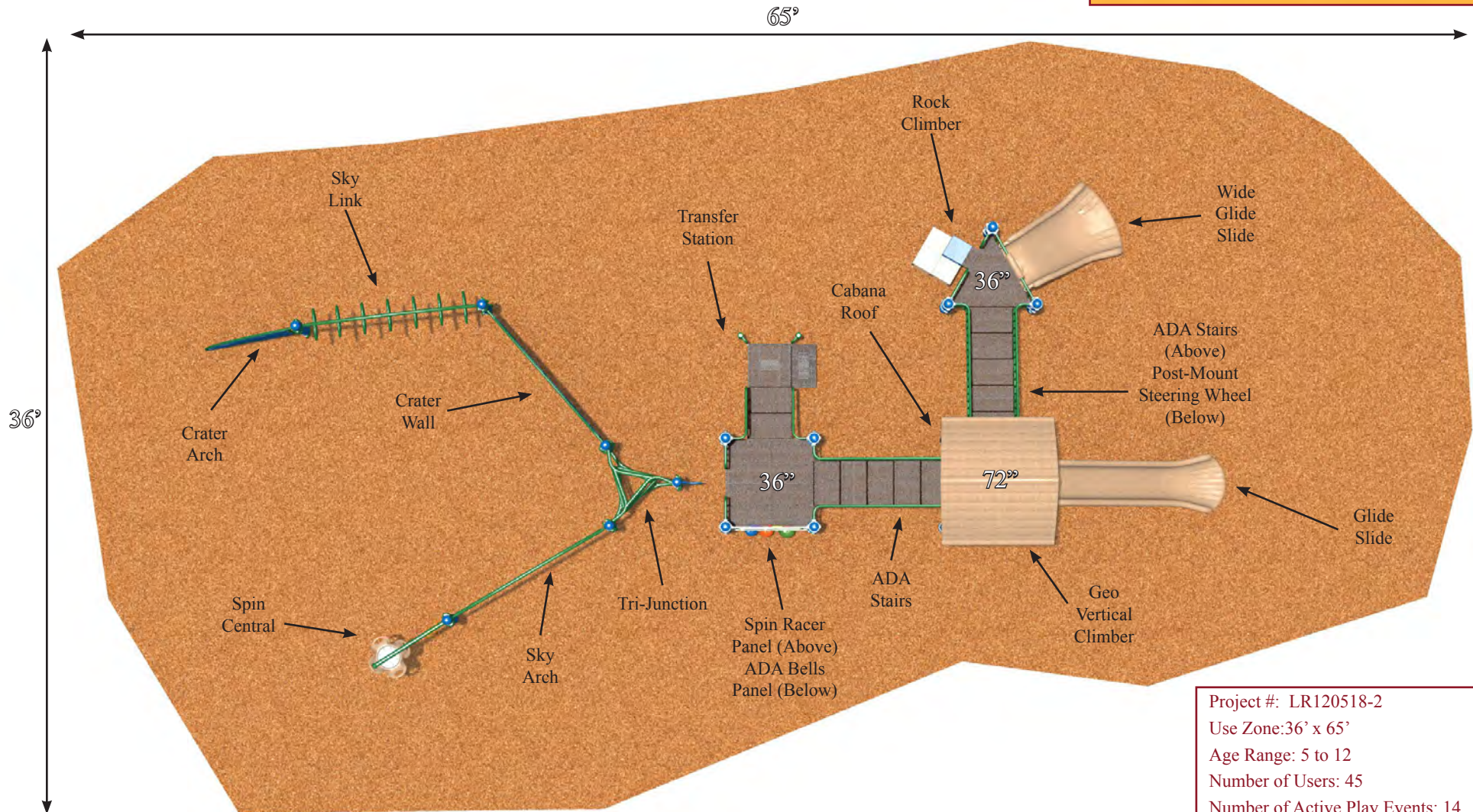
OB Sherry Park

Madison, WI - Option #2



(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



Project #: LR120518-2
 Use Zone: 36' x 65'
 Age Range: 5 to 12
 Number of Users: 45
 Number of Active Play Events: 14
 Colors: Forest Green, Brownstone,
 and Blue



Assembly View (*representative model*)

Installation Instructions

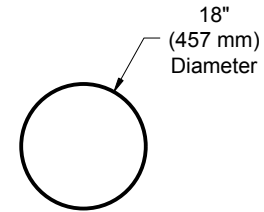
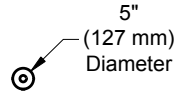
Playmakers[®] Models PM0006, PM0008, PM0016,
PM0026, PM0036, PM0046, PM0056, PM0066,
PM0078, PM0128, PM0266, PM0268
Steel Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

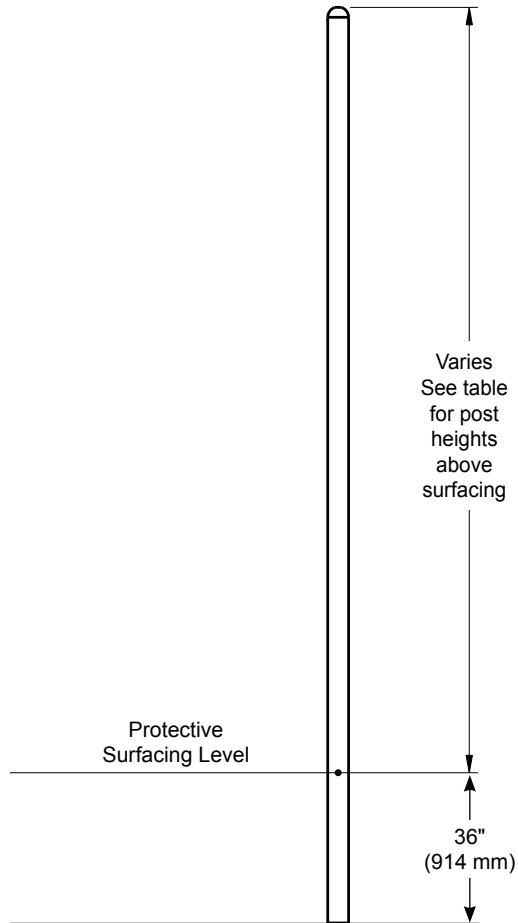
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0006	96" (2438 mm)	60" (1524 mm)
ZZPM0008	108" (2743 mm)	72" (1829 mm)
ZZPM0016	120" (3048 mm)	84" (2134 mm)
ZZPM0026	132" (3353 mm)	96" (2438 mm)
ZZPM0036	144" (3658 mm)	108" (2743 mm)
ZZPM0046	156" (3962 mm)	120" (3048 mm)
ZZPM0056	168" (4267 mm)	132" (3353 mm)
ZZPM0066	180" (4623 mm)	144" (3658 mm)
ZZPM0078	205" (5207 mm)	169" (4293 mm)
ZZPM0128	192" (4877 mm)	156" (3962 mm)
ZZPM0266	217" (5512 mm)	181" (4597 mm)
ZZPM0268	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: Prepare footings as shown in the **Support Post Footing Detail** 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.



PM0006 - STEEL SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5006	POST - 5" O.D. x 96" STEEL w/ CAP & LBL AT 36"	1

PM0008 - STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5008	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 36"	1

PM0016 - STEEL SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5010	POST - 5" O.D. x 120" STEEL w/ CAP & LBL AT 36"	1

PM0026 - STEEL SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5012	POST - 5" O.D. x 132" STEEL w/ CAP & LBL AT 36"	1

PM0036 - STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5014	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 36"	1

PM0046 - STEEL SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5016	POST - 5" O.D. x 156" STEEL w/ CAP & LBL AT 36"	1

PM0056 - STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5018	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 36"	1

PM0066 - STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5020	POST - 5" O.D. x 180" STEEL w/ CAP & LBL AT 36"	1

PM0078 - STEEL SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5022	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0128 - STEEL SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5062	POST - 5" O.D. x 205" STEEL w/ CAP & LBL AT 36"	1

PM0266 - STEEL SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0424	POST - 5" O.D. x 217" STEEL w/ CAP & LBL AT 36"	1

PM0268 - STEEL SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0426	POST - 5" O.D. x 229" STEEL w/ CAP & LBL AT 36"	1



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Assembly View *(representative model)*

Installation Instructions

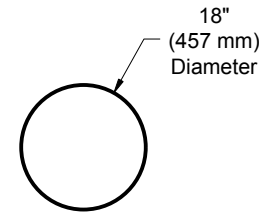
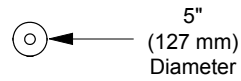
Playmakers[®] Models PM0008GZ,
PM0036GZ, PM0056GZ, & PM0066GZ
GroundZero[®] Steel Support Post w/ Cap
108 in. (2743 mm), 144 in. (3658 mm),
168 in. (4267 mm), & 180 in. (4623 mm)

Installation Preparation

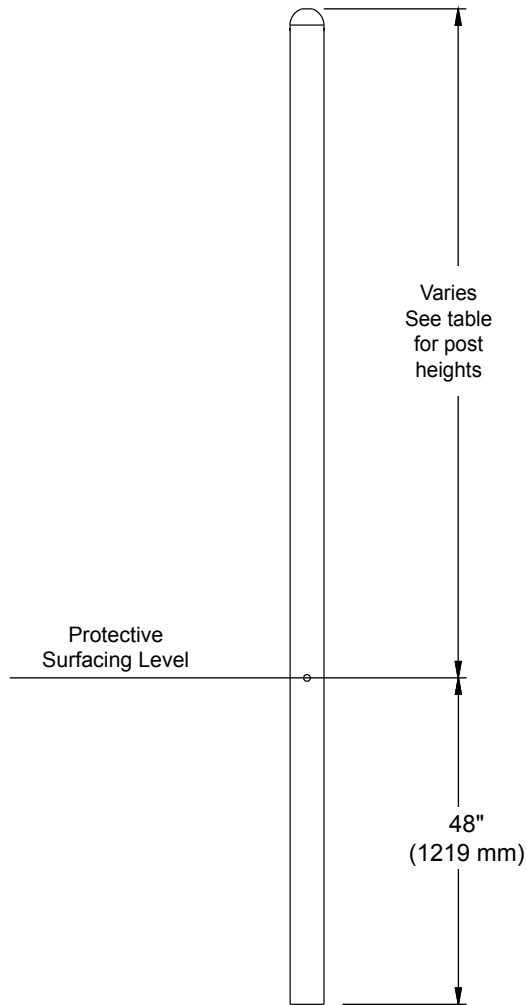
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.18 cubic yard (0,14 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0008GZ	108" (2743 mm)	60" (1524 mm)
ZZPM0036GZ	144" (3658 mm)	96" (2438 mm)
ZZPM0056GZ	168" (4267 mm)	120" (3048 mm)
ZZPM0066GZ	180" (4623 mm)	132" (3353 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: Prepare footings as shown in the **GroundZero® Support Post Footing Detail** 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.



PM0008GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5026	POST - 5" O.D. x 108" STEEL w/ CAP & LBL AT 48"	1

PM0036GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5027	POST - 5" O.D. x 144" STEEL w/ CAP & LBL AT 48"	1

PM0056GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP0286	POST - 5" O.D. x 168" STEEL w/ CAP & LBL AT 48"	1

PM0066GZ - GROUNDZERO® STEEL SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5073	POST - 5.00" O.D. x 180.00" STEEL w/ CAP & LBL AT 48"	1



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Assembly View *(representative model)*

Installation Instructions

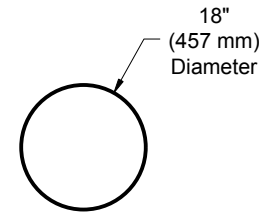
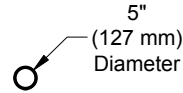
Playmakers[®] Models PM0017, PM0027, PM0037,
PM0047, PM0057, PM0067, PM0079, PM0129,
PM0136, PM0138, PM0267, PM0269
Steel Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

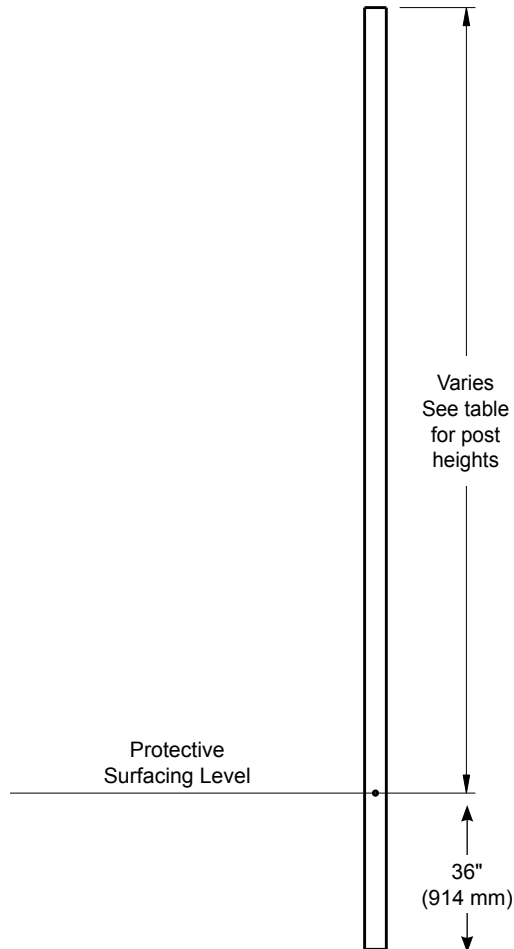
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.12 cubic yard (0,09 cubic meters)

Installation Instructions

Top View



Footing Diagram



Elevation View

Model	Post Height	Height Above Surfacing
ZZPM0017	120" (3048 mm)	84" (2134 mm)
ZZPM0027	132" (3353 mm)	96" (2438 mm)
ZZPM0037	144" (3658 mm)	108" (2743 mm)
ZZPM0047	156" (3962 mm)	120" (3048 mm)
ZZPM0057	168" (4267 mm)	132" (3353 mm)
ZZPM0067	180" (4572 mm)	144" (3658 mm)
ZZPM0079	205" (5207 mm)	169" (4293 mm)
ZZPM0129	192" (4877 mm)	156" (3962 mm)
ZZPM0136	96" (2438 mm)	60" (1524 mm)
ZZPM0138	108" (2743 mm)	72" (1829 mm)
ZZPM0267	217" (5512 mm)	181" (4597 mm)
ZZPM0269	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 the 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.

PM0017 - STEEL SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5010	POST - 5" O.D. x 120" STEEL w/o CAP & w/ LBL AT 36"	1

PM0027 - STEEL SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5012	POST - 5" O.D. x 132" STEEL w/o CAP & w/ LBL AT 36"	1

PM0037 - STEEL SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5014	POST - 5" O.D. x 144" STEEL w/o CAP & w/ LBL AT 36"	1

PM0047 - STEEL SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5016	POST - 5" O.D. x 156" STEEL w/o CAP & w/ LBL AT 36"	1

PM0057 - STEEL SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5018	POST - 5" O.D. x 168" STEEL w/o CAP & w/ LBL AT 36"	1

PM0067 - STEEL SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5020	POST - 5" O.D. x 180" STEEL w/o CAP & w/ LBL AT 36"	1

PM0079 - STEEL SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5022	POST - 5" O.D. x 205" STEEL w/o CAP & w/ LBL AT 36"	1

PM0129 - STEEL SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5062	POST - 5" O.D. x 192" STEEL w/o CAP & w/ LBL AT 36"	1

PM0136 - STEEL SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5006	POST - 5" O.D. x 96" STEEL w/o CAP & w/ LBL AT 36"	1

PM0138 - STEEL SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5008	POST - 5" O.D. x 108" STEEL w/o CAP & w/ LBL AT 36"	1

PM0267 - STEEL SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0424	POST - 5" O.D. x 217" STEEL w/o CAP & w/ LBL AT 36"	1

PM0269 - STEEL SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0426	POST - 5" O.D. x 229" STEEL w/o CAP & w/ LBL AT 36"	1



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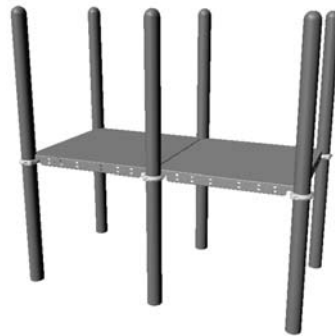
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Installation Instructions
Playmakers[®] PM0616 and PM0629
Square and Long
Coated Perforated Decks



ZZPM0616
Square Deck



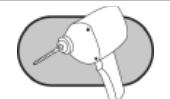
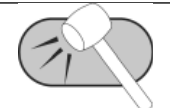

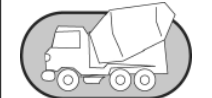

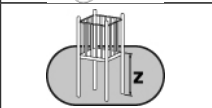


ZZPM0629
Long Deck

Assembly View

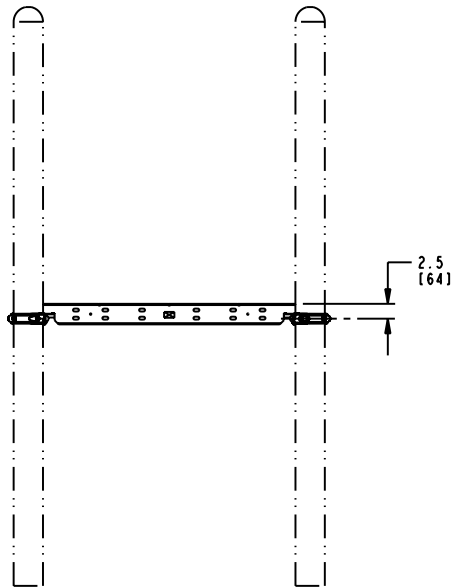
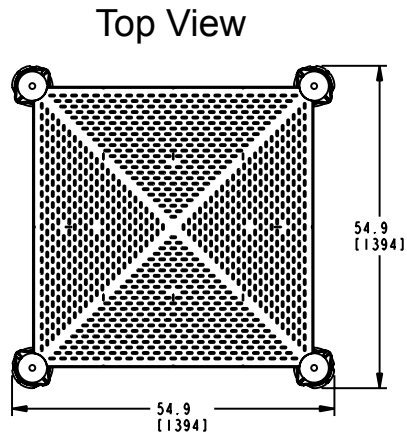
Installation Preparation

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

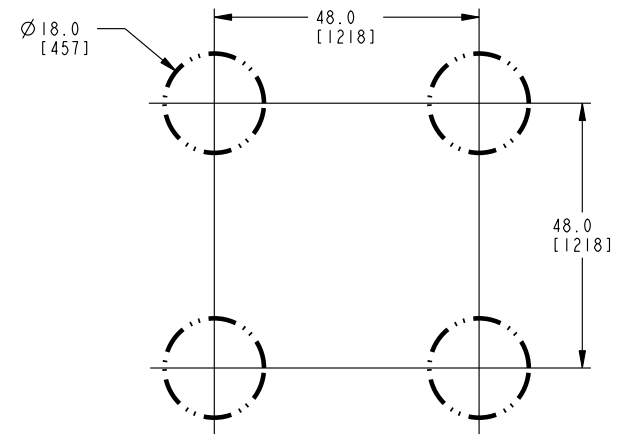
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

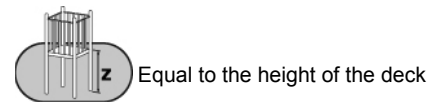
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Elevation View
Model PM0616

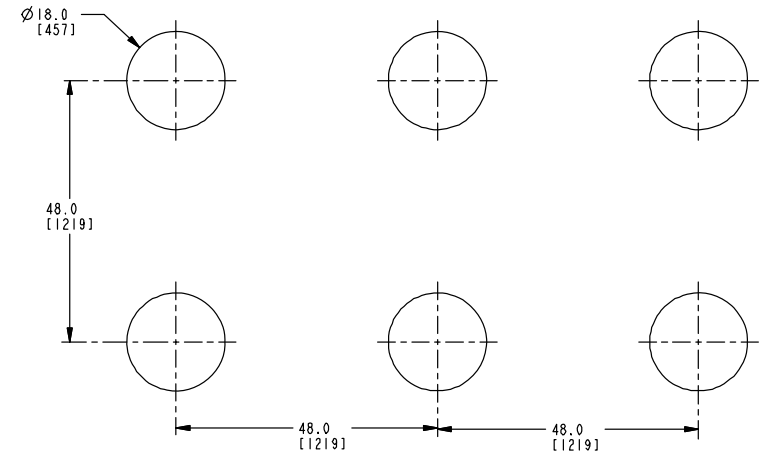
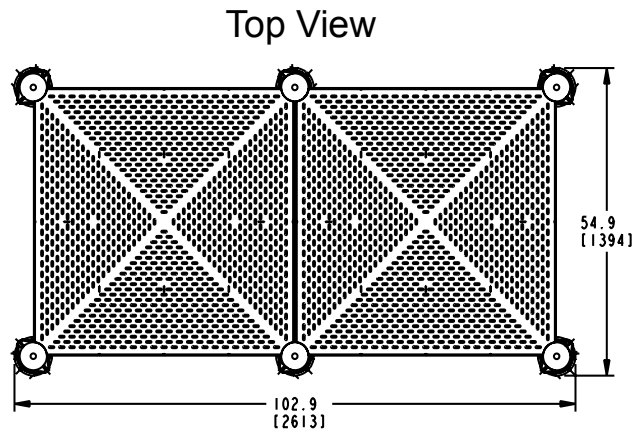


Footing Diagram

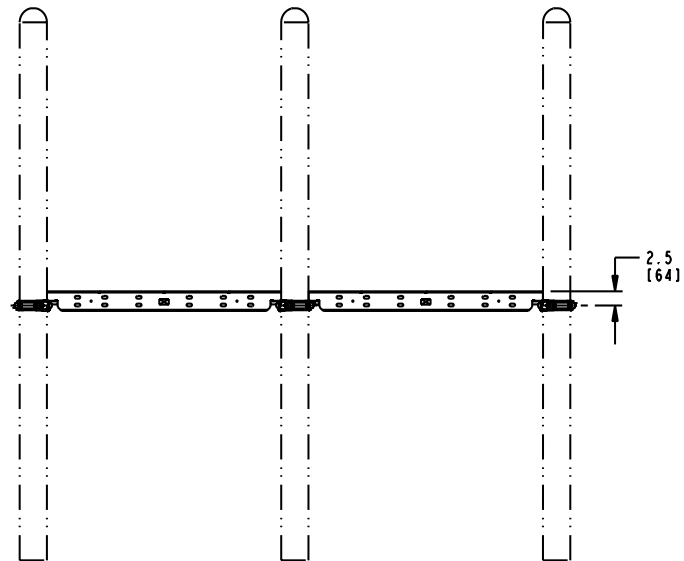


Installation Instructions

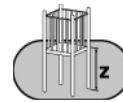
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



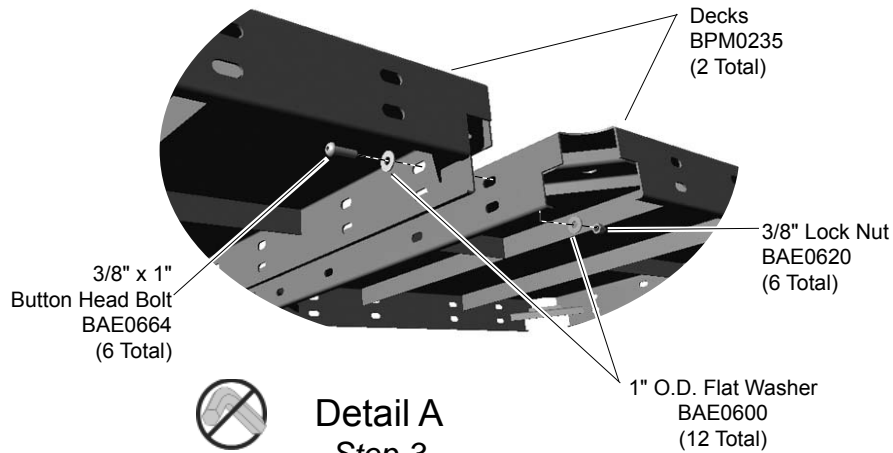
Elevation View
Model PM0629



Equal to the height of the deck

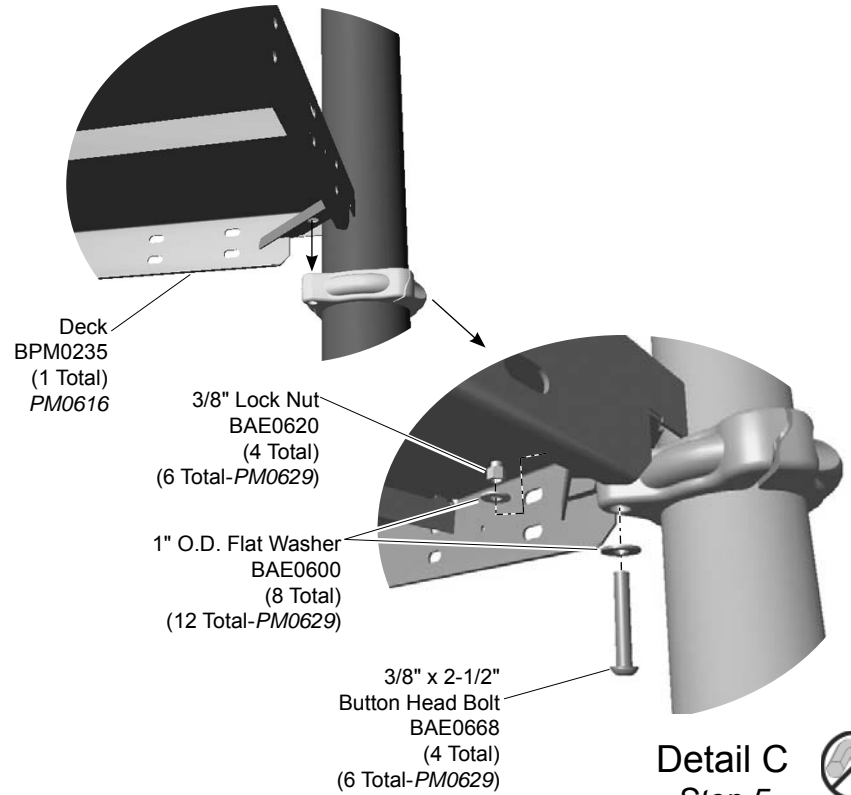
Installation Instructions

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



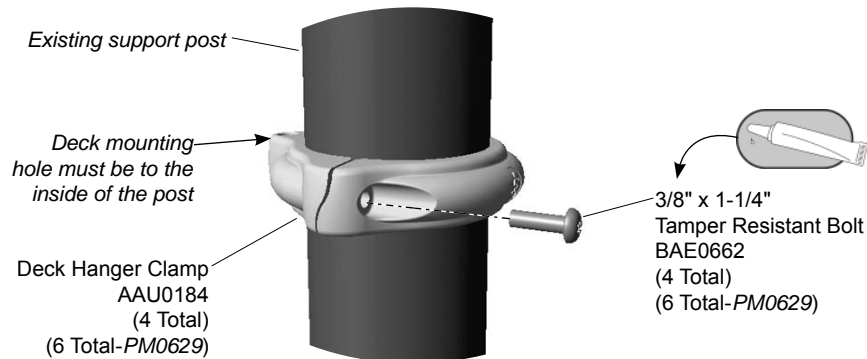
Detail A Step 3

(Model PM0629 Only)
Attach the two decks together.



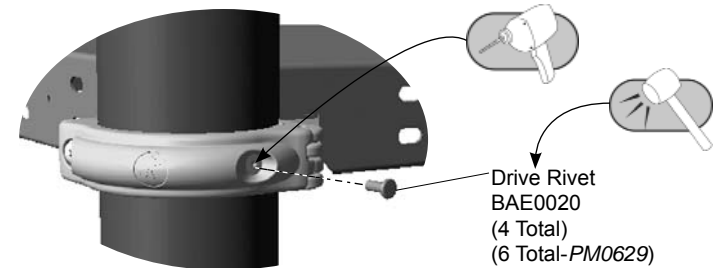
Detail C Step 5

Attach the decks to the clamps.



Detail B Step 4

Attach the deck clamps to the support posts.



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



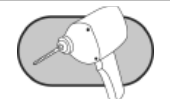
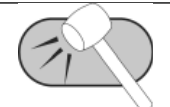

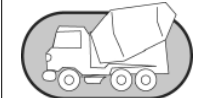

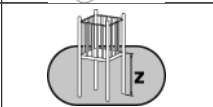


ZZPM0639
45 Degree Tri-Deck

Assembly View

Installation Preparation

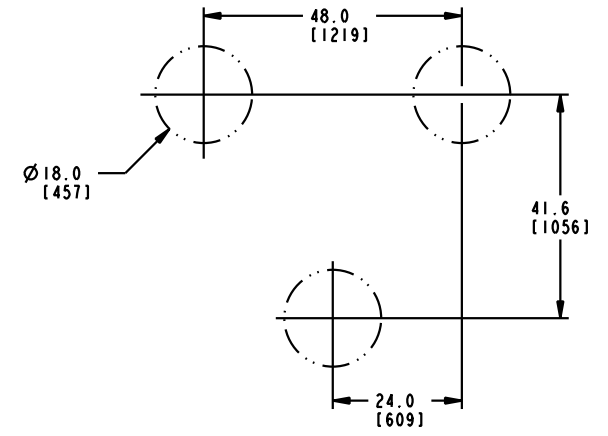
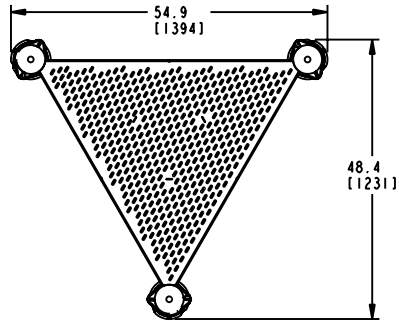
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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

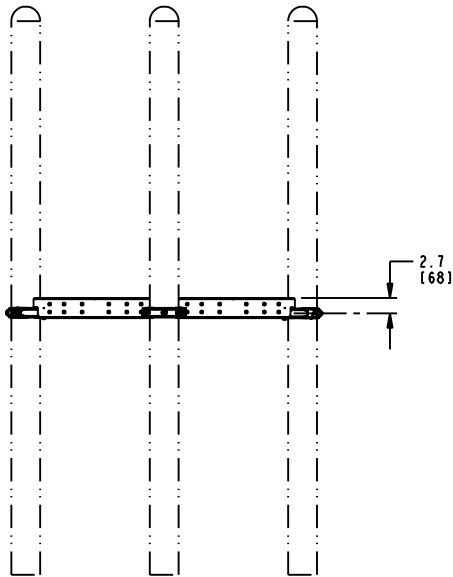
Installation Instructions

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

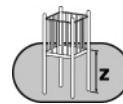
Top View



Footing Diagram



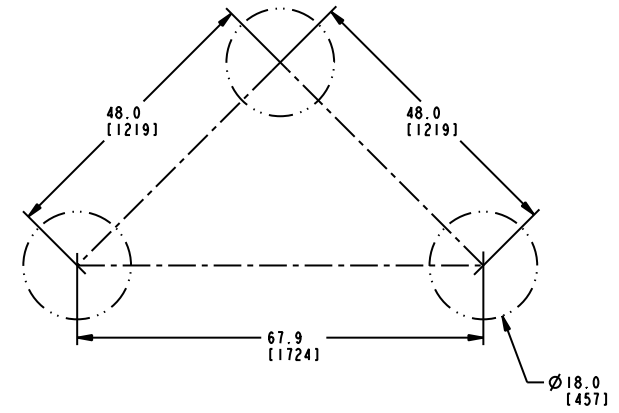
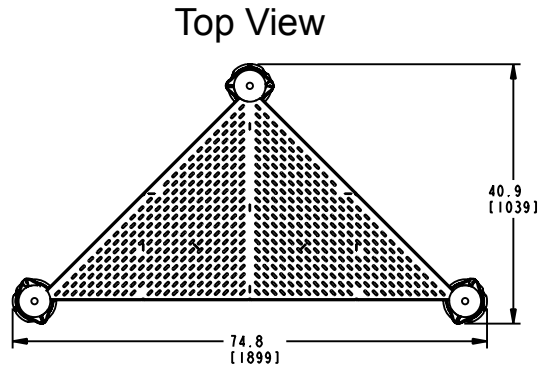
Elevation View
Model PM0617



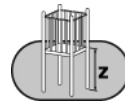
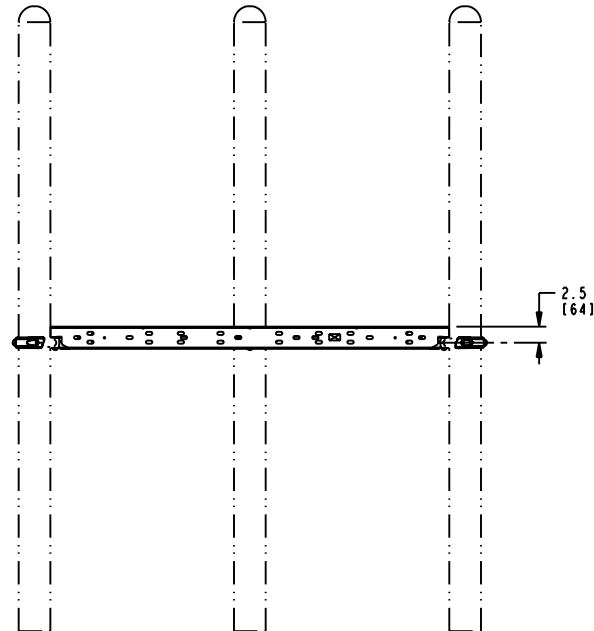
Equal to the height of the deck

Installation Instructions

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



Footing Diagram

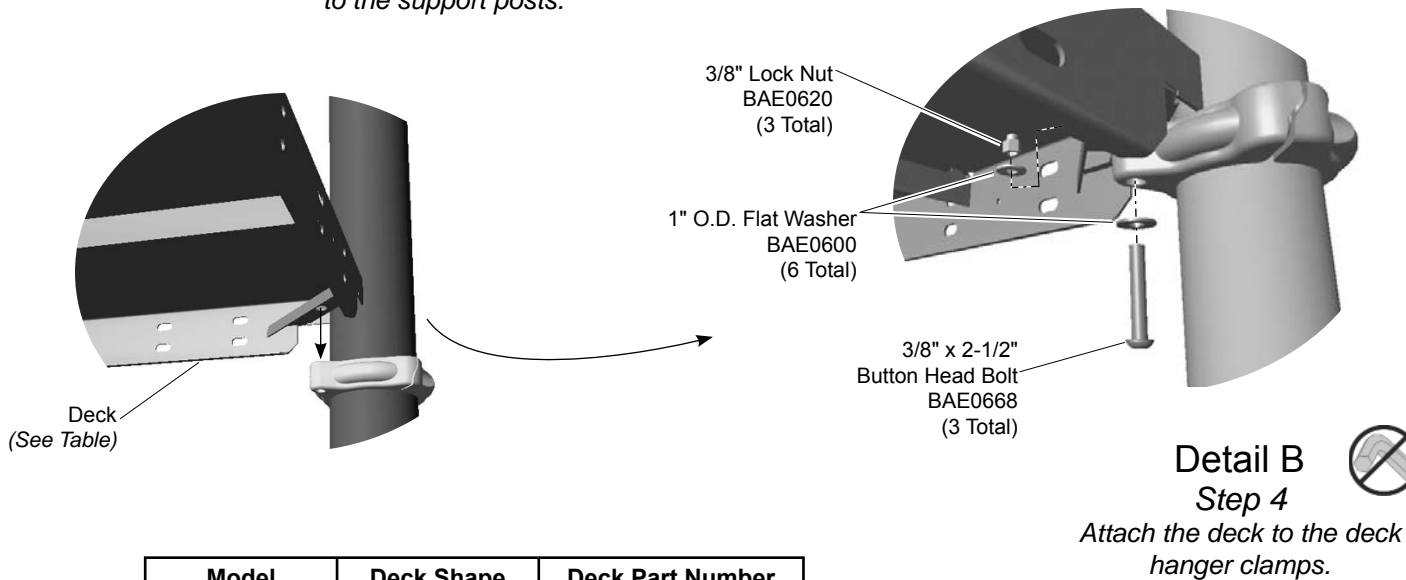
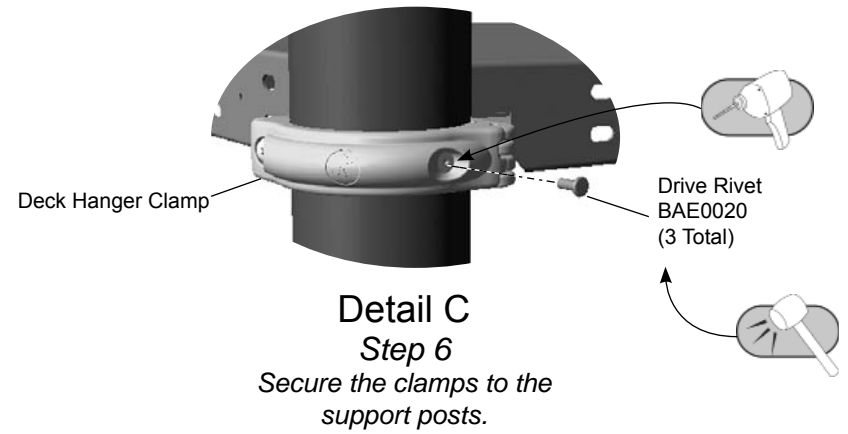
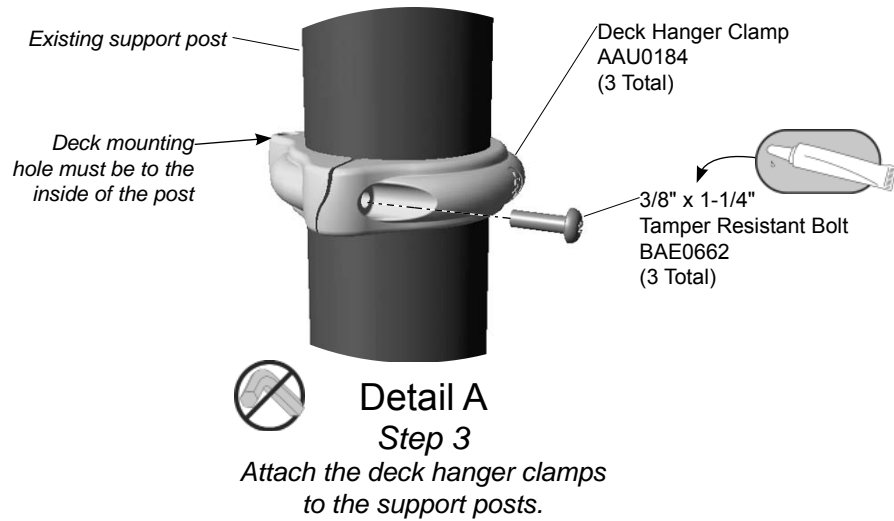


Equal to the height of the deck

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.



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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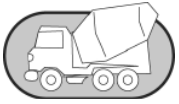
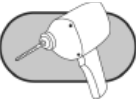


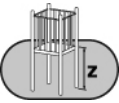
Assembly View (representative model)

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

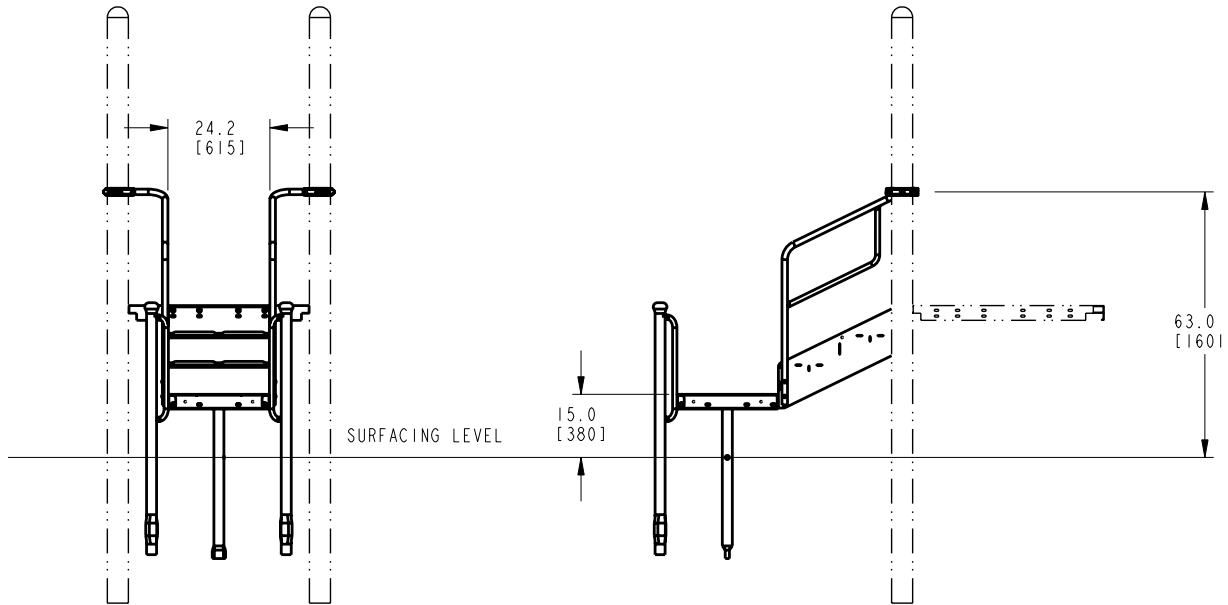
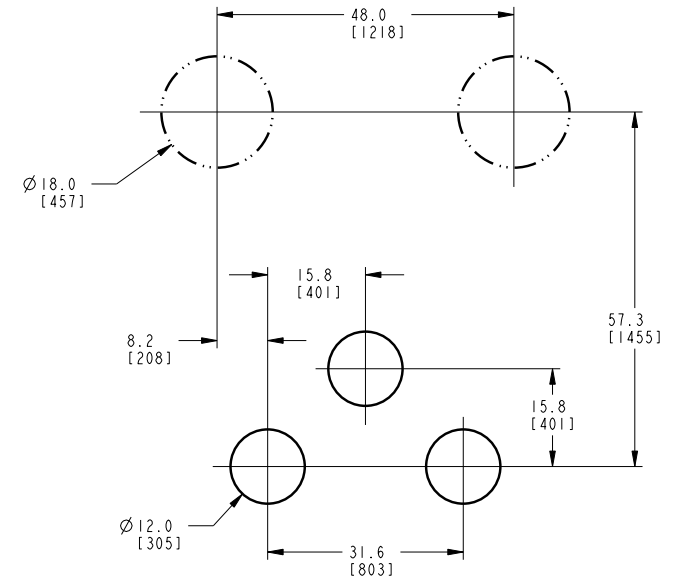
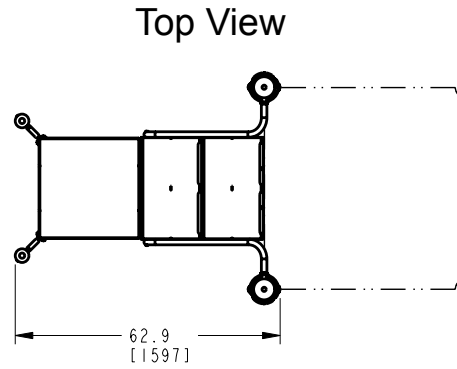
Installation Preparation

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

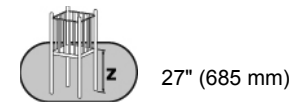
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

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

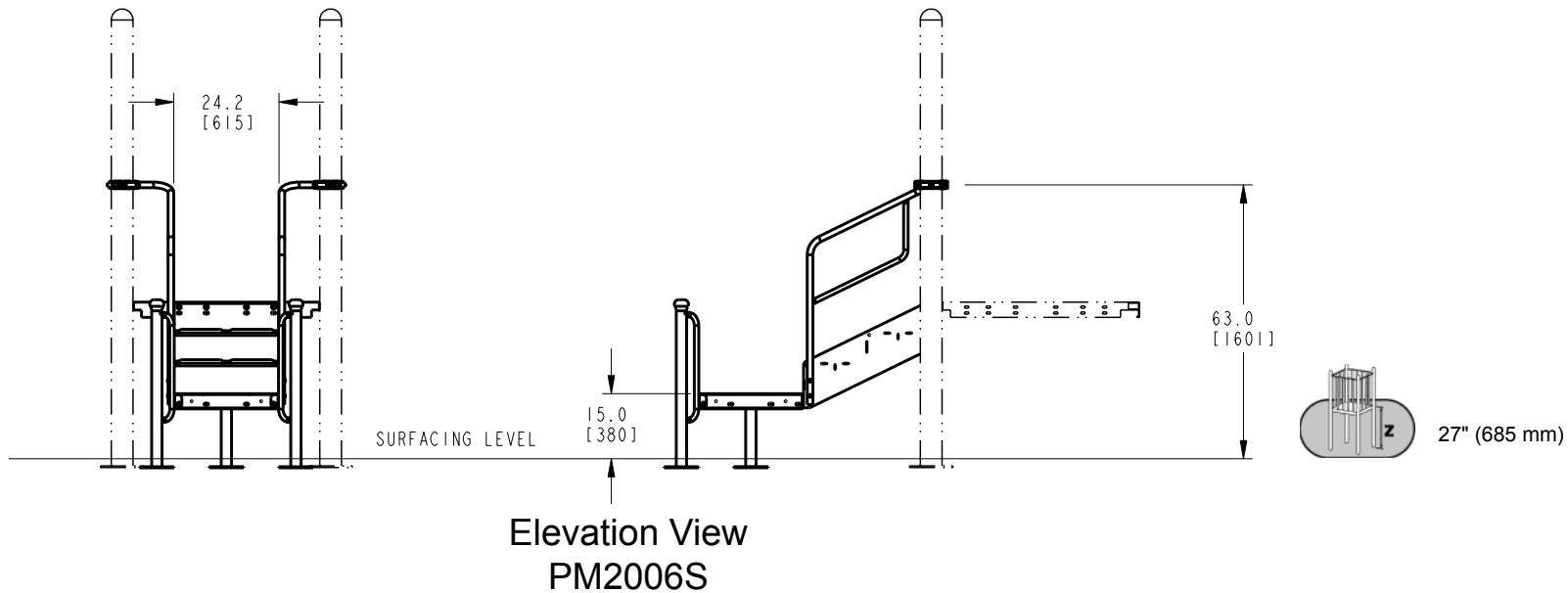
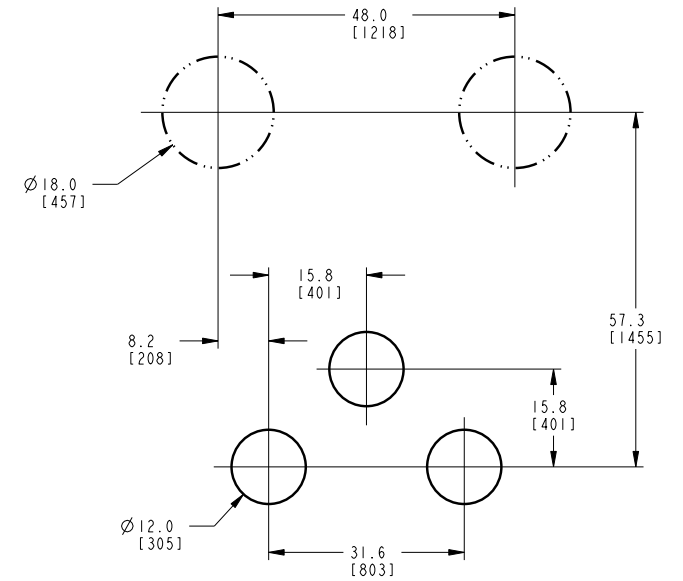
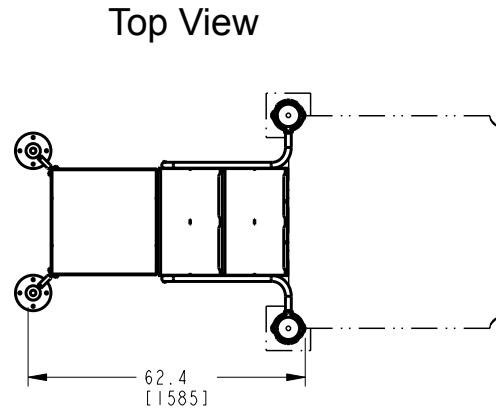


Elevation View
PM2006



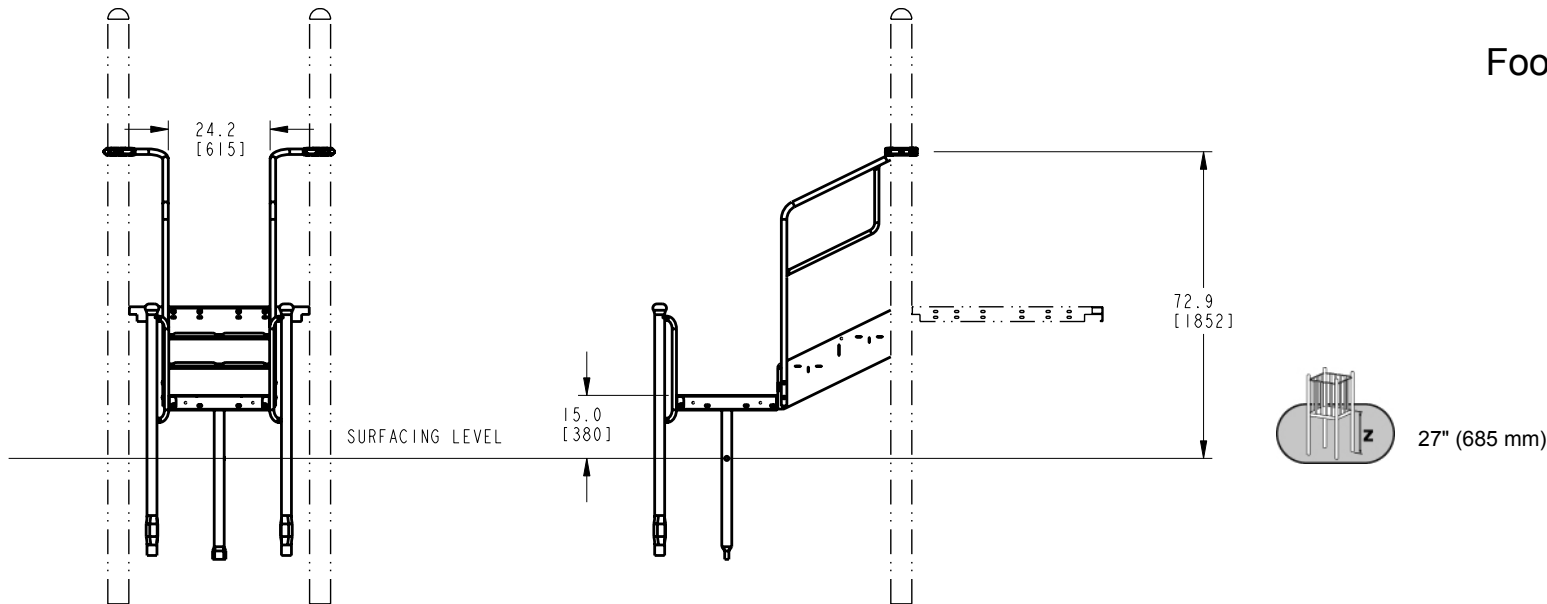
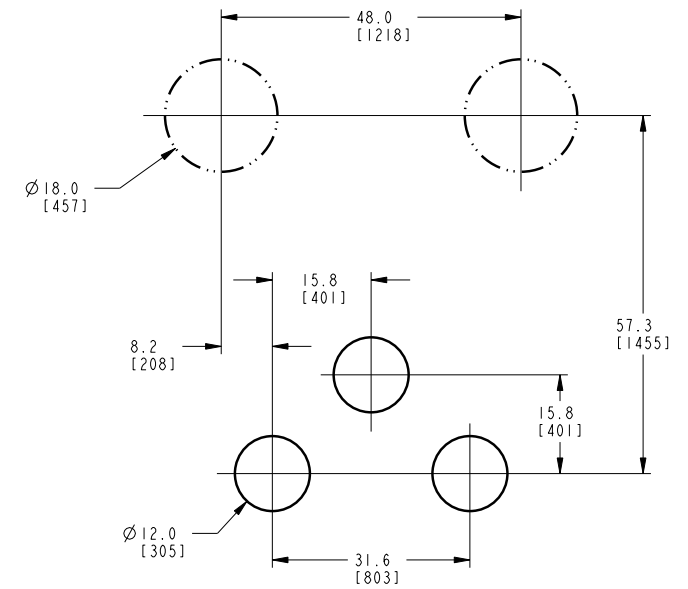
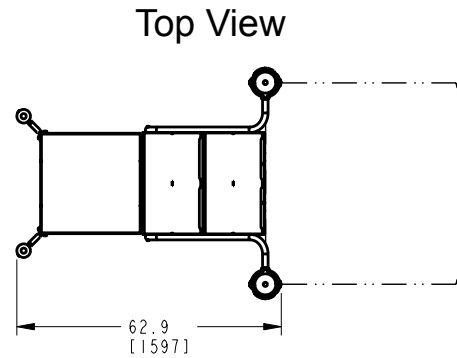
Installation Instructions

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



Installation Instructions

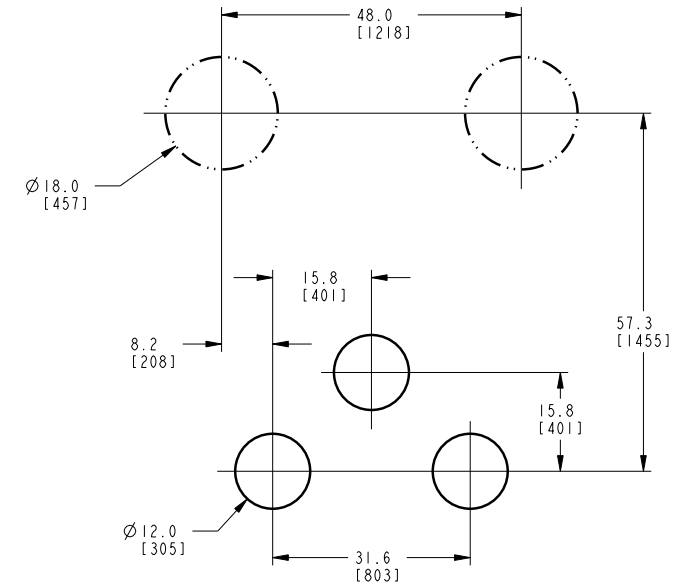
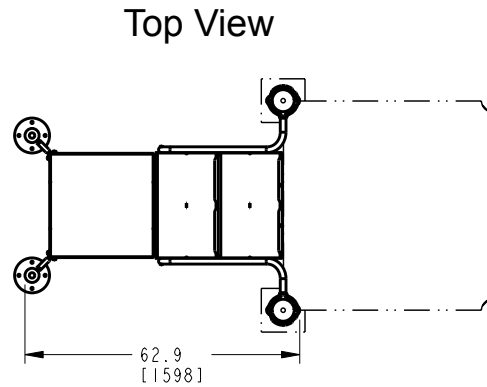
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Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



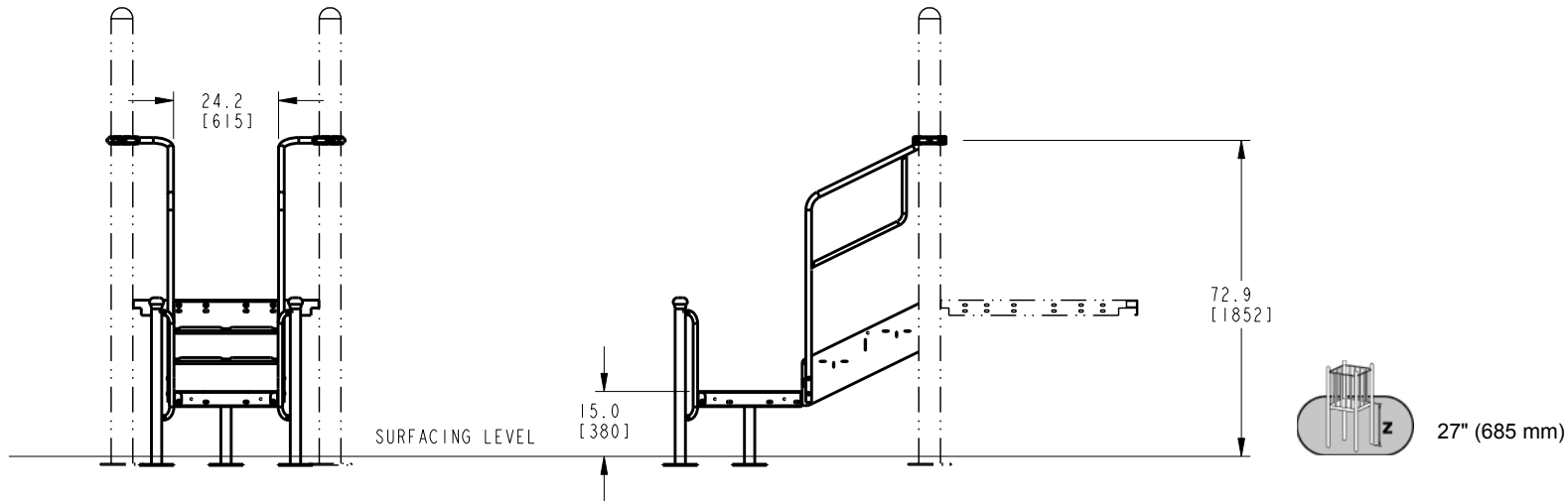
Elevation Views
PM2007

Installation Instructions

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



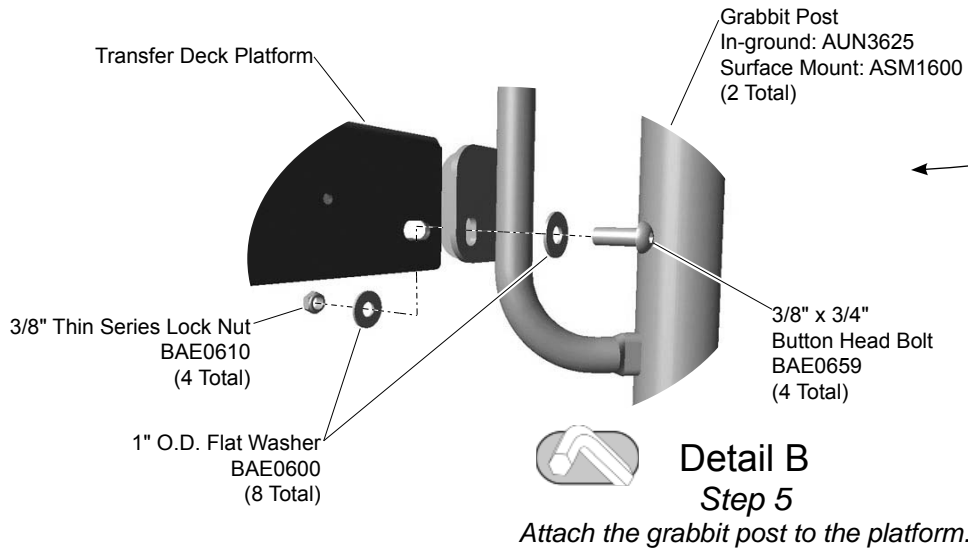
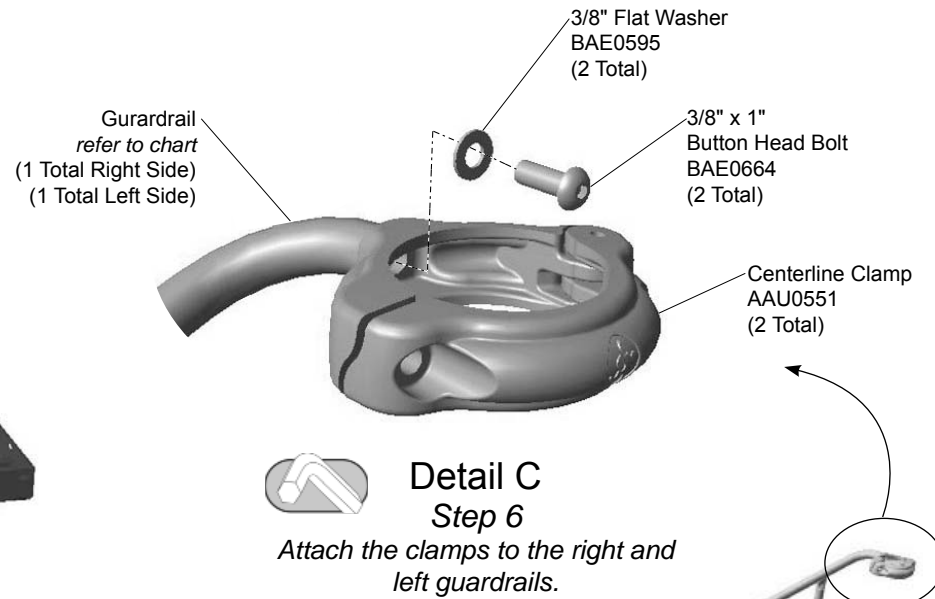
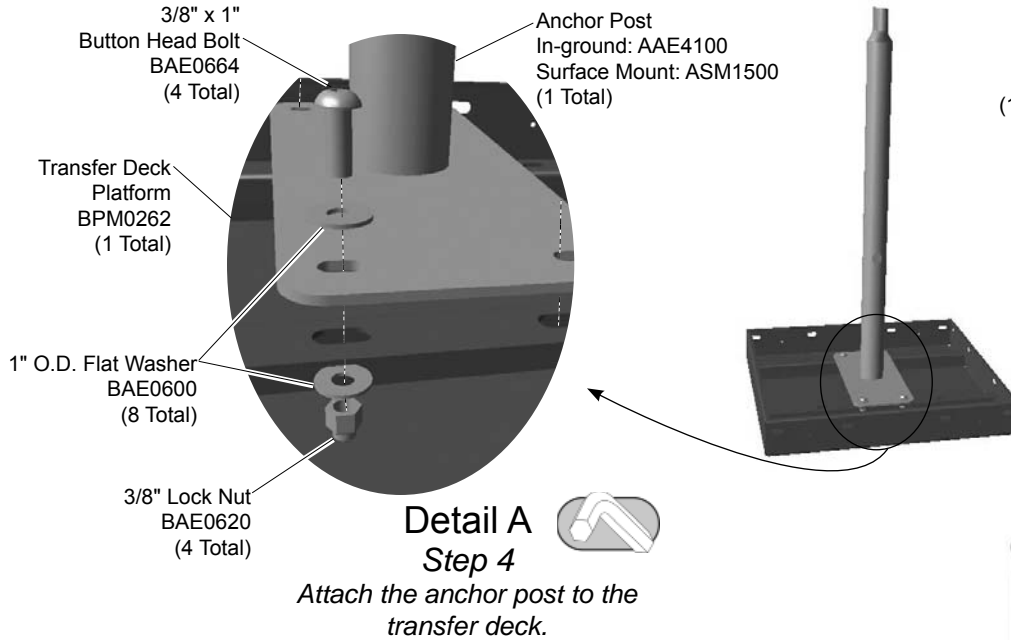
Footing Diagram



Elevation Views
PM2007S

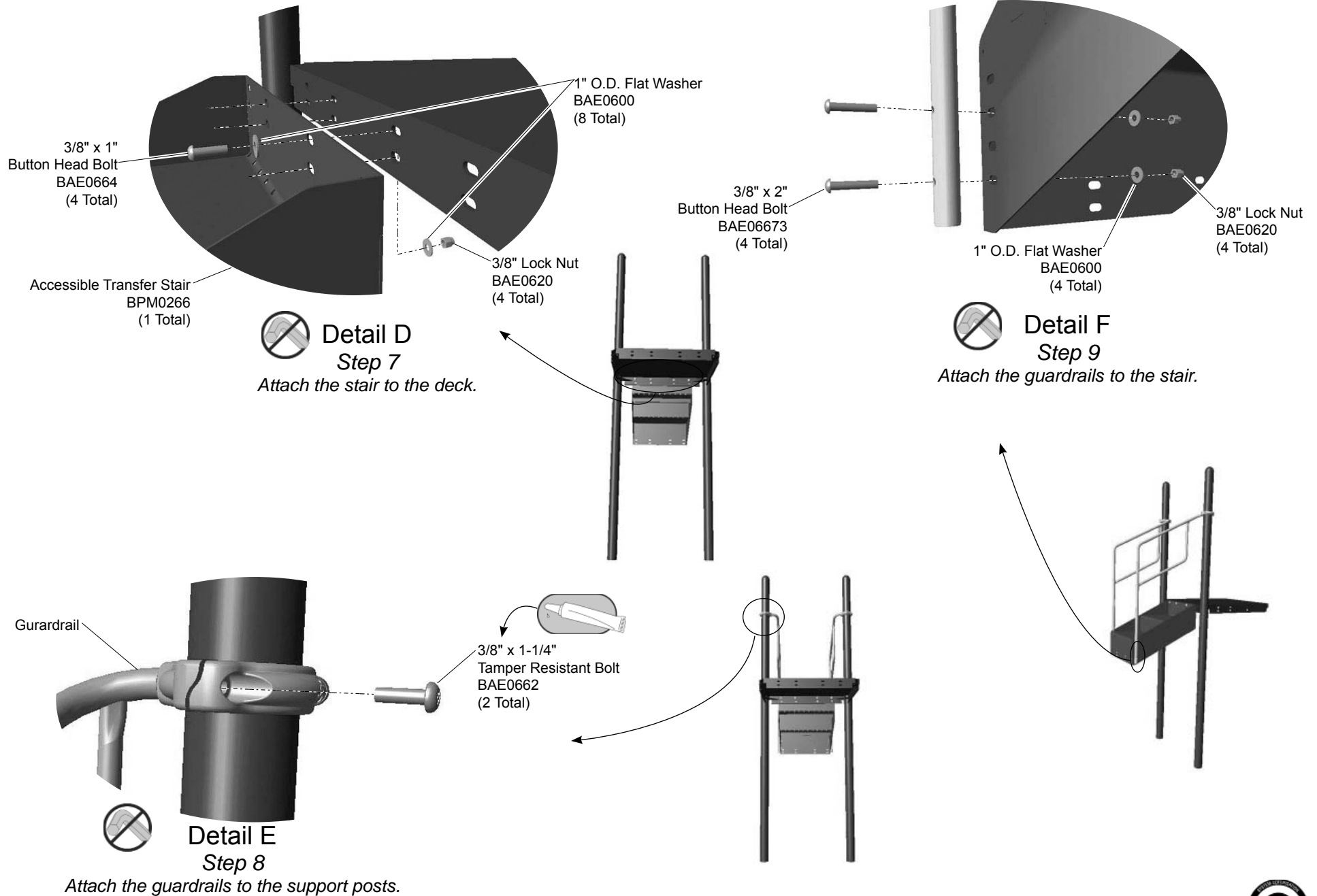
Installation Instructions

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

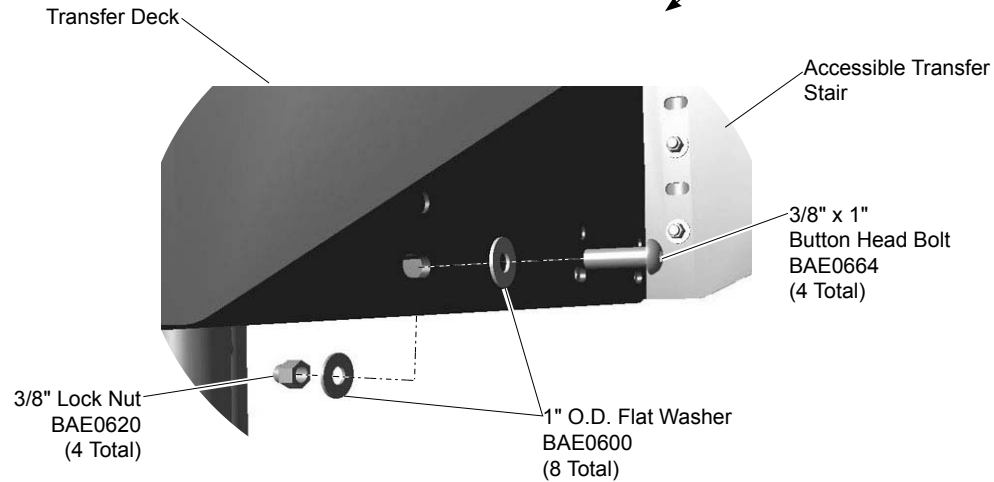
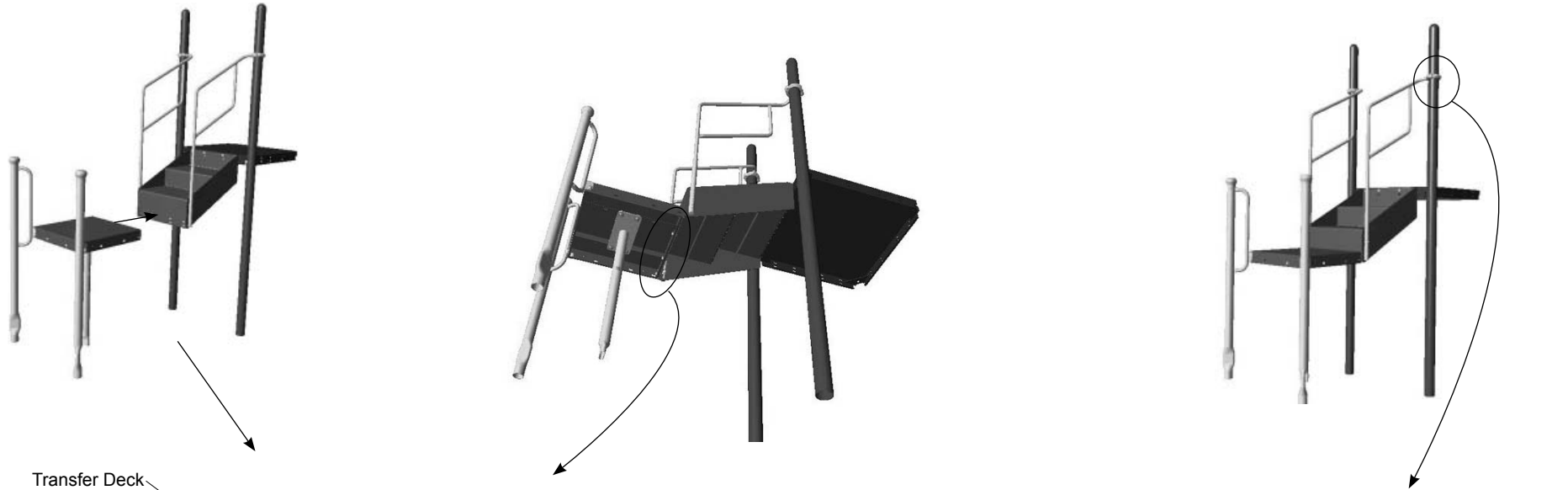


Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056

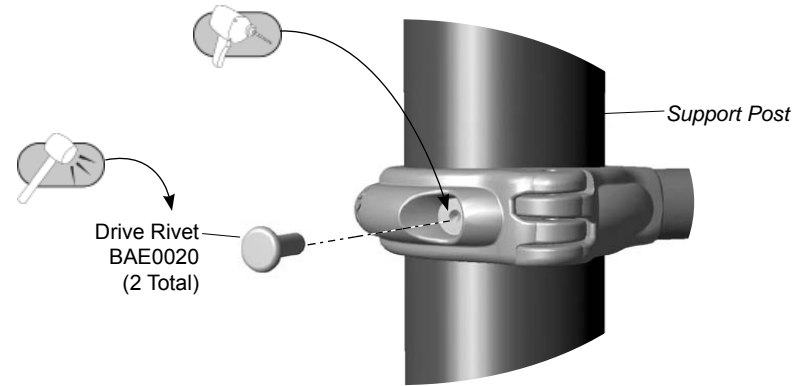
Installation Instructions



Installation Instructions



Detail G
Step 10
Attach transfer deck assembly to the stair.



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, 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.



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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






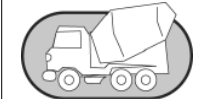

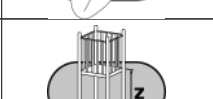


Assembly View

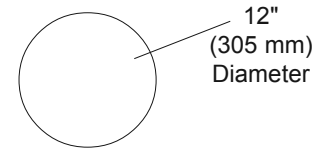
Installation Instructions Universal Model UN2019 Platform Approach Step

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

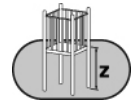
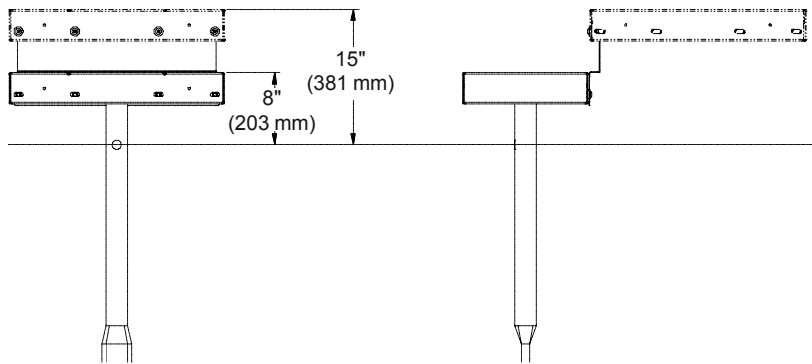
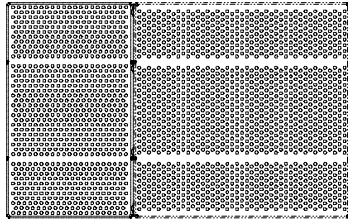
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions



Footing Diagram

Top View

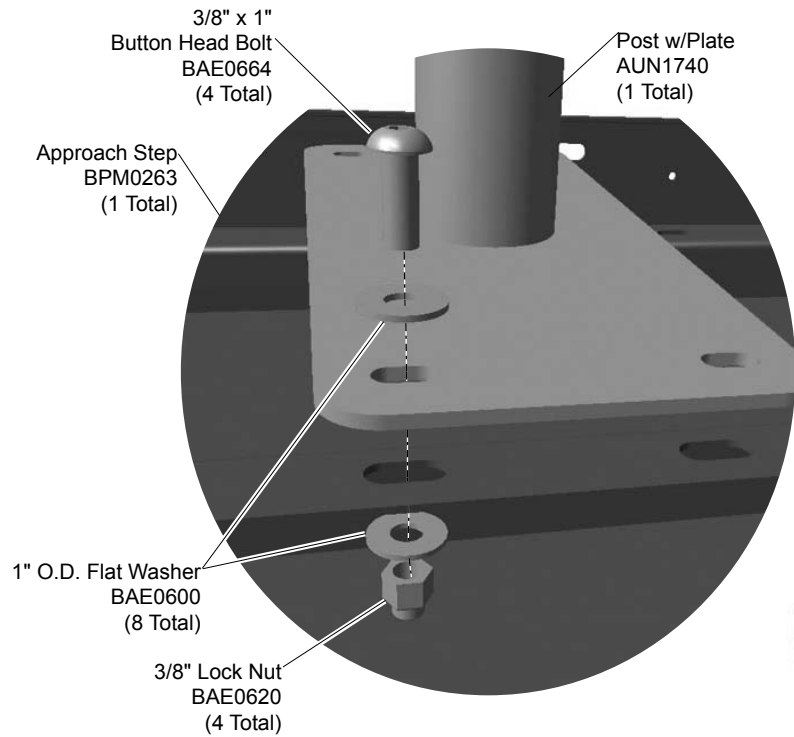


15" (381 mm)

Elevation Views

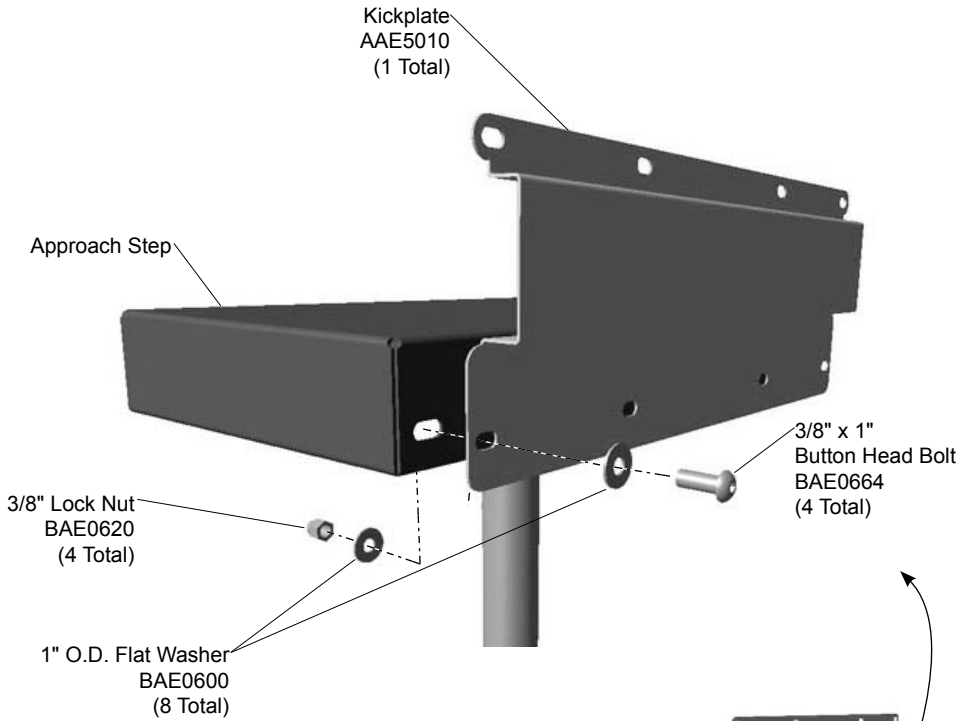
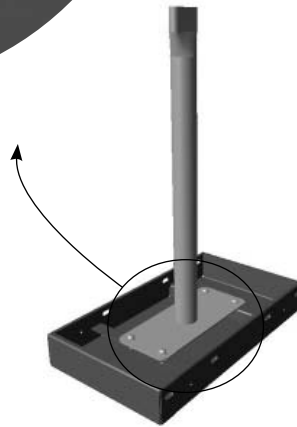
Installation Instructions

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



Detail A Step 4

Attach the anchor post to the approach step.

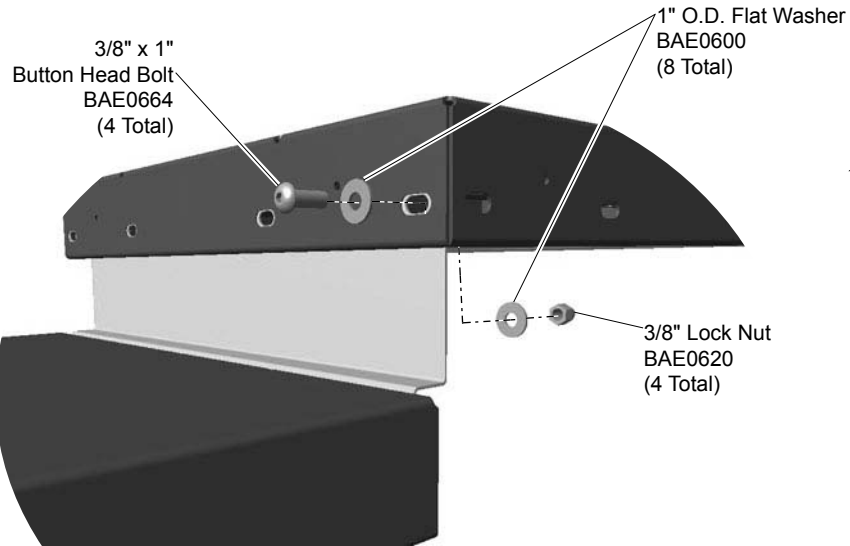
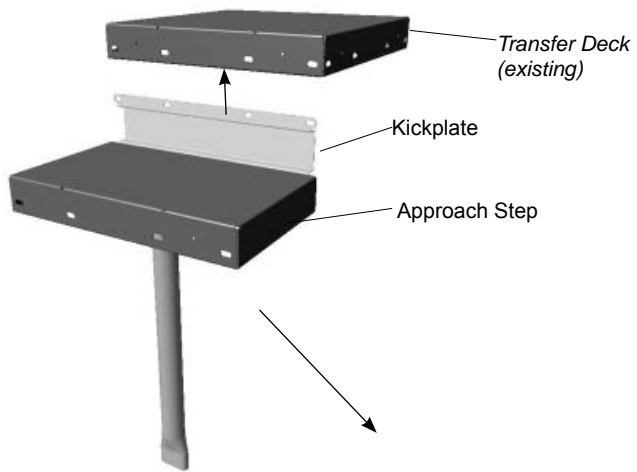


Detail B Step 5

Attach the kickplate to the approach step.



Installation Instructions



Detail C Step 6

Attach the kickplate to the
transfer deck.



Step 7



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)




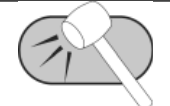

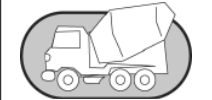

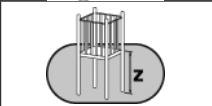
Installation Instructions

Playmakers[®]

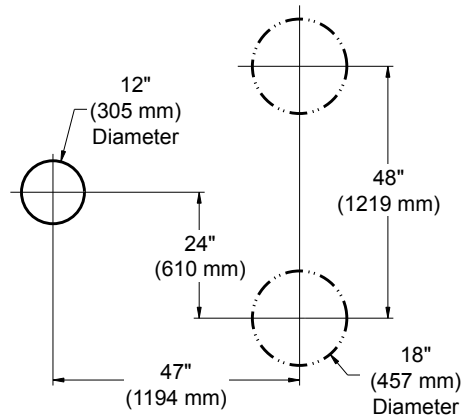
Models PM2658, PM2696, PM3126-PM3128
24"-72" (610-1829 mm) Glide Slides

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

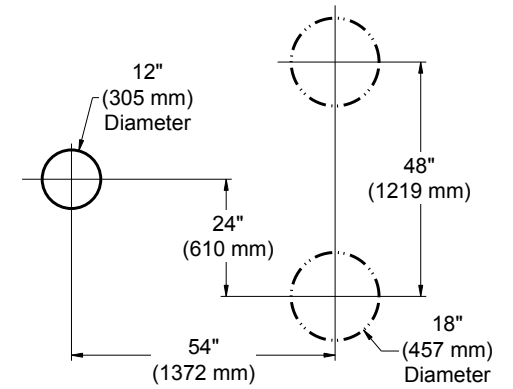
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

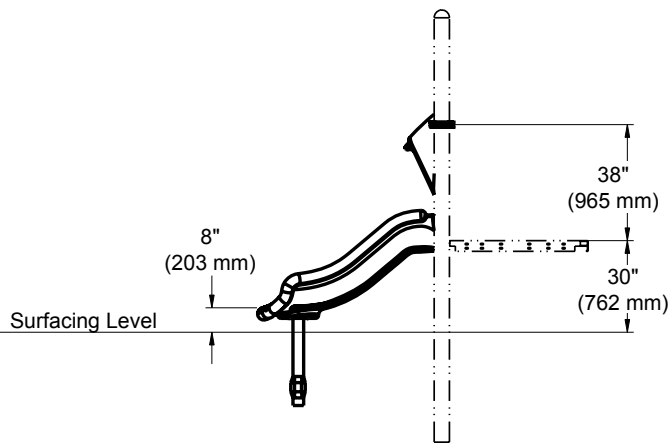
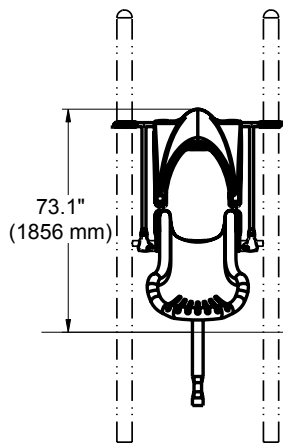


Footing Diagram

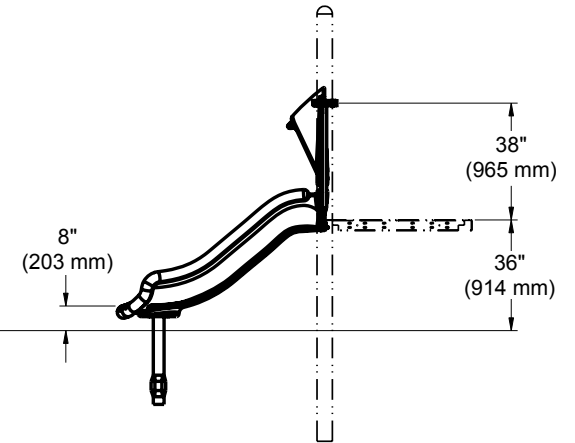
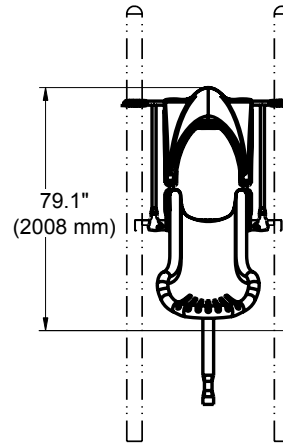
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



Footing Diagram

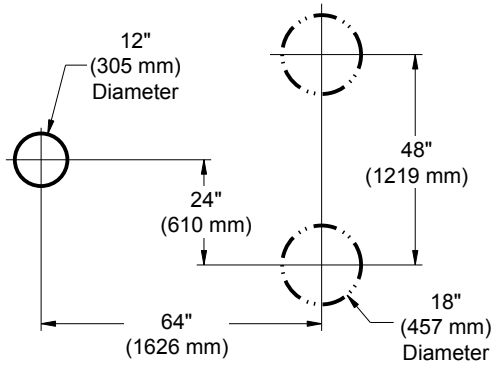


Elevation View PM3128 - 30" Glide Slide
(24" slide: exit will be 2" (50mm) above the surfacing level)

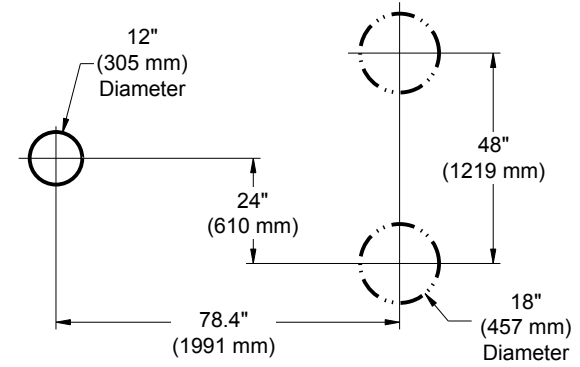


Elevation View PM3127 - 36" Glide Slide

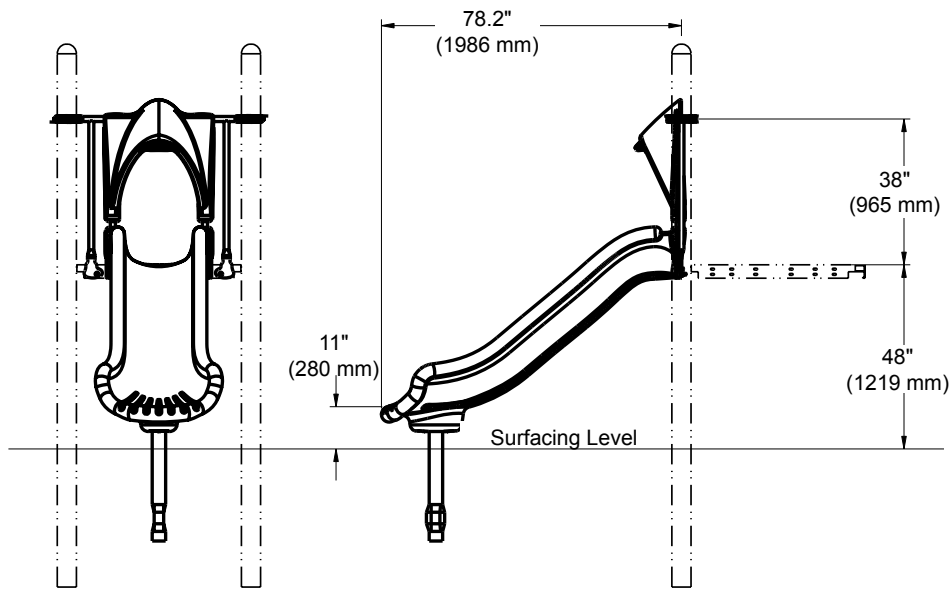
Installation Instructions



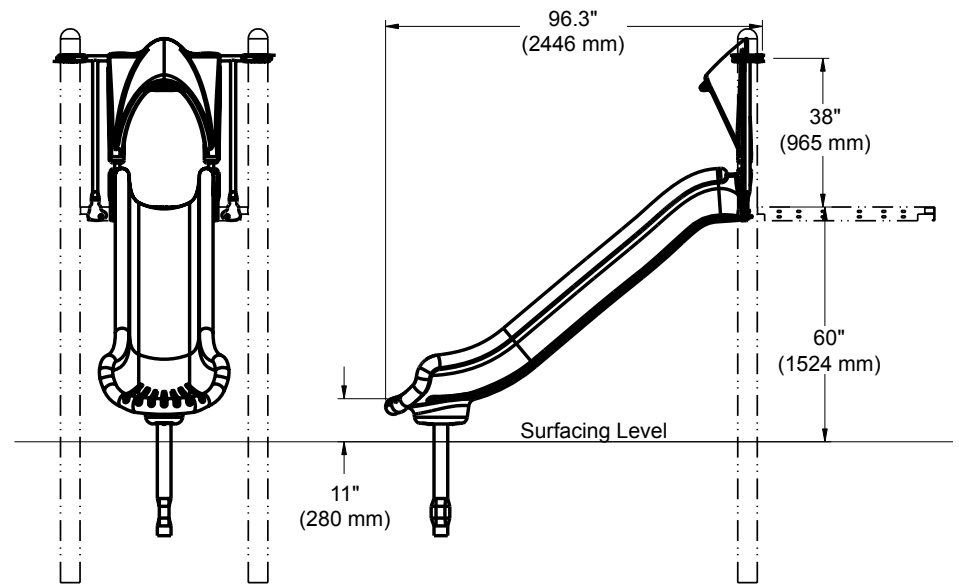
Footring Diagram



Footring Diagram

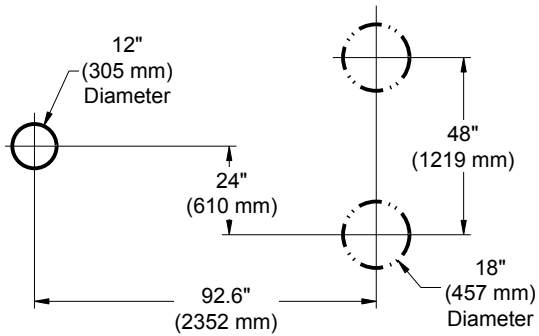


Elevation View PM3126 - 48" Glide Slide

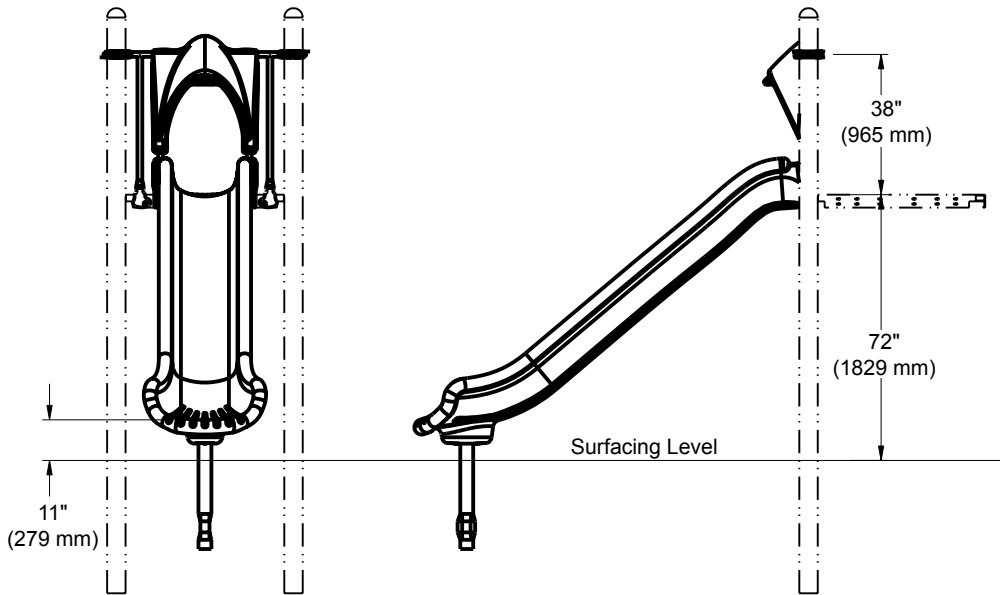
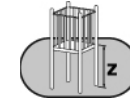


Elevation View PM2658 - 60" Glide Slide

Installation Instructions



Footings Diagram

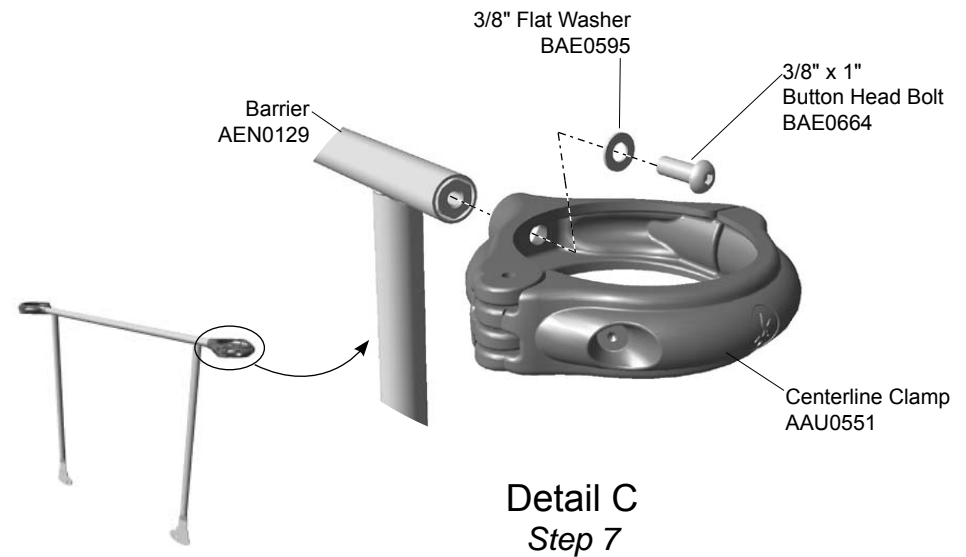
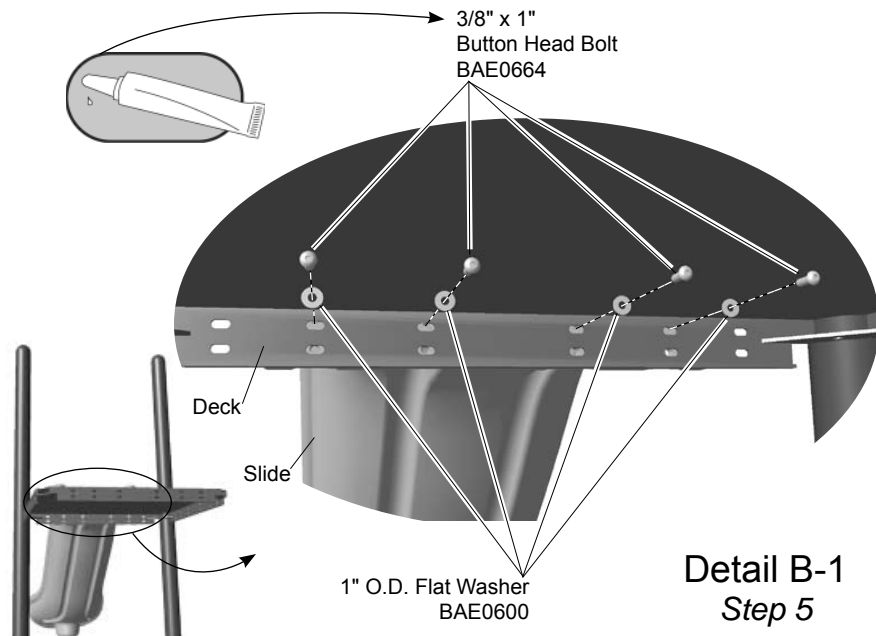
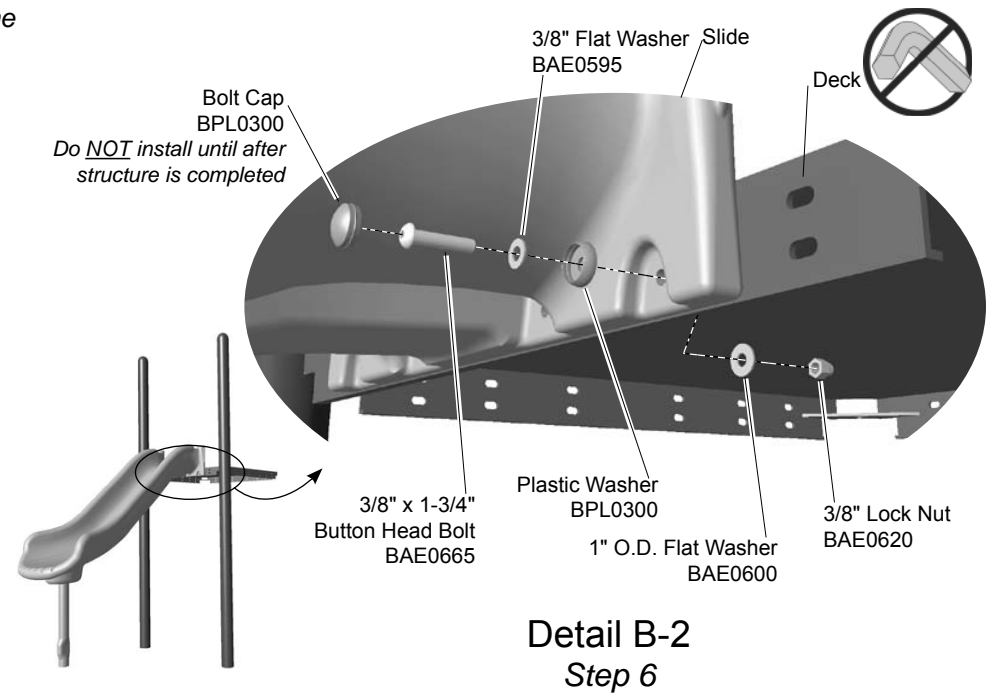
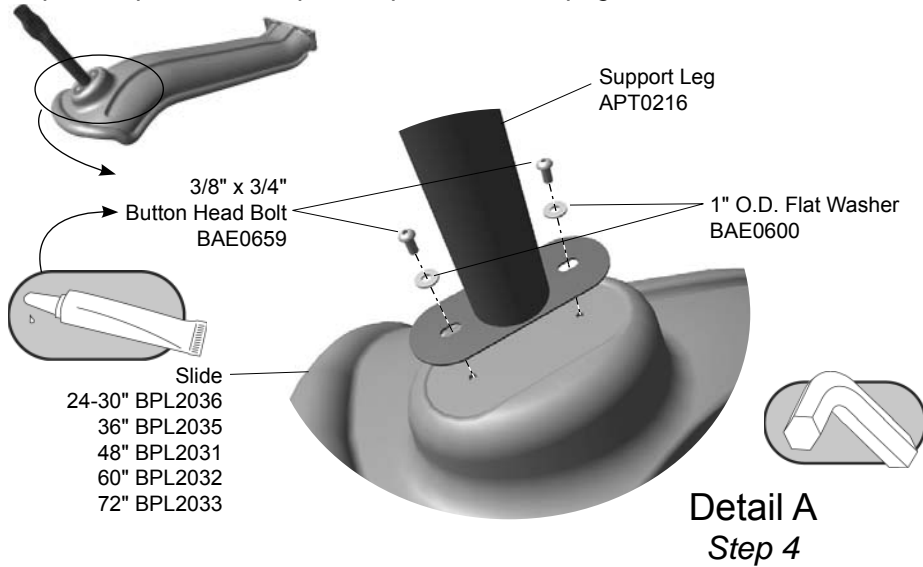


Elevation View PM2696 - 72" Glide Slide

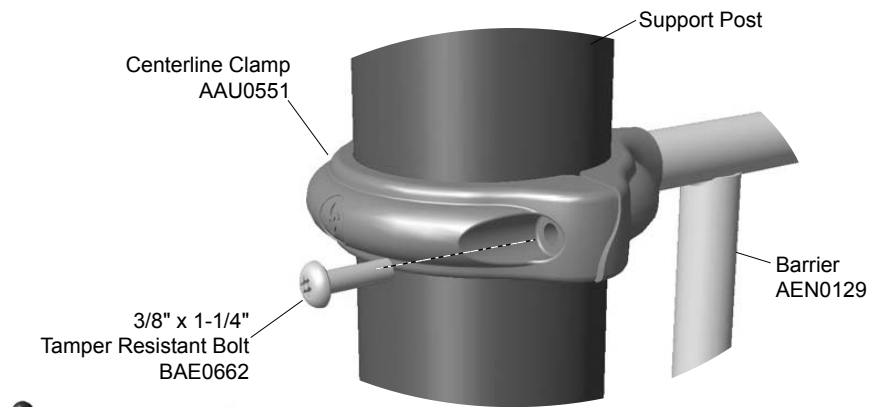
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

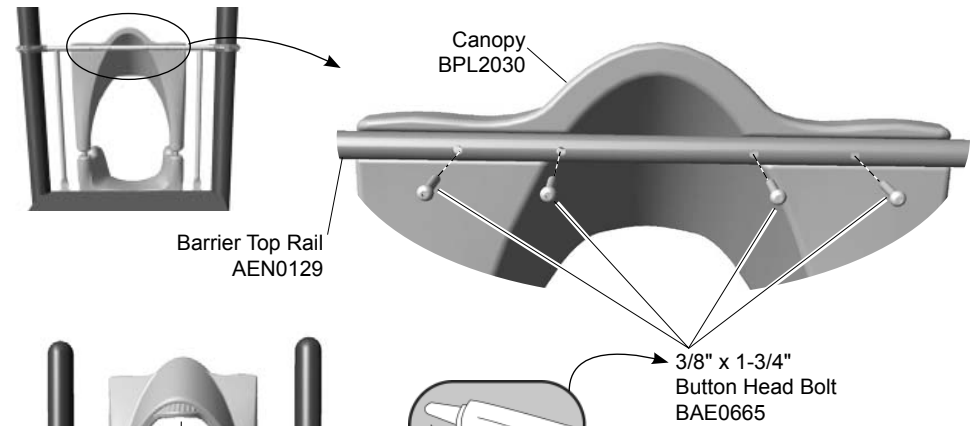
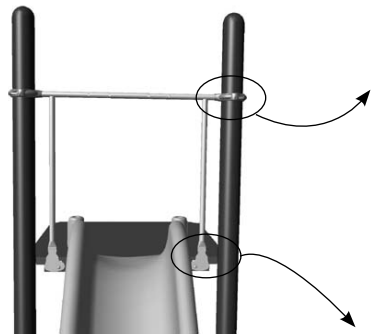
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



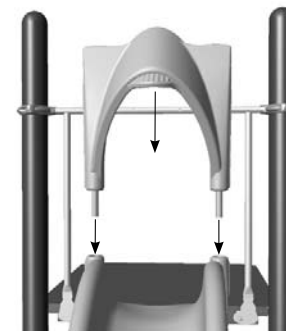
Installation Instructions



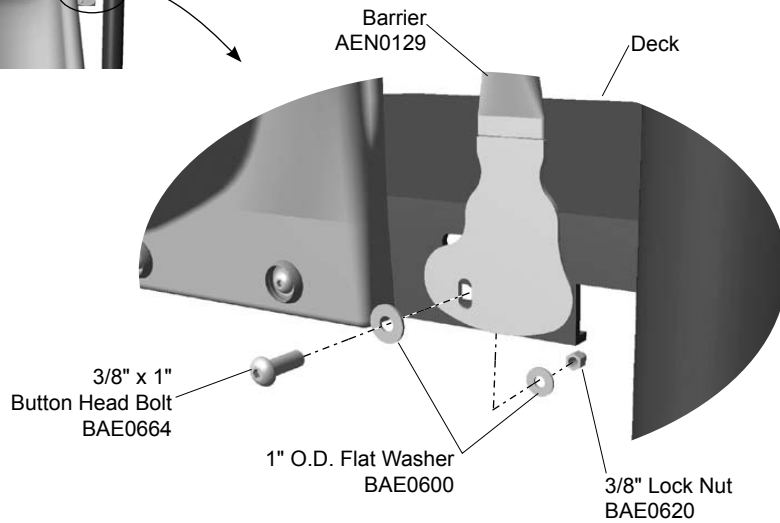
Detail D-1
Step 8



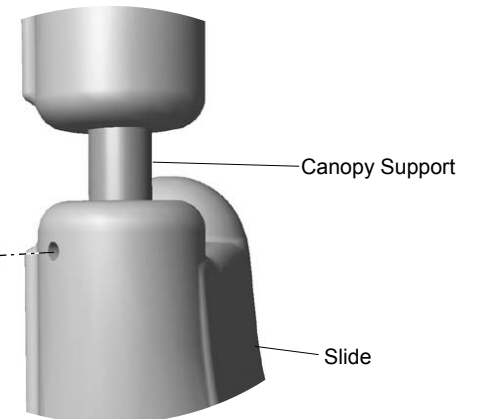
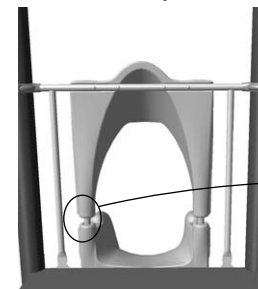
Detail E-2
Step 10



Detail E-1
Step 10



Detail D-2
Step 9

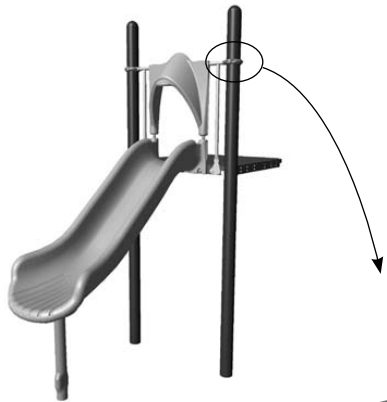


Detail F
Step 11

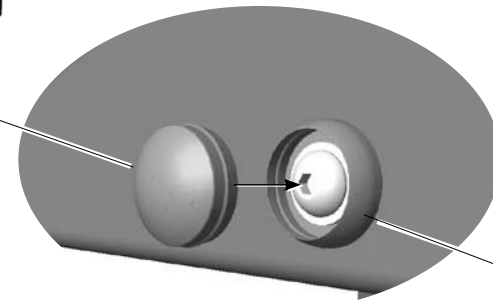
Installation Instructions



Step 12

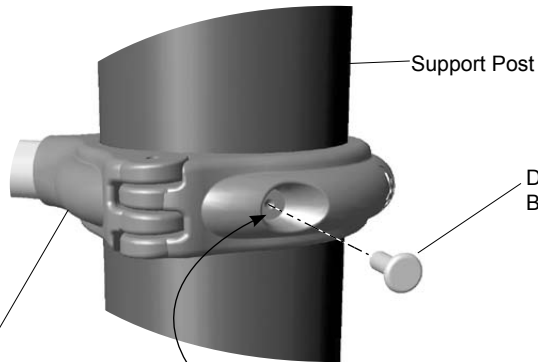


Bolt Cap
BPL0300



Plastic Washer
BPL0300

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



Support Post

Centerline Clamp
AAU0551

Drive Rivet
BAE0020

Detail G
Step 13

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" 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
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" 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
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" 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
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" 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
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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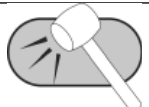

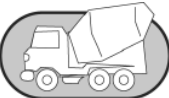

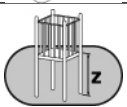
Installation Instructions
Playmakers[®] Model PM3106
36 in. (914 mm)
Wide Glide Slide



Assembly View

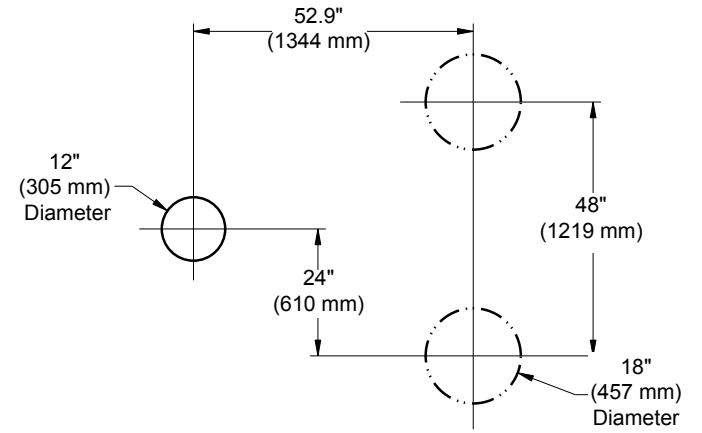
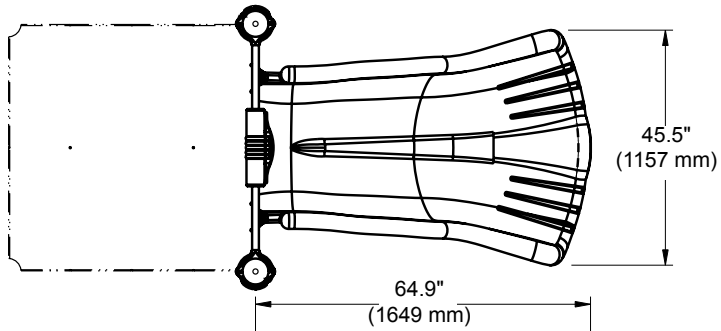
Installation Preparation

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

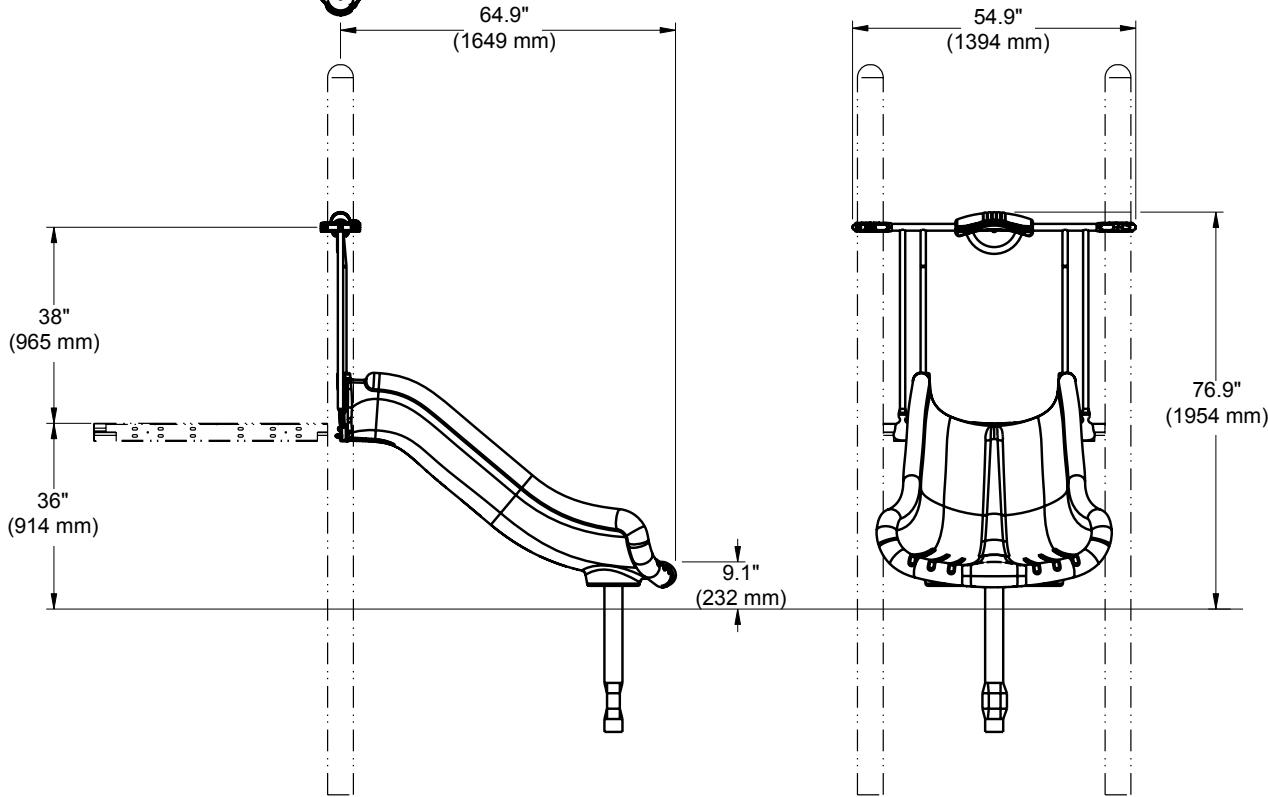
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

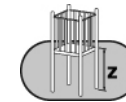
Top View



Footing Diagram



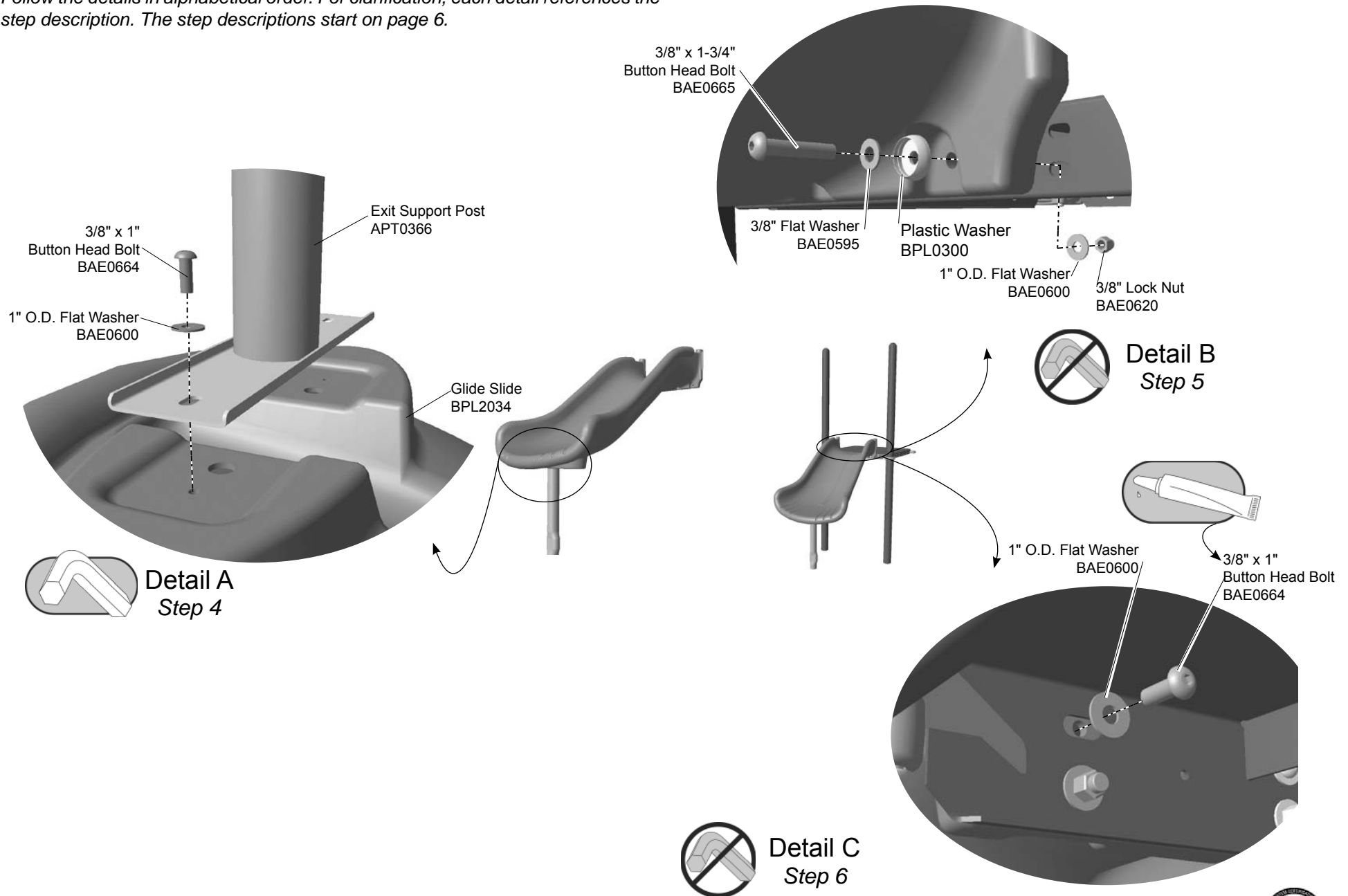
Elevation View



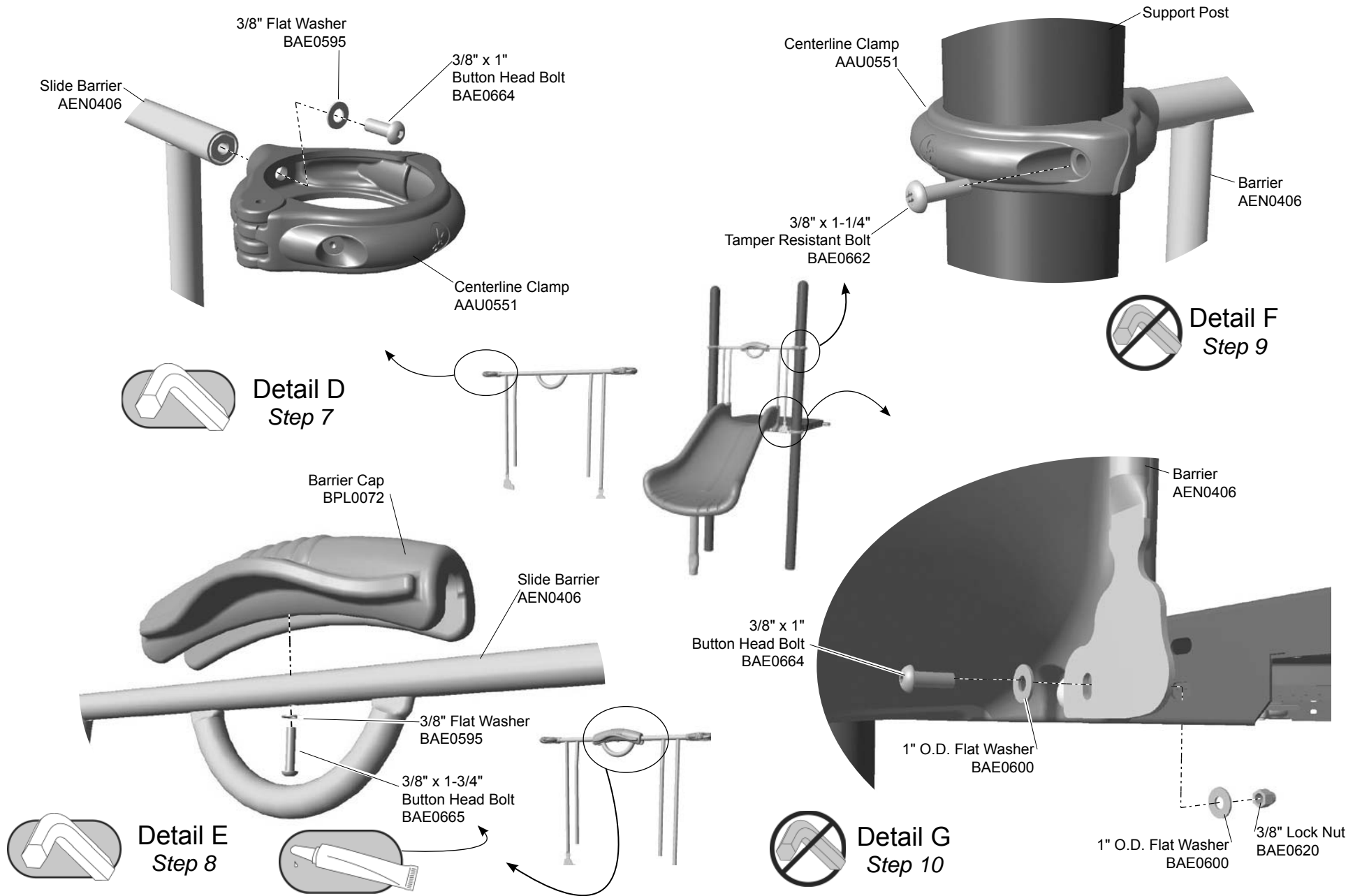
Critical Fall Height
36" (914 mm)

Installation Instructions

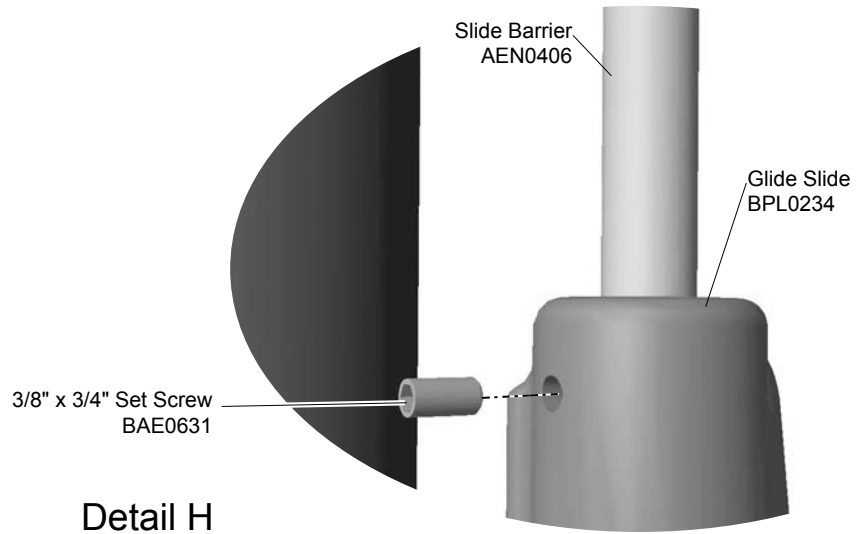
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.



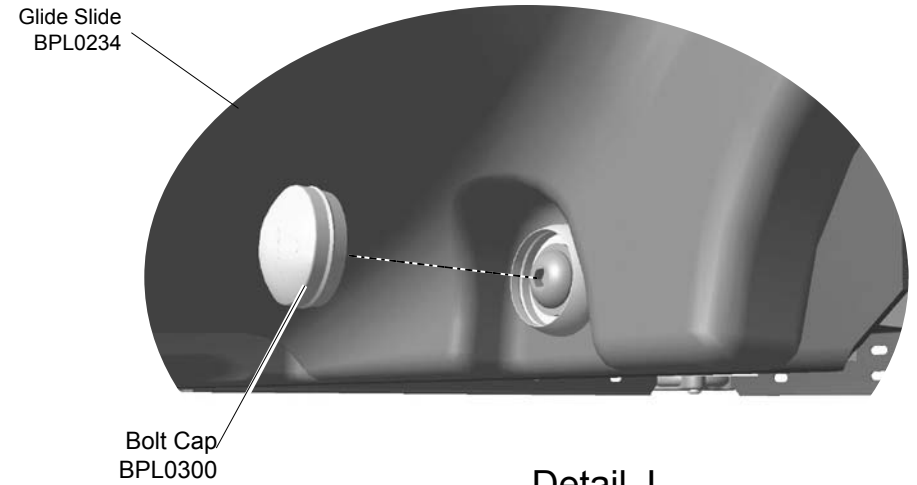
Installation Instructions



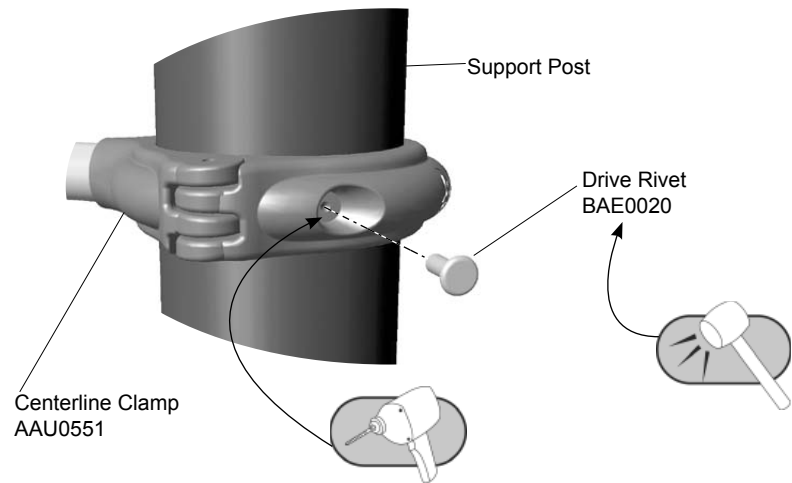
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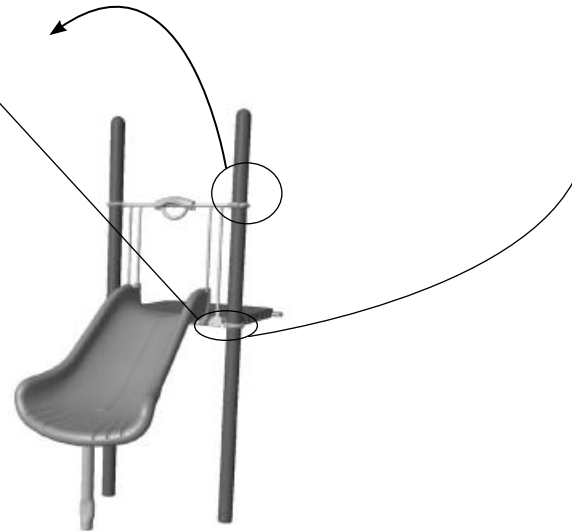
Detail H
Step 11



Detail J
Step 14



Detail I
Step 13



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 footings as shown in the **Footing Details**. Refer to the applicable footings notes included in the Playmaker Guidelines at the beginning of the printed instruction booklet. *(If viewing on the CD refer to ZZPMGUID.)*

Attach the exit support post to the slide.

Step 4: Attach the exit support post to the glide slide. See **Detail A**. Select the glide slide, the exit support post and the appropriate hardware. Position the exit support post under the slide and align the holes. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connections.

Attach the slide to the deck.

Step 5: Attach the slide to the deck. See **Detail B**. Select the slide assembly and the appropriate hardware. Using adequate manpower, position the slide against the deck with the leg in the excavated footing. Align the holes in the slide and the deck. *The middle of the slide bedway should be flush to, and level with, the deck.* Leave the connections loose for alignment adjustments. Attach as shown.

Note: Do not attach bolt caps until the structure is completely assembled and properly footed.

Step 6: Make the upper attachments to the slide and deck. See **Detail C**. Select the appropriate hardware. Apply a drop of loctite to the bolt threads and attach as shown.

Assemble the slide barrier.

Step 7: Attach the clamps to the slide barrier. See **Detail D**. Select the slide barrier and the appropriate hardware. Place the neck of each clamp against the end of the barrier top rail and align the holes. Turn the clamps so that hinges will be on the same side of the barrier and fully tighten the connections.

Step 8: Attach the barrier cap to the slide barrier. See **Detail E**. Select the barrier, the barrier cap, and the appropriate hardware. Place the barrier cap on top of the barrier and align the hole. Apply a drop of loctite to the bolt threads and attach as shown. Fully tighten the connection.

Attach the slide barrier to the support posts.

Step 9: Attach the barrier to the support posts. See **Details F**. Select the slide barrier and the appropriate hardware. With the cap hood facing out, lift the barrier into position and close the clamps around the support posts. Insert the barrier supports into the sockets on the slide and move the barrier down until it is fully seated. Insert and thread each bolt into a clamp. Adjust the height of the top rail to 38 in. (965 mm) above the deck, level and snug tighten the bolts.

Note: In the event of a clamp conflict with adjacent component, the barrier can be moved up as long as the rung can still be secured with the set screw.

Attach the slide barrier to the deck.

Step 10: Attach the slide barrier to the deck. See **Detail G**. Select the appropriate hardware. Align the barrier tab holes with either the upper or lower deck holes. Insert each bolt through a flat washer, through the barrier tab, through the deck, through another flat washer, and secure with a lock nut.

Secure the barrier rungs.

Step 11: Secure the inside barrier rungs to the slide. See **Detail H**. Thread each set screw into the slide until it is tight against the barrier rung.

Installation Instructions

Final Details.

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

In-ground: 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.

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

Step 13 : 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.

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.

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

PM3106 - 36 in. (914 mm) WIDE GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0406	BARRIER - 41" x 41-31/32" WIDE SLIDE	1
APT0366	POST - 3-1/2" O.D. x 28-13/16" EXIT SUPPORT w/LG PLATE	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	7
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0631	SCREW - 3/8"-16 x 3/4" SOCKET SET SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	5
BPL0072	CAP - 3-1/2" DIA. x 15" BARRIER	1
BPL0300	CAP - 3/8" BOLT	4
BPL2034	SLIDE - 36" WIDE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



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Assembly View





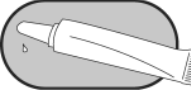


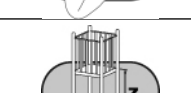
Installation Instructions

Playmakers[®] Model PM4290

Post Mounted Steering Wheel

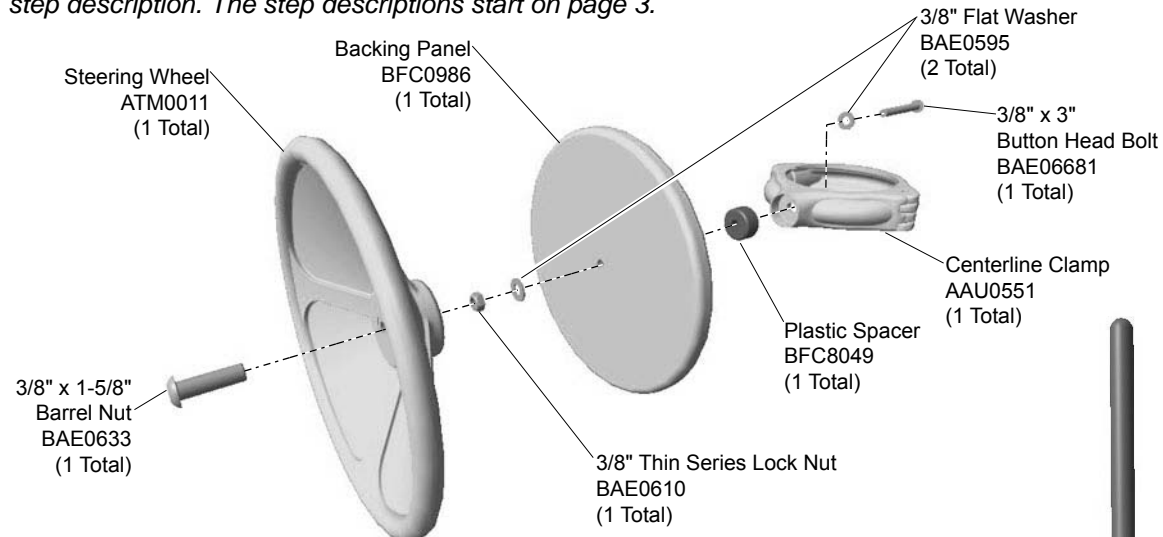
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 0.25 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

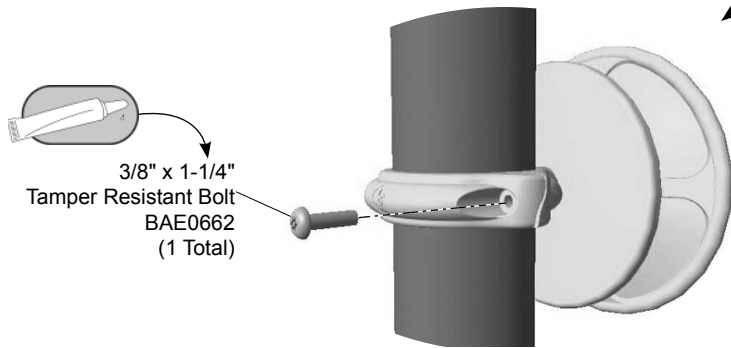
Installation Instructions

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



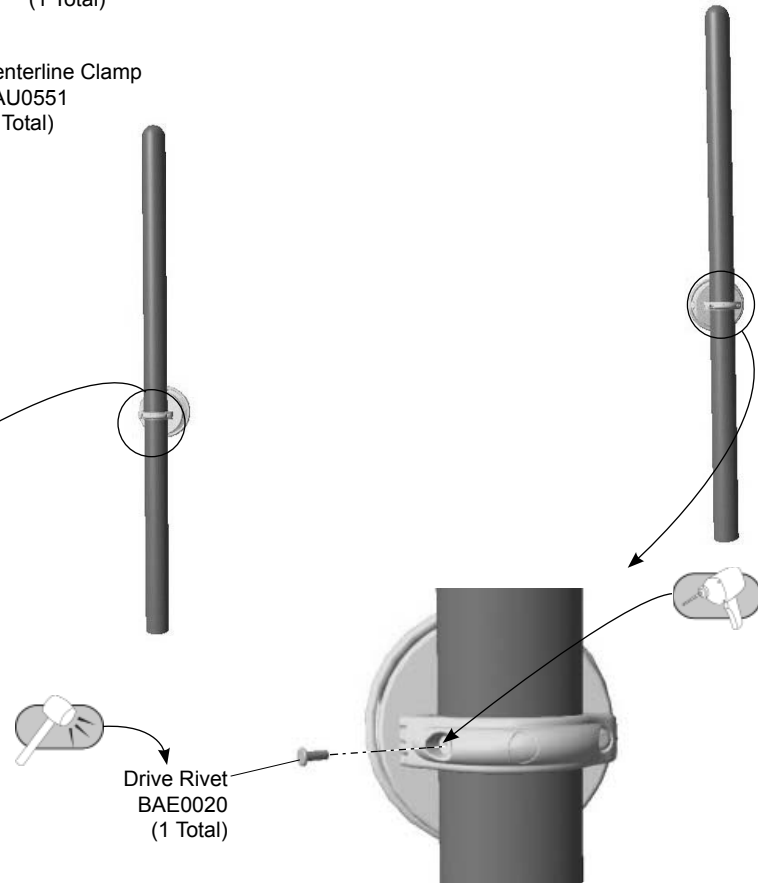
Detail A Step 3

Attach the steering wheel to the backing panel and the clamp.



Detail B Step 4

Attach the steering wheel assembly to the support post.



Detail C Step 6

Secure the clamp to the support post.

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 placement of the steering wheel.

Step 3: Attach the steering wheel to the backing panel and the clamp. See **Detail A**. Assemble the steering wheel as shown. Full tighten the connection according to tightening torque specifications (See **Final Details**).

Step 4: Attach the steering wheel assembly to the support post. See **Detail B**. Close the clamp around the support post at the height desired, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

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 the 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 7: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

PM4290 - POST MOUNTED STEERING WHEEL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	1
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	1
BFC0986	SHEET - 10.00" x .75" w/HOLE	1
BFC8049	SHEET - 1.39" O.D. x 7/16" I.D. SPACER	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1



Installation Instructions Playmakers® Model PM4537 Spin Racer Panel Deck Level



Assembly View

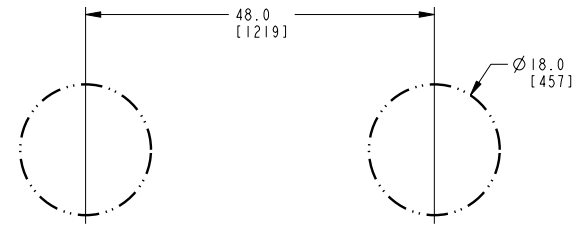
Installation Preparation

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

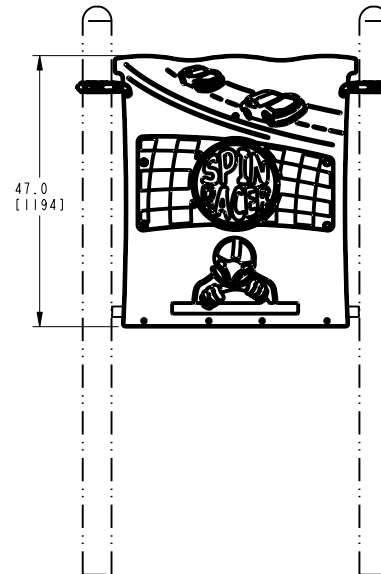
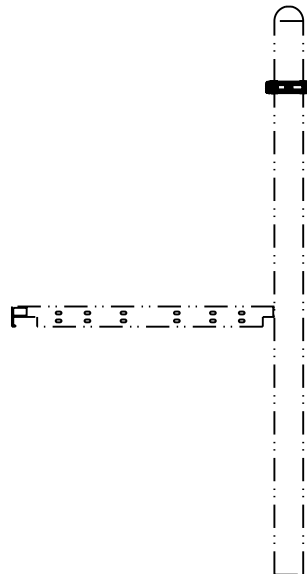
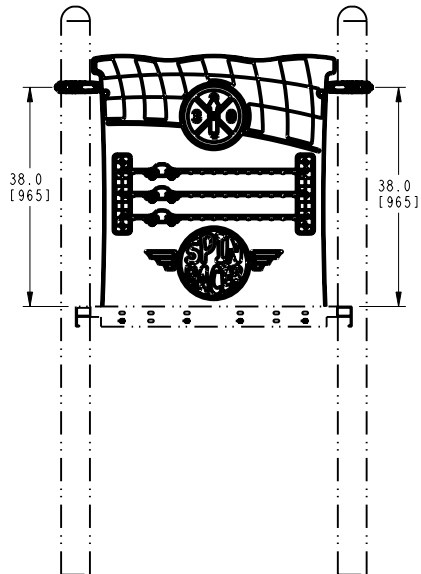
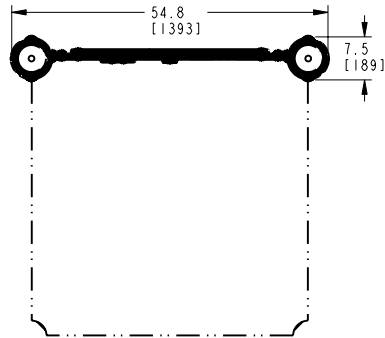
Installation Instructions

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



Footing Diagram

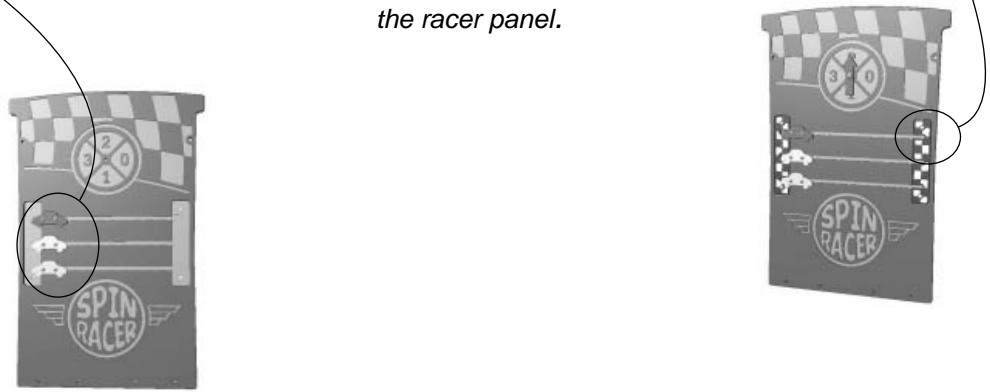
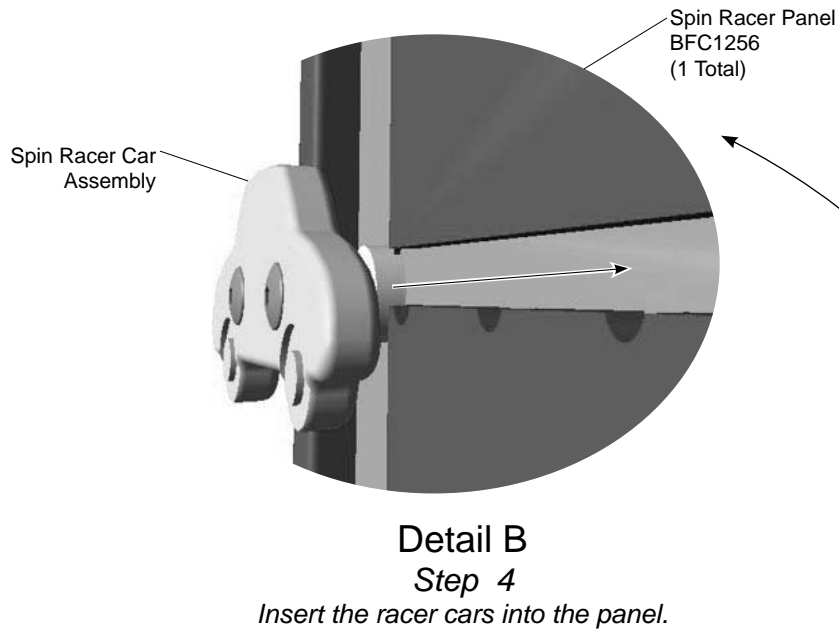
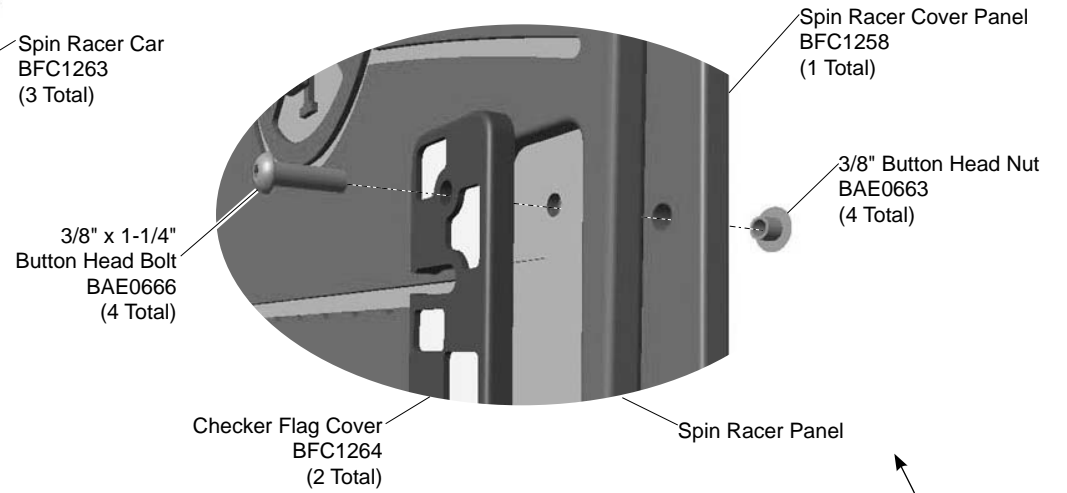
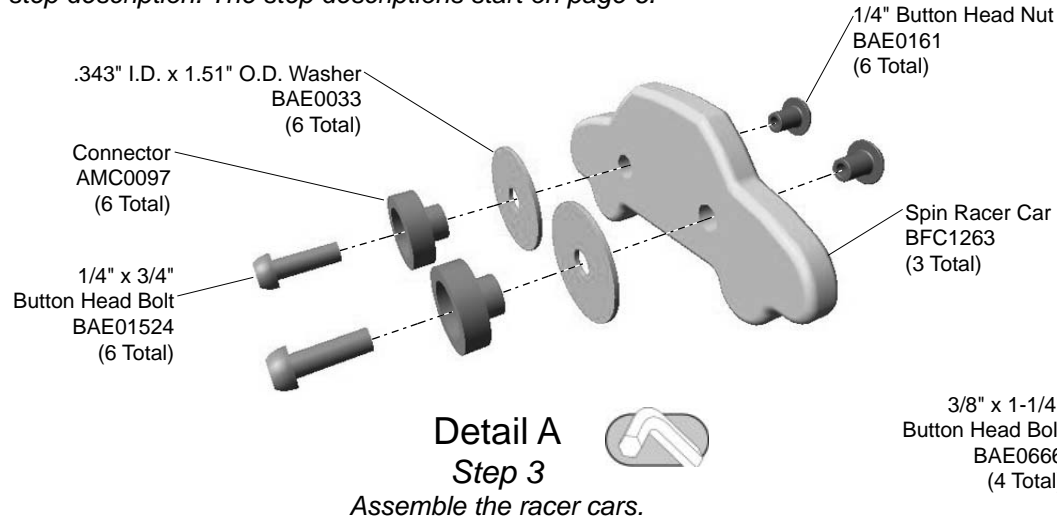
Top View



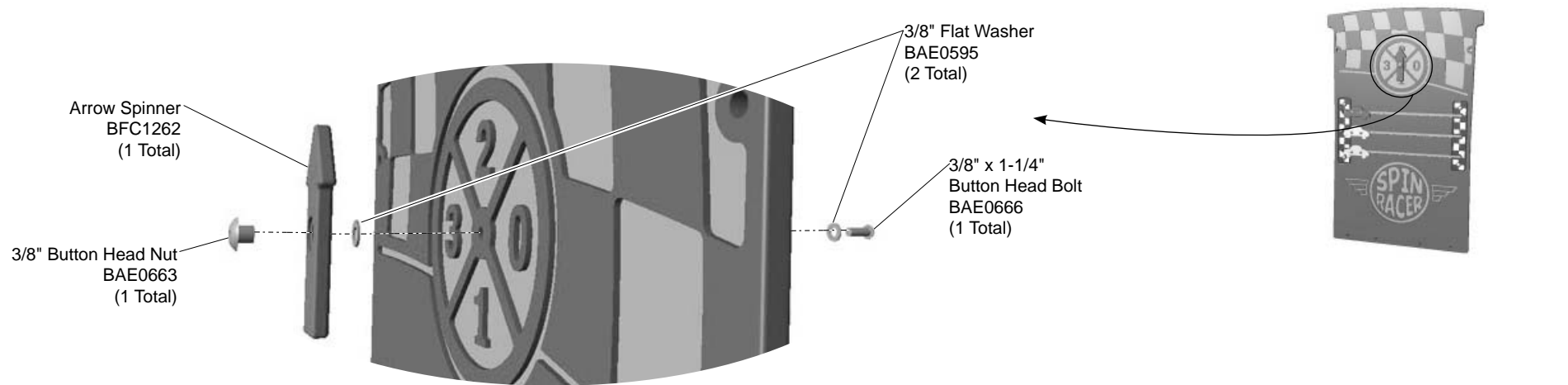
Elevation Views

Installation Instructions

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



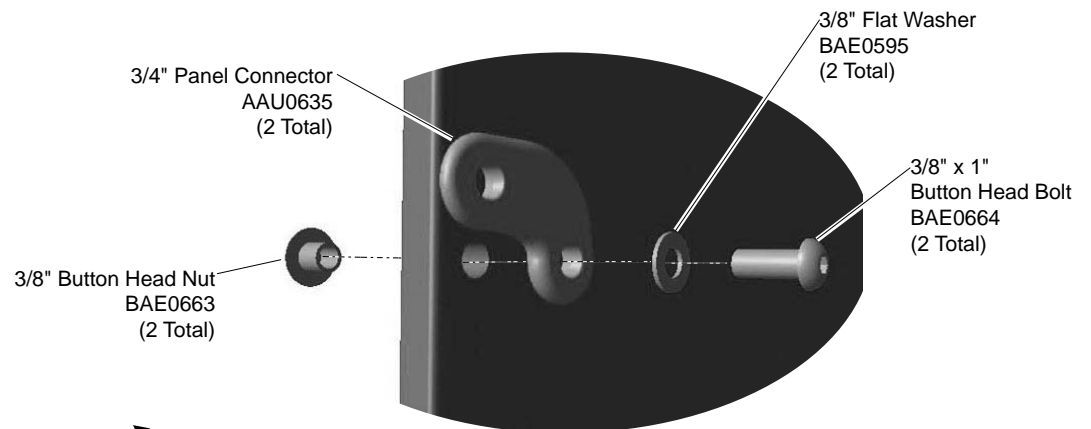
Installation Instructions



Detail D

Step 6

Attach the arrow spinner to the racer panel.



Detail E

Step 7

Attach the panel connectors to the top backside of the racer panel.

Installation Instructions

Centerline Clamp
AAU0620
(2 Total)

3/8" Flat Washer
BAE0595
(2 Total)

3/8" x 1" Button Head Bolt
BAE0664
(2 Total)

3/8" x 1-1/4" Tamper Resistant Bolt
BAE0662
(2 Total)

Support Post

Detail F
Step 8
Attach the centerline clamps to the panel connectors.

Detail H
Step 10
Attach the speed racer panel to the support posts.

Deck

3/8" x 1-1/2" Button Head Bolt
BAE06645
(4 Total)

3/8" Lock Nut
BAE0620
(4 Total)

1" O.D. Flat Washer
BAE0600
(4 Total)

Drive Rivet
BAE0020
(2 Total)

Detail G
Step 9
Attach the speed racer panel to the deck.

Detail I
Step 12
Secure the clamps to the support posts.

Note: The panel can be attached to the upper or lower deck holes depending on clamp conflict.

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: Assemble the racer cars. See **Detail A**. Assemble the racer cars as shown. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

Step 4: Insert the racer cars into the panel. See **Detail B**. Insert the racer cars into the tracks in the panel as shown. There is (1) one car per track.

Step 5: Attach the flag and racer cover panels to the racer panel. See **Detail C**. Insert the checker flag covers into the appropriate slots on the front of the racer panel. Position the racer cover panel against the back of the racer panel, align the holes and attach as shown. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

Step 6: Attach the arrow spinner to the racer panel. See **Detail D**. Position the arrow spinner over the numeric cutout section on the front of the racer panel and attach as shown. Fully tighten the connection being careful not to over tighten the bolt.

Step 7: Attach the panel connectors to the top backside of the racer panel. See **Detail E**. Position each panel connector so that the hole in the short leg aligns with the hole in the top of the panel. Panel connectors must all attach to the side of the panel opposite the cars. Leave the connections loose for alignment adjustment. Attach as shown.

Step 8: Attach the clamps to the panel connectors. See **Detail F**. Place the flat side of each clamp against the activity side of a connector. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 9: Attach the panel assembly to the deck. See **Detail G**. Position the panel against the deck and close the clamps around the support post and attach the panel to the lower holes in the deck as shown.

Note: The panel can be attached to the upper or lower deck holes depending on clamp conflict.

Step 10: Attach the racer panel to the support posts. See **Detail H**. Position the panel between the support posts at the height shown in the **Elevation View** and close the clamps around the support posts. 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. Remove the connector from both the panel and clamp before flipping and then reattach as shown in **Step 7** and **Step 8**. If possible, both the clamps should be mounted at the same height.

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.

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.

PM4537 - SPIN RACER PANEL DECK LEVEL

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AMC0097	CONNECTOR - 1 DIA x .57 w/HOLE	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0033	WASHER - .343" I.D. x 1.500" O.D.	6
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	6
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	6
BAE0595	WASHER - 3/8" SAE FLAT	6
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" TAMP RESIST w/TORX DRIVE	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
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	5
BFC1256	SHEET - 42.00" x 47.82" SPIN RACER PANEL	1
BFC1258	SHEET - 16.27" x 34.00" SPIN RACER COVER	1
BFC1262	SHEET - ARROW SPINNER	1
BFC1263	SHEET - SPIN RACER CAR	3
BFC1264	SHEET - CHECKER FLAG COVER	2

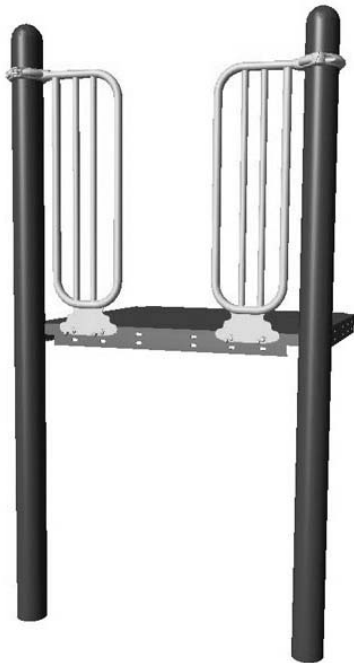
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Assembly View




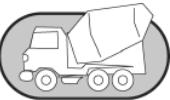
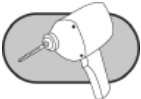


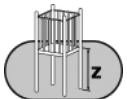
Installation Instructions

Playmakers[®] Model PM4288

Compliance Access Gate

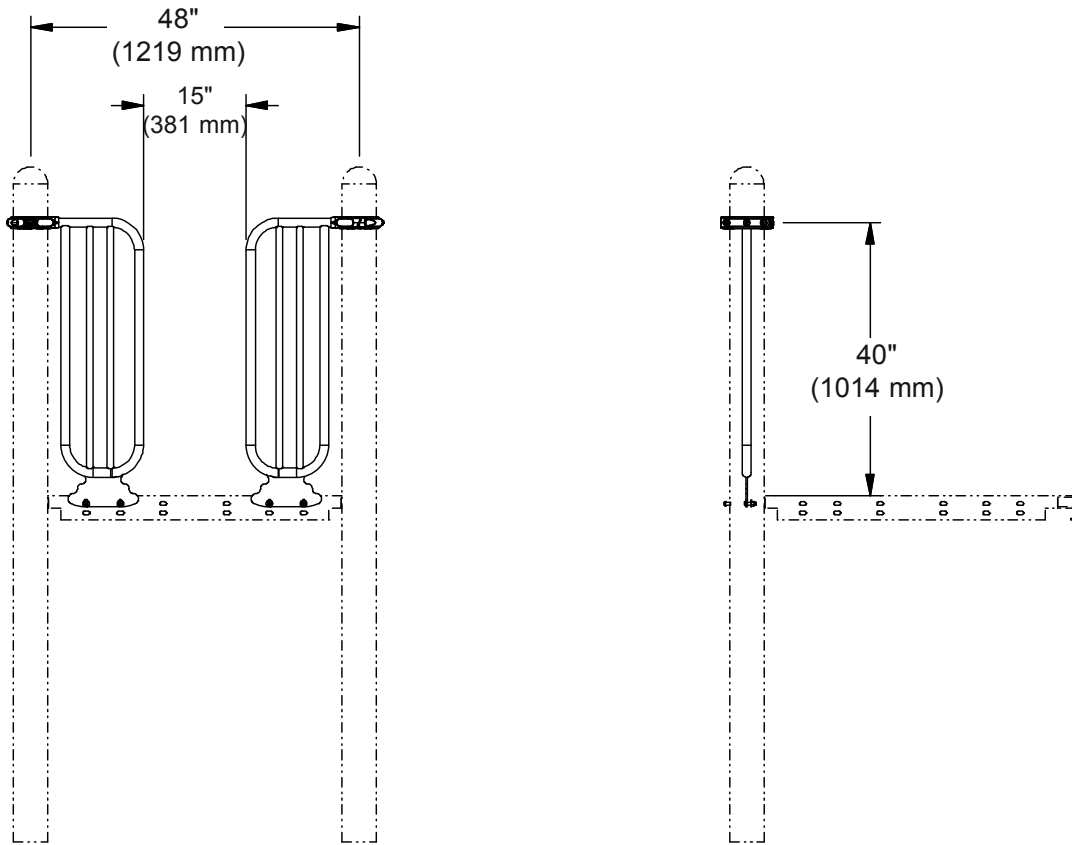
Installation Preparation

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

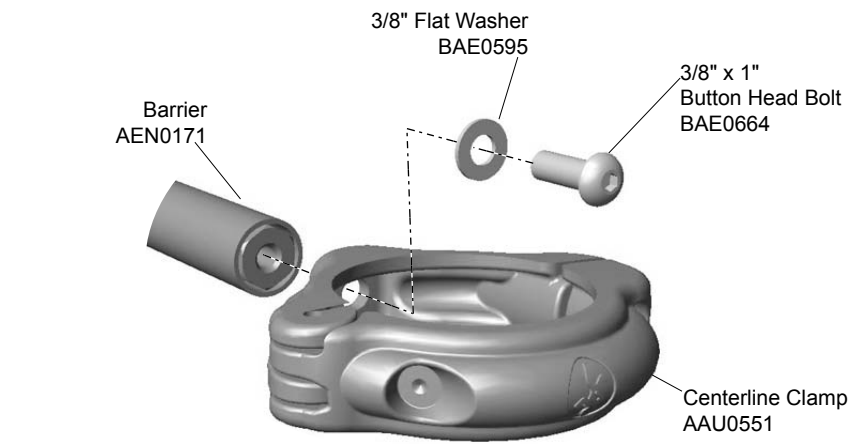
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



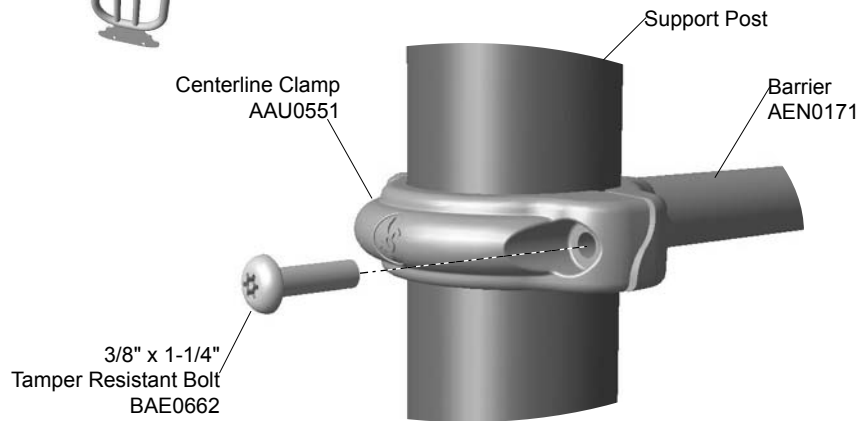
Elevation View

Installation Instructions

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

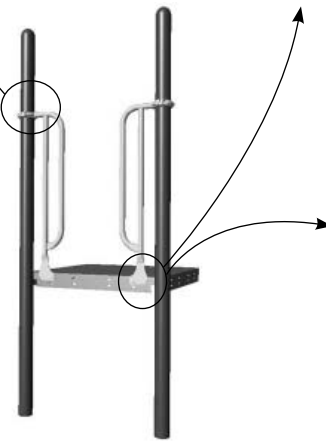
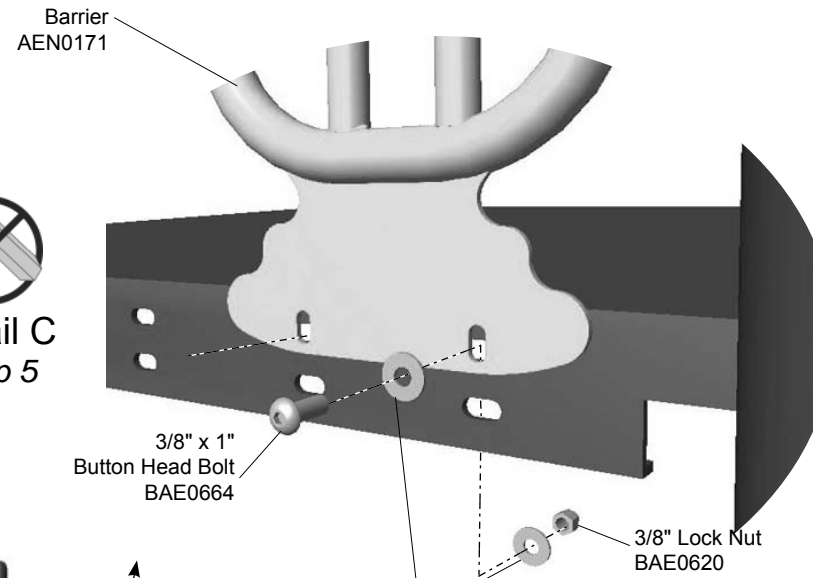


Detail A
Step 3

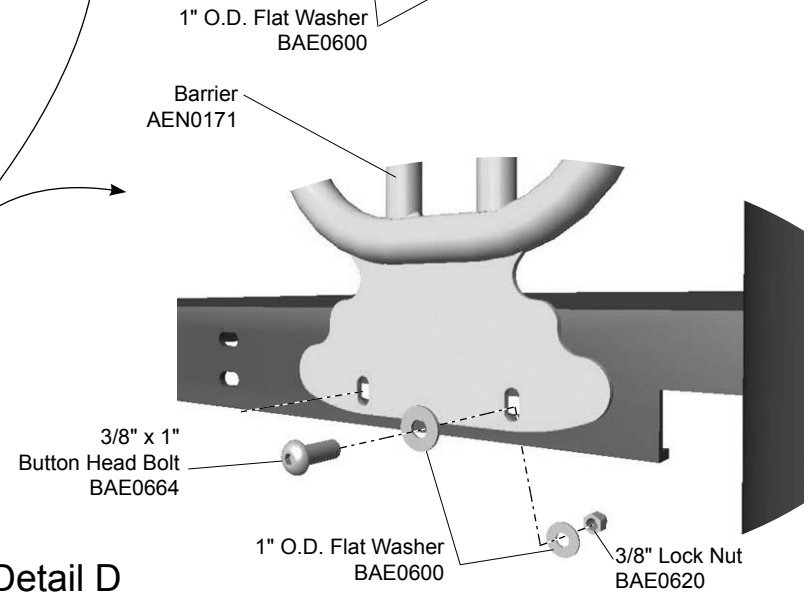


Detail B
Step 4

Detail C
Step 5



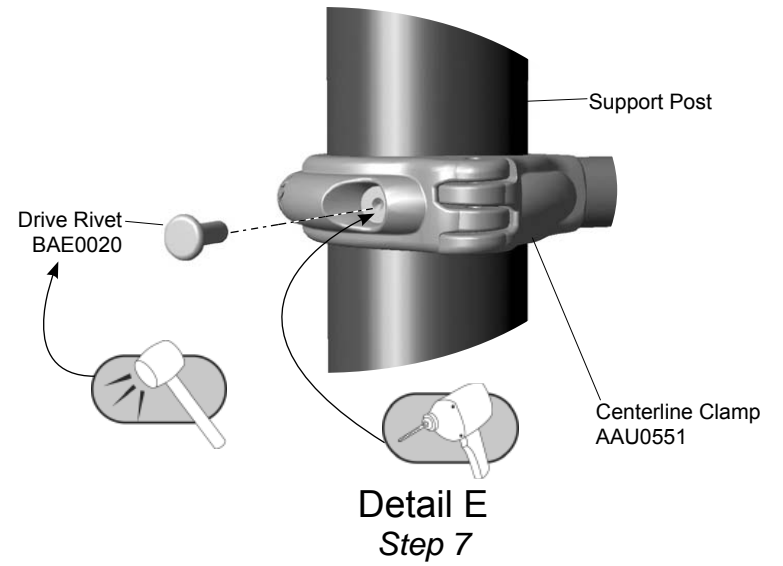
Detail D
Step 5



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.

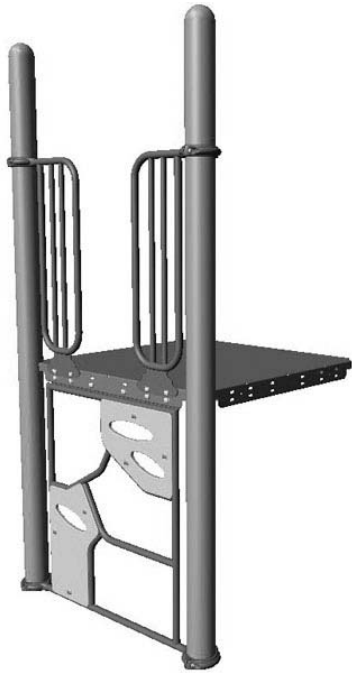
PM4288 - COMPLIANCE ACCESS GATE

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 (representative model)

Model	Deck Height
ZZPM6996	48" (1219 mm)
ZZPM6997	60" (1524 mm)
ZZPM6998	72" (1829 mm)

Installation Instructions






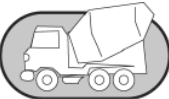

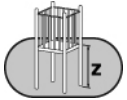
Playmakers[®] Models PM6996-98

GEO Vertical Climber

48 in. (1219 mm) to 72 in. (1829 mm) Deck Height

Installation Preparation

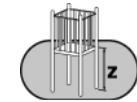
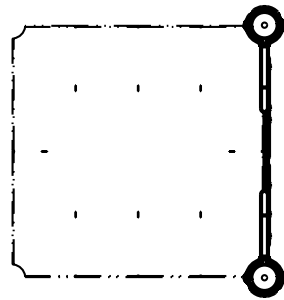
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

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

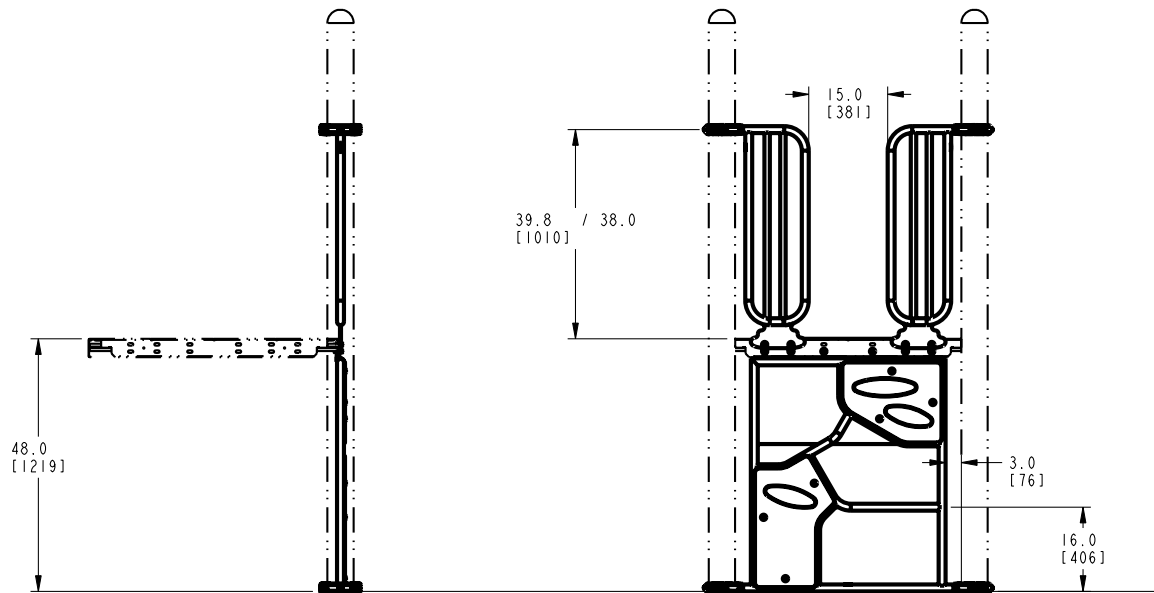
Installation Instructions

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

Top View



38" (965 mm)

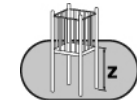
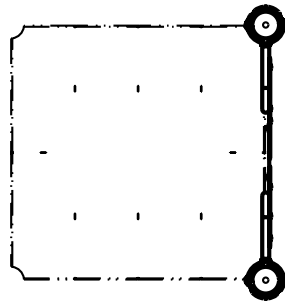


Elevation Views
PM6996

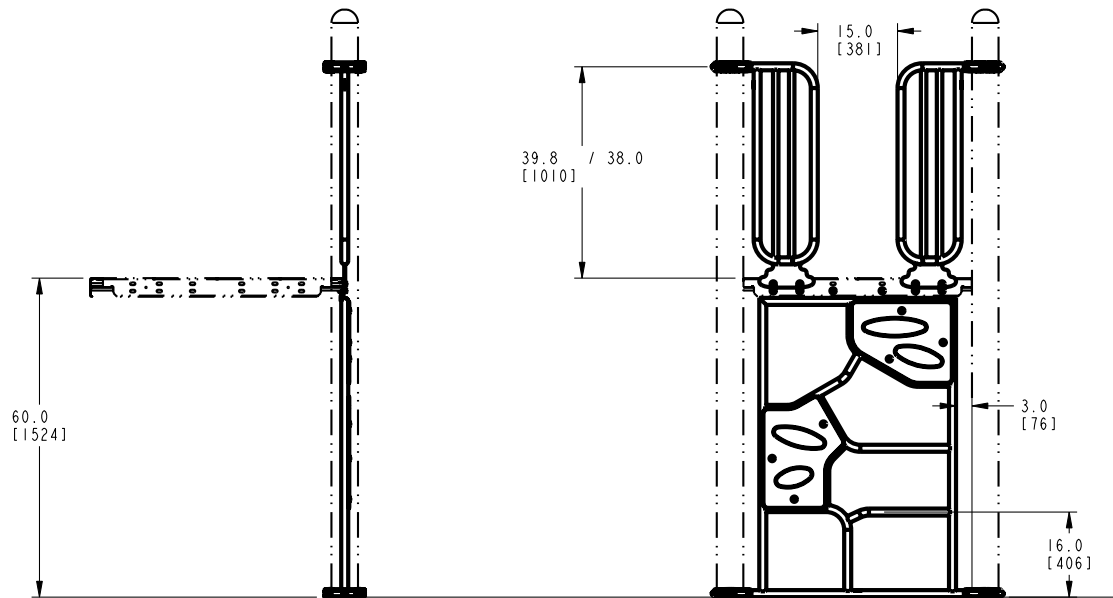
Installation Instructions

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

Top View



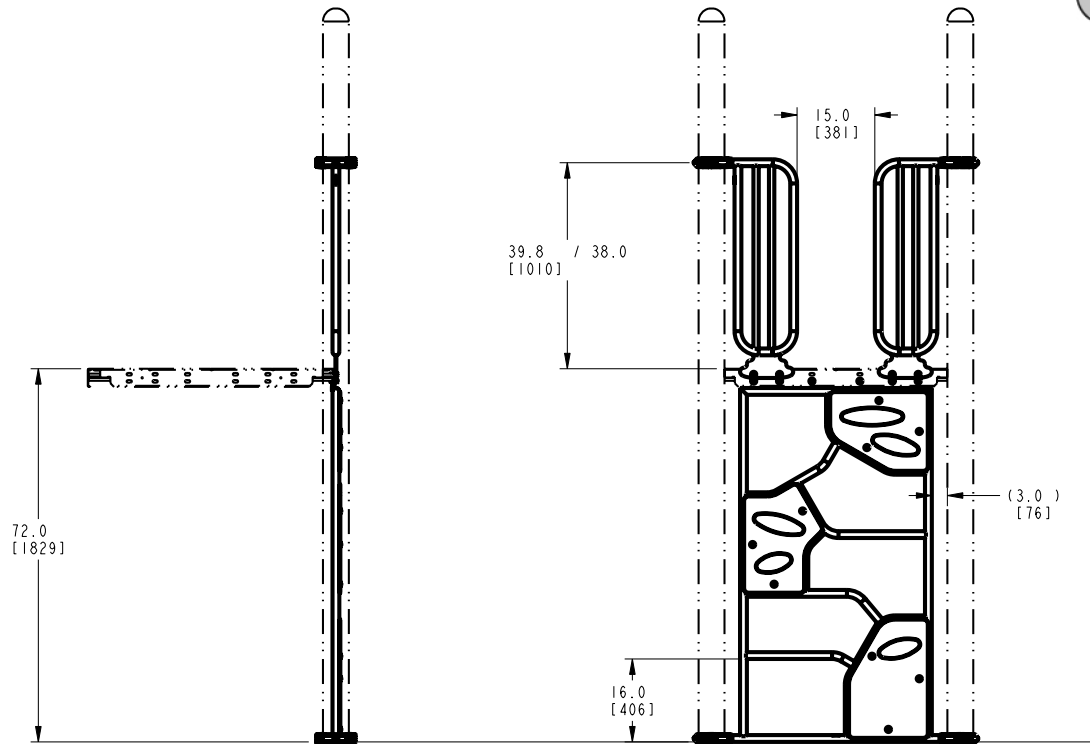
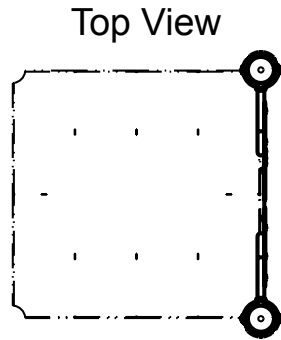
50" (1270 mm)



Elevation Views
PM6997

Installation Instructions

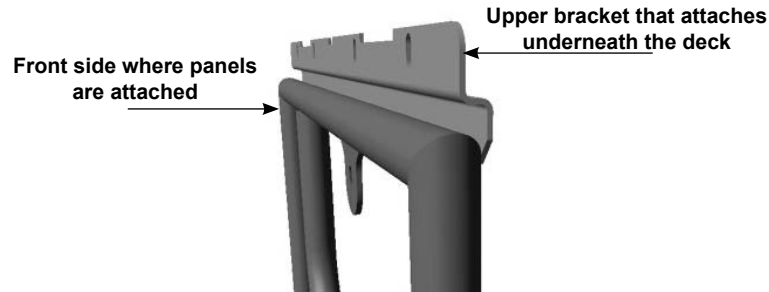
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



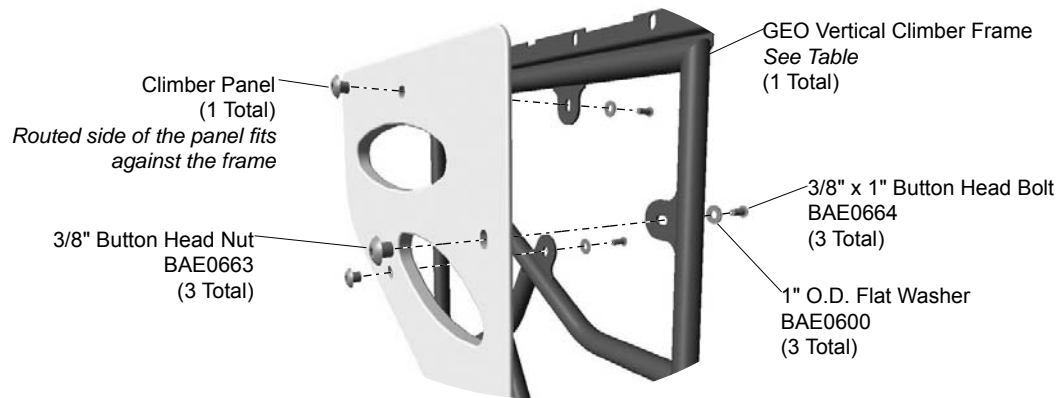
Elevation Views
PM6998

Installation Instructions

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



Climber frame orientation



Detail A

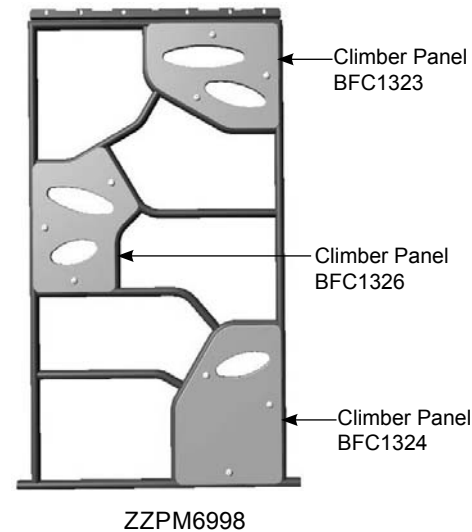
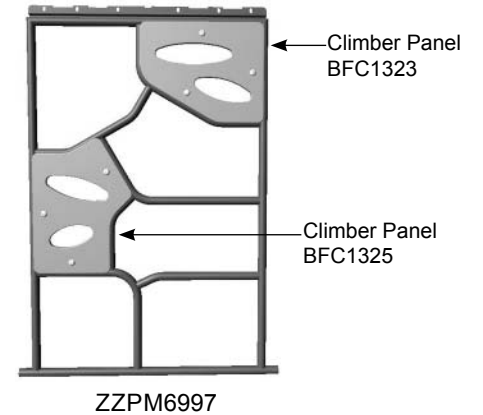
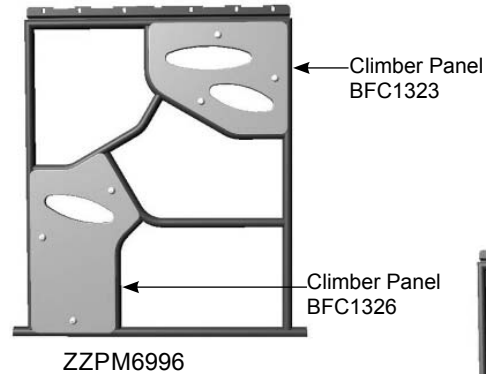
Step 3

Assemble the climber - Attach the panels

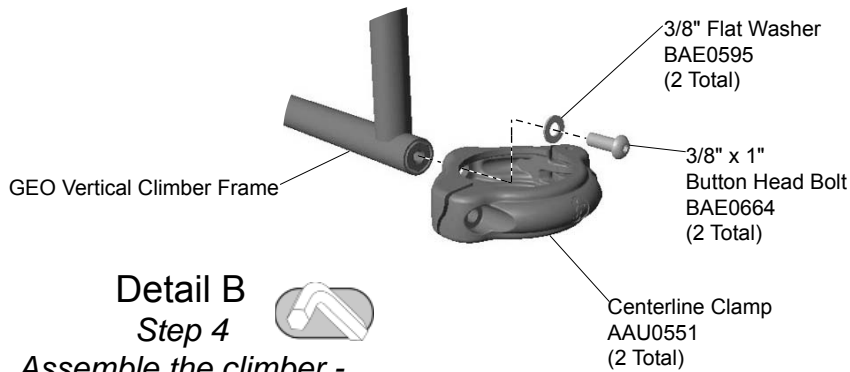


Note: there are (3) three connections per panel. See the references at right for placement and part number of the panels for each model.

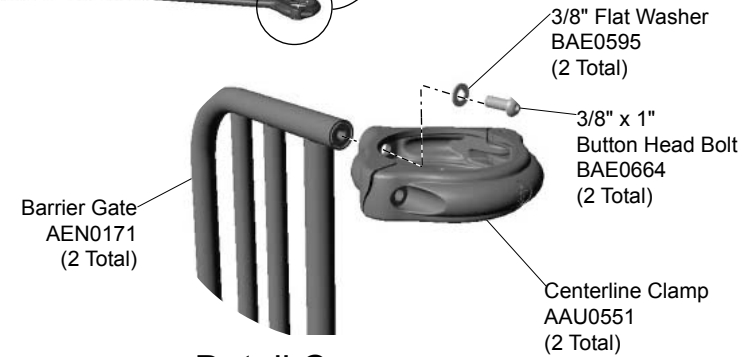
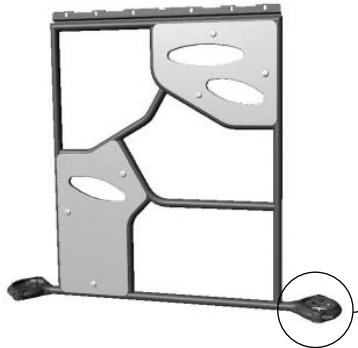
Model	Vertical Climber Part Number	Deck Height
ZZPM6996	ACL0264	48" (1219 mm)
ZZPM6997	ACL0263	60" (1524 mm)
ZZPM6998	ACL0262	72" (1829 mm)



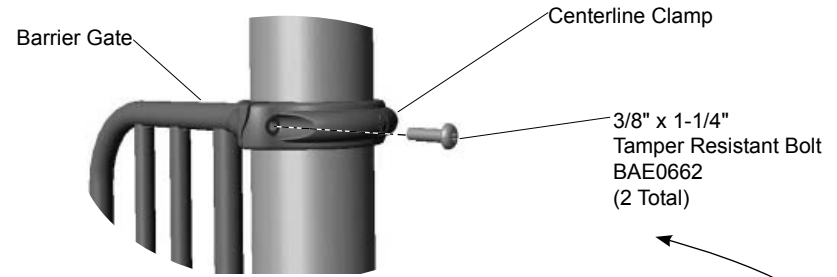
Installation Instructions



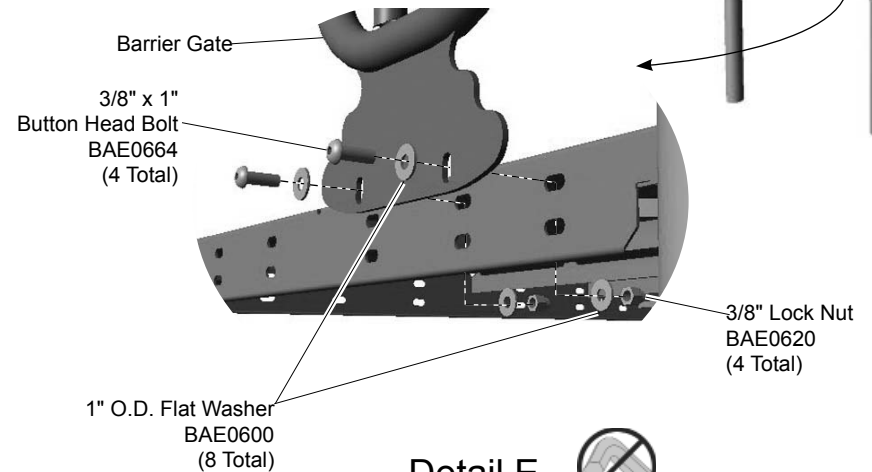
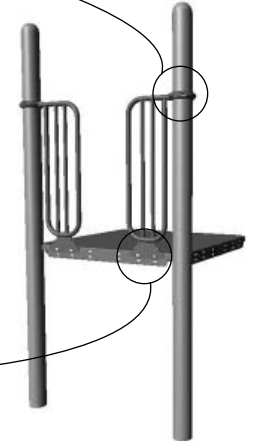
Detail B
Step 4
*Assemble the climber -
Attach the clamps to the
climber frame*



Detail C
Step 5
*Attach the clamps to the
barrier gates*



Detail D
Step 6
*Attach the gates to the
support posts*

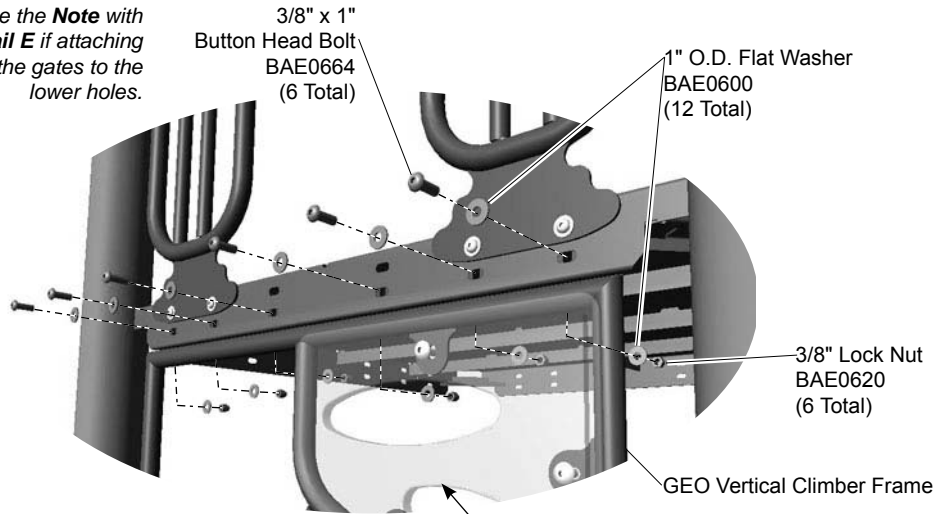


Detail E
Step 7
Attach the gates to the deck

Note: Gates are shown being attached to the upper holes in the deck. The gates can also be attached to the lower holes with the bolt then going through the climber bracket as shown in **Detail F**. If attaching through the lower holes, substitute the 1" bolts (BAE0664) with 1-1/4" bolts (BAE0666) which are also supplied with the climber.

Installation Instructions

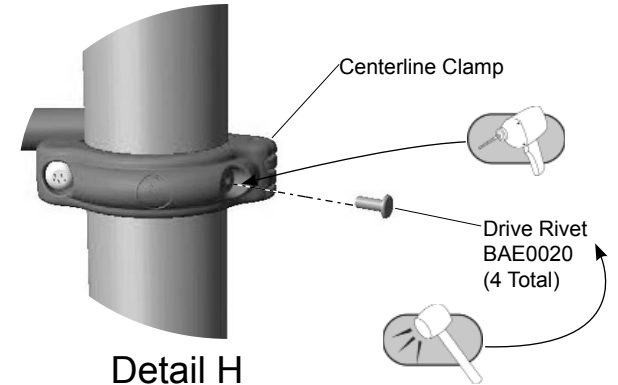
See the **Note** with **Detail E** if attaching the gates to the lower holes.



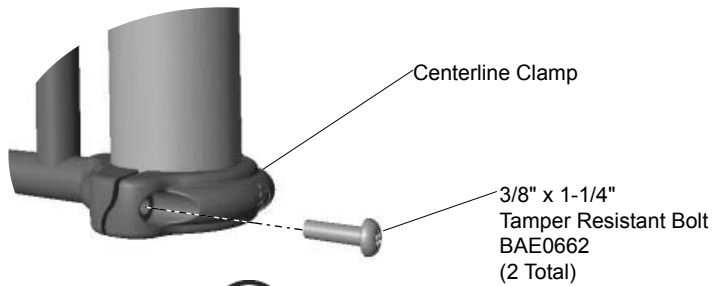
Detail F
Step 8

Attach the climber to the deck

Panel is shown transparent to allow for easy viewing of the connections.

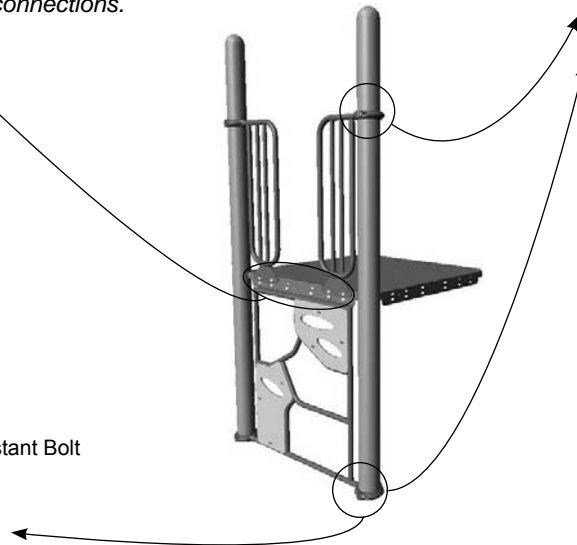


Detail H
Step 11
Secure the clamps to the support posts



Detail G
Step 9

Attach the climber 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.

Assemble the climber.

Step 3: Attach the panels to the climber. See **Detail A** and appropriate model reference. Attach the panels to the climber as shown. Fully tighten the connections.

Step 4: Attach the clamps to the climber. See **Detail B**. Attach the clamps to the climber as shown. Ensure the hinges on the clamps are facing the same direction.

Attach the clamps to the barrier gates.

Step 5: See **Detail C**. Attach the clamps to the barrier gates as shown. The hinges on the clamps should face the same direction.

Attach the barrier gates to the posts.

Step 6: See **Detail D**. Attach the gates to the posts as shown.

Attach the gates to the deck.

Step 7: See **Detail E**. Attach the gates to the upper holes in deck as shown. The gates can be attached to the lower holes in the deck if needed. When attaching to the lower holes, the bolt will need be inserted through the climber bracket as shown in **Detail F**.

Attach the climber to the deck.

Step 8: See **Detail F**. Place the climber between the posts and beneath the deck, with the clamps around the support posts, and attach to the deck as shown.

Attach the climber to the support posts.

Step 9: See **Detail G**. Attach the clamps to the posts 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 installed.

PM6996 - GEO VERTICAL CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ACL0264	CLIMBER - GEO VERTICAL (48" DECK) (PM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	26
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BFC1323	SHEET - 15.45" x 19.08" INFILL	1
BFC1326	SHEET - 15.27" x 25.10" INFILL	1

PM6997 - GEO VERTICAL CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ACL0263	CLIMBER - GEO VERTICAL (60" DECK) (PM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	26
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	20
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BFC1323	SHEET - 15.45" x 19.08" INFILL	1
BFC1325	SHEET - 15.27" x 21.10" INFILL	1

PM6998 - GEO VERTICAL CLIMBER 72 in. (1829 mm) DECK

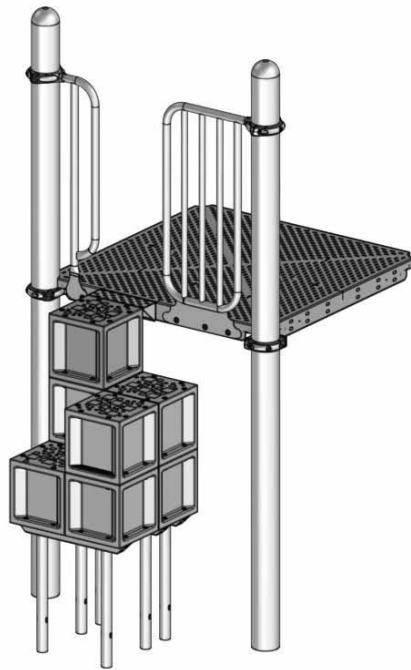
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ACL0262	CLIMBER - GEO VERTICAL (72" DECK) (PM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	29
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	10
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	9
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	23
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BFC1323	SHEET - 15.45" x 19.08" INFILL	1
BFC1324	SHEET - 15.45" x 23.08" INFILL	1
BFC1325	SHEET - 15.27" x 21.10" INFILL	1



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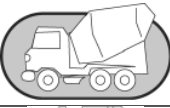


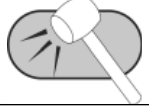
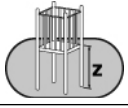
Assembly View (representative model)

Installation Instructions

Playmakers® Models PM7087 and PM7087S
QuBits™ Block Climber 36 in. (914 mm) Decks
In-ground and Surface Mount

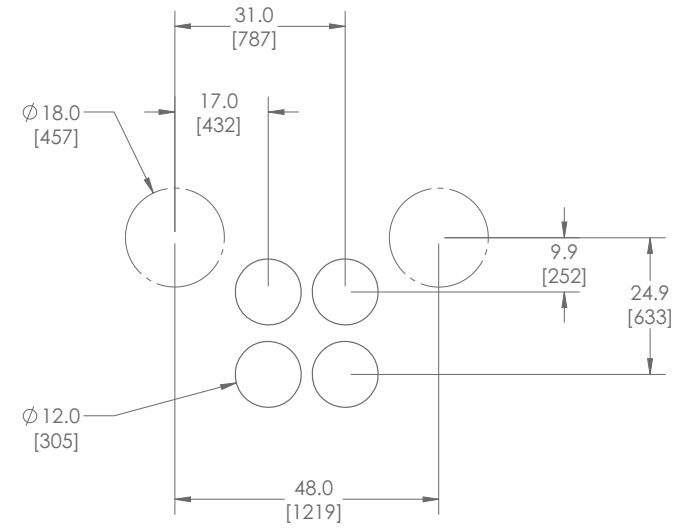
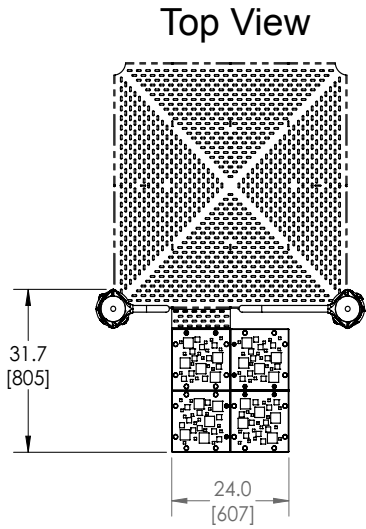
Installation Preparation

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

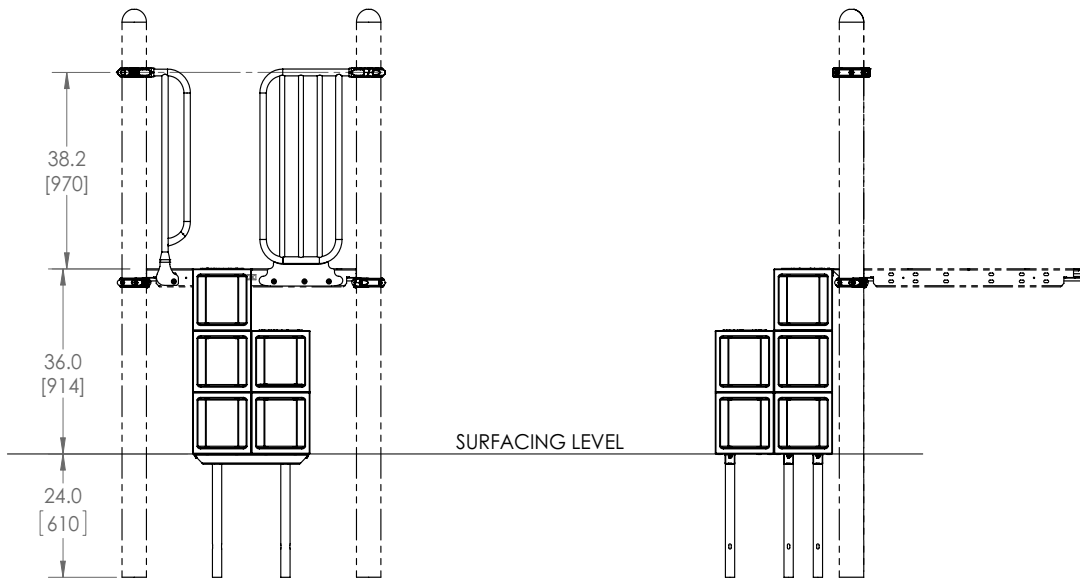
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

Installation Instructions

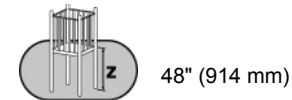
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



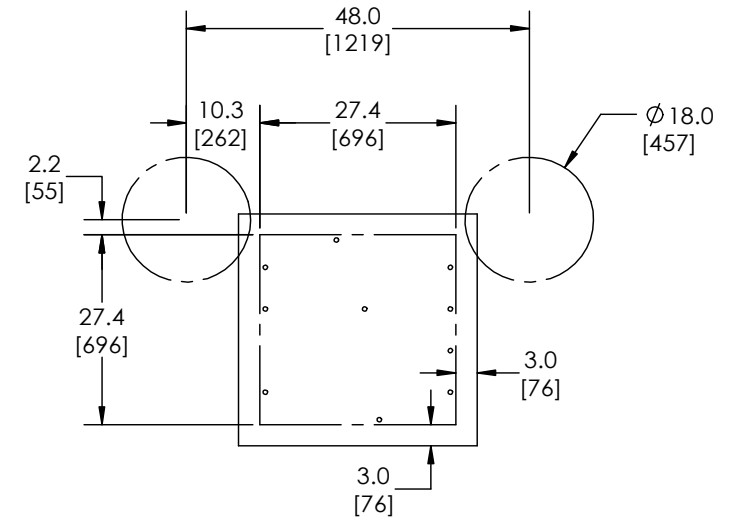
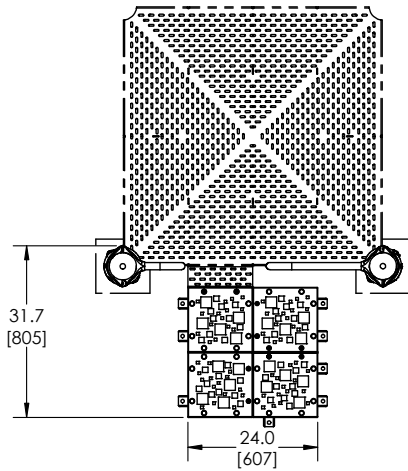
Elevation Views
PM7087



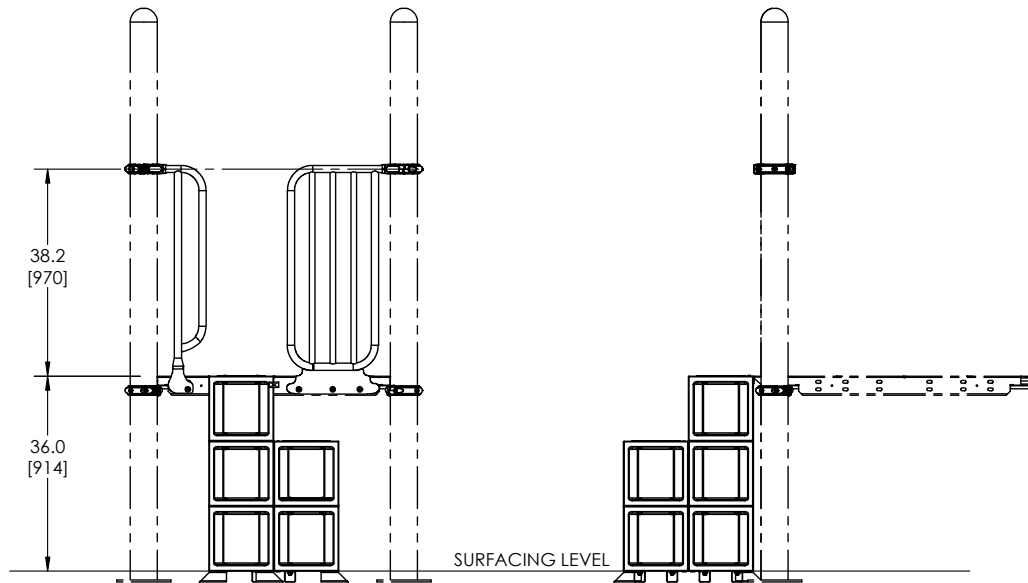
Installation Instructions

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

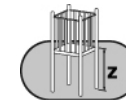
Top View



Footings Diagram



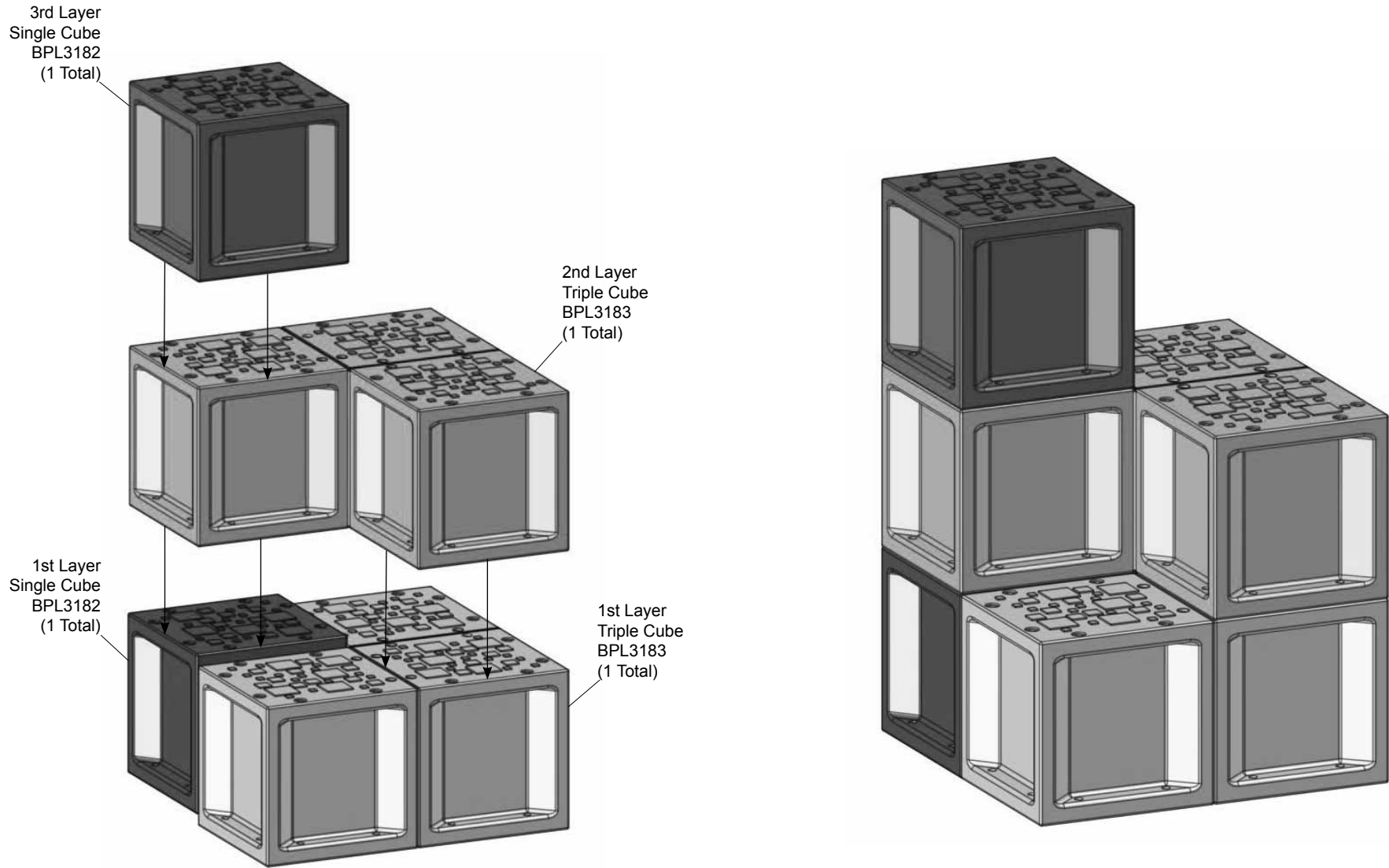
Elevation Views
PM7087S



48" (914 mm)



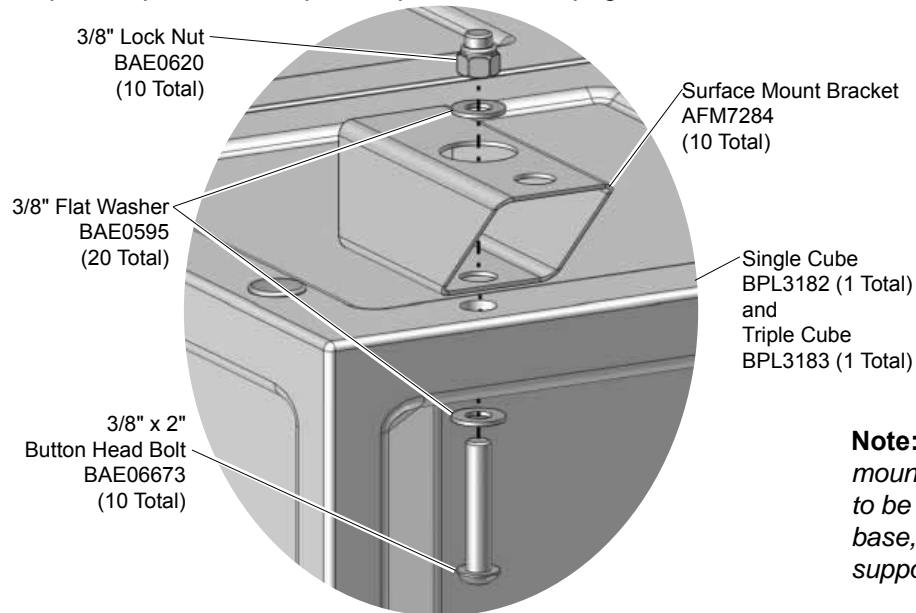
Installation Instructions



Cube Placement for PM7087 and PM7087S

Installation Instructions

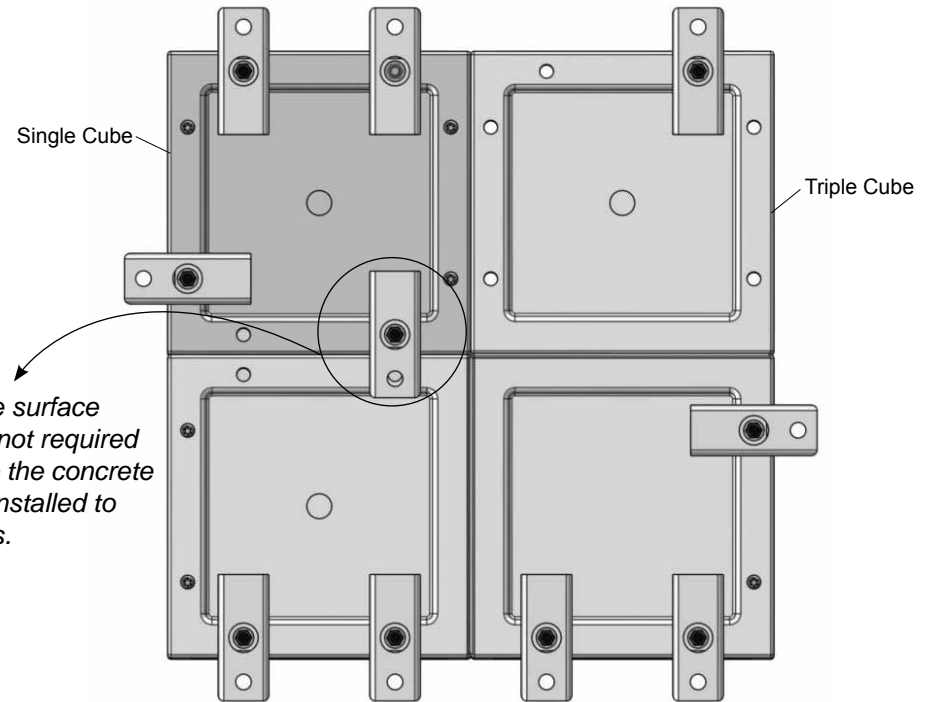
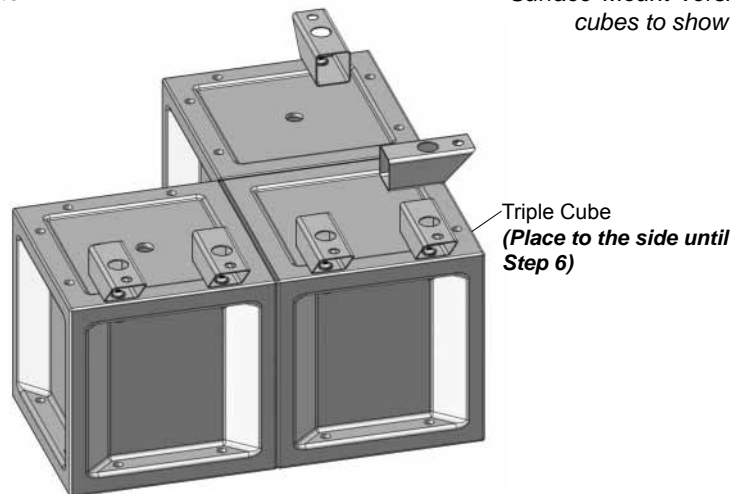
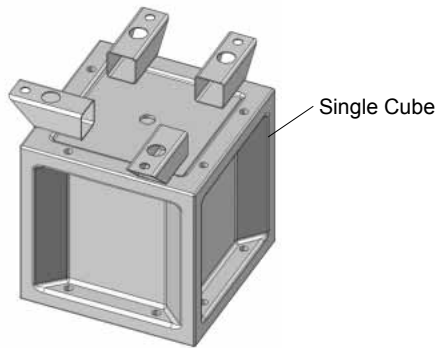
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 16.



Detail A
Step 4

(Surface Mount Model Only)

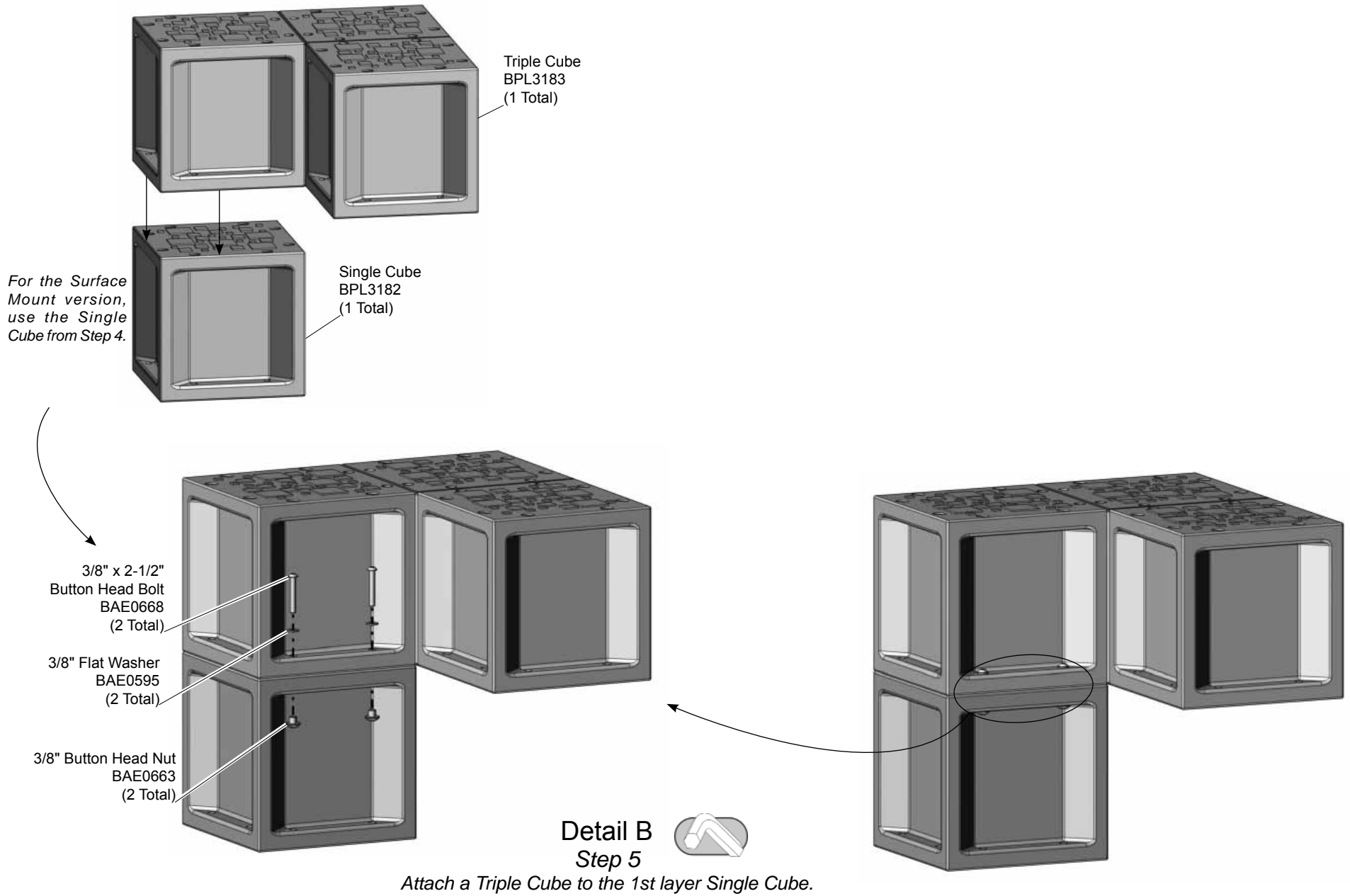
Attach the surface mount brackets to the bottom of the cubes for the 1st layer.



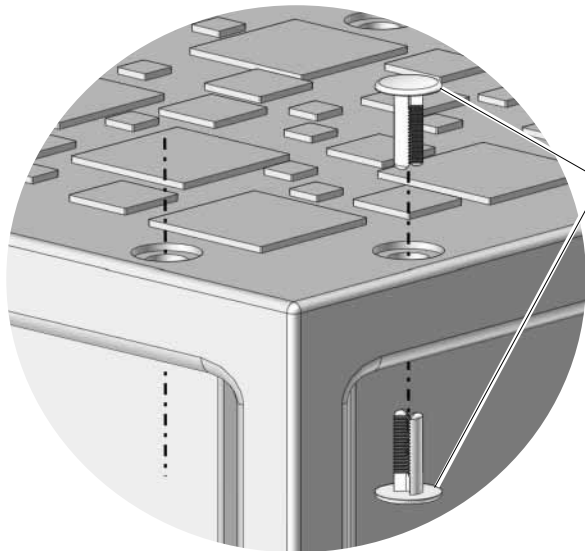
Note: *This middle surface mount bracket is not required to be anchored to the concrete base, it must be installed to support the cubes.*

Surface Mount version shown from underneath the assembled cubes to show placement of surface mount brackets.

Installation Instructions



Installation Instructions

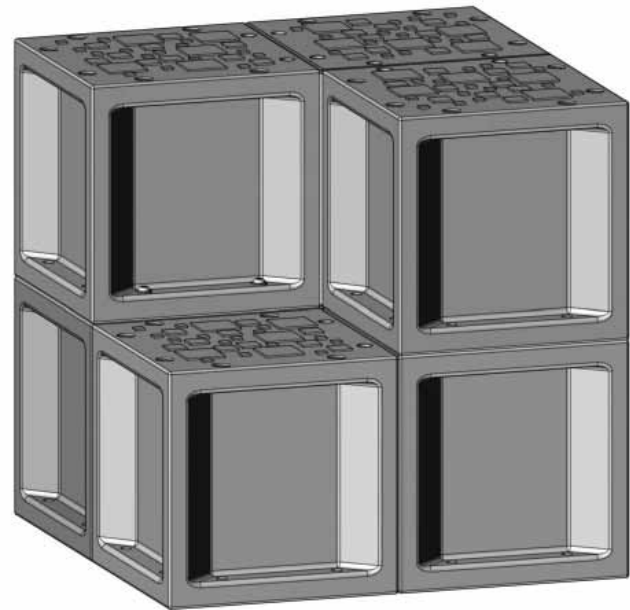


Ratchet Rivet
BPL3193
(4 Total)

Detail C Step 6

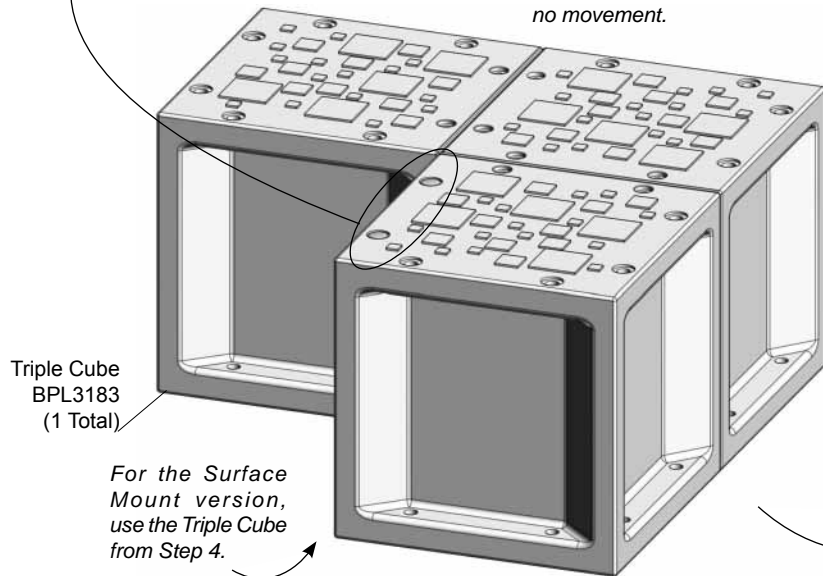
Plug two holes on the 1st layer
Triple Cube.

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.



Detail D Step 7

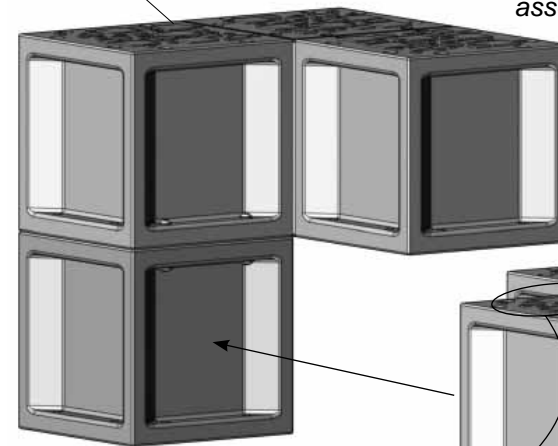
Place the Triple Cube under the cube assembly.



Triple Cube
BPL3183
(1 Total)

For the Surface Mount version, use the Triple Cube from Step 4.

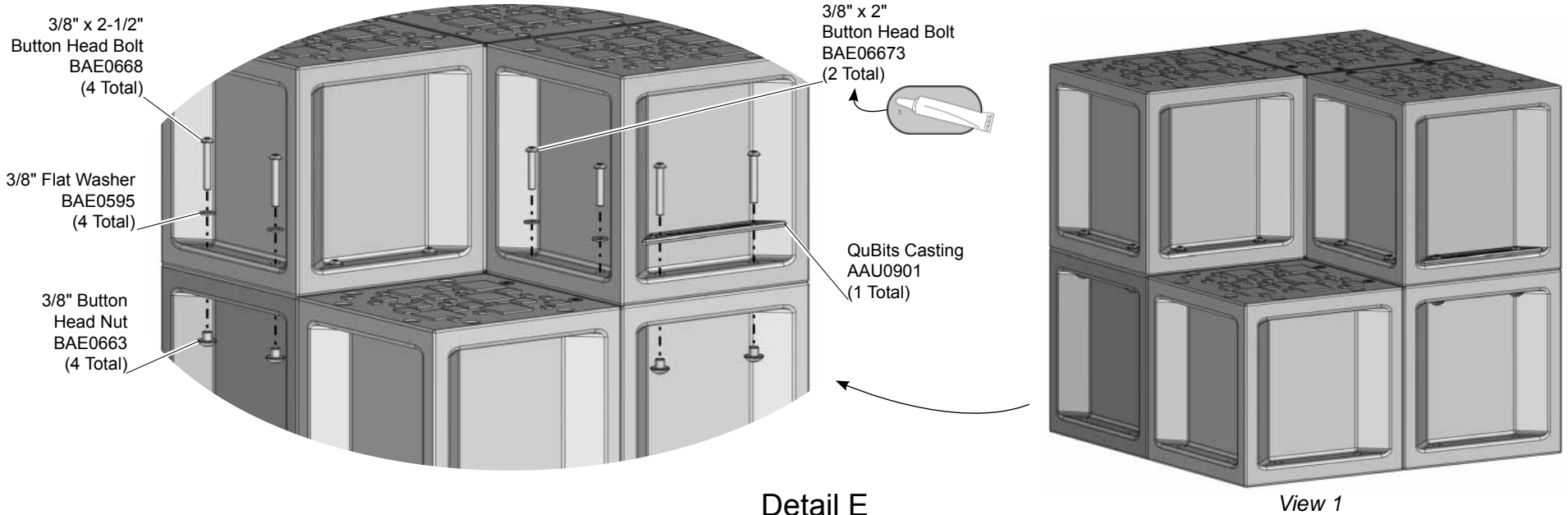
Cube Assembly
from Step 5



Triple Cube

Plugged holes from Step 6

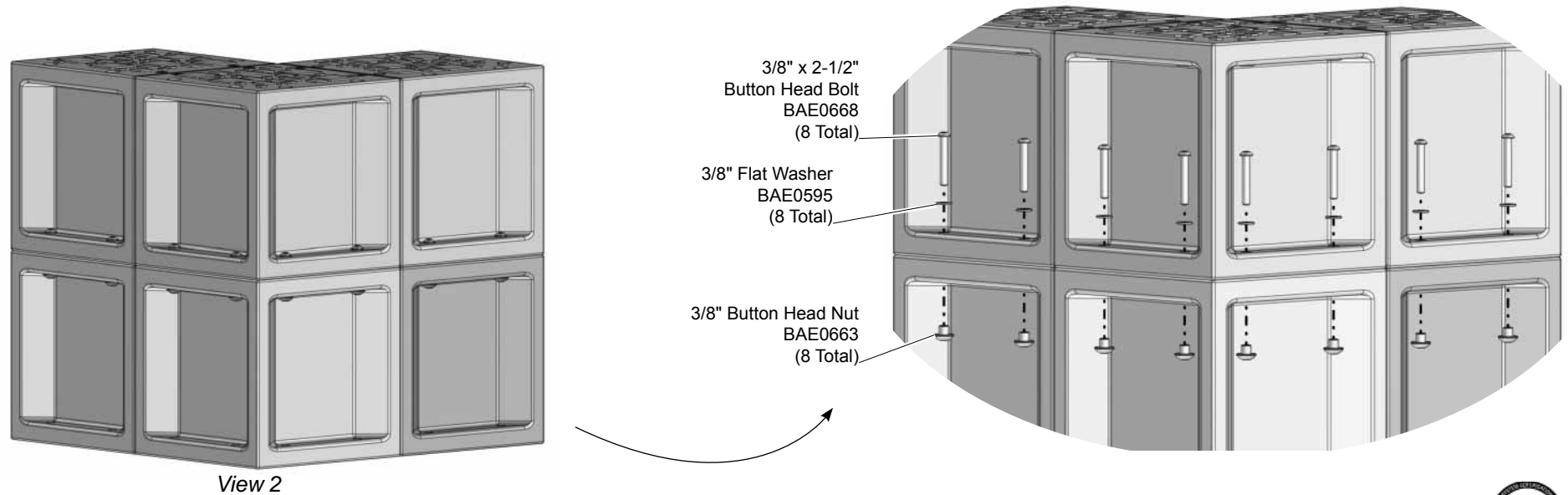
Installation Instructions



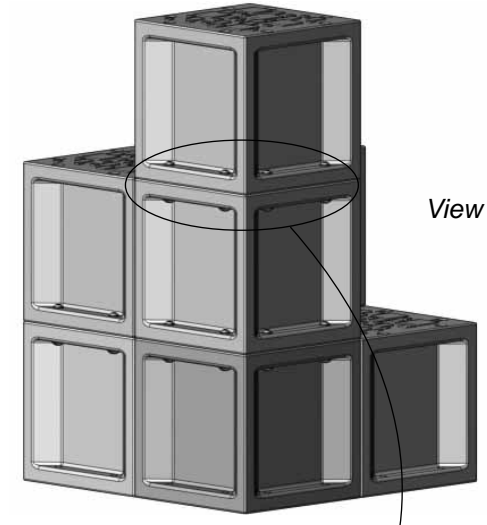
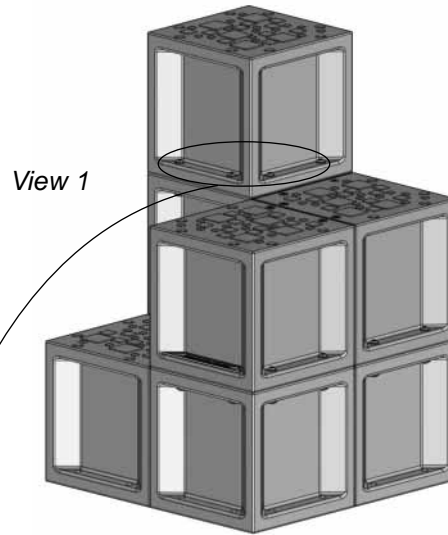
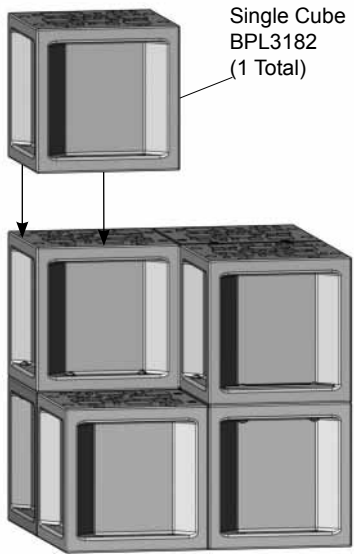
Detail E

Step 8

Attach the 2nd layer to the 1st layer.

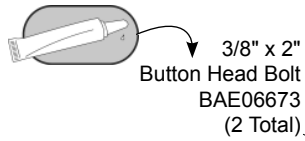


Installation Instructions



Detail F Step 9

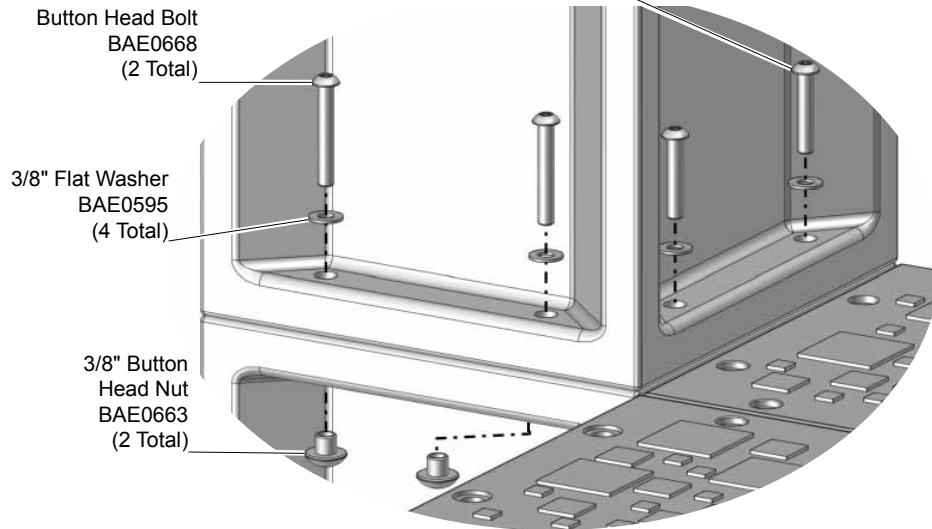
Attach the 3rd layer to the 2nd layer.



3/8" x 2-1/2"
Button Head Bolt
BAE0668
(2 Total)

3/8" Flat Washer
BAE0595
(4 Total)

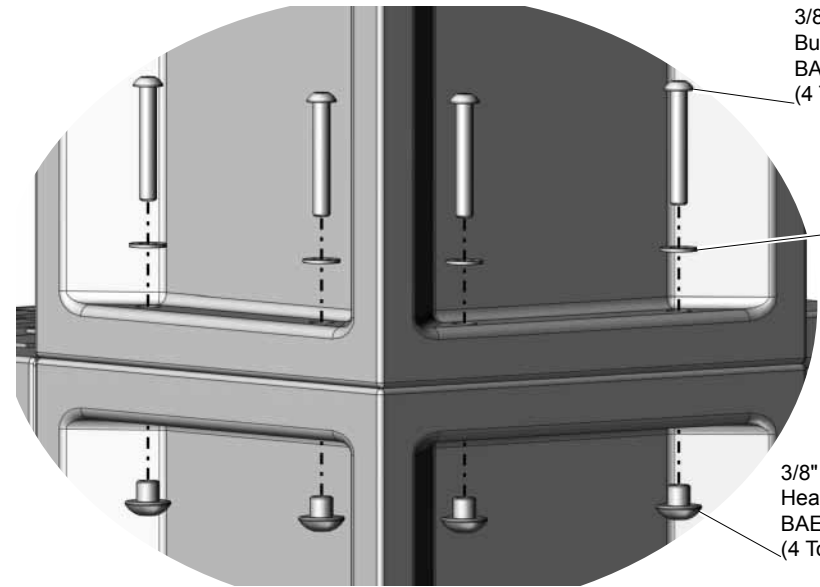
3/8" Button
Head Nut
BAE0663
(2 Total)



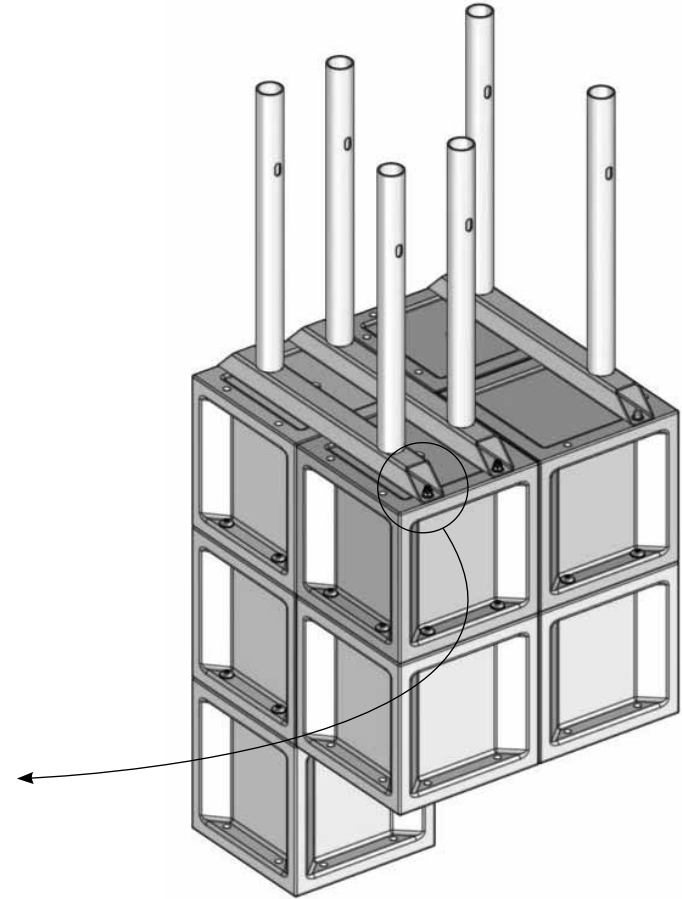
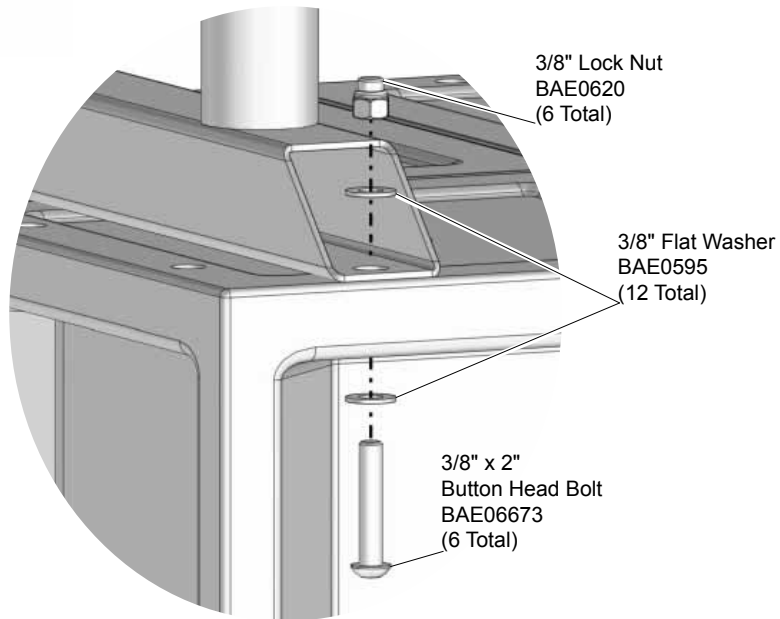
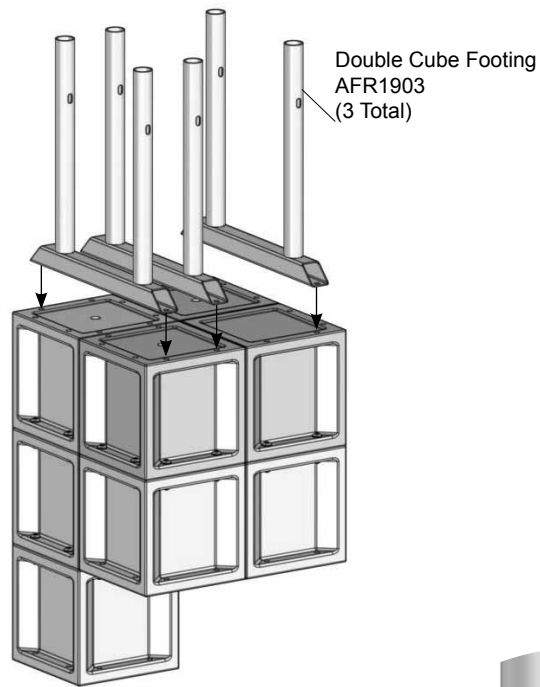
3/8" x 2-1/2"
Button Head Bolt
BAE0668
(4 Total)

3/8" Flat Washer
BAE0595
(4 Total)

3/8" Button
Head Nut
BAE0663
(4 Total)



Installation Instructions

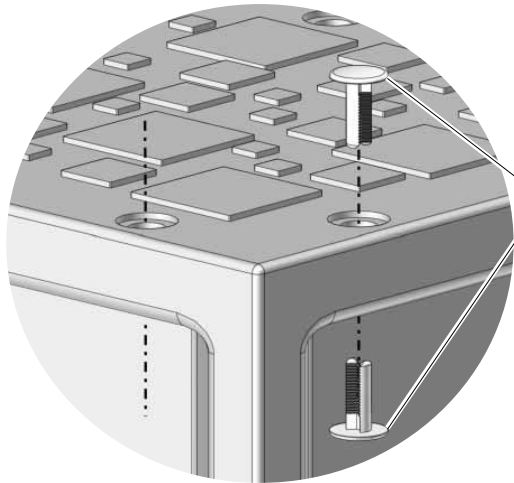


Details G Step 10



Attach the footing legs to the bottom of the cubes.

Installation Instructions



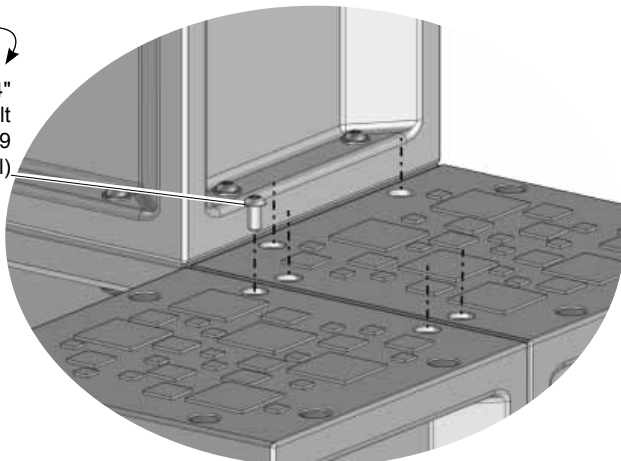
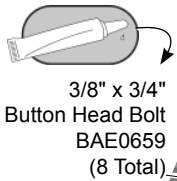
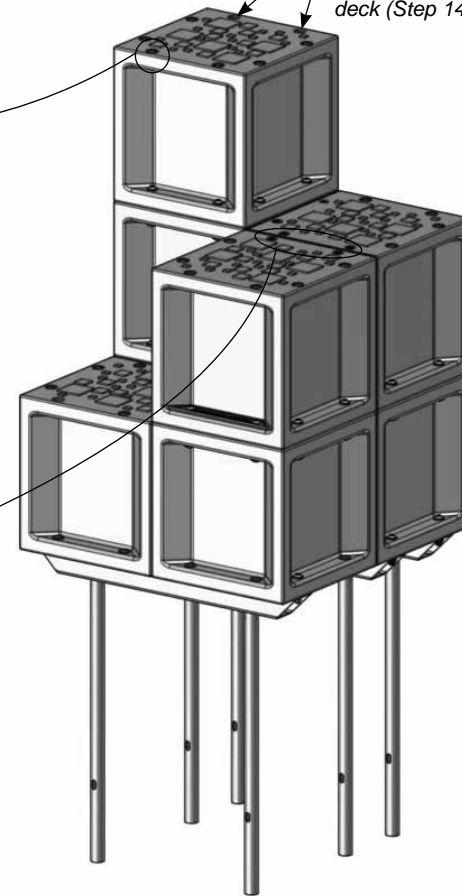
Ratchet Rivet
BPL3193
(60 Total)

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.

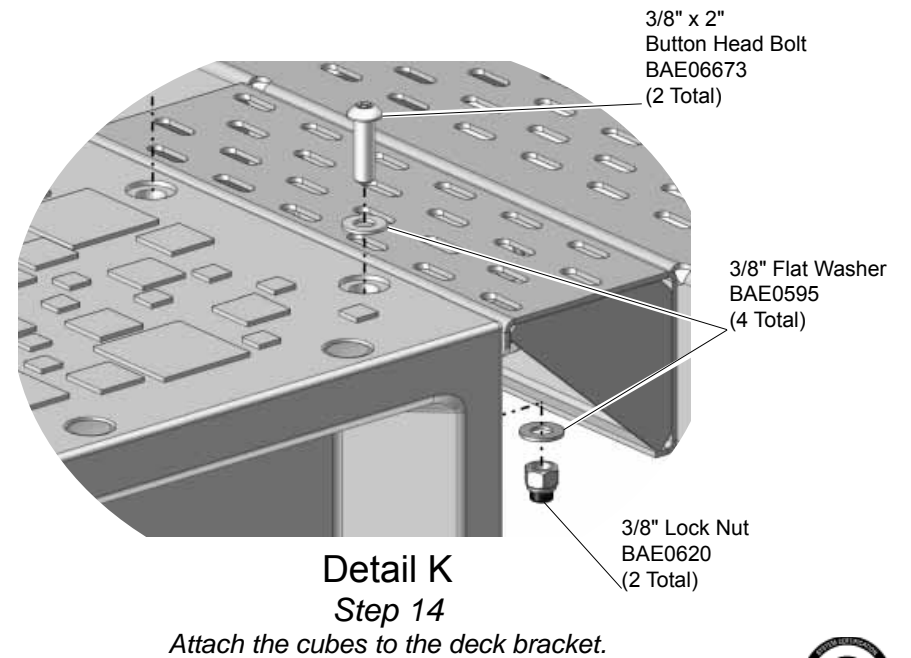
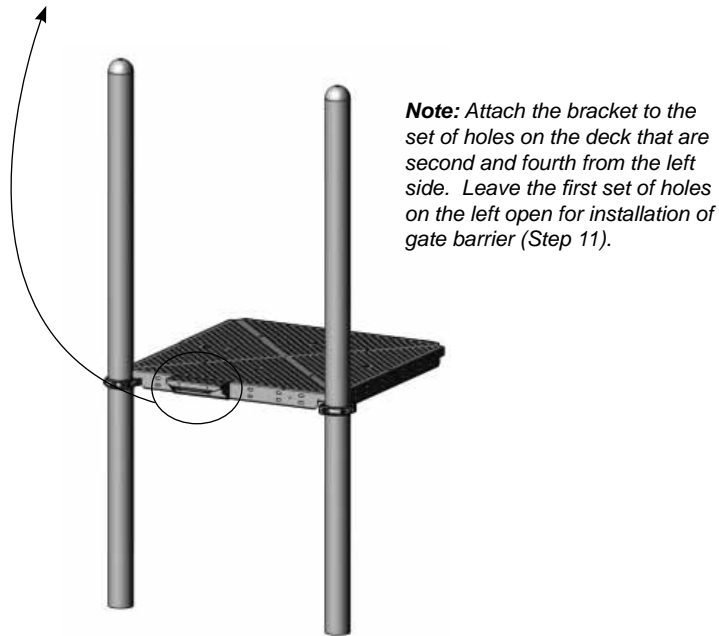
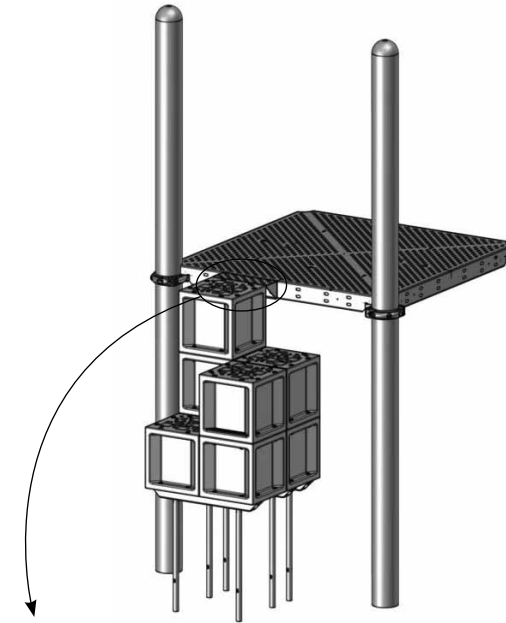
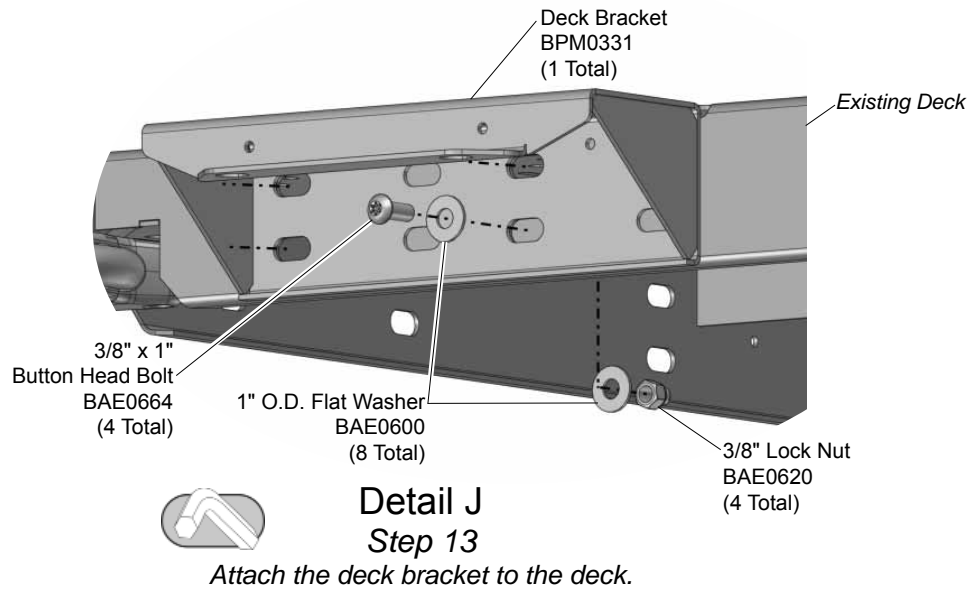
Note: Do not plug these two holes, they should be left open to attach the cube assembly to the deck (Step 14).



Detail I
Step 12

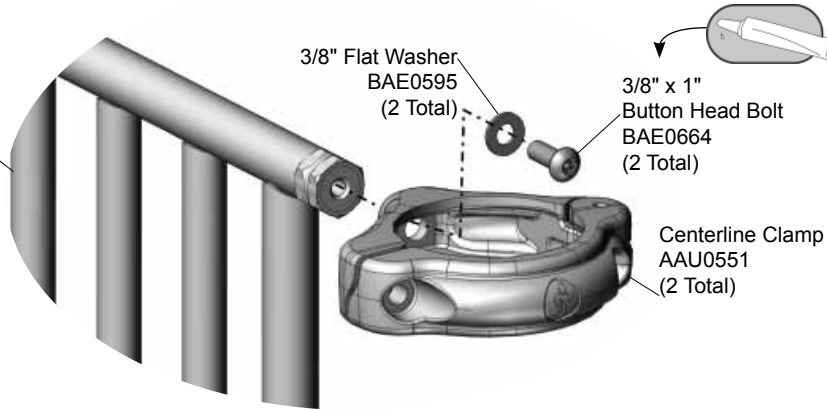
Fill all empty inserts on the top of the triple cubes.

Installation Instructions



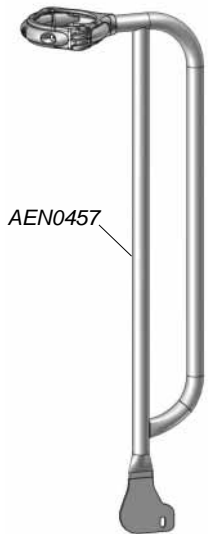
Installation Instructions

Gate Barrier
AEN0457
(1 Total)
and
Barrier
AEN0625
(1 Total)

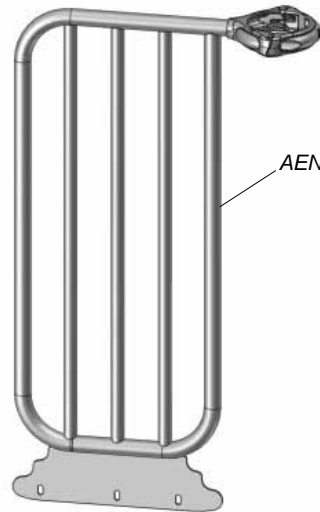


Detail L
Step 15

Attach the clamps to the barriers.

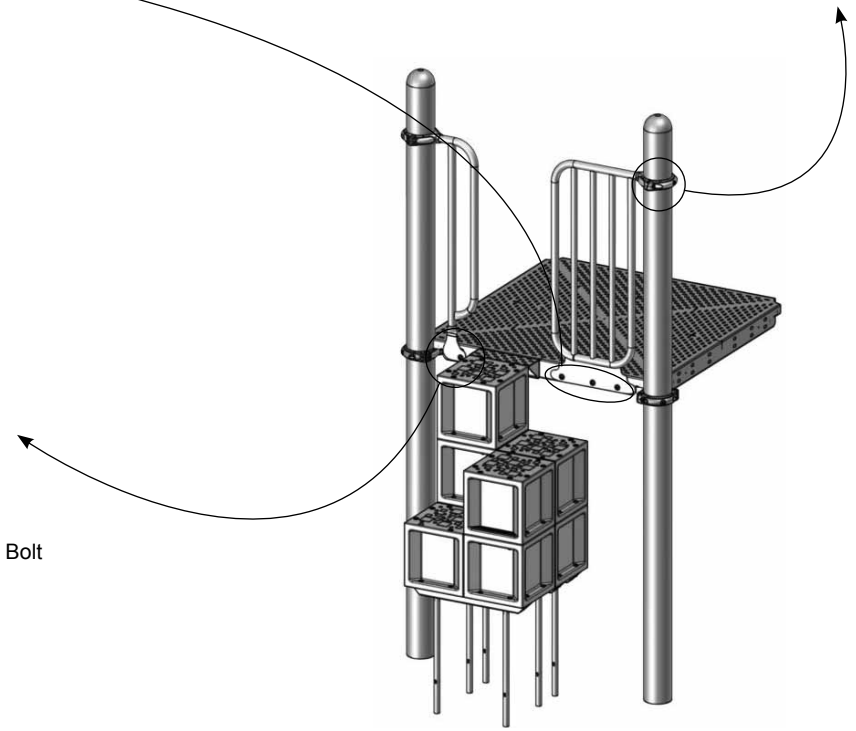
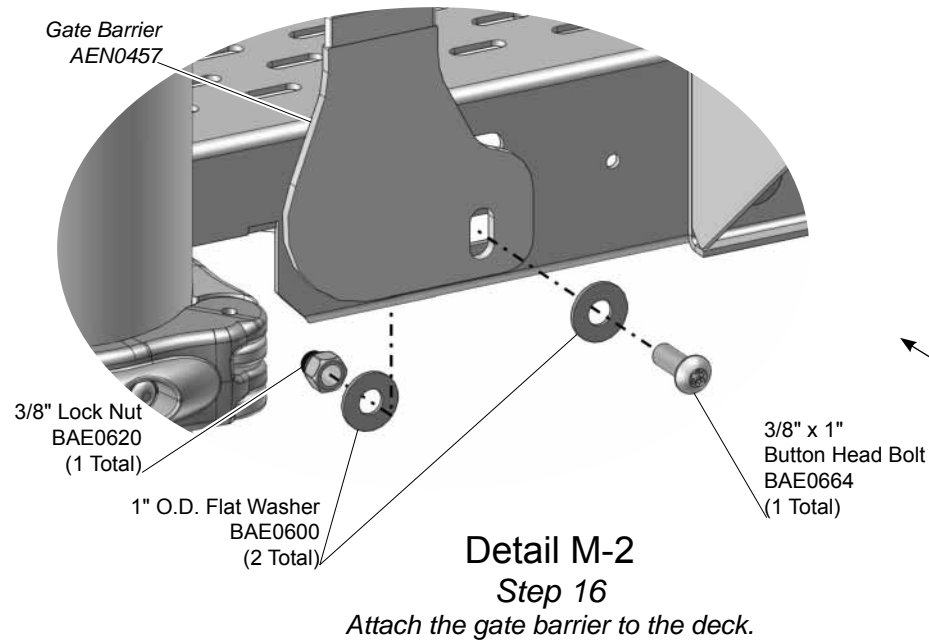
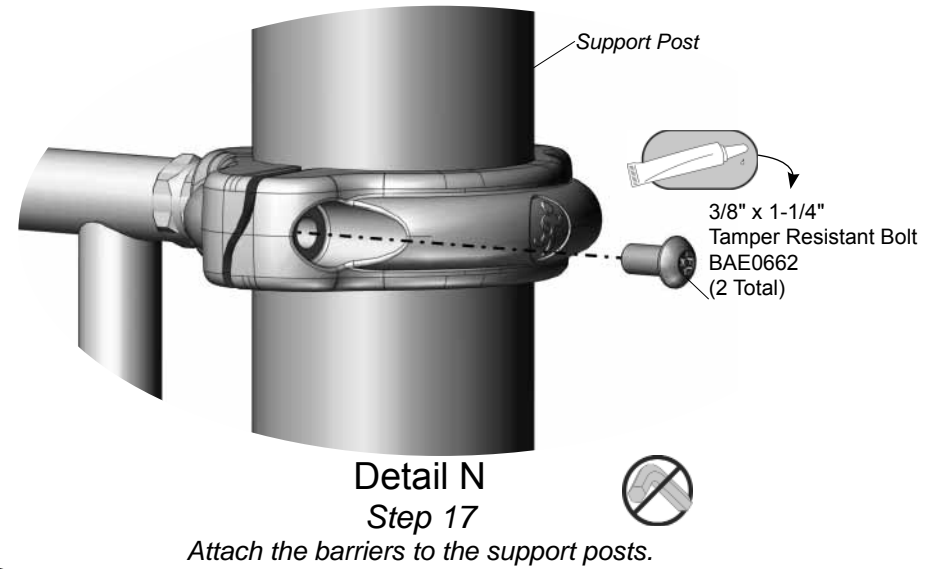
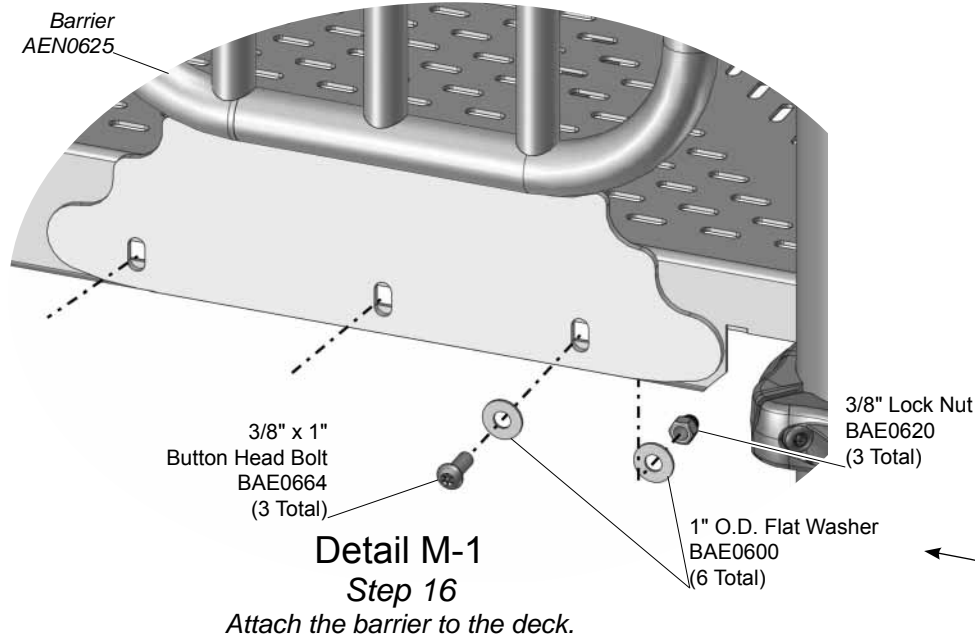


AEN0457

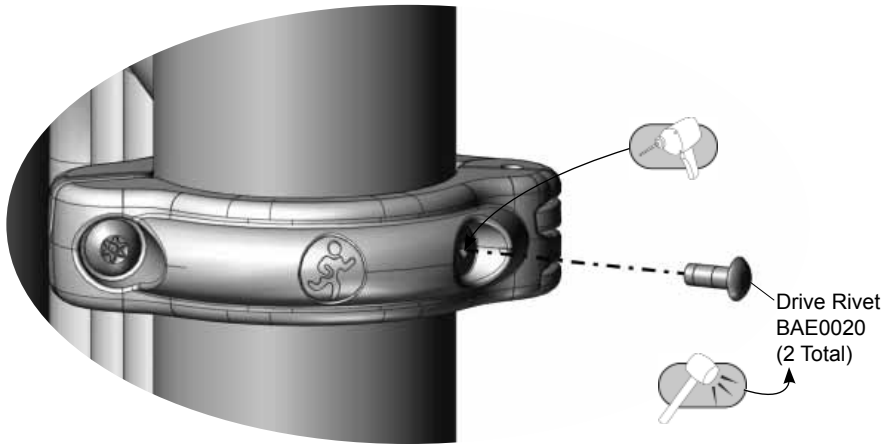


AEN0625

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)




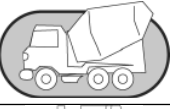
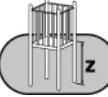

Model	Deck Height	Weight
ZZPM0296	12" (305 mm) to 24" (610 mm)	66.01 lbs. (30 kg)
ZZPM0297	36" (915 mm) to 48" (1219 mm)	74.81 lbs. (34 kg)

Installation Instructions

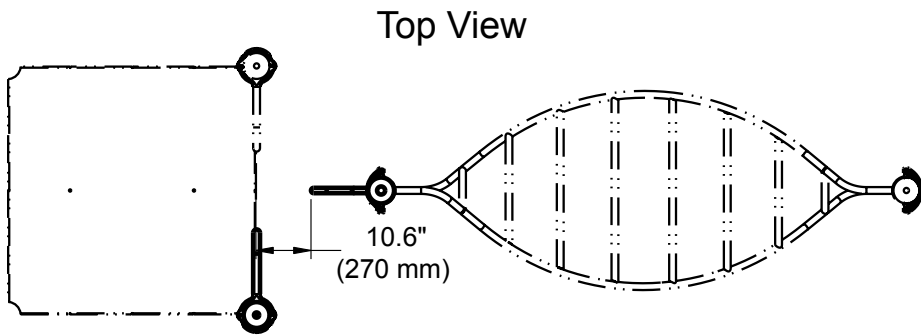
Playmakers® Model PM0296 and PM0297 12" (305 mm) to 24" (610 mm) Deck Access and 36" (914 mm) to 48" (1219 mm) Deck Access GroundZero® Post w/ Ladder

Installation Preparation

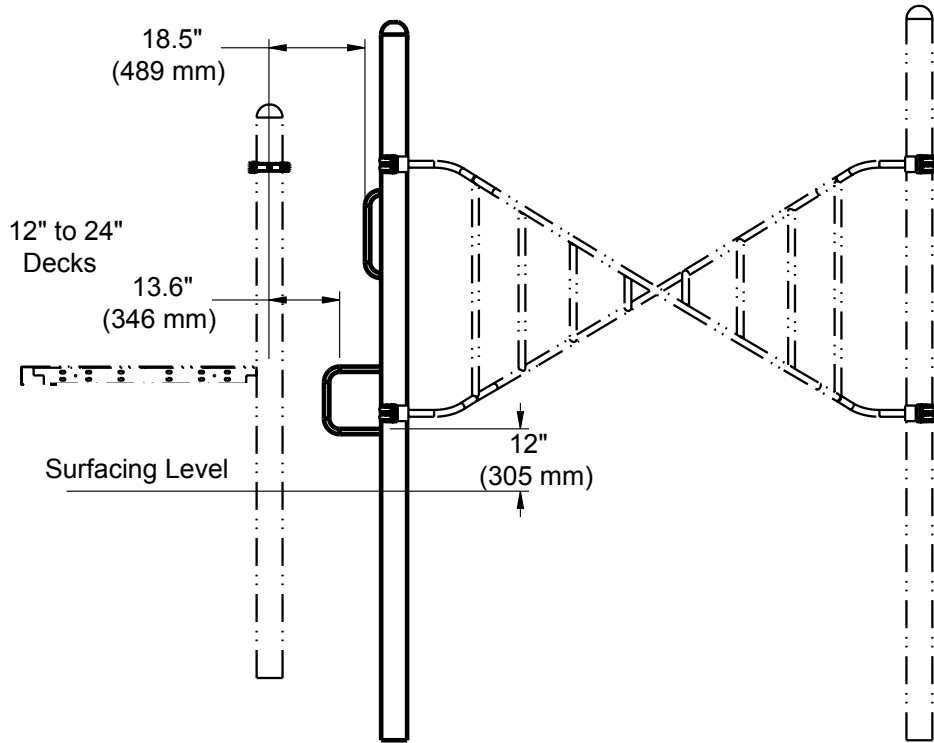
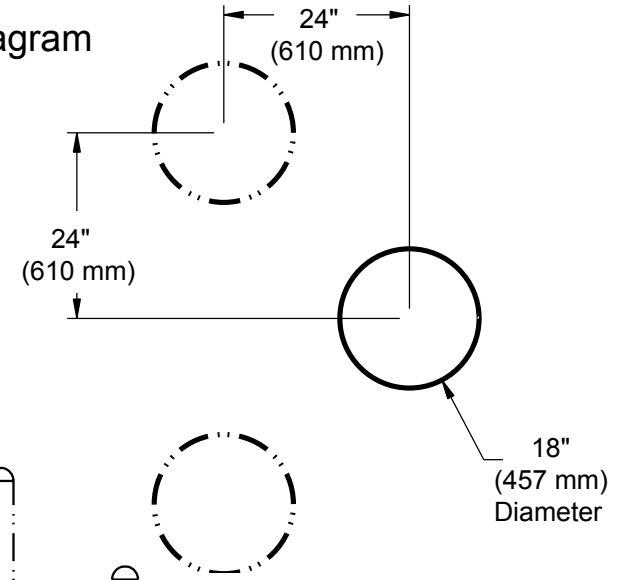
Recommended Crew: One (1) adult
 Installation Time: 0.5 man-hour
 Weight: (refer to table)
 Concrete Required: 0.13=8 cubic yard (0,14 cubic meters)
 Use Zone:..... Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

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

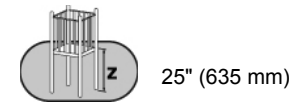
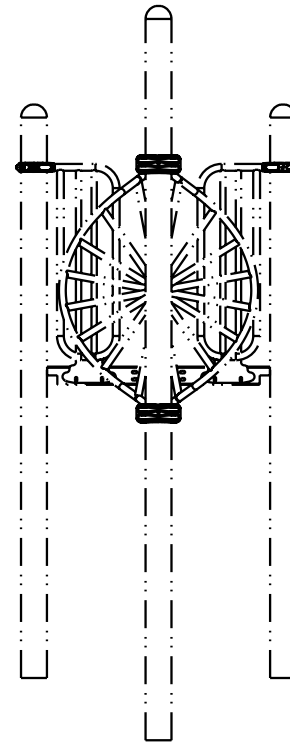
Installation Instructions



Footing Diagram

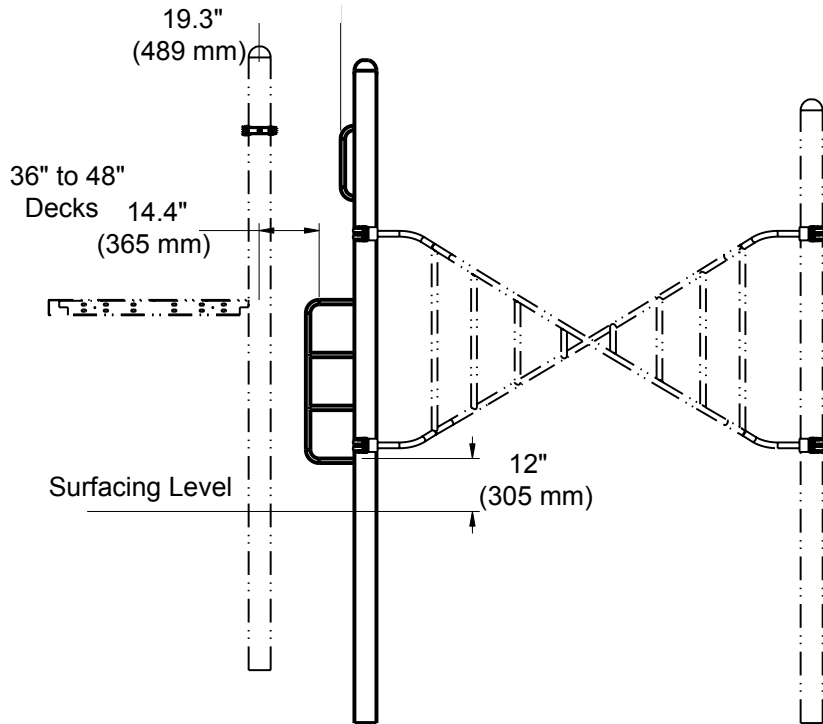
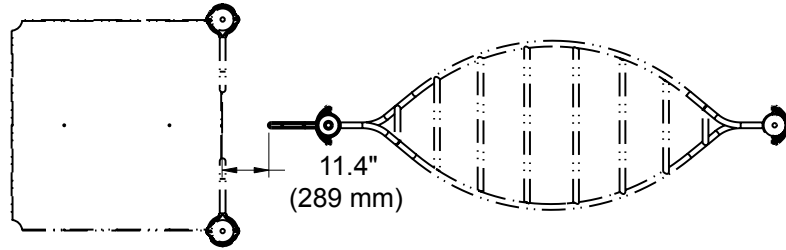


**Elevation Views
ZZPM0296**



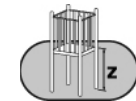
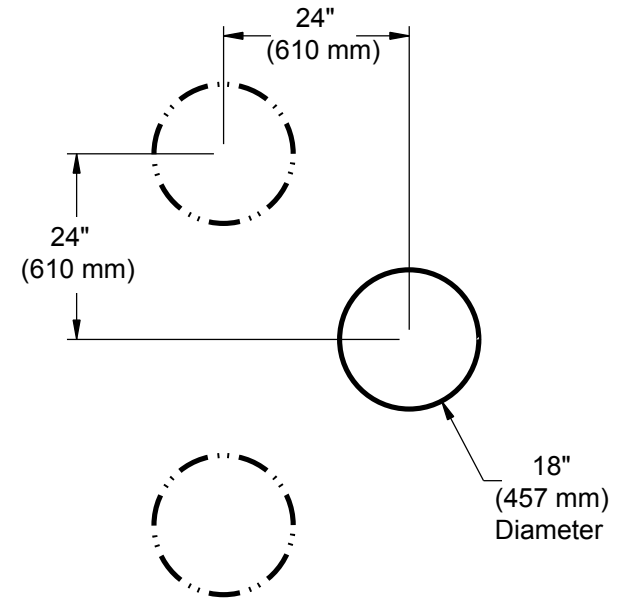
Installation Instructions

Top View



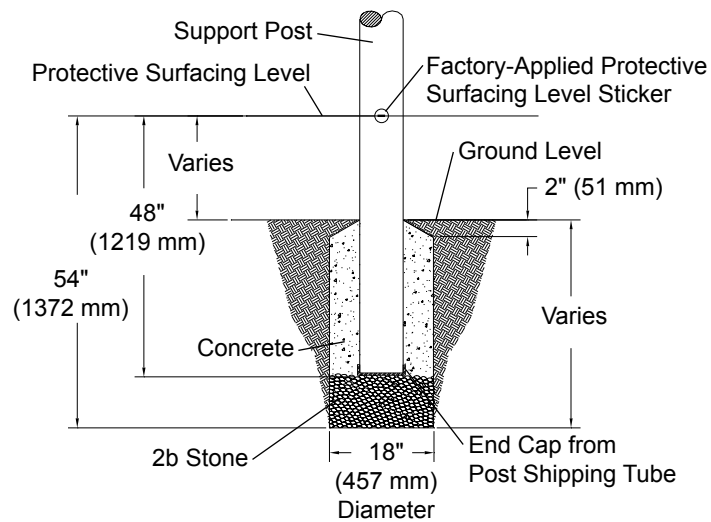
Elevation Views
ZZPM0297

Footing Diagram



48" (1219 mm)

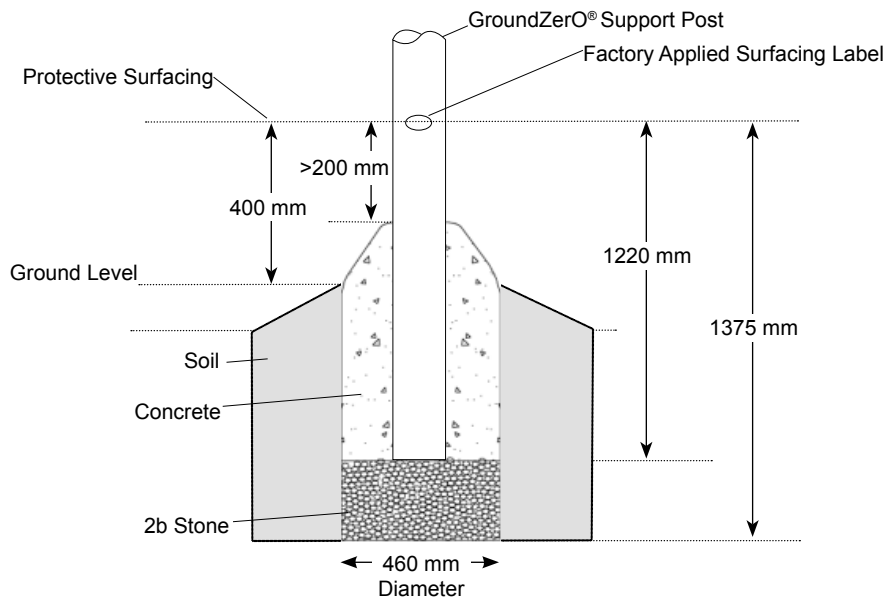
Installation Instructions



GroundZero® 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 GroundZero® Support Post (EN)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description.

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 **Footings Details** on **page 4** of this document.

Place the support post in the prepared hole.

Step 4: Place the support post into the prepared hole. See **Detail A** and **Elevation View**. Select the support post. Place the post into the hole as shown in the **Elevation View**.

Important Note: Align the ladder to the deck as shown in the **Elevation View**.

Final Details.

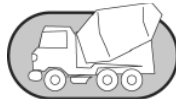
Step 5: Plumb and level entire component. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.



Detail A
Step 4



Step 3



Step 5

PM0296 - 12 IN (305 mm) TO 24 IN (610 mm) GROUND ZERO POST WITH LADDER

PART NO.	DESCRIPTION	QTY.
CAP0043	POST - 5.00" O.D. x 136.00" w/CAP & LADDER (GZ)	1

PM0297 - 36 IN (914 mm) TO 48 IN (1219 mm) GROUND ZERO POST WITH LADDER

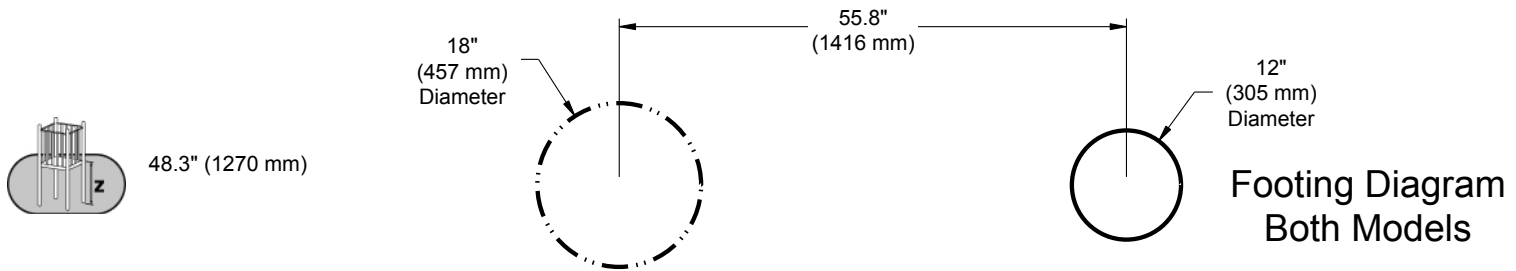
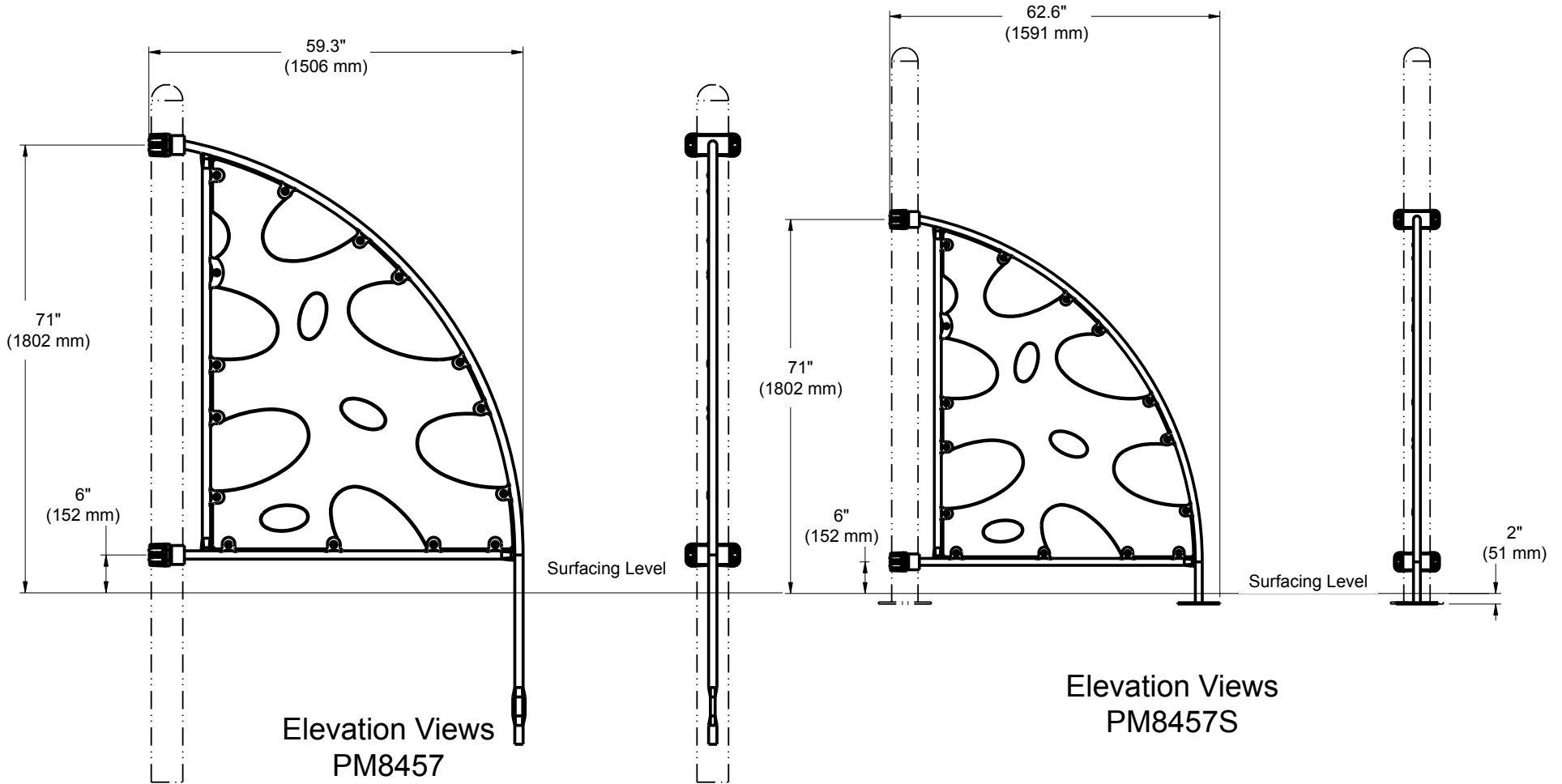
PART NO.	DESCRIPTION	QTY.
CAP0044	POST - 5.00" O.D. x 148.00" w/CAP & LADDER (GZ)	1


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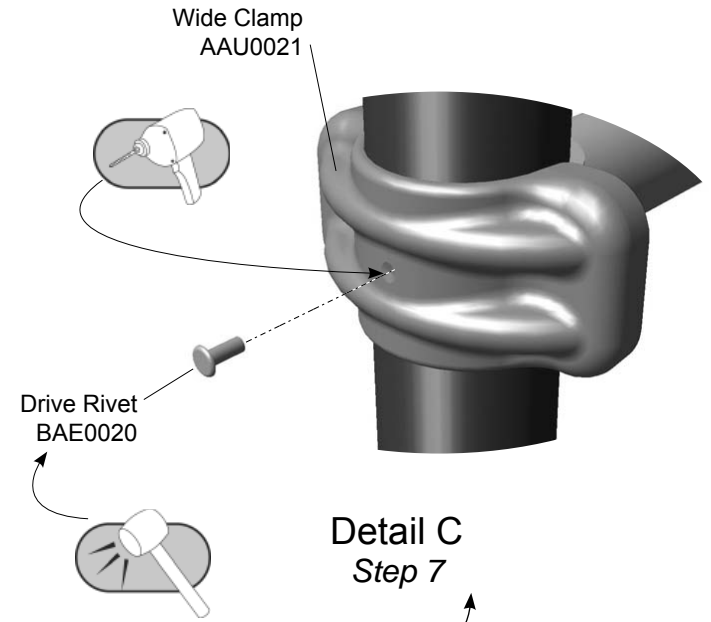
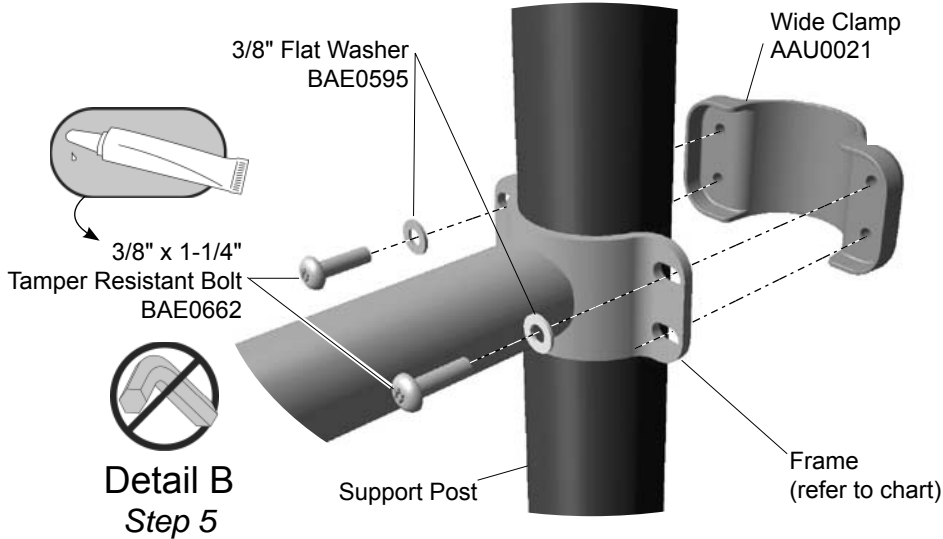
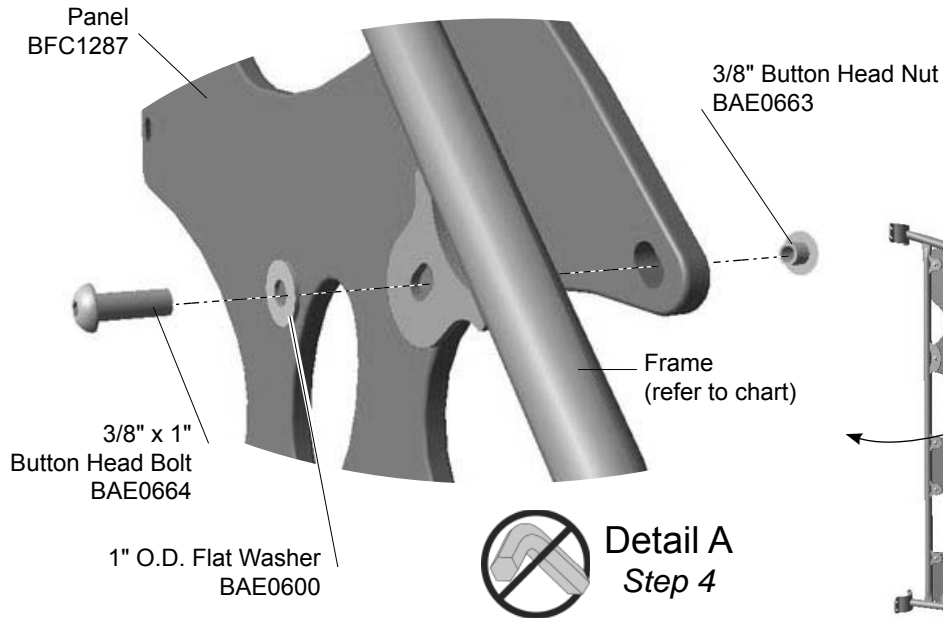
Installation Instructions

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.



(representative model)



Model	Frame Part Number
ZZPM8457	AFR0715
ZZPM8457S	AFR0716

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 **Footing Details** in the Playmaker Guidelines. Use the **Component Footing Details** for the in-ground model.

Attach the panel to the frame.

Step 4: See **Detail A**. Select the frame, the panel, and the appropriate hardware. There are (15) fifteen connections. Align the panel with the tabs on the frame. Attach as shown.

Attach the crater arch frame to the support posts.

Step 5: See **Detail B**. Select the clamps, and the appropriate hardware. There are (8) eight connections. Place the crater arch frame at the appropriate height. Apply a drop of loctite to the bolt threads and attach as shown.

Note: After the structure is standing, make sure there is a consistent gap between the panel and the frame. When a consistent gap is achieved fully tighten the panel.

Final Details.

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

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.

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.

PM8457 - THE CRATER ARCH

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0715	FRAME - ADVENTURE END (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	15
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	15
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1287	SHEET - .75" x 47.79" x 61.95"	1

PM8457S - THE CRATER ARCH - SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0716	FRAME - ADVENTURE END (PM) (SM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	15
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	15
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1287	SHEET - .75" x 47.79" x 61.95"	1

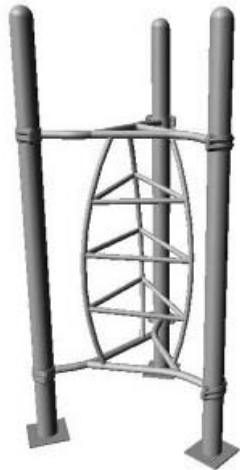


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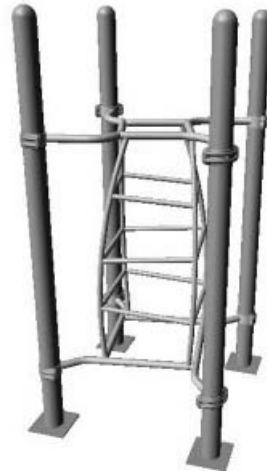
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Installation Instructions Playmakers® Models PM9079 and PM9080 Adventure Series Tri-Junction and Quad Junction Climbers



PM9079
TRI-JUNCTION



PM9080
QUAD JUNCTION

Assembly View

Installation Preparation

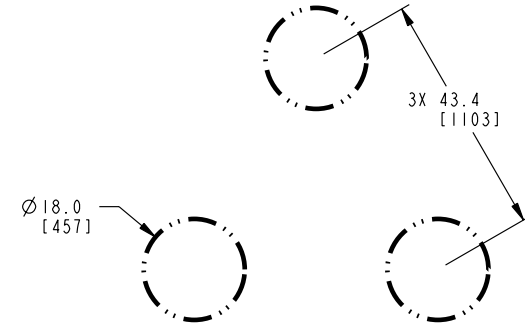
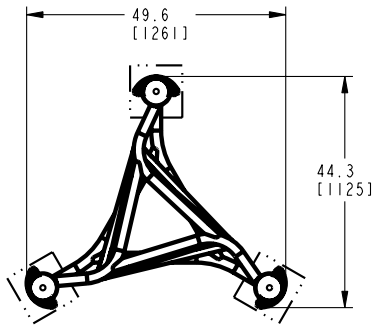
Recommended Crew: Two (2) adults
 Installation Time: 0.5 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

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

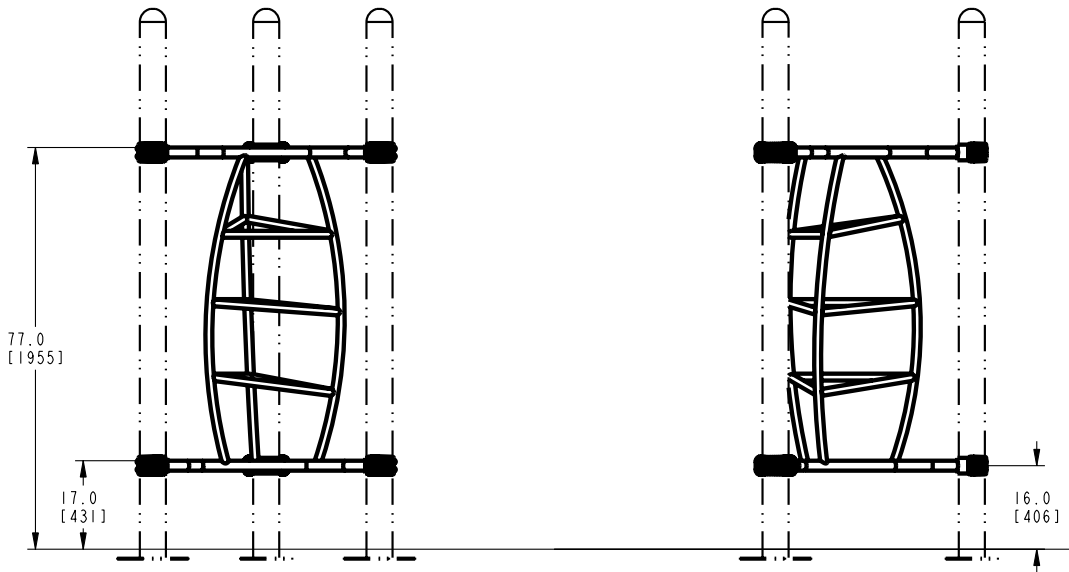
Installation Instructions

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

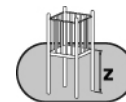
Top View



Footing Diagram



Elevation Views
PM9079



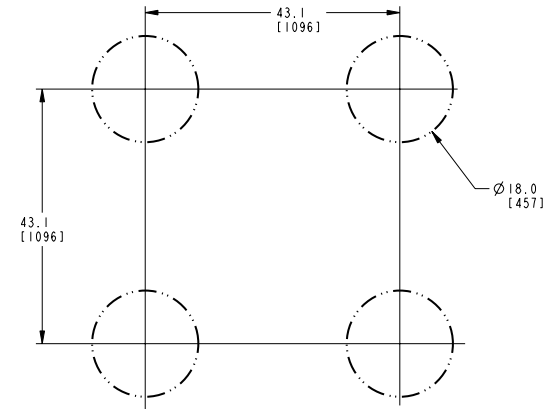
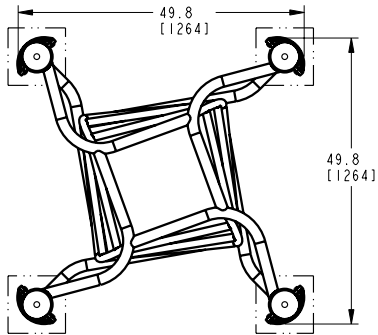
77" (1955 mm)



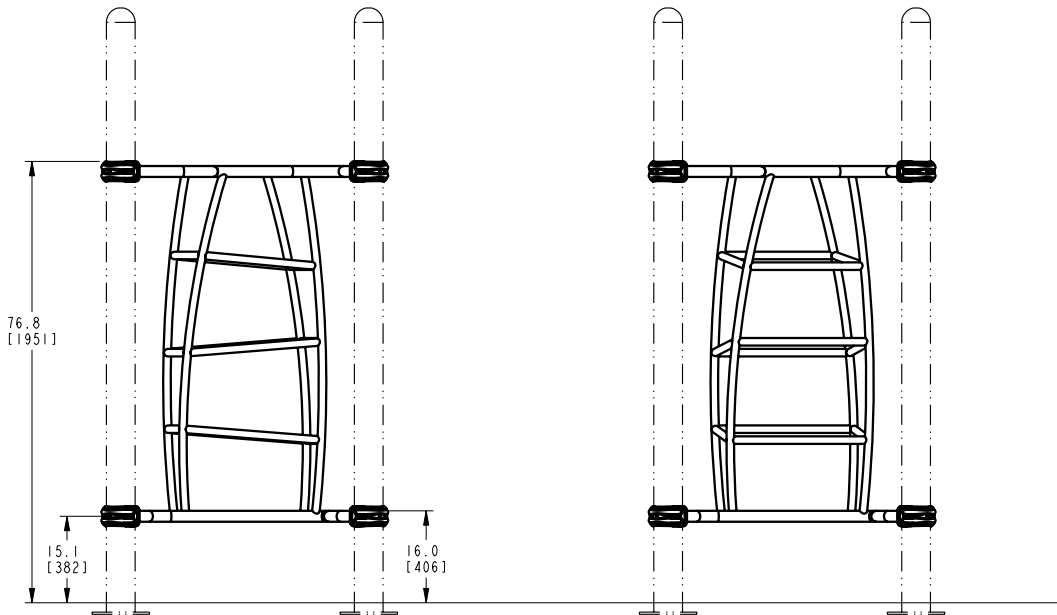
Installation Instructions

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

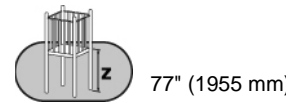
Top View



Footing Diagram

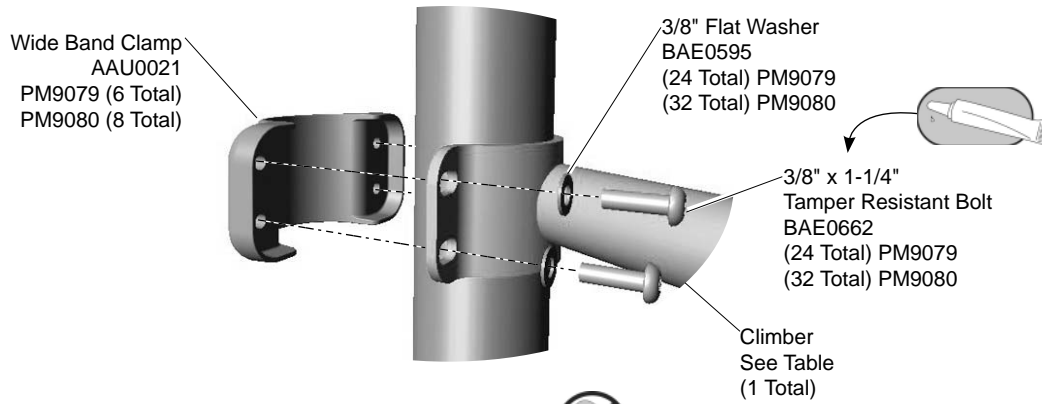


Elevation Views
PM9080



Installation Instructions

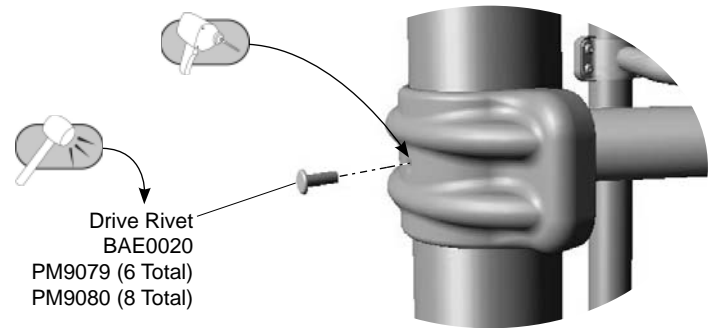
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A
Step 4

Attach the climber to the support posts.

Model	Climber Number	Climber Name
PM9079	ACL0360	Tri-Junction
PM9080	ACL0362	Quad Junction



Detail B
Step 6

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: Refer to the master plan top view for the location of your equipment.

Step 4: Attach the climber to the support posts. See **Detail A**. Position the climber 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.

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 B**. 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.

PM9079 - ADVENTURE SERIES TRI-JUNCTION CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	6
ACL0360	CLIMBER - TRI JUNCTION (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0595	WASHER - 3/8" SAE FLAT	24
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	24

PM9080 - ADVENTURE SERIES QUAD JUNCTION CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	8
ACL0362	CLIMBER - QUAD JUNCTION (PM)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	32

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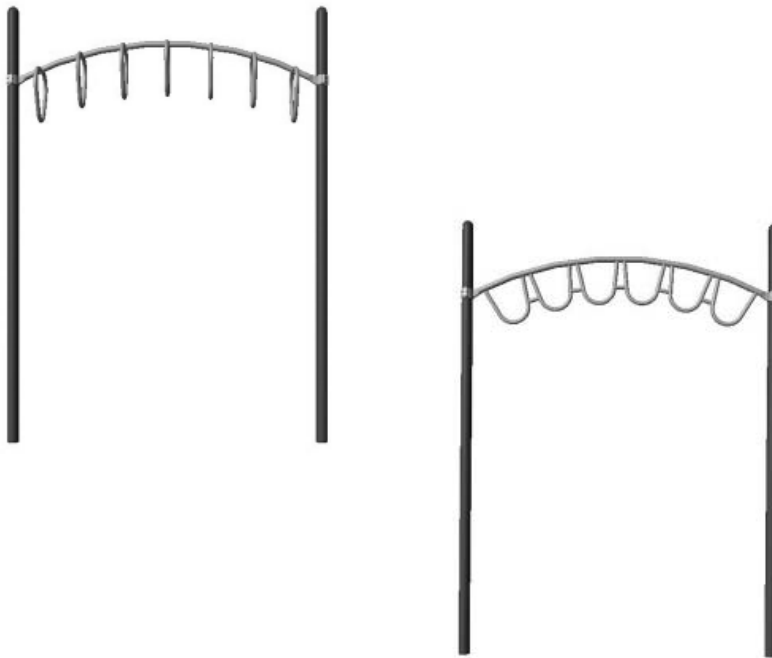
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Installation Instructions

Playmakers® Models PM8450 & PM8456




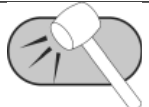

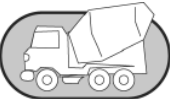

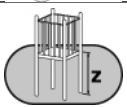
The Sky Link & The Sky Arch



Assembly View (representative model)

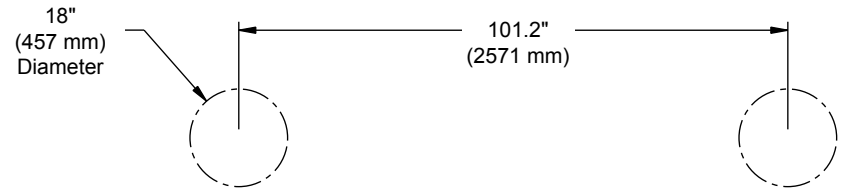
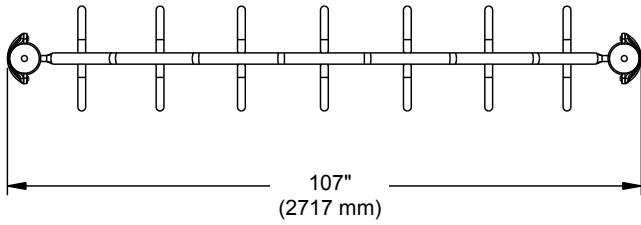
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 0.5 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

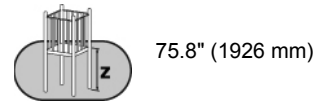
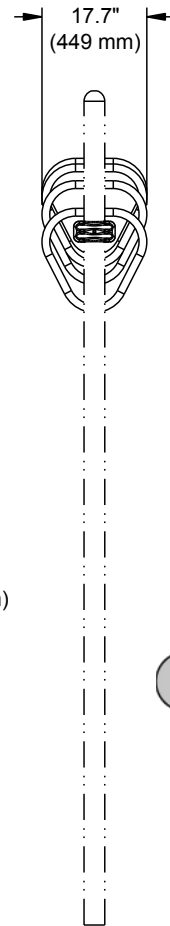
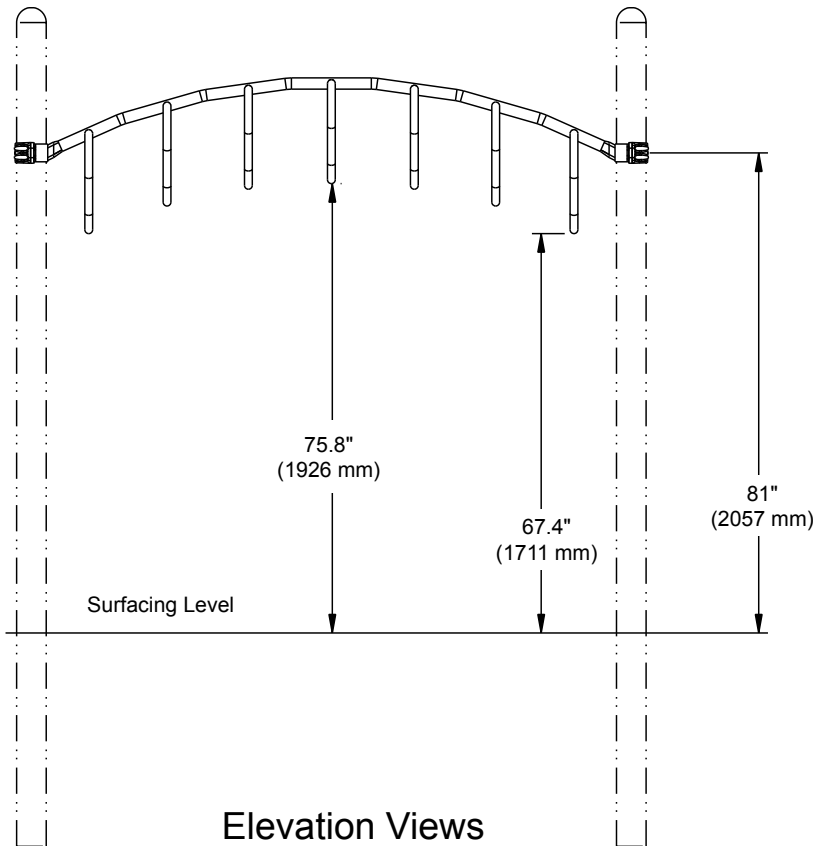
ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

Installation Instructions

Top View



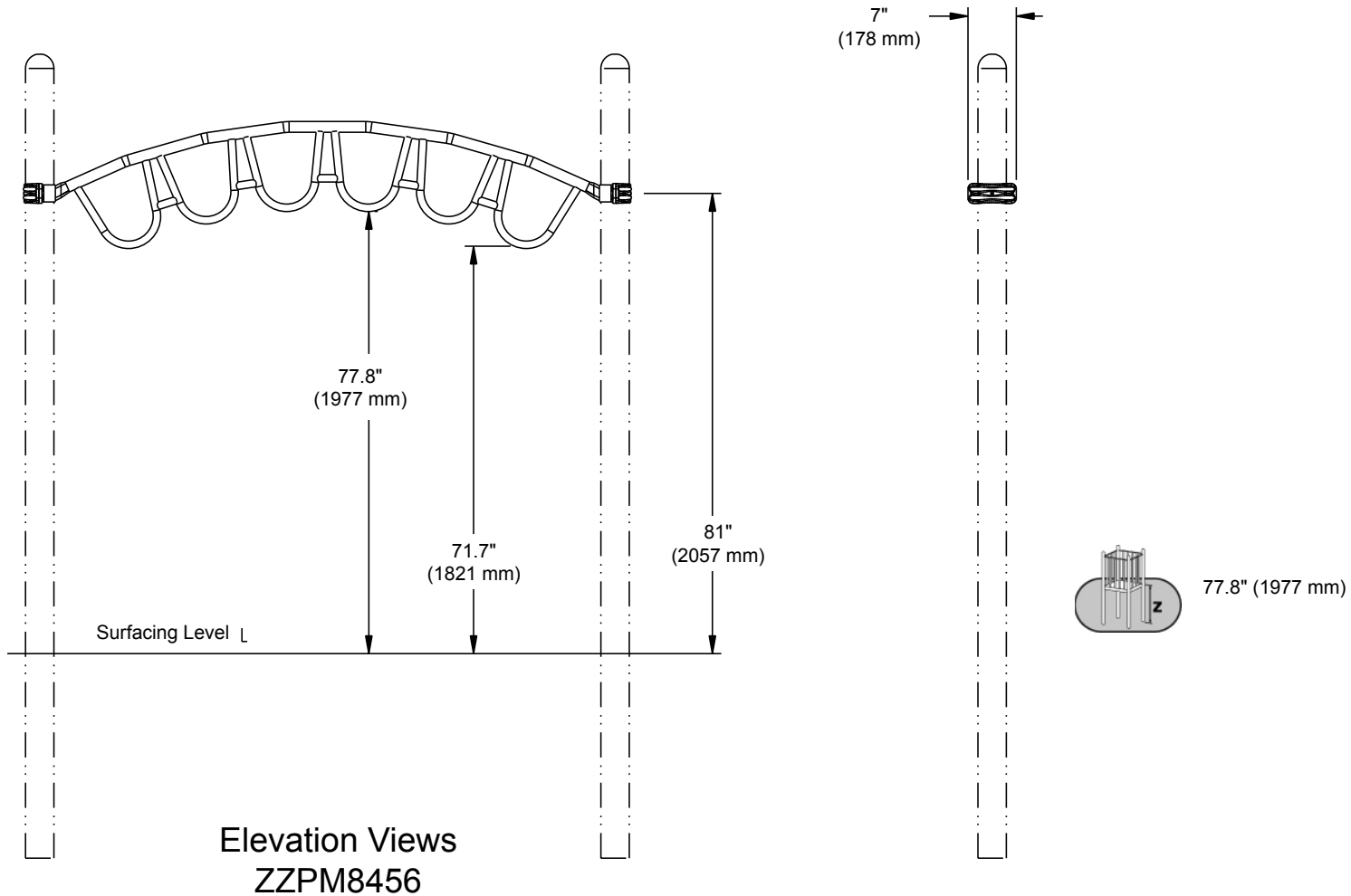
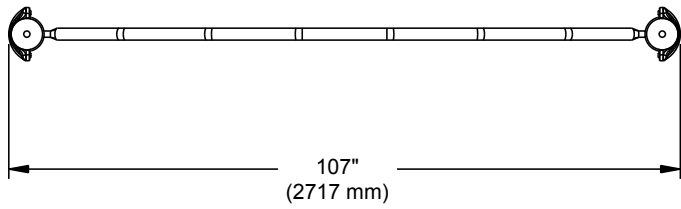
Footings Diagram Both Models



Elevation Views ZZPM8450

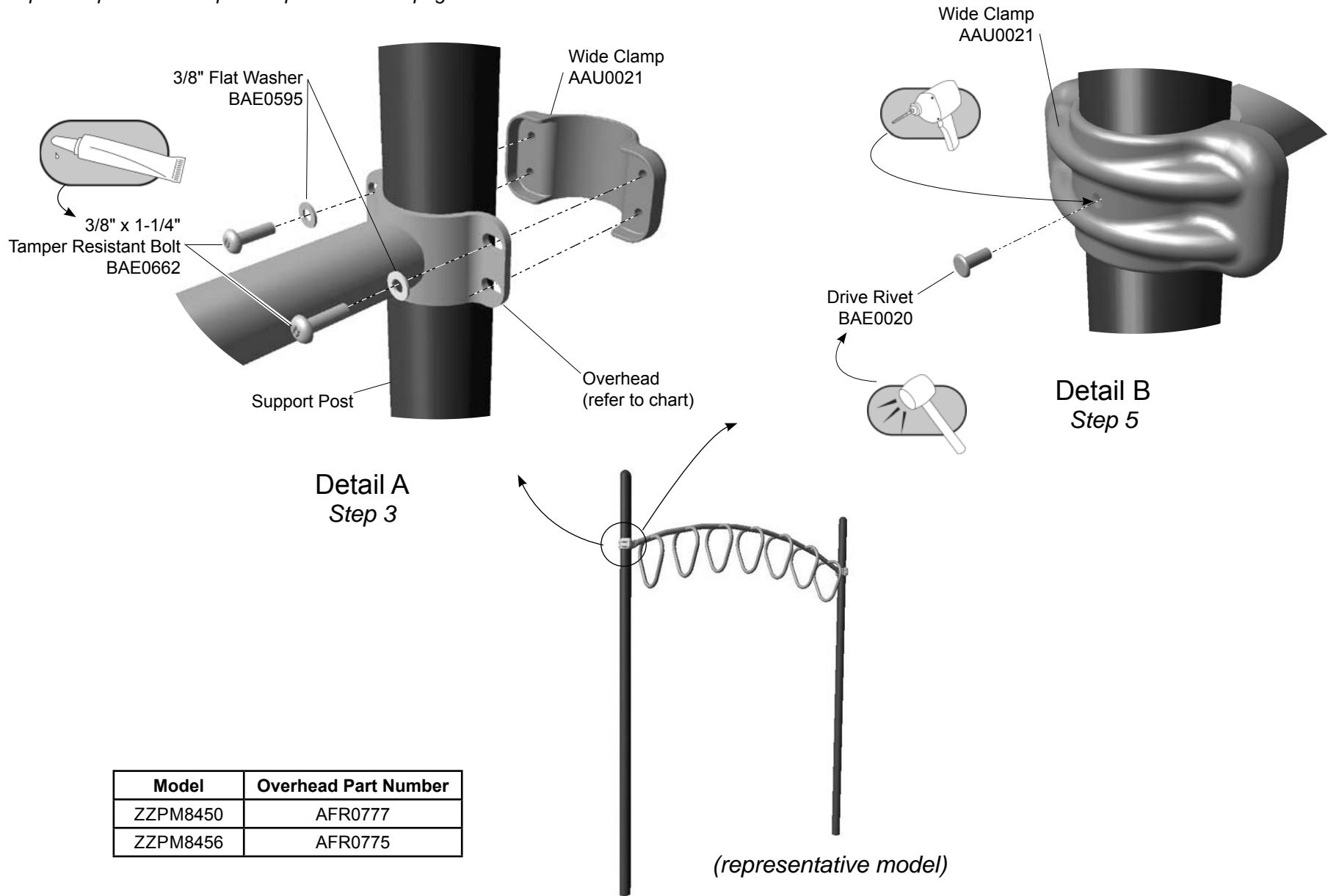
Installation Instructions

Top View



Installation Instructions

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



Model	Overhead Part Number
ZZPM8450	AFR0777
ZZPM8456	AFR0775

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 overhead to the support posts.

Step 3: See **Detail A**. Select the overhead, the clamp, and the appropriate hardware. There are (8) eight connections. Lift the overhead to the appropriate height. Apply a drop of loctite to the bolt threads and attach as shown.

Final Details.

Step 4: 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 5: Install drive rivets. See **Detail B**. 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.

PM8450 - THE SKY LINK

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0777	OVERHEAD - ADVENTURE SERIES BACKBONE (PM)	1
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" TMPR RESISTANT w/TORX DRIVE	8

PM8456 - THE SKY ARCH

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFR0775	OVERHEAD - ADVENTURE SERIES LOOP (PM)	1
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" TMPR RESISTANT w/TORX DRIVE	8



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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


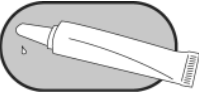

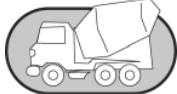
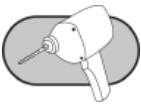


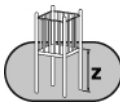
Playmakers[®] Model PM6798

Spin Central

(CSA)

Installation Preparation

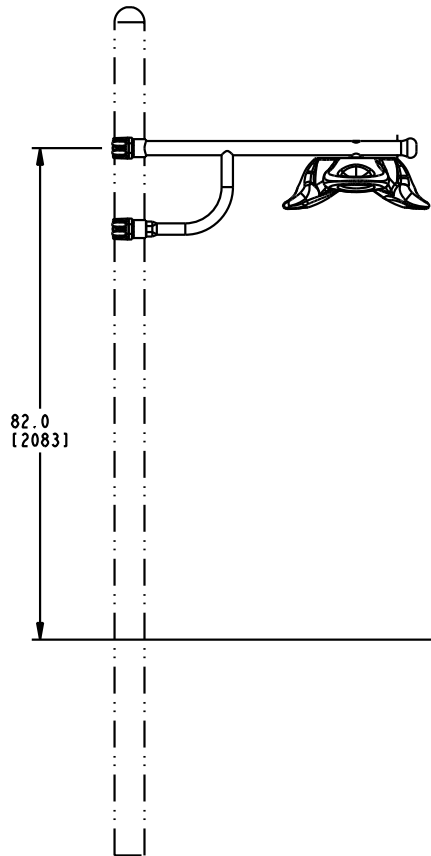
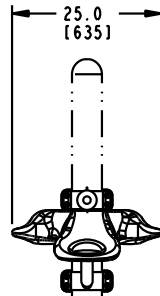
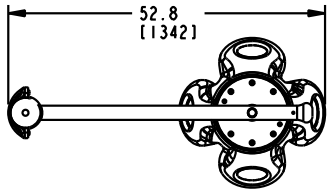
Recommended Crew: Two (2) adults
 Installation Time: 0.5 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

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]

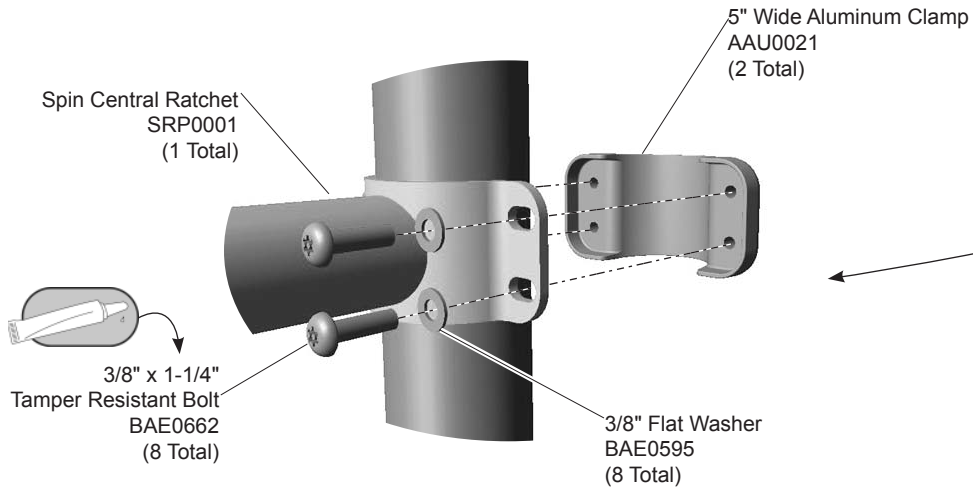
Top View



Elevation Views

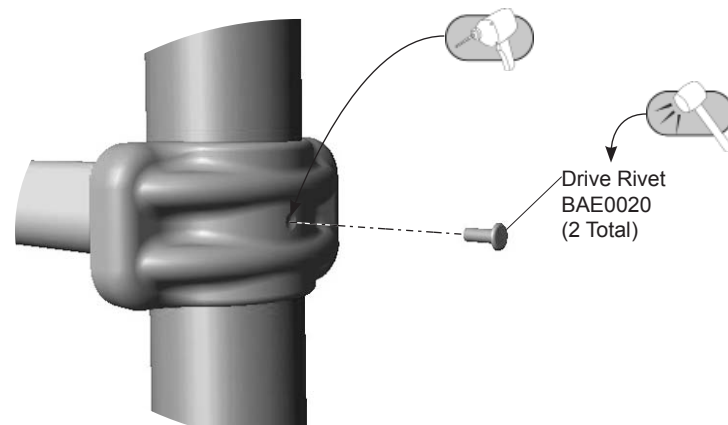
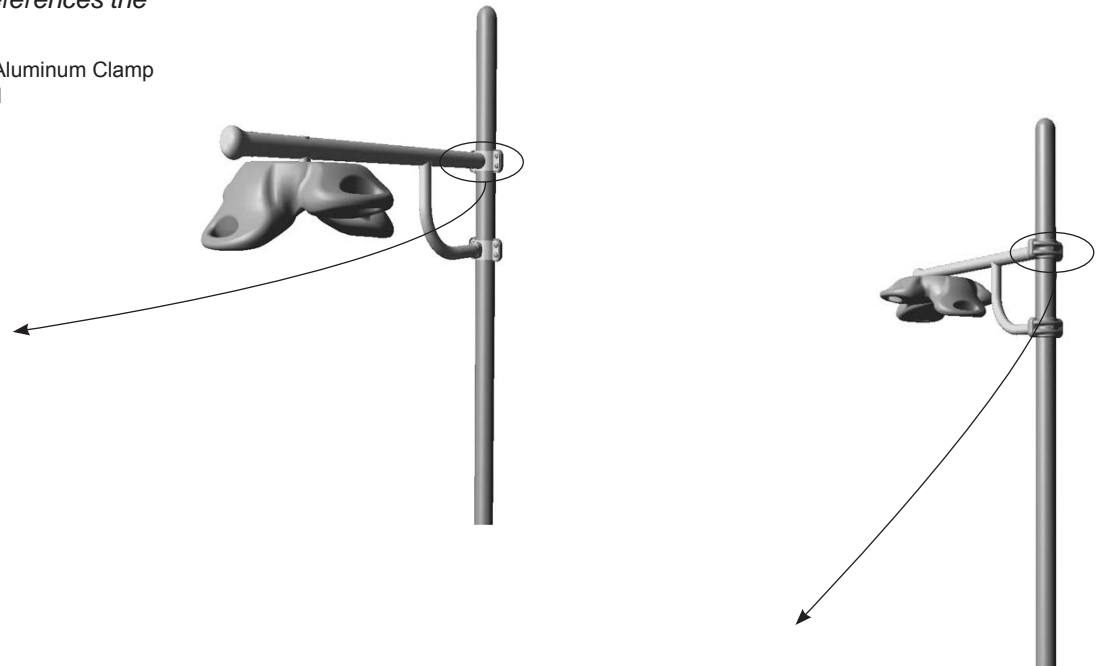
Installation Instructions

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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Clamps

- Inspect clamps to insure they are properly secured to the support posts.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect clamps 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.
- 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.

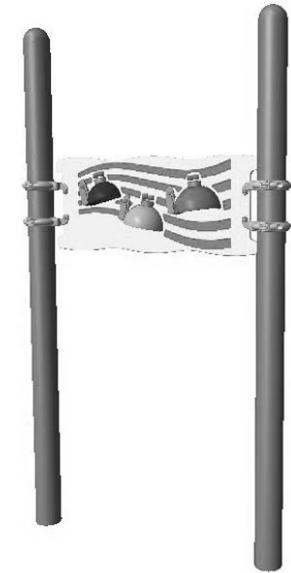
Finish

- 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.

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 Playmakers® Model PM4409 Accessible Bell Panel



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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 clamps for tightness and damage.	High			
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






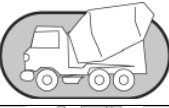

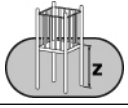
Playmakers®

Model PM9846

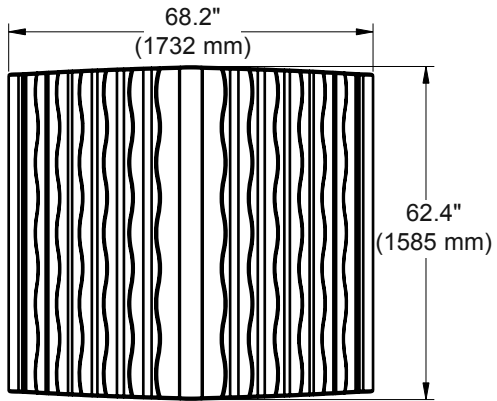
Cabana Roof

Installation Preparation

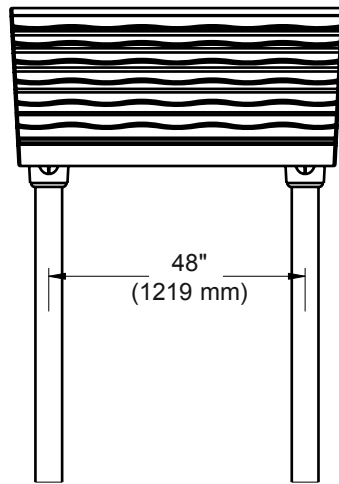
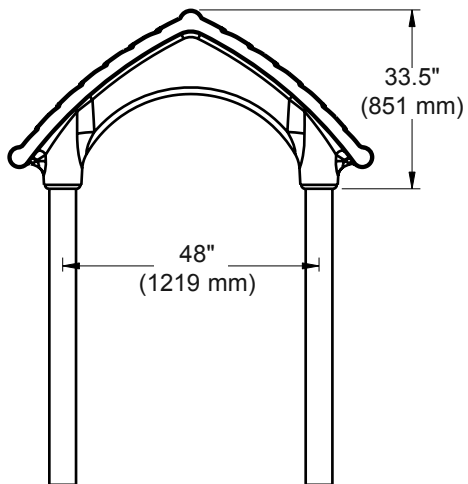
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour

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



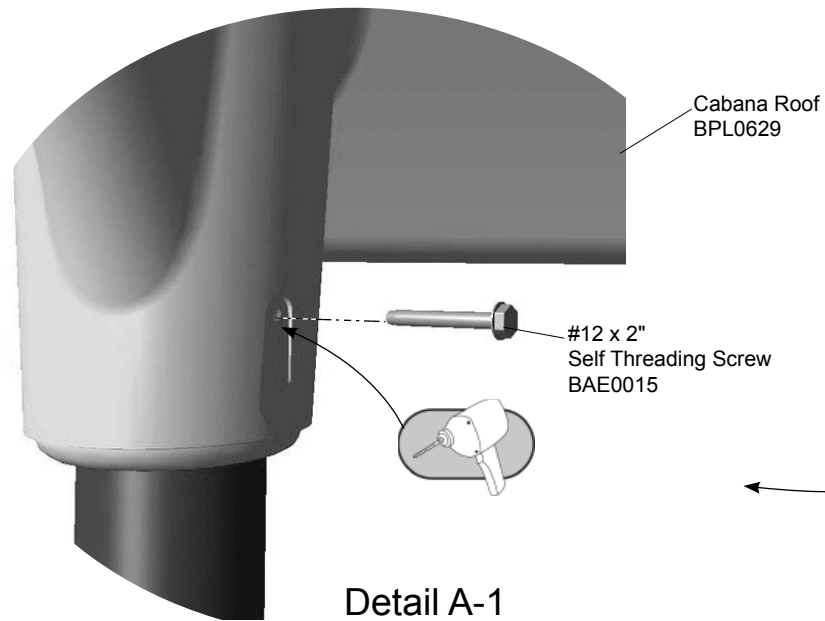
Elevation Views
ZZPM9846

Installation Instructions

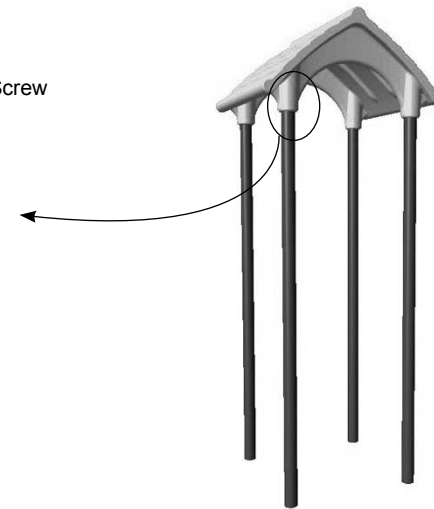
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



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



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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




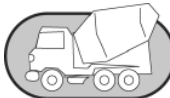


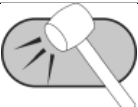
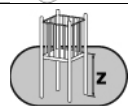


Assembly View (representative model)

Installation Preparation

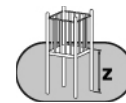
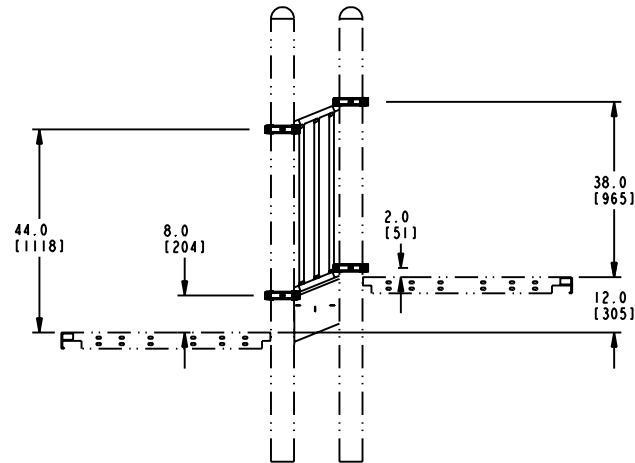
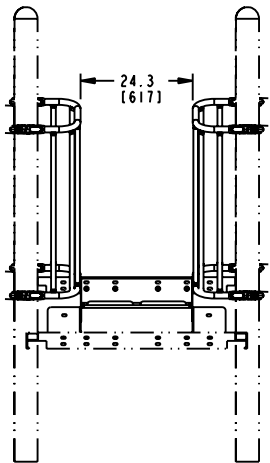
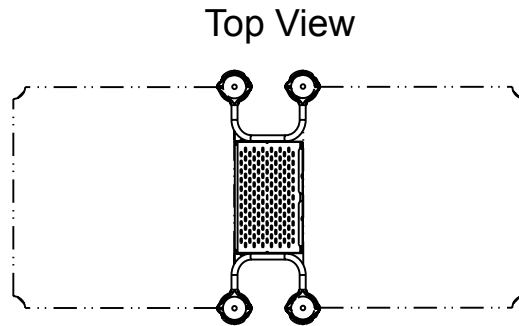
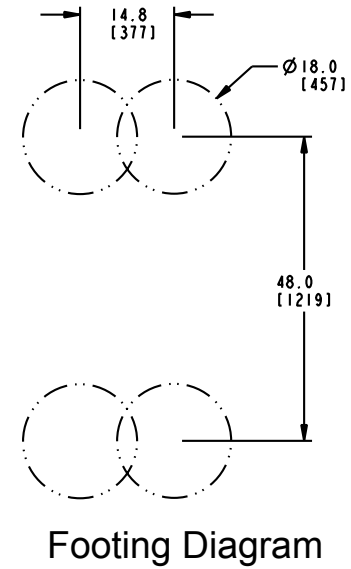
Recommended Crew: Two - Three (2-3) adults
Installation Time: 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

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]



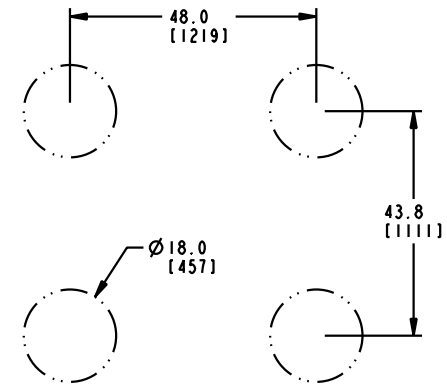
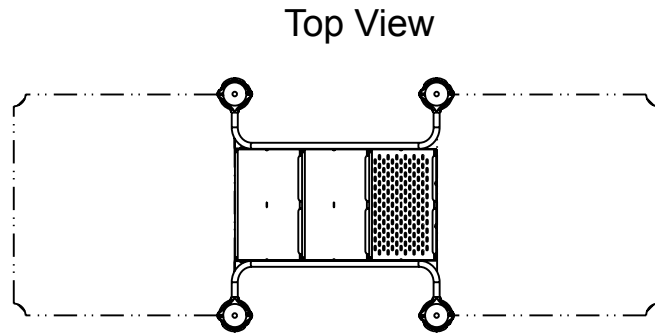
Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9168

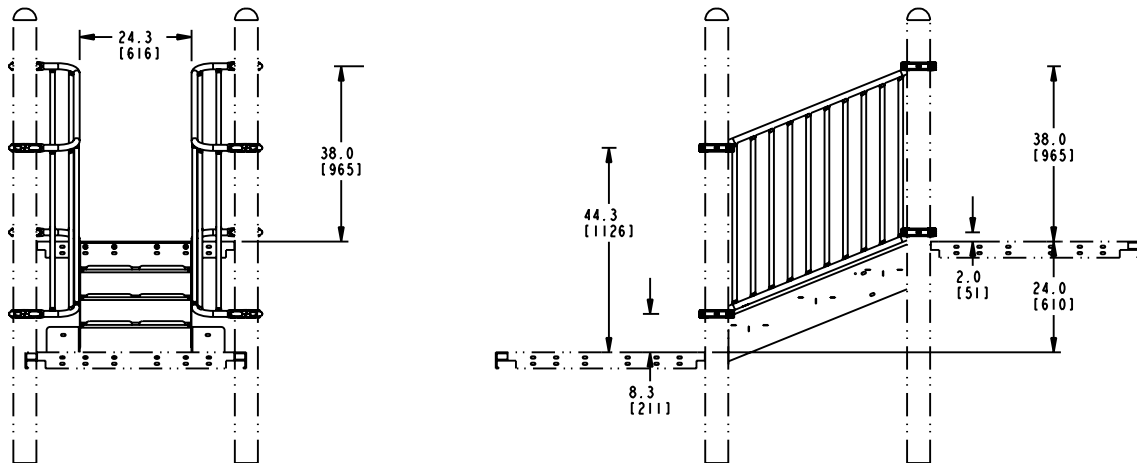


Installation Instructions

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



Footing Diagram

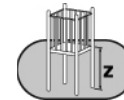
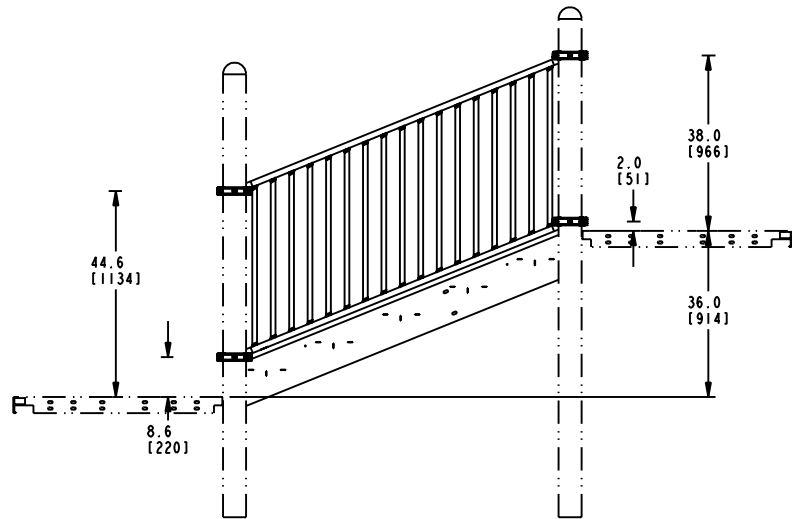
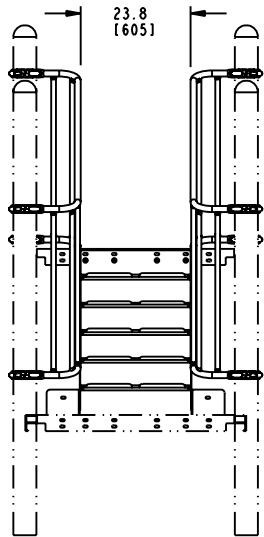
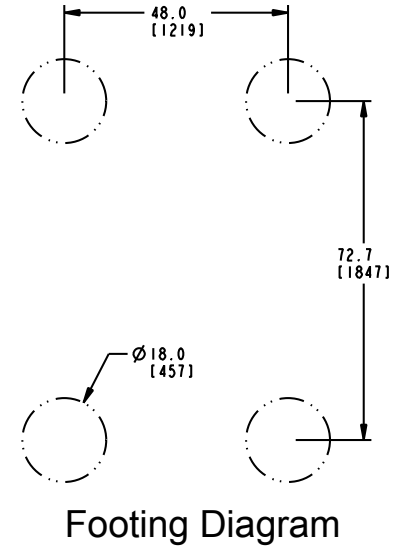
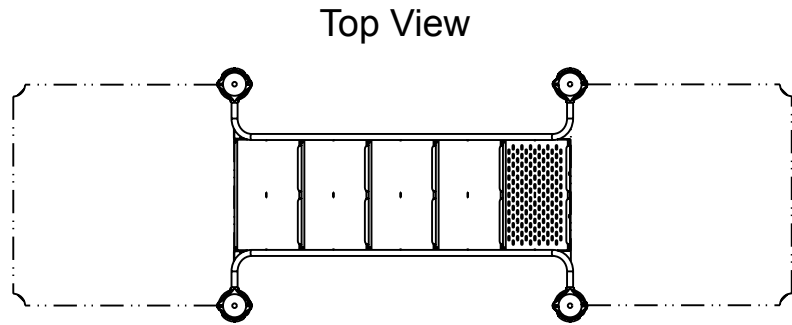


Elevation Views
PM9170

Height of the upper deck
minus 6" (152 mm)

Installation Instructions

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

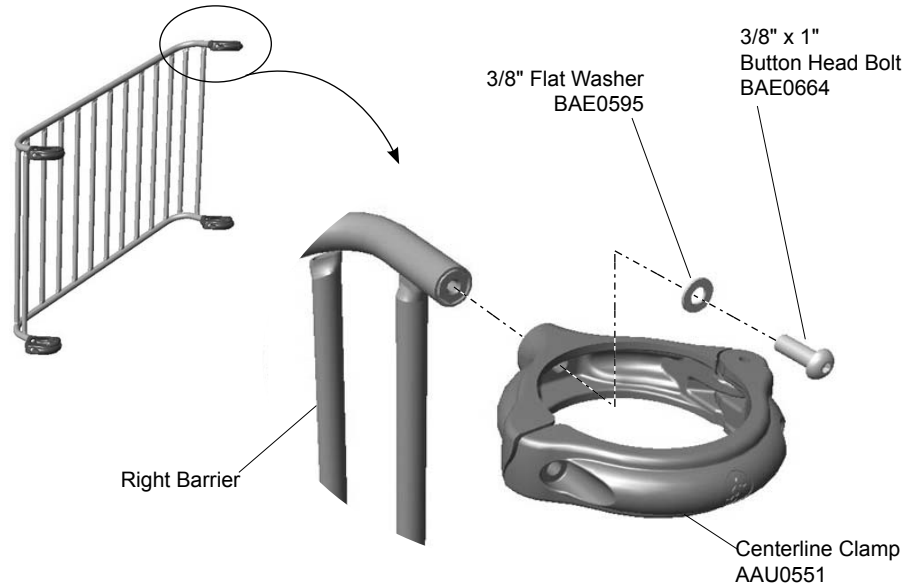


Height of the upper deck
minus 6" (152 mm)

Elevation Views
PM9177

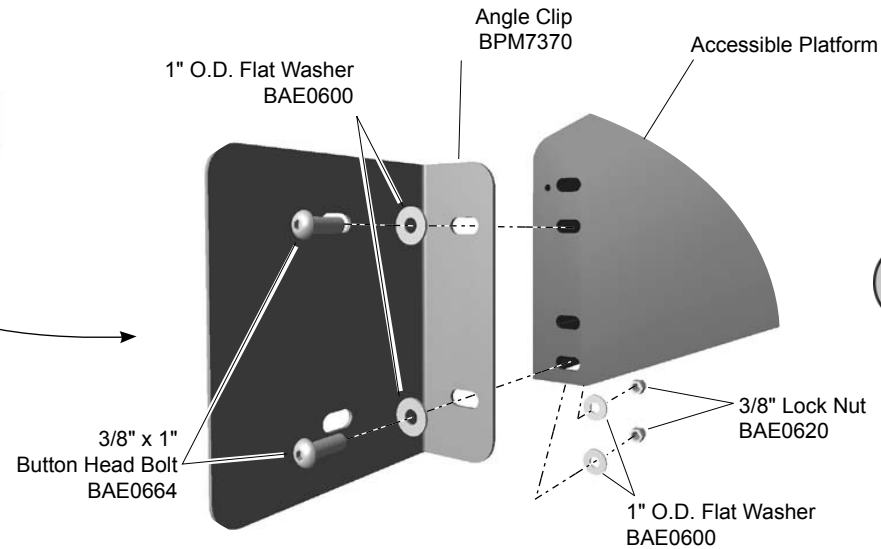
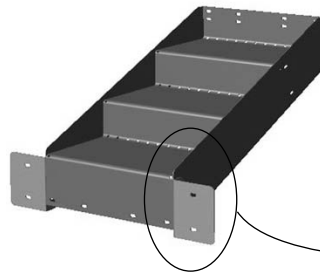
Installation Instructions

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

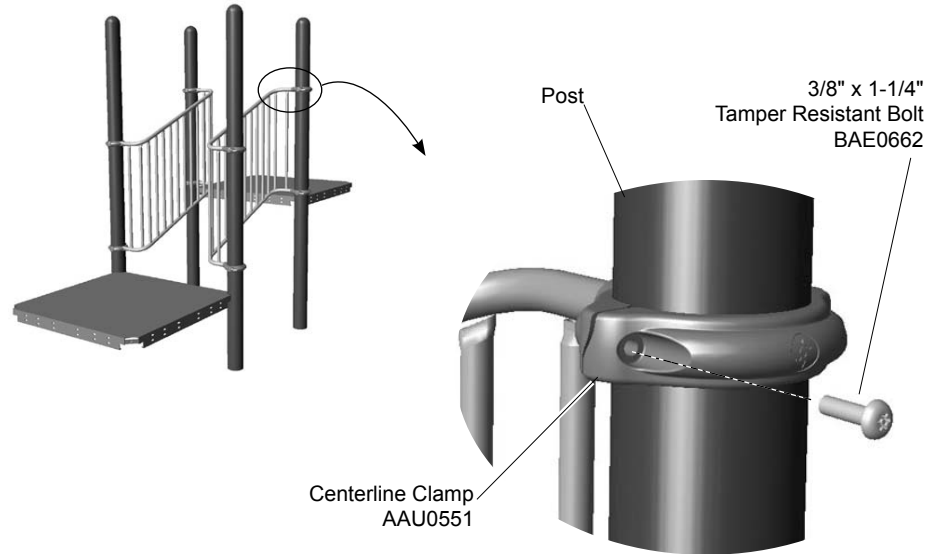


Detail A
Step 4

The front of angle clip should be even with the face of the platform



Detail C
Step 6

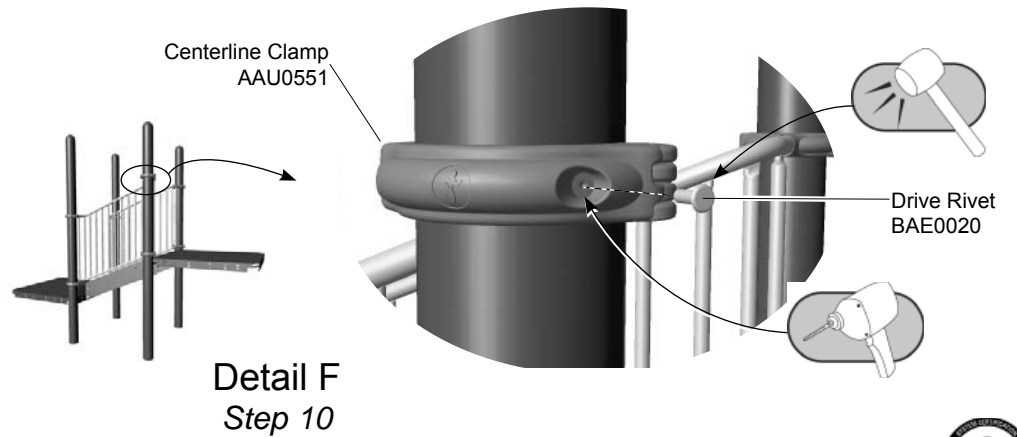
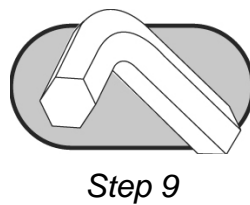
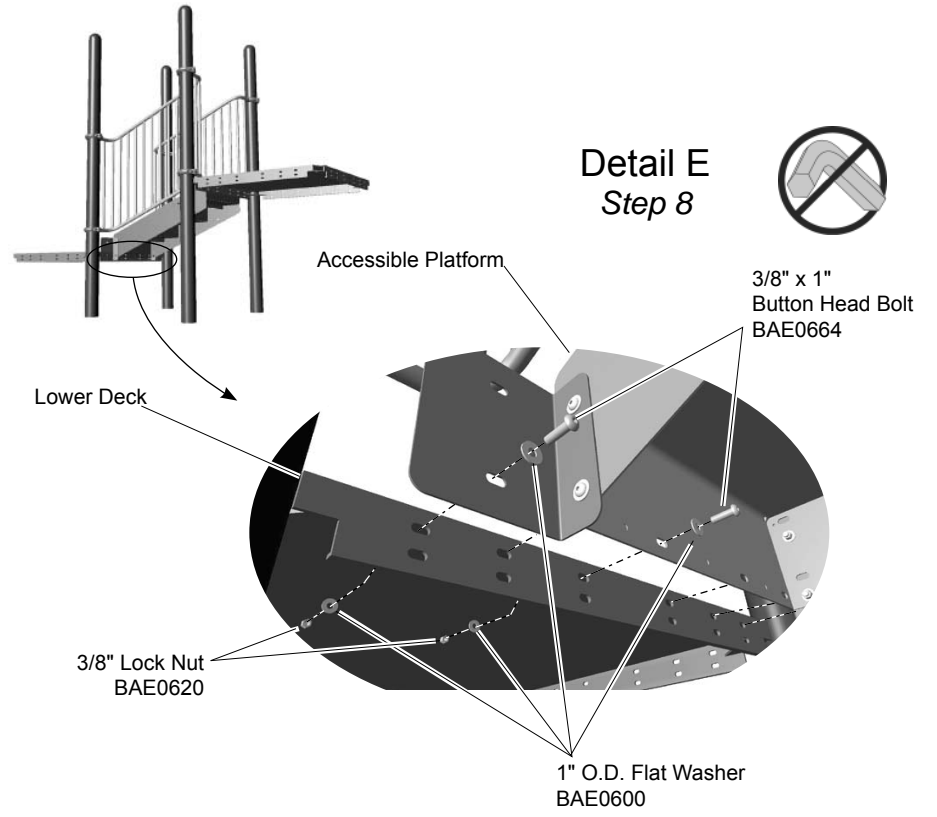
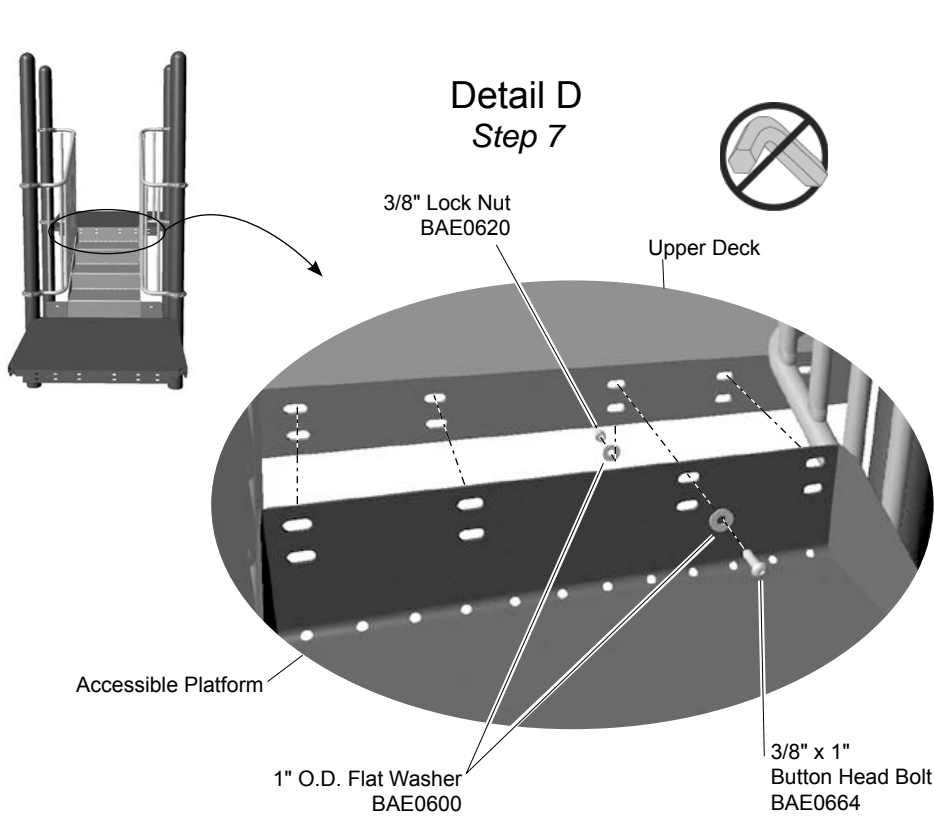


Detail B
Step 5



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



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