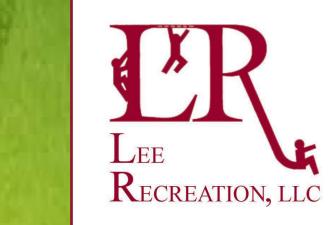
Attachment 1

Manufacturer Installation Specifications

These installation specifications are intended to provide assistance in bidding and to verify correct delivery when materials have been shipped by the manufacturer to the Contractor.

The Contractor shall refer to the site plans in the contract for site layout.

BRIGHAM PARK Madison, WI Option #2



(800) 775-8937 *Main* (608) 423-7655 *Fax*

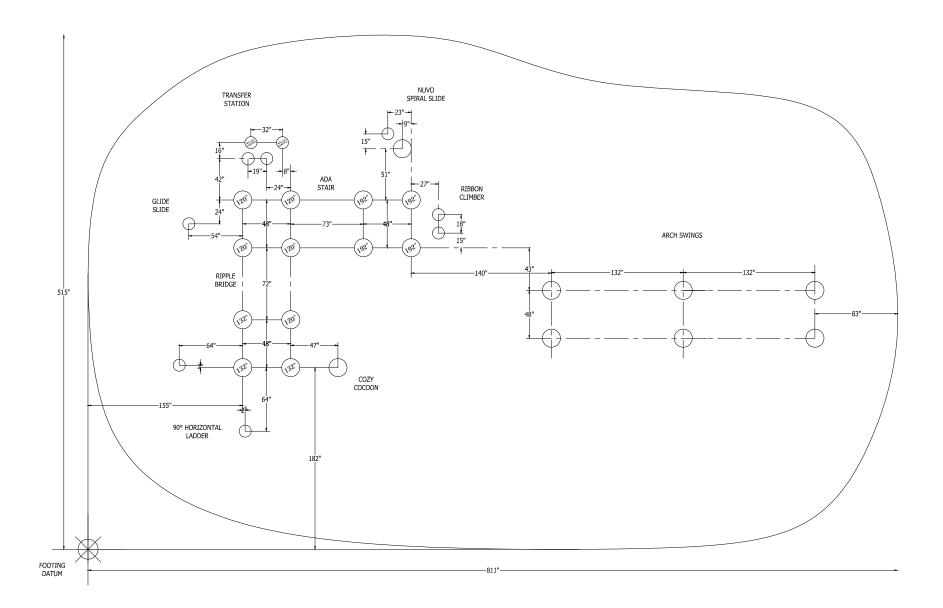
809 Bluebird Pass Cambridge, WI 53523

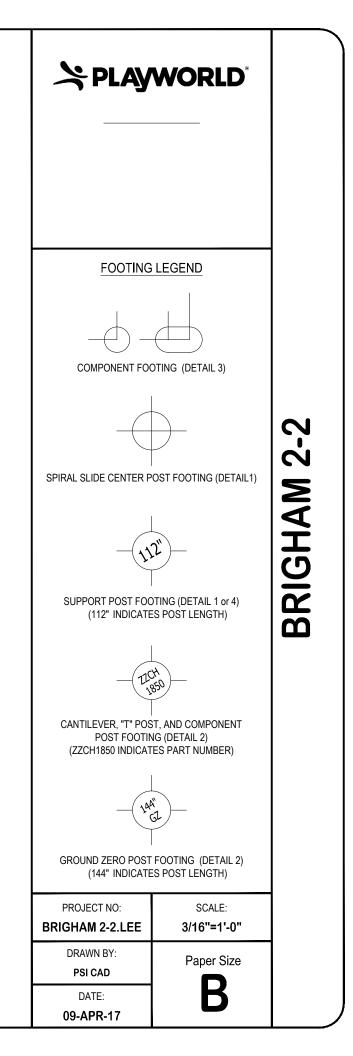
info@leerecreation.com LLC www.leerecreation.com

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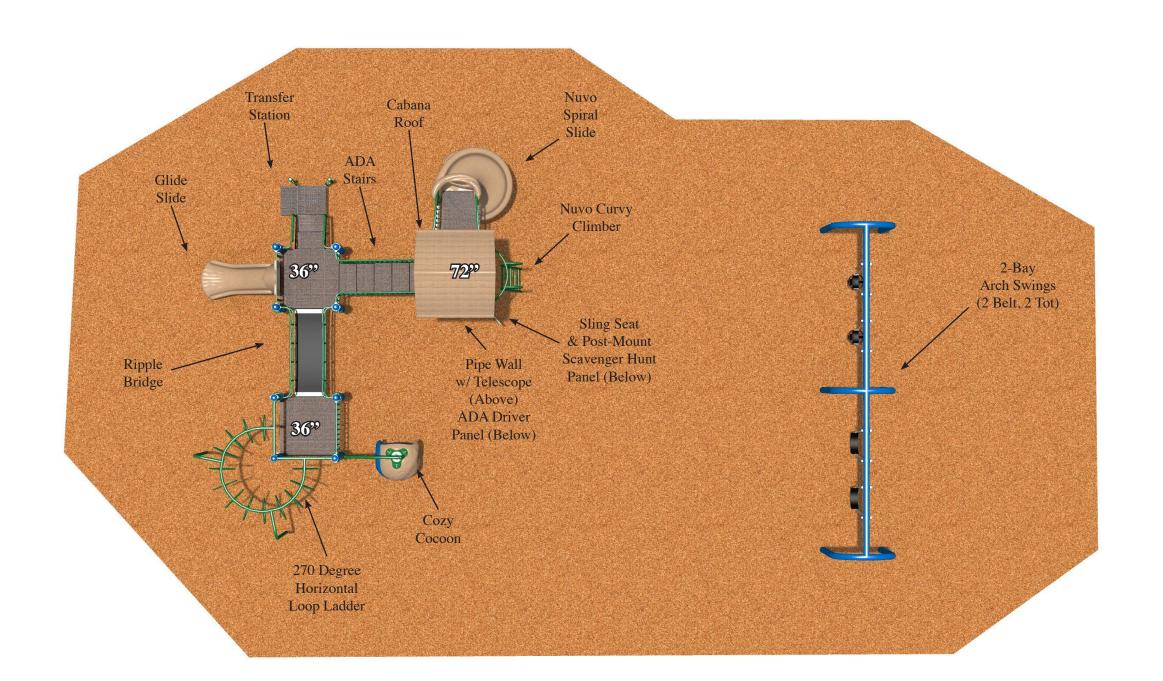








BRIGHAM PARK MADISON, WI FINAL DRAWING





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Providing Fun Across Wisconsin Since 1995

Complies With:

- \boxtimes
 - ASTM F1487-01
- ASTM F1487-98
- \boxtimes CPSC #325
- ADA-ADAAG

Design Number: PW042717-1

- Use Zone:
- # of Users: 42
- # of Active Play Events: 14
 - Age: 5 to 12

Colors Shown:





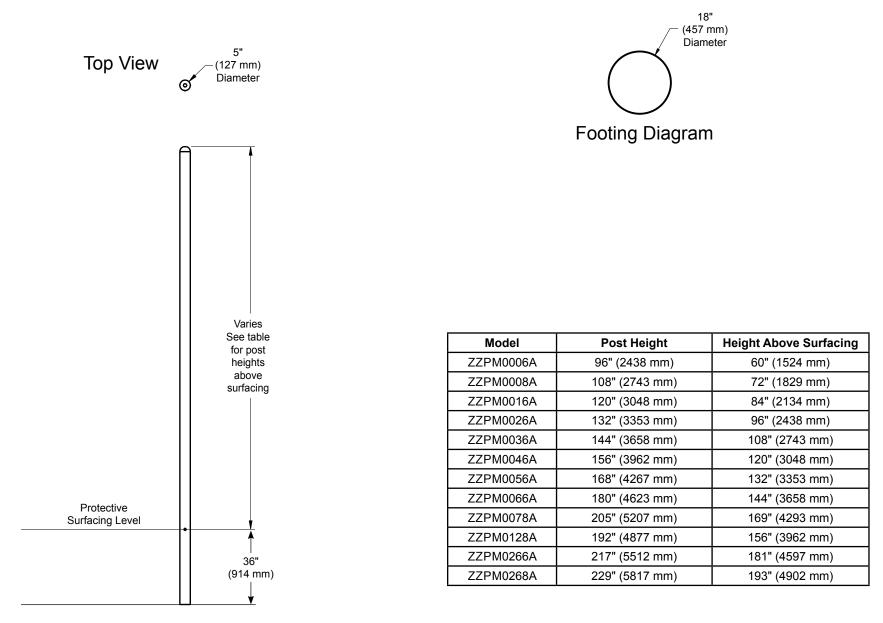
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)
PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)
PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1
PM0026A - AL	UMINUM SUPPORT POST w/ CAP 132 in. (3353 m	m)
PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1
PM0036A - AL	UMINUM SUPPORT POST w/ CAP 144 in. (3658 m	m)
PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1
PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - AL	.UMINUM SUPPORT POST w/ CAP 180 in. (4623 m	m)
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0078A - AL	.UMINUM SUPPORT POST w/ CAP 205 in. (5207 m	m)
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0128A - AL	.UMINUM SUPPORT POST w/ CAP 192 in. (4877 m	m)
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - AL	.UMINUM SUPPORT POST w/ CAP 217 in. (5512 m	m)
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)		
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

1

CAP0427



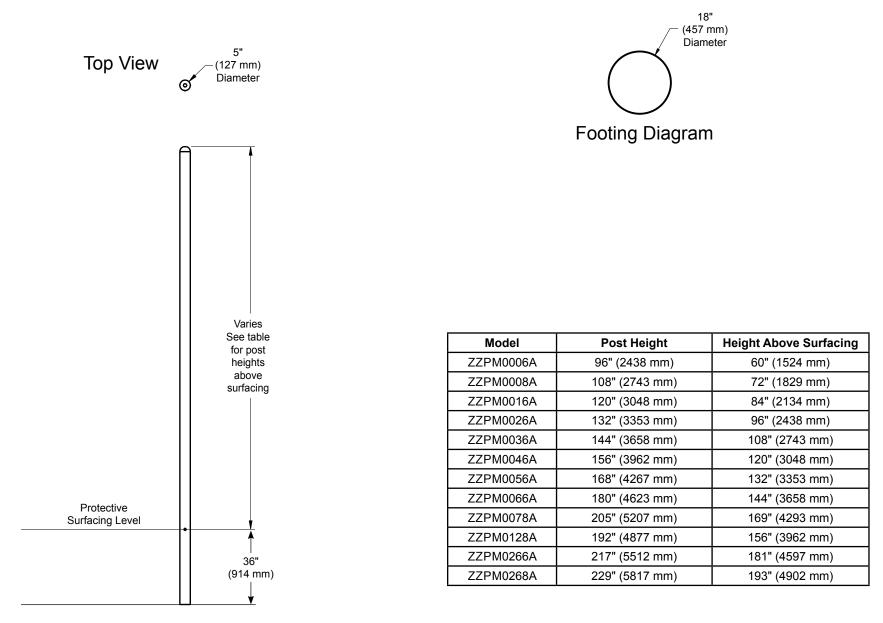
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)
PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)
PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1
PM0026A - AL	UMINUM SUPPORT POST w/ CAP 132 in. (3353 m	m)
PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1
PM0036A - AL	UMINUM SUPPORT POST w/ CAP 144 in. (3658 m	m)
PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1
PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - AL	.UMINUM SUPPORT POST w/ CAP 180 in. (4623 m	m)
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0078A - AL	.UMINUM SUPPORT POST w/ CAP 205 in. (5207 m	m)
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0128A - AL	.UMINUM SUPPORT POST w/ CAP 192 in. (4877 m	m)
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - AL	.UMINUM SUPPORT POST w/ CAP 217 in. (5512 m	m)
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)		
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

1

CAP0427



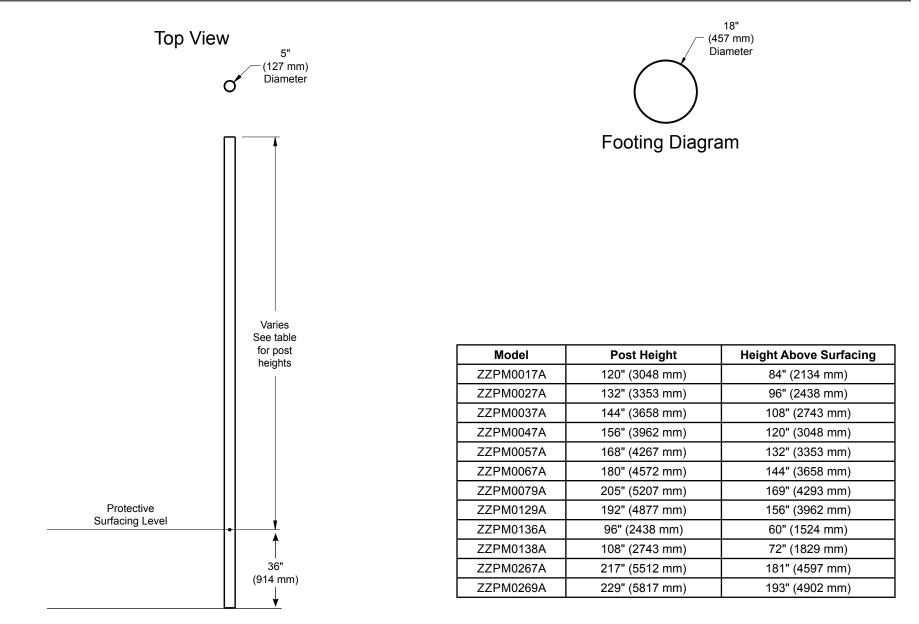
Playmakers[®] Models PM0017A, PM0027A, PM0037A, PM0047A, PM0057A, PM0067A, PM0079A, PM0129A, PM0136A, PM0138A, PM0267A, PM0269A Aluminum Support Post w/o Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)		
PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1
PM0027A - Al	_UMINUM SUPPORT POST w/o CAP 132 in. (3353	mm)
PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1
PM0037A - Al	LUMINUM SUPPORT POST w/o CAP 144 in. (3658	mm)
PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1
PM0047A - Al	LUMINUM SUPPORT POST w/o CAP 156 in. (3962	mm)
PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1
PM0057A - Al	LUMINUM SUPPORT POST w/o CAP 168 in. (4267	mm)
PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1
PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)		
PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1
PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)		
PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - A	ALUMINUM SUPPORT POST w/o CAP 192 in. (4877	mm)
PART NO. BAF5063	DESCRIPTION POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	QTY . 1
PM0136A - A	ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 n	nm)
PART NO. BAF5007	DESCRIPTION POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	QTY. 1
PM0138A - A	ALUMINUM SUPPORT POST w/o CAP 108 in. (2743	mm)
PART NO. BAF5009	DESCRIPTION POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	QTY . 1
PM0267A - A	ALUMINUM SUPPORT POST w/o CAP 217 in. (5512	mm)
PART NO. BAF0425	DESCRIPTION POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	QTY . 1
PM0269A - A	ALUMINUM SUPPORT POST w/o CAP 229 in. (5817	mm)
PART NO.	DESCRIPTION	OTY.

POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"





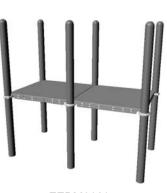
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BAF0427



Playmakers[®] PM0616 and PM0629 Square and Long Coated Perforated Decks





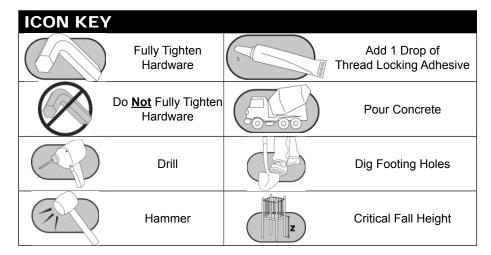
ZZPM0616 Square Deck

ZZPM0629 Long Deck

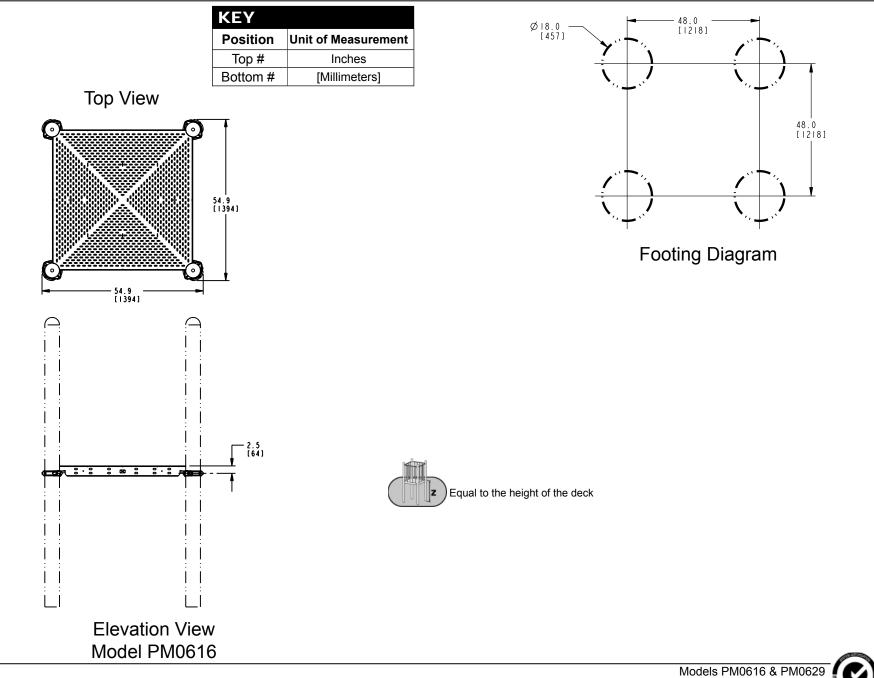
Assembly View

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

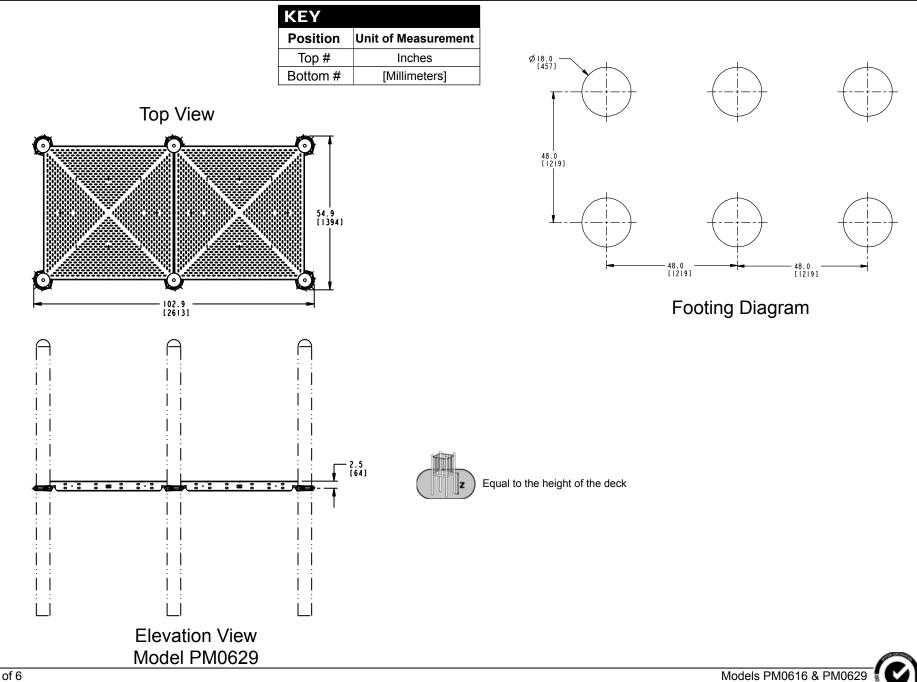






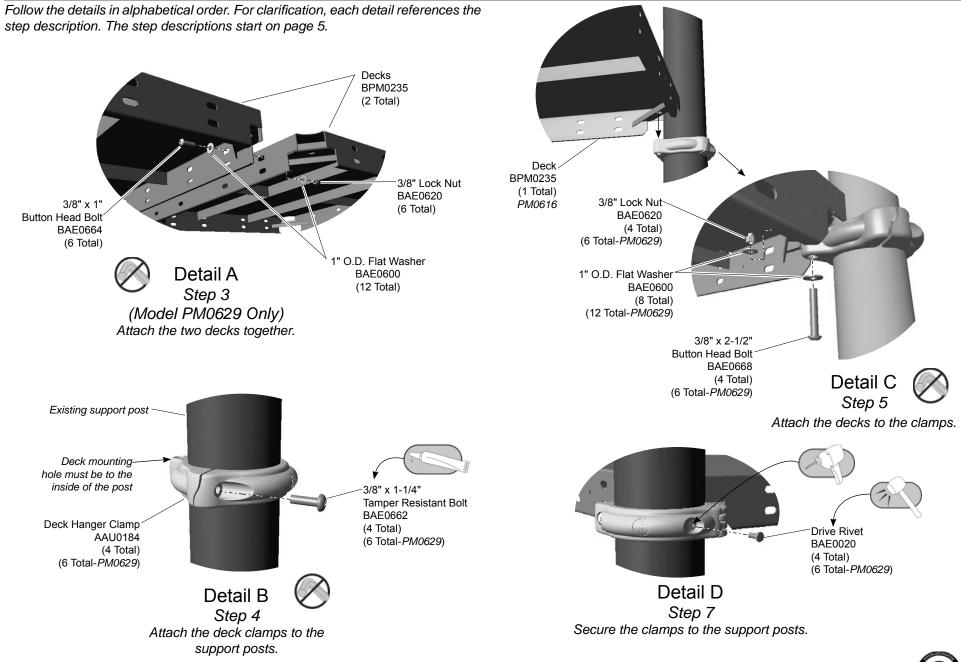
ECN2382

SGS



ECN2382

SGS





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.

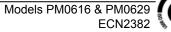
PM0616 - SQUARE COATED PERFORATED DECK

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





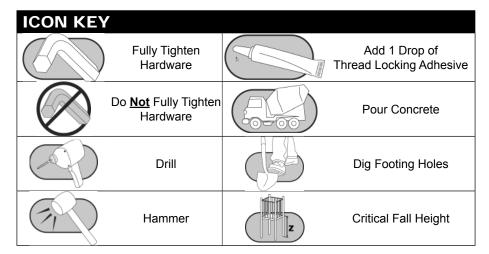
SGS



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

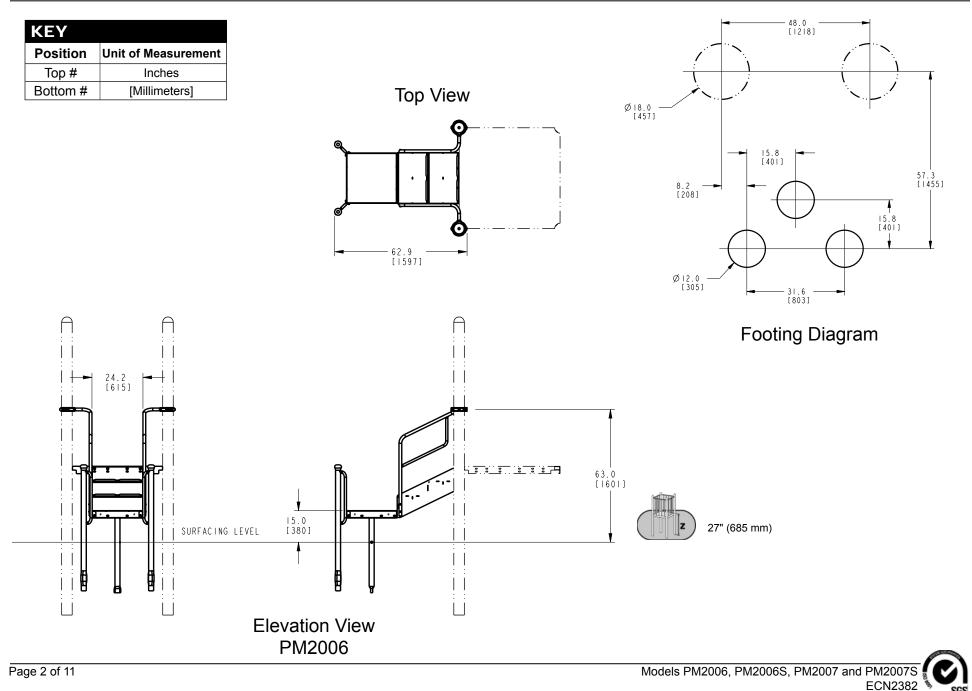




Models PM2006, PM2006S, PM2007 and PM2007S



Assembly View (representative model)

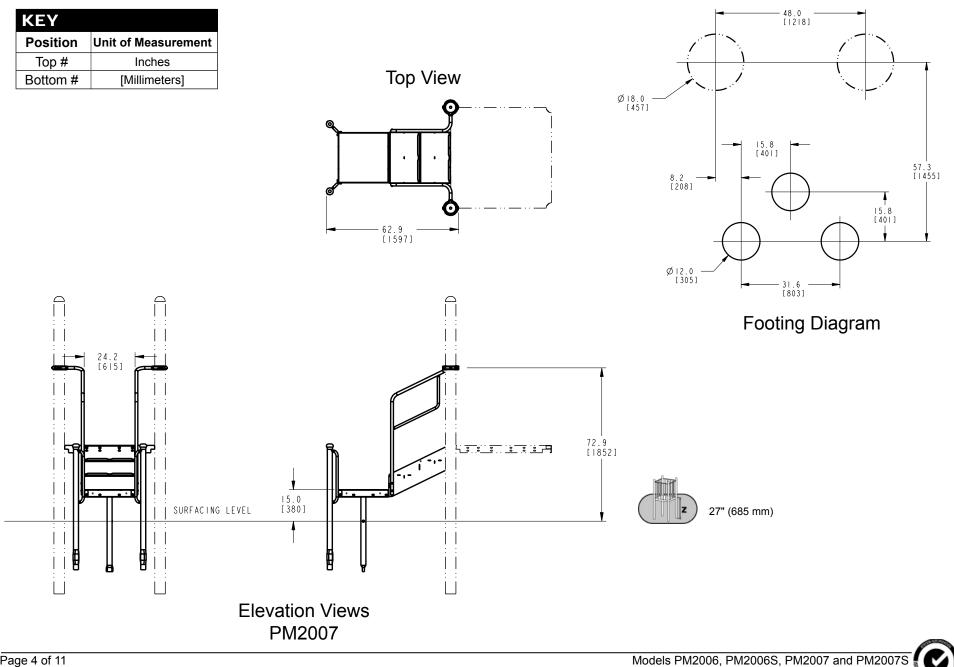


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SGS

KEYPositionUnit of MeasurementTop #InchesBottom #[Millimeters]	Top View	48.0 (1218) (457) (457) (457) (457) (15.8) (401) (401) (1455) (145) (15)
		Footing Diagram
24.2 [615]		63.0 [1601] 27" (685 mm)
El	evation View PM2006S	C
Page 3 of 11		Models PM2006 PM2006S PM2007 and PM2007S





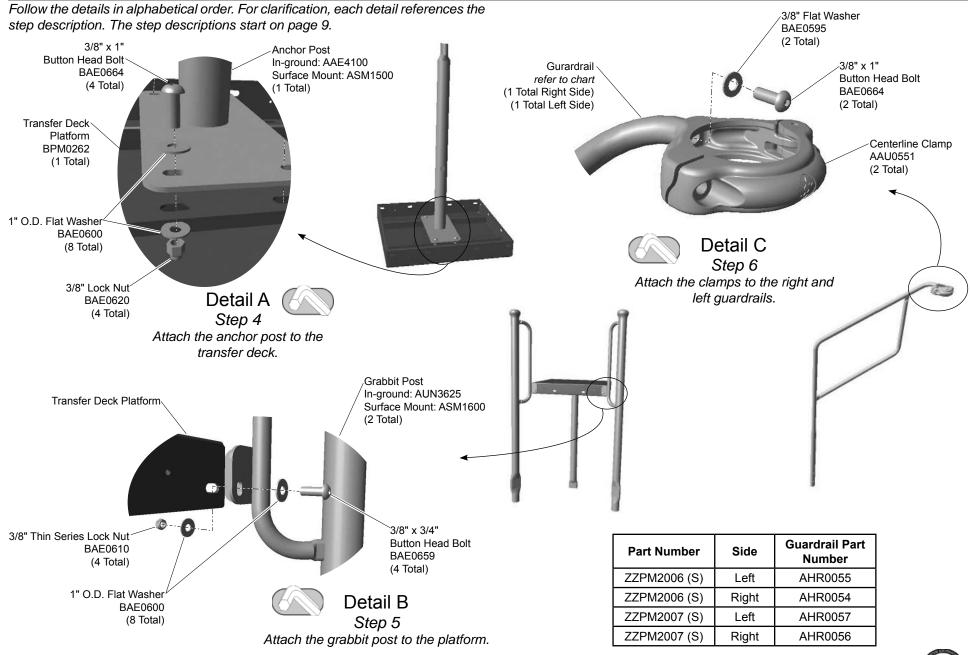
ECN2382

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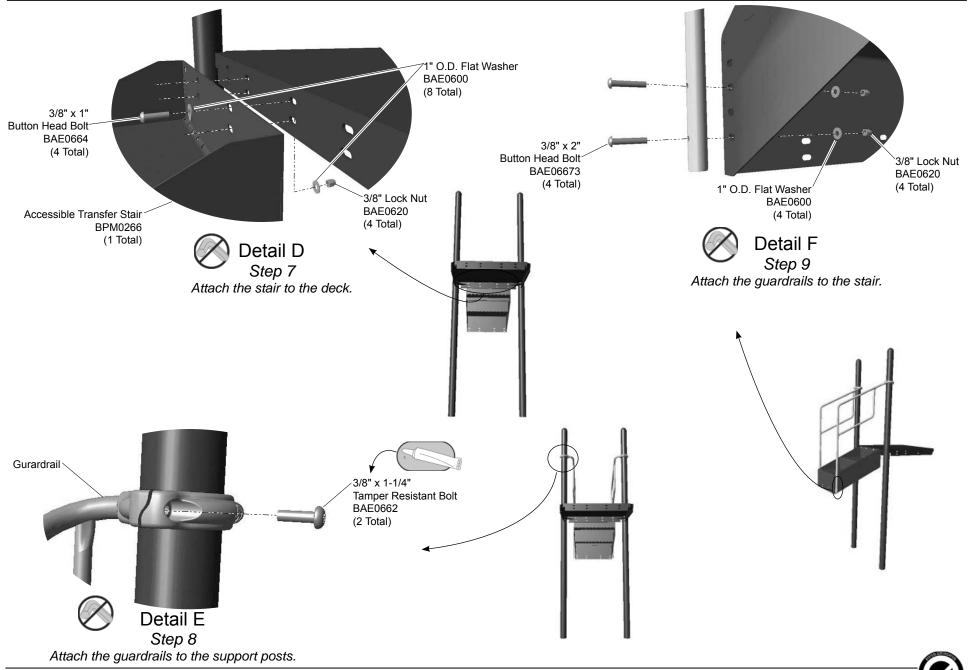
SGS

KEY				48.0	
Position	Unit of Measurement				
Top #	Inches				
Bottom #	[Millimeters]		$\tau \rightarrow r$		4
			Top View		
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		-	— 62.9 [1598]		<u> </u>
			[1598]		
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				Footing Diagram	
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		NG LEVEL [380]			
	SURFACIN	NG LEVEL [380]		27" (685 mm)	
	• adda adda ta to	▲ <u>→</u> →			
		Elevation Views			
		PM2007S			ALL DO
Page 5 of 11		1 10120070		Models PM2006, PM2006S, PM2007 and PM2007S	

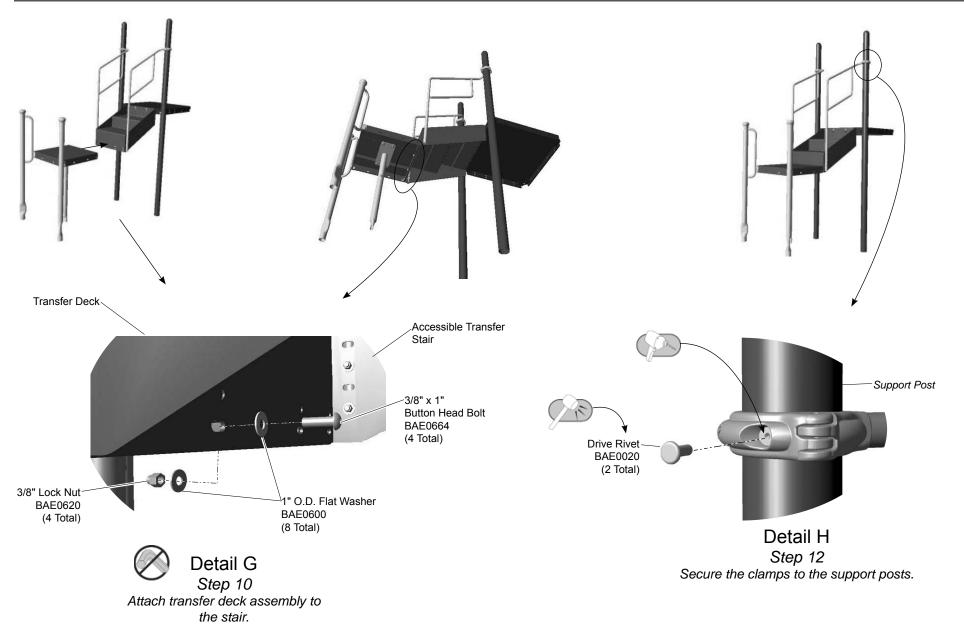












SGS

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 inground 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.



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

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





ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	
AAE4100	POST - 14" x 37-3/16" w/PLATE	1	AAE4100	POST - 14" x 37-3/16" w/PLATE	
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1	AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1	AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	
AUN3625	POST - 60-9/16" GRABBIT	2	AUN3625	POST - 60-9/16" GRABBIT	
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	
BAE0600	WASHER - 1" O.D. FLAT	36	BAE0600	WASHER - 1" O.D. FLAT	
BAE0610	NUT - 3/8"-16 THIN LOCK	4	BAE0610	NUT - 3/8"-16 THIN LOCK	
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4	BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4	BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1	BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1	BPM0266	STAIR - 21" ACSBLE COATED TRANSFER W/SLOTS	

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

BPM0266STAIR - 21" ACSBLE COATED TRANSFER w/SLOTS1ZZPM2007S - 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



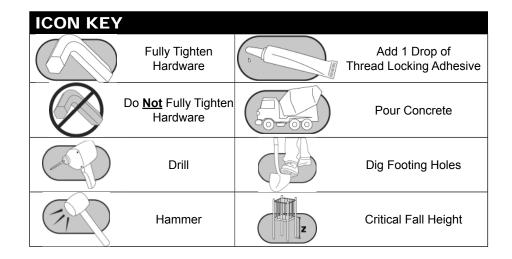


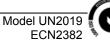


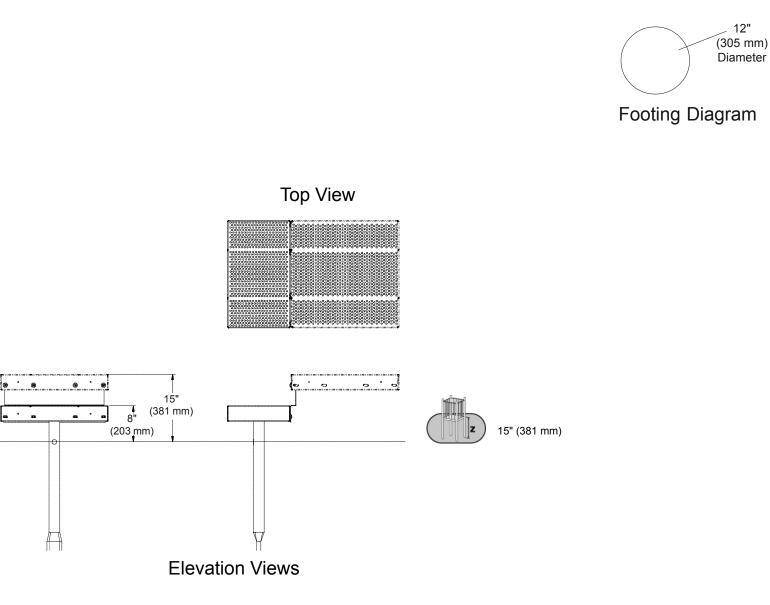
Universal Model UN2019 Platform Approach Step

Installation Preparation

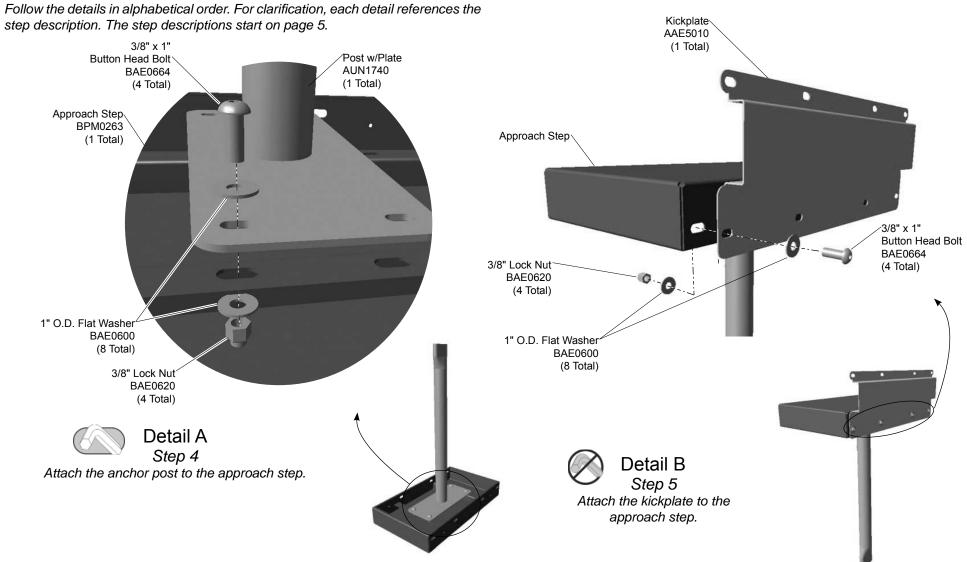
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



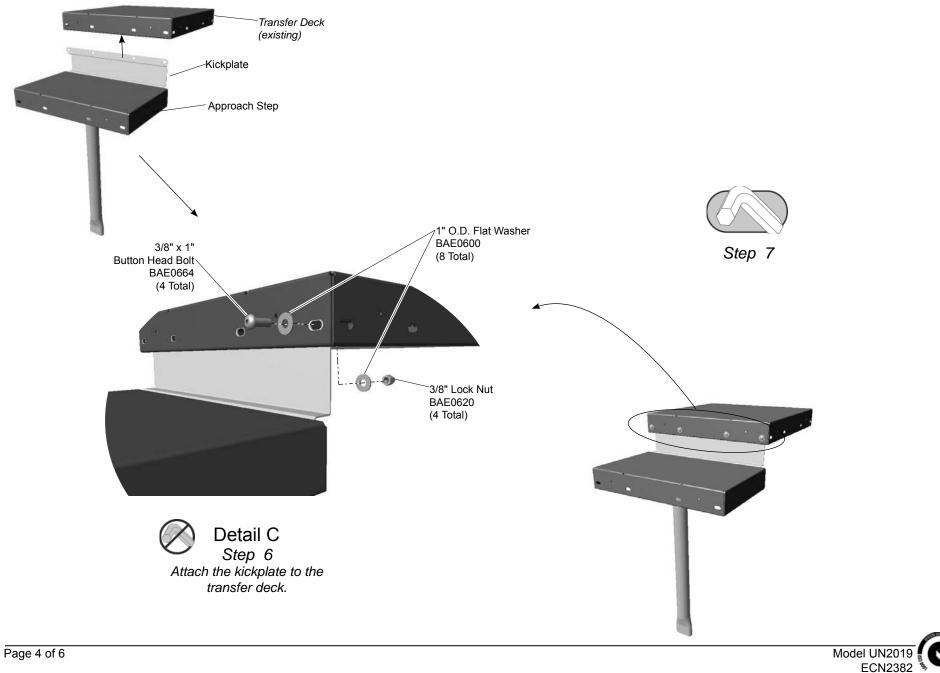












Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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





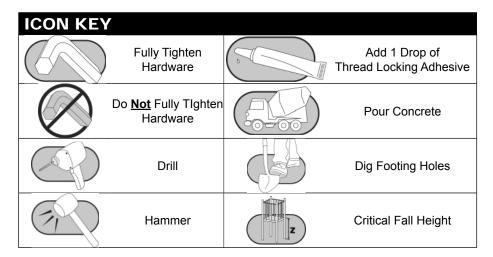
Model UN2019 ECN2382

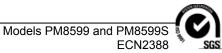


Playmakers[®] Models PM8599 and PM8599S Cozy Cocoon In-Ground and Surface Mount

Installation Preparation

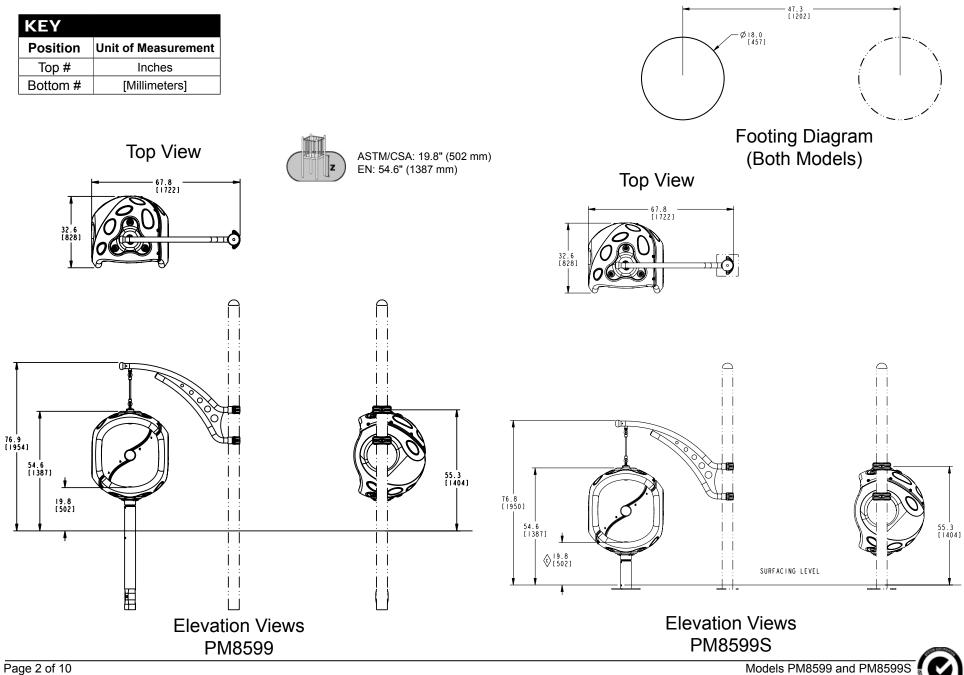
Recommended Crew:	Two (2) adults
Installation Time (in-ground):	1.5 man-hours
Installation Time (surface mount):	1 man-hour
Concrete Required:	0.13 cubic yard (0,10 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14





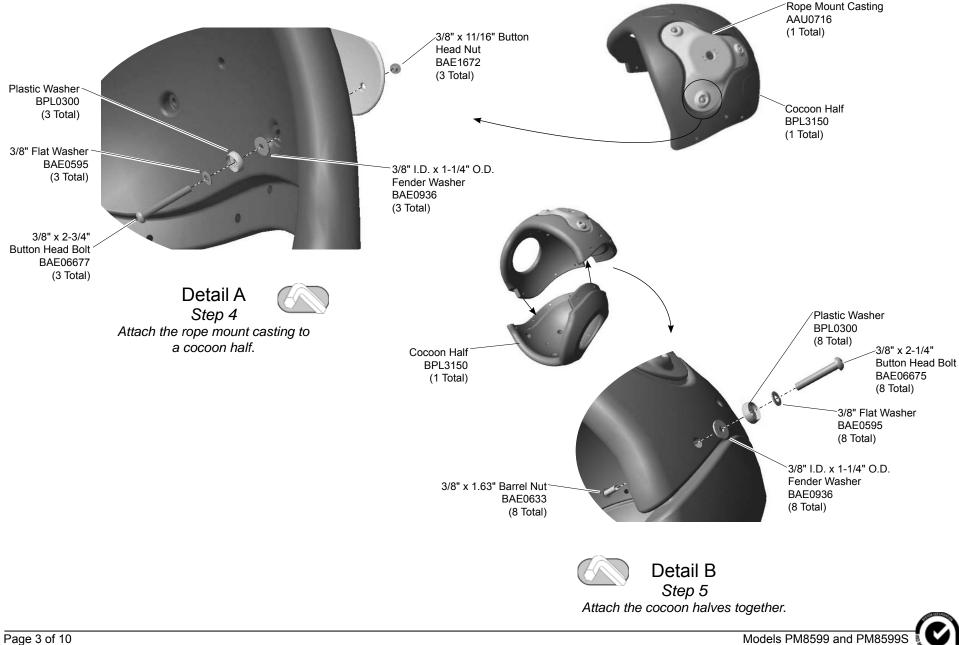


Assembly View (representative model)

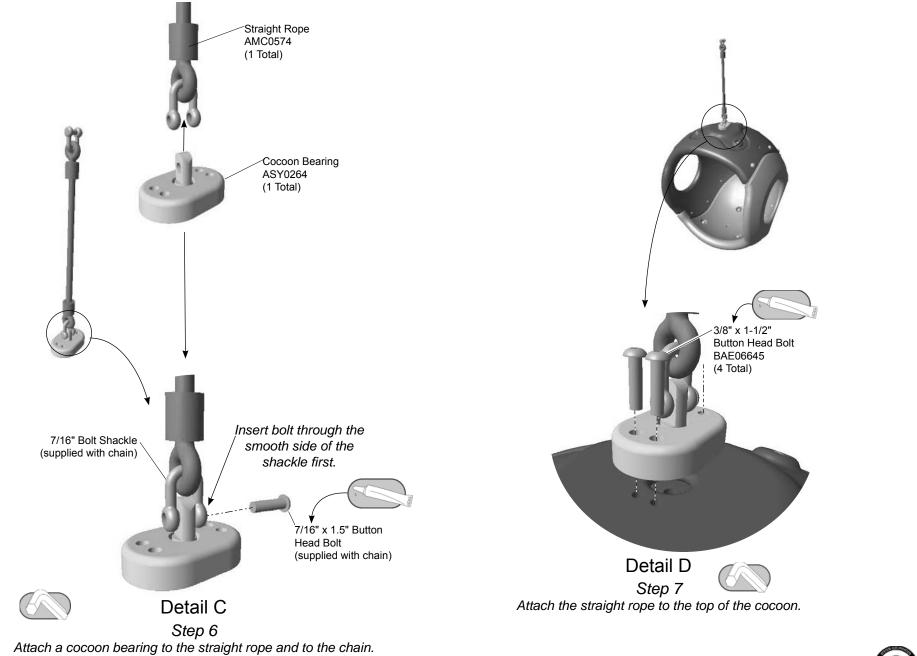


ECN2388

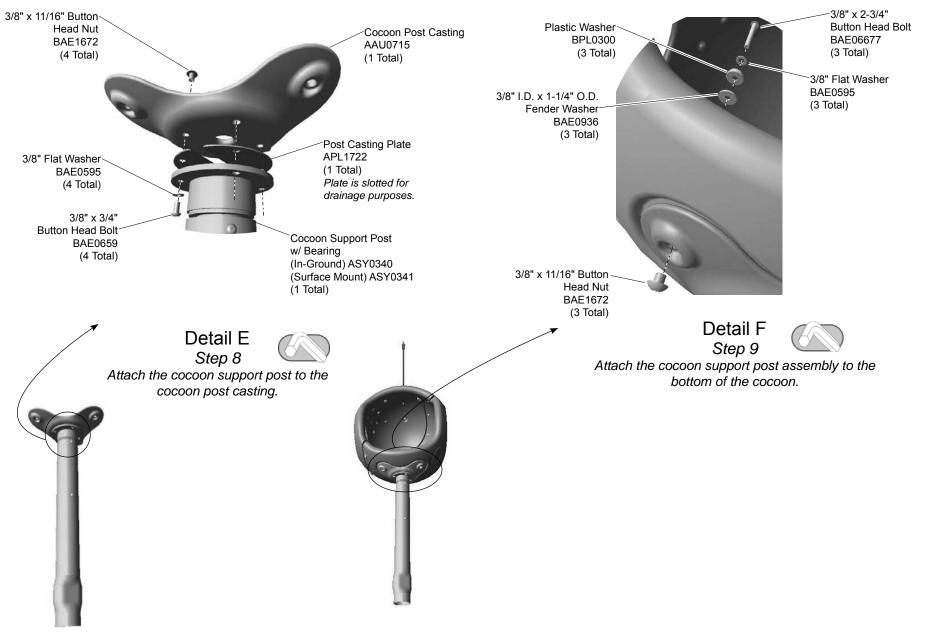
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.

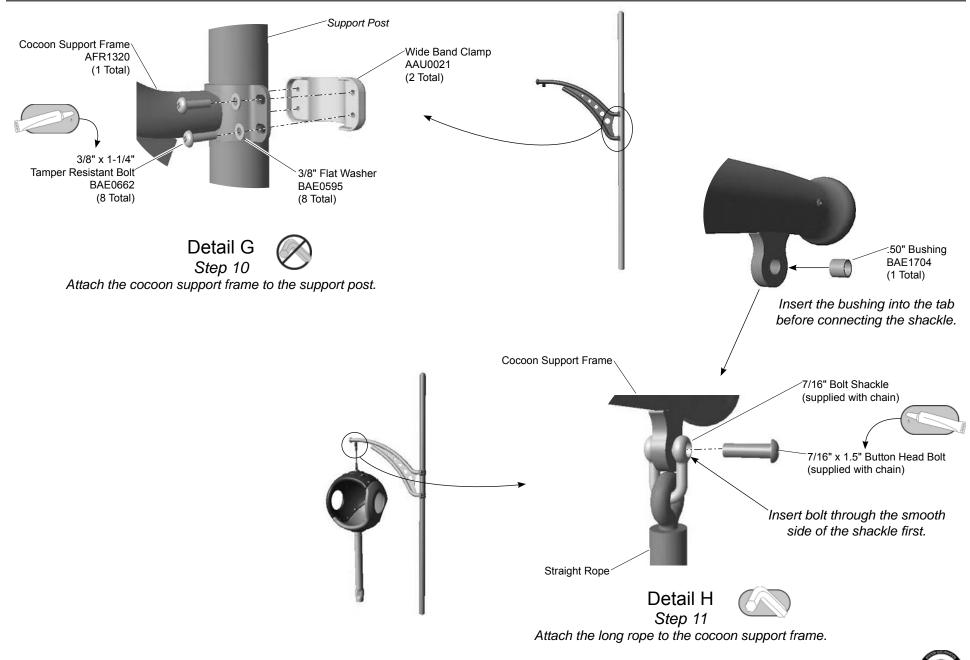


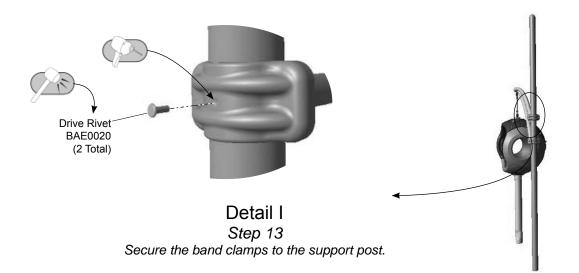
ECN2388

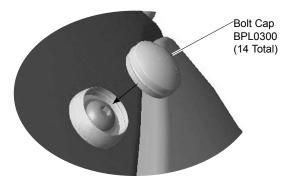




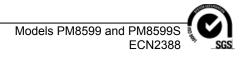








Detail J Step 14 Insert the bolt caps into the plastic washers.



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

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

Torque Specifications:

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

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

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

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

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

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

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

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

Final Details.

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

Torque Specifications:

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

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

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

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



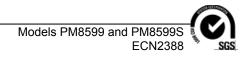
Step 13: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each band clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of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

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

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

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

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



PM8599 - COZY COCOON

PM8599S - COZY COCOON SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2	AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1	AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1	AAU0716	COCOON MOUNT (ROPE)	1
AFR1320	FRAME - COCOON ARM (PM)	1	AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1	AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1	APL1722	PLATE - 7.75" O.D. x 12 GA	1
ASY0264	COCOON BEARING	1	ASY0264	COCOON BEARING	1
ASY0340	ASSEMBLY - COCOON BEARING	1	ASY0341	ASSEMBLY - COCOON BEARING (SM) 5-12	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26	BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8	BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	4	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	4	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	8	BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	8
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - S.S.	6	BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - S.S.	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14	BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10	BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BAE1704	BUSHING44" I.D. x .56" O.D. x .50"	1	BAE1704	BUSHING44" I.D. x .56" O.D. x .50"	1
BPL0300	CAP - 3/8" BOLT	14	BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2	BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1







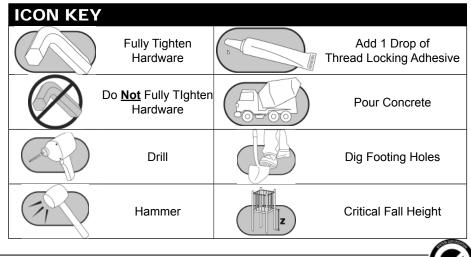
Assembly View (representative model)

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

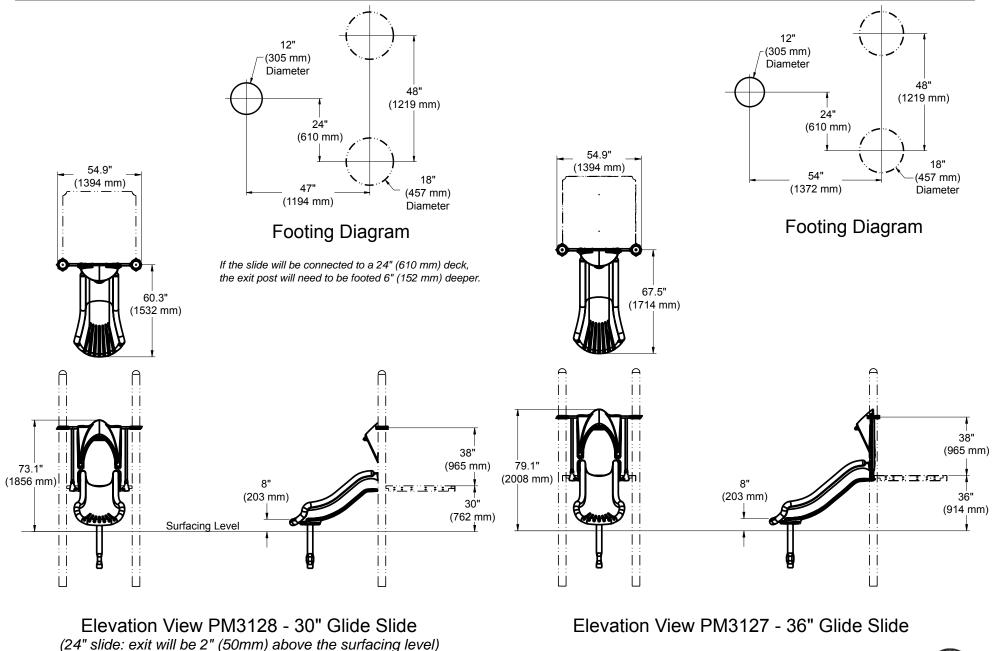
Playmakers[®] Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides

Installation Preparation

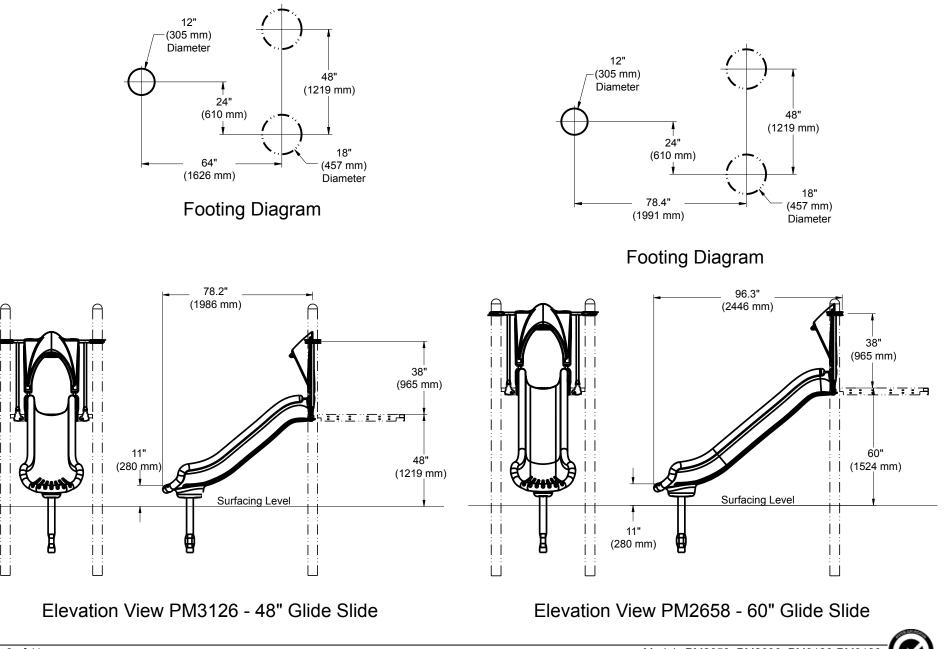
Recommended Crew:	Two (2) adults
Installation Time:	1.5 man-hours
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



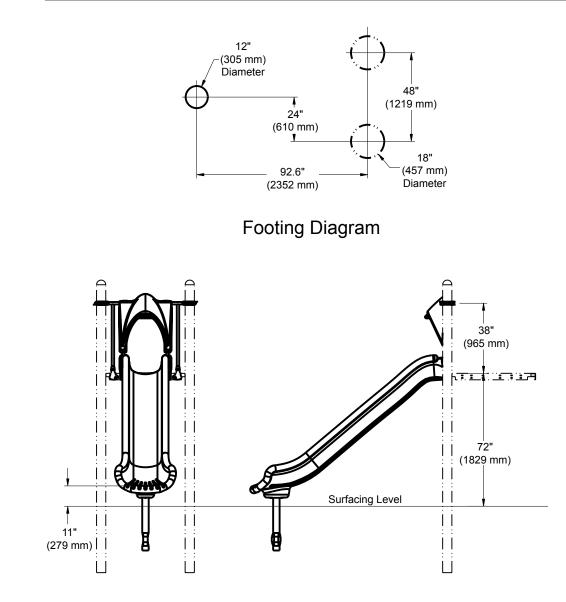








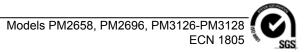


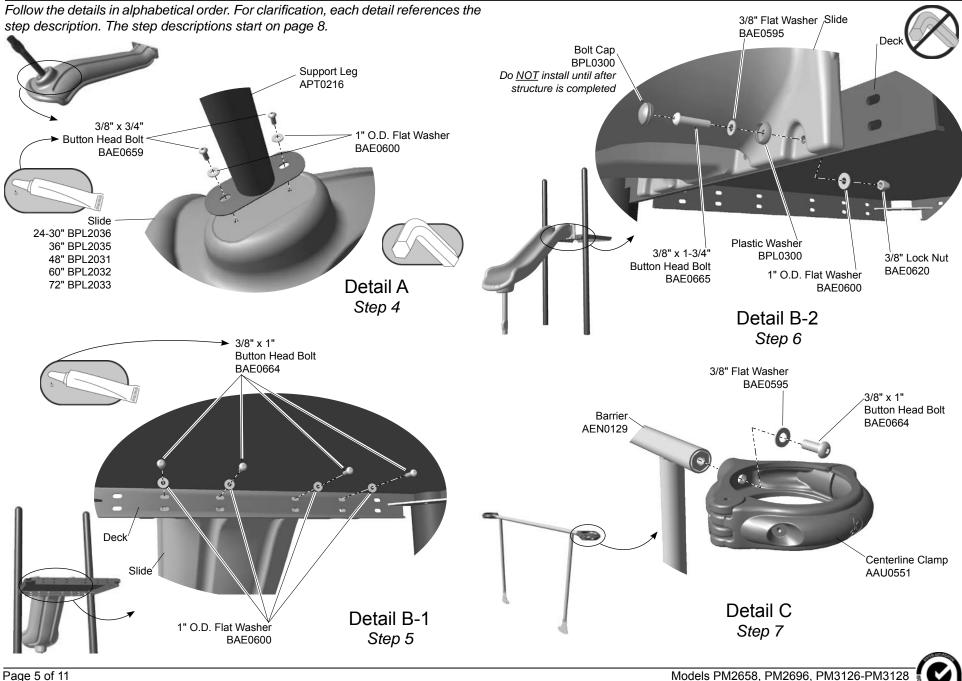


Elevation View PM2696 - 72" Glide Slide

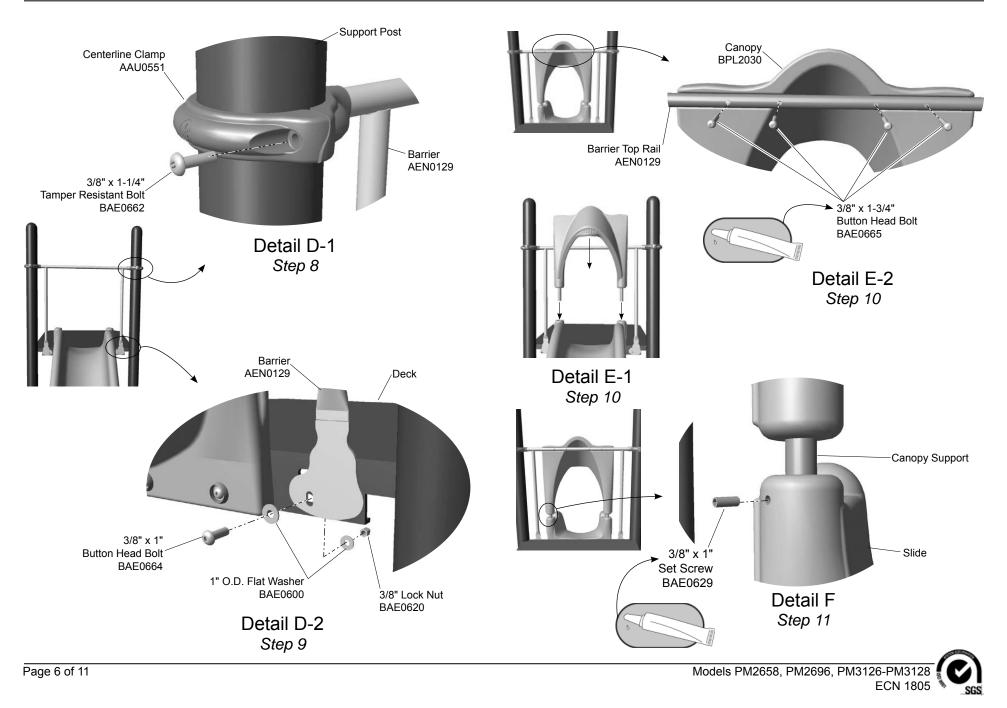


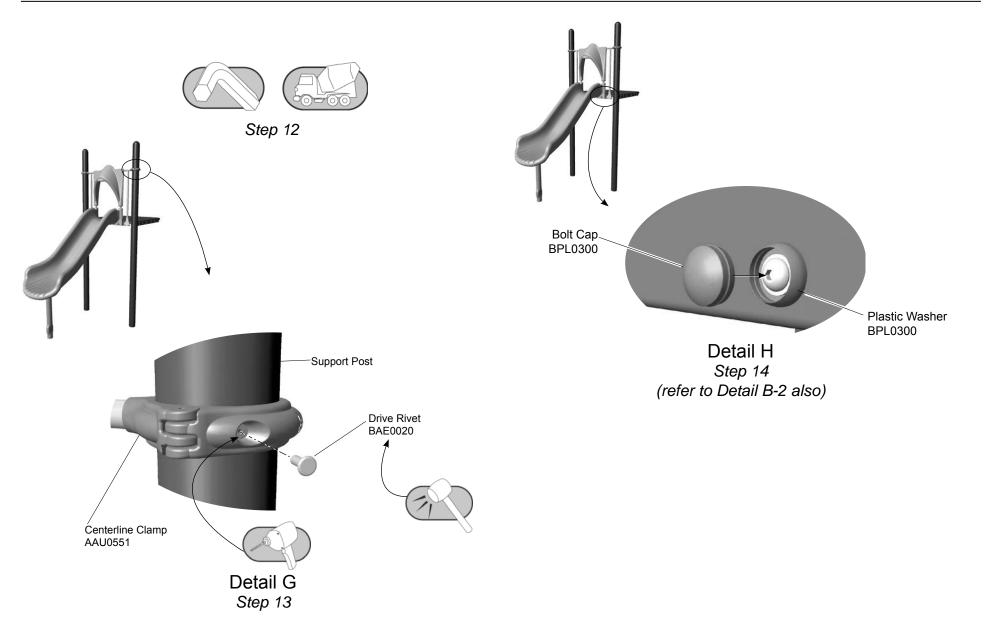
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

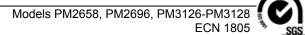




ECN 1805







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.

Models PM2658, PM2696, PM3126-PM3128

Torque specifications :

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

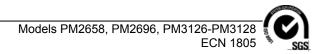


Step 13: Install drive rivets. See **Detail G.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the 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.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	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	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1	BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE
BPL2033	SLIDE - 72" SINGLE GLIDE	1	BPL2035	SLIDE - 36" SINGLE GLIDE
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL



QTY.

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" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1







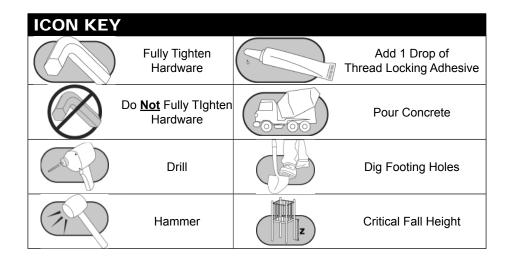


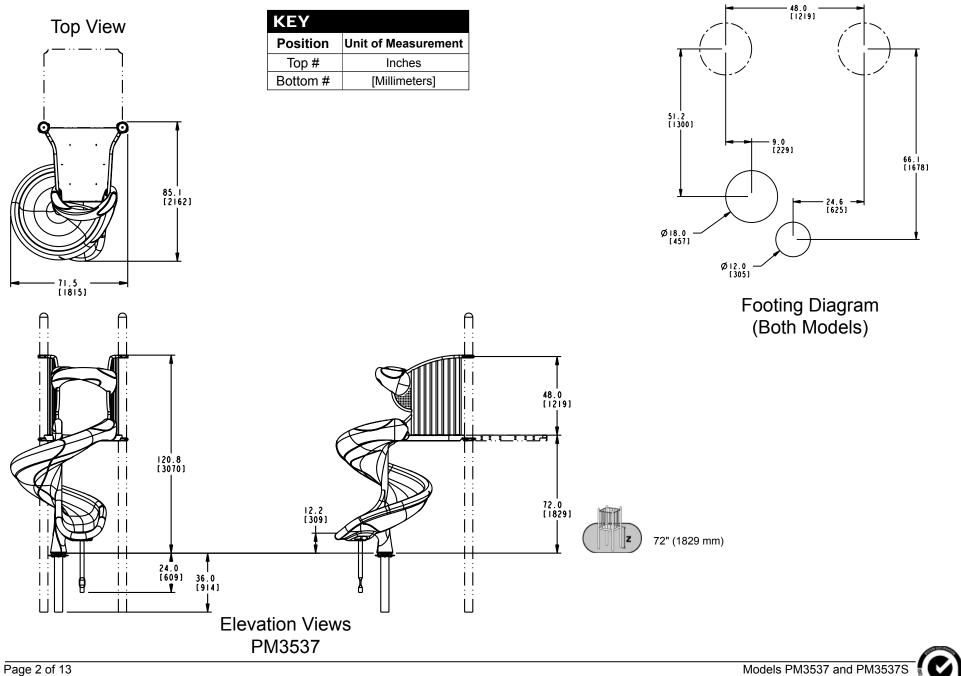
Assembly View (representative model)

Playmakers[®] Models PM3537 and PM3537S Nuvo[™] 360° Spiral Slide In-Ground and Surface Mount

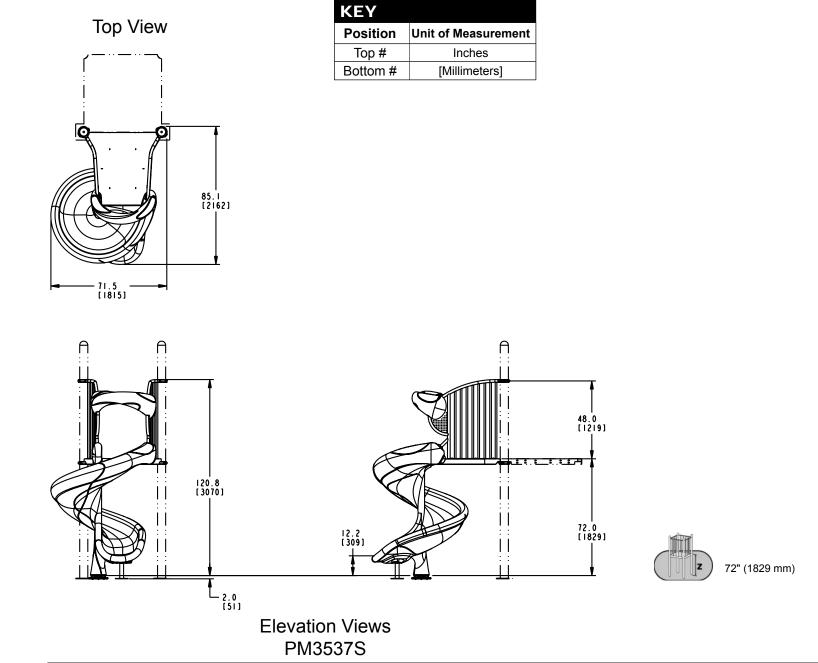
Installation Preparation

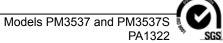
Recommended Crew:	Four (4) adults
Installation Time (in-ground):	6 man-hours
Installation Time (surface mount):	5 man-hours
Concrete Required:	0.15 cubic yard (0,11 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

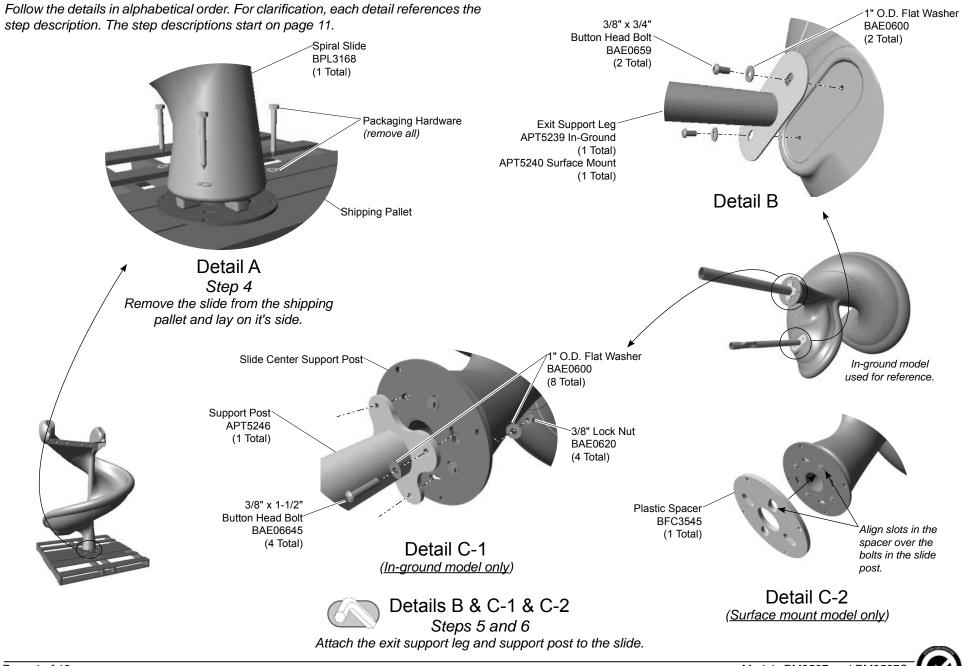


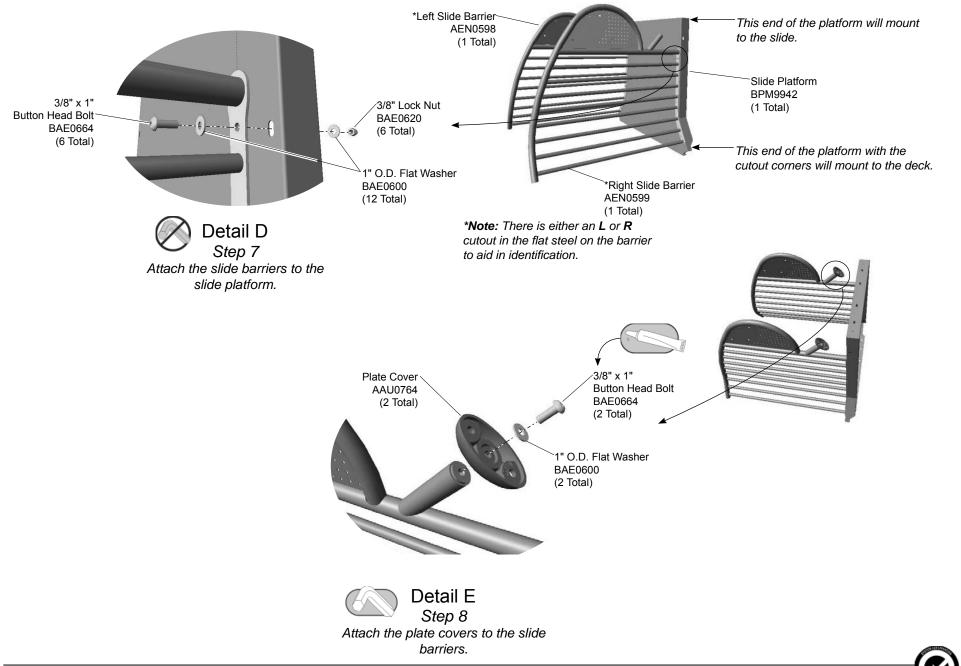


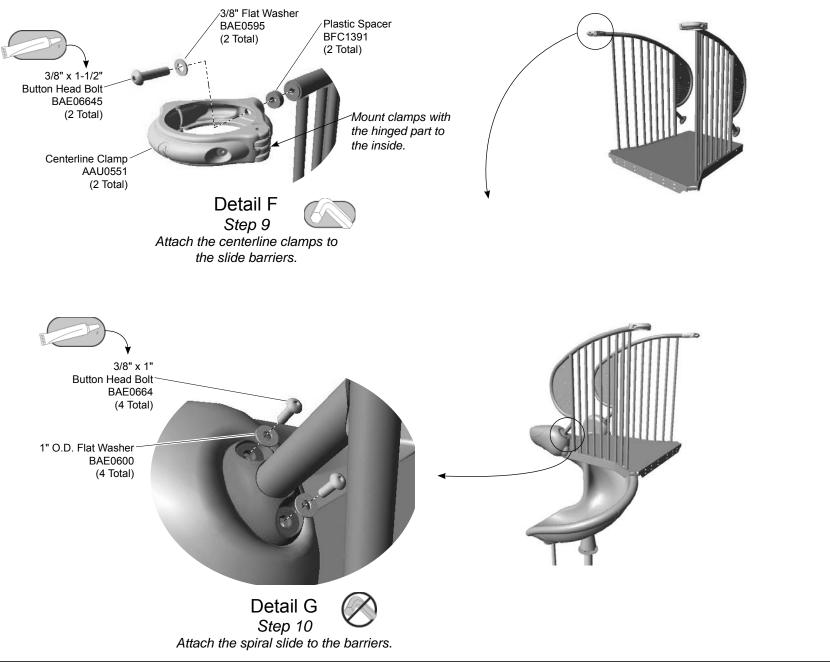
PA1322

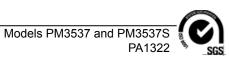


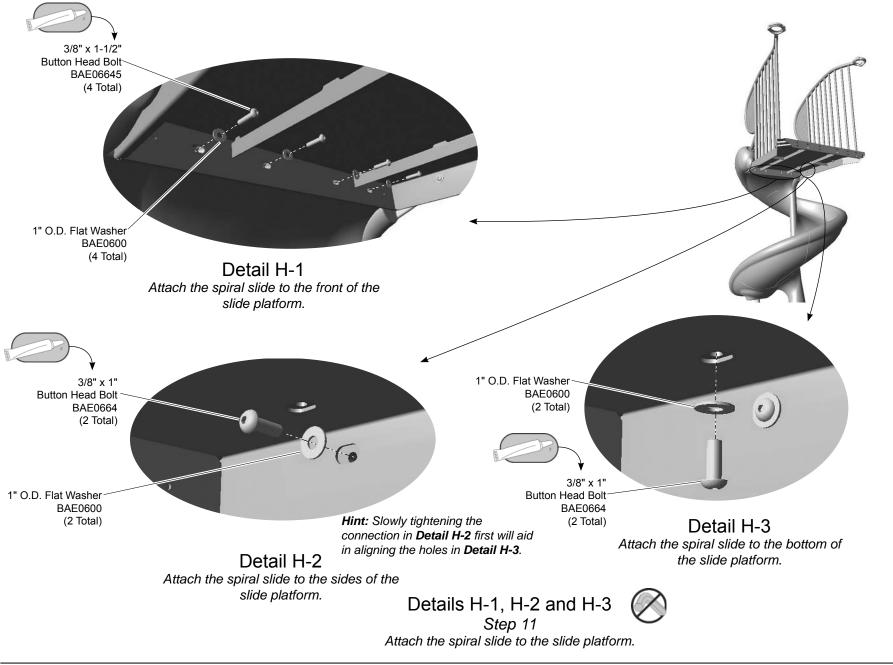


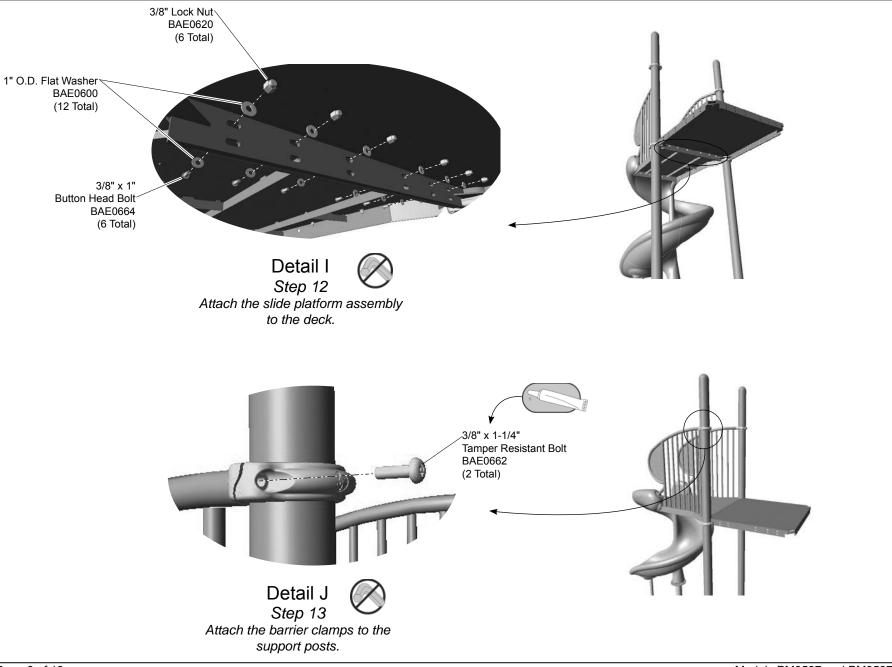


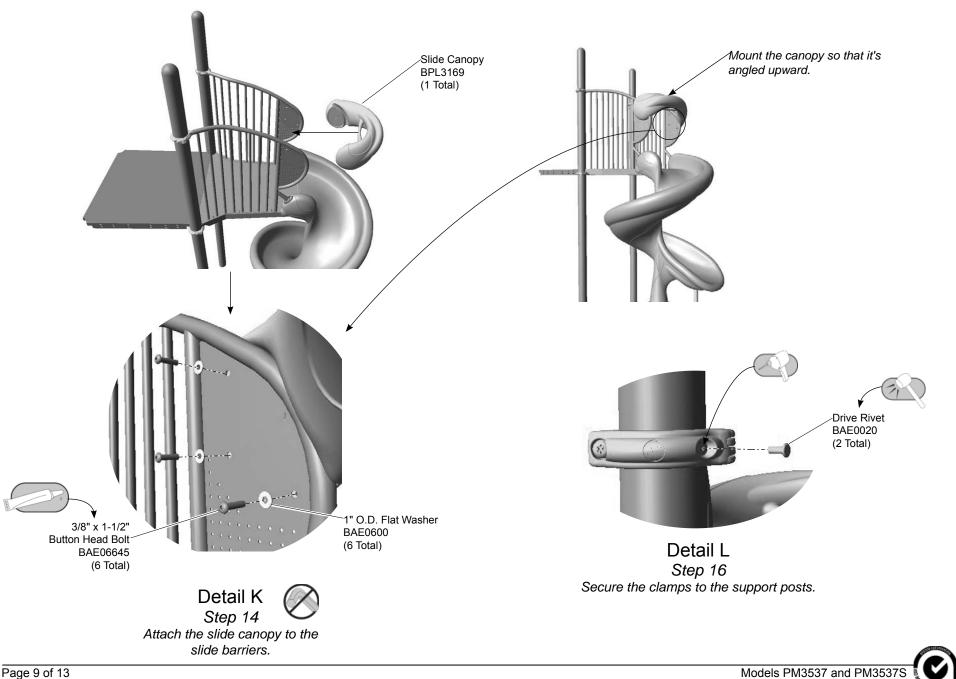








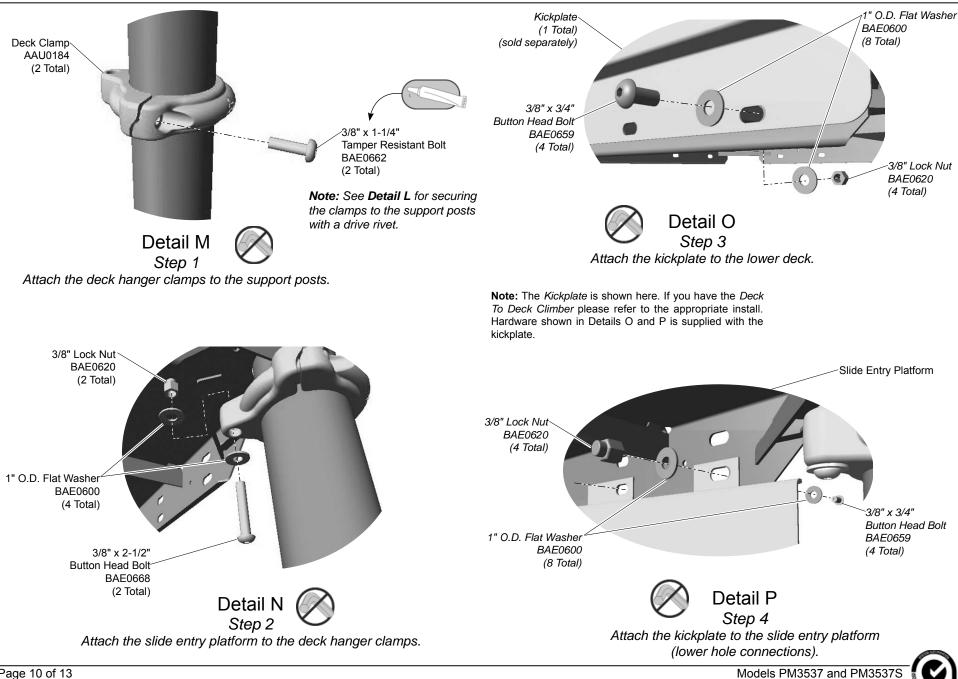




PA1322

ADDITIONAL INSTRUCTIONS

PA1322



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the **Footing Details** show in the *Guidelines* at the beginning of this instruction booklet.

(*In-ground model*): For the slide support post, reference the **Support Post Footing Detail** and for the slide exit leg reference the **Component Footing Detail**.

Step 4: Unbolt the slide from the shipping pallet. See **Detail A**. Remove the slide from the pallet and lay the slide down on the ground.

Step 5: Attach the exit support leg to the bottom of the slide. See **Detail B**. Place the support leg into the indent on the bottom of the slide exit. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the torque specifications (See **Final Details**).

Step 6: Attach the support post to the bottom of the slide center support post (*in-ground model*). See **Detail C-1**. Align the mounting holes in the plate of the support post with the slots in the center support post and attach as shown. Fully tighten the connections according to the torque specifications. For the *surface mount* model a plastic spacer is provided and should be placed under the slide center post with the slots in the spacer over the hardware in the center post. See **Detail C-2**.

Step 7: Attach the slide barriers to the slide platform. See **Detail D**. Position each barrier against the top of the platform and attach as shown. Note the placement of the barriers is to the end of the platform with the cutout corners.

Step 8: Attach the plate covers to the slide barriers. See **Detail E**. Position a plate cover against each short protrusion on the bottom of the front rung on the barriers, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the torque specifications.

Step 9: Attach the centerline clamps to the slide barriers. See **Detail F**. Position a clamp against the top rail on each barrier, *with the hinges facing in*, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Fully tighten the connections according to the torque specifications.

Step 10: Attach the spiral slide to the barriers. See **Detail G**. Position the platform assembly against the top of the spiral slide with the barrier plate covers seated in the recessed sections in the spiral slide. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 11: Attach the spiral slide to the slide platform. See **Details H-1, H-2 and H-3**. Align the holes in the spiral slide with those in the slide platform, apply a drop of thread locking adhesive to the bolt threads, and attach as shown to the front, bottom and sides of the platform.

Attach the slide assembly to the structure deck.

Important note: Due to the weight of the assembly it is recommended that (4) four average sized adults perform **Steps 12 and 13**. *If attaching the assembly to a kickplate and entry support bracket on a lower deck, refer to instructions accompanying those items and the additional Details on pages 10 and 11 of these instructions.*

Step 12: Attach the slide assembly to the deck. See **Detail I**. Position the slide platform against the structure deck, close the clamps on the barriers around the support posts, and attach the platform to the deck as shown.

Step 13: Attach the barrier clamps to the support posts. See **Detail J**. Apply a drop of thread locking adhesive to the bolt threads, and attach the clamps to the support posts as shown.

Step 14: Attach the slide canopy to the slide barriers. See **Detail K**. Position the canopy over the barriers so that it's angled upward, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.



Final Details.

Step 15: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

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

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

Step 16: Install drive rivets. See **Detail L**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head. This step will also apply to the deck hanger clamps used in **Detail M**. **Note:** This step should be executed after structure has been assembled and properly footed.

Step 17: Apply the hood string entanglement warning label to the equipment at eye level.

Additional instructions and details for connection of the slide to a kickplate (sold separately) on a lower structure deck.

Note: The *Kickplate* is shown. If you have the *Deck To Deck Climber* please refer to the appropriate install.

Step 1: Attach the deck hanger clamps to the support posts. See **Detail M**. Position the clamps around the support post at the appropriate height, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Portion of the clamp that will accept the slide platform should be to the inside of the posts.

Step 2: Attach the slide entry platform to the deck hanger clamps. See **Detail N**. Position the cutout corners of the platform on top of the deck hanger clamps and attach as shown. Platform will need to be supported during the following steps.

Step 3: Attach the kickplate to the lower deck. See **Detail O**. Align the kickplate with the holes in the deck and attach as shown.

Step 4: Attach the kickplate to the slide entry platform (*lower hole connections*). See **Detail P**. Align the slide entry platform with the kickplate. Insert each bolt through the lower holes of the slide platform and attach as shown.

Hint: Use an alignment tool to help keep the platform and kickplate aligned until several connections have been made.

Step 5: Continue attaching the slide to the slide platform *(Steps 13 - 14).* Follow remainder of instructions.

PM3537 - NUVO™ 360° SPIRAL SLIDE

PM3537S - NUVO™ 360° SPIRAL SLIDE SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2	AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0764	CASTING - 1.66" O.D. TUBING PLATE COVER	2	AAU0764	CASTING - 1.66" O.D. TUBING PLATE COVER	2
AEN0598	BARRIER - SPIRAL SLIDE - LEFT (PM)	1	AEN0598	BARRIER - SPIRAL SLIDE - LEFT (PM)	1
AEN0599	BARRIER - SPIRAL SLIDE - RIGHT (PM)	1	AEN0599	BARRIER - SPIRAL SLIDE - RIGHT (PM)	1
APT5239	POST - 31.87" EXIT SUPPORT	1	APT5240	POST - 9.87" SURFACE MOUNT EXIT SUPPORT	1
APT5246	POST - 34.38" x 6.81" x 6.81"	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4	BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0600	WASHER - 1" O.D. FLAT	50
BAE0600	WASHER - 1" O.D. FLAT	58	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	18	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	12
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	16	BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2	BFC1391	SHEET - 1.25" O.D. x .50"	2
BFC1391	SHEET - 1.25" O.D. x .50"	2	BFC3545	SHEET - 12.00" DIA x .50"	1
BPL3168	SLIDE - NUVO 360° SPIRAL SLIDE	1	BPL3168	SLIDE - NUVO 360° SPIRAL SLIDE	1
BPL3169	CANOPY - 360° SPIRAL SLIDE	1	BPL3169	CANOPY - 360° SPIRAL SLIDE	1
BPM9942	PLATFORM - NUVO SPIRAL SLIDE - PM	1	BPM9942	PLATFORM - NUVO SPIRAL SLIDE - PM	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

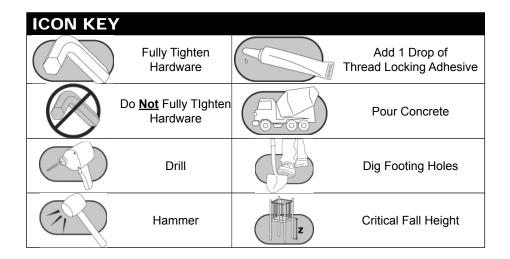


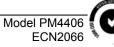


Playmakers[®] Model PM4406 Accessible Driving Panel

Installation Preparation

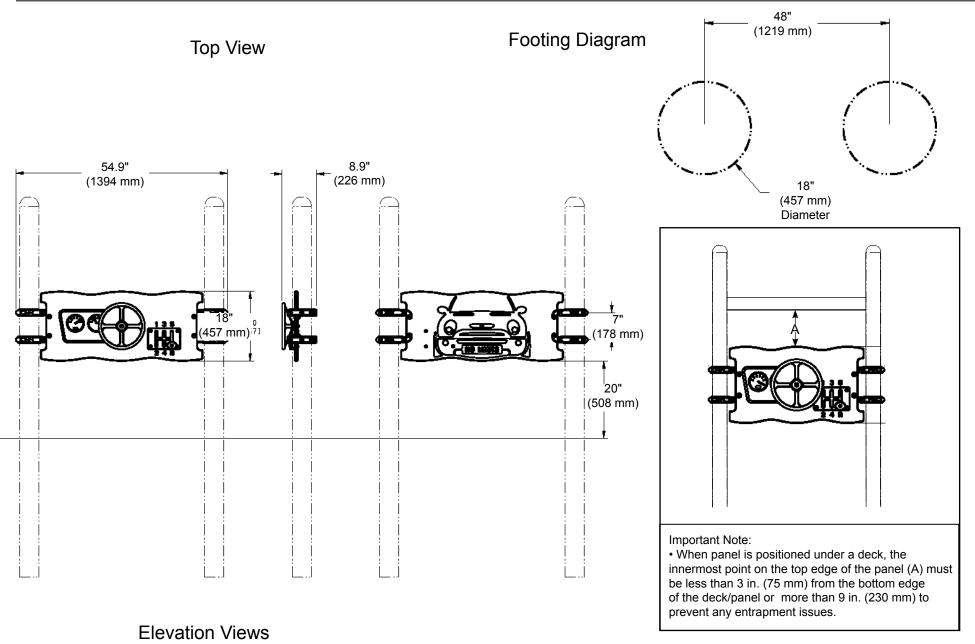
Recommended Crew:	. One (1) adult
Installation Time:	. 0.5 hour
Use Zone:	. Refer to Master Drawing
User Group Age (years):	. ASTM/CSA: 2-12, EN: 2-14







Assembly View





Note:

When panel is used as a guardrail, the maximum deck height above surfacing is:

- 30" (762 mm) for 2 to 5 years old.
- 48" (1219 mm) for 5 to 12 years old.

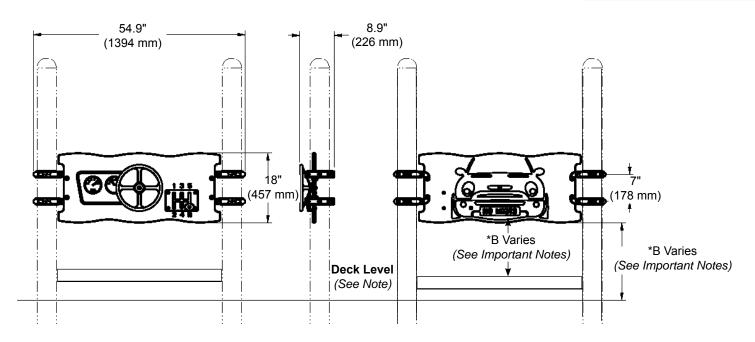
Deck / Platform Installation

*Important Notes:

When panel is used as a guardrail, the minimum height requirements must be maintained to prevent unintentional falls from a platform.

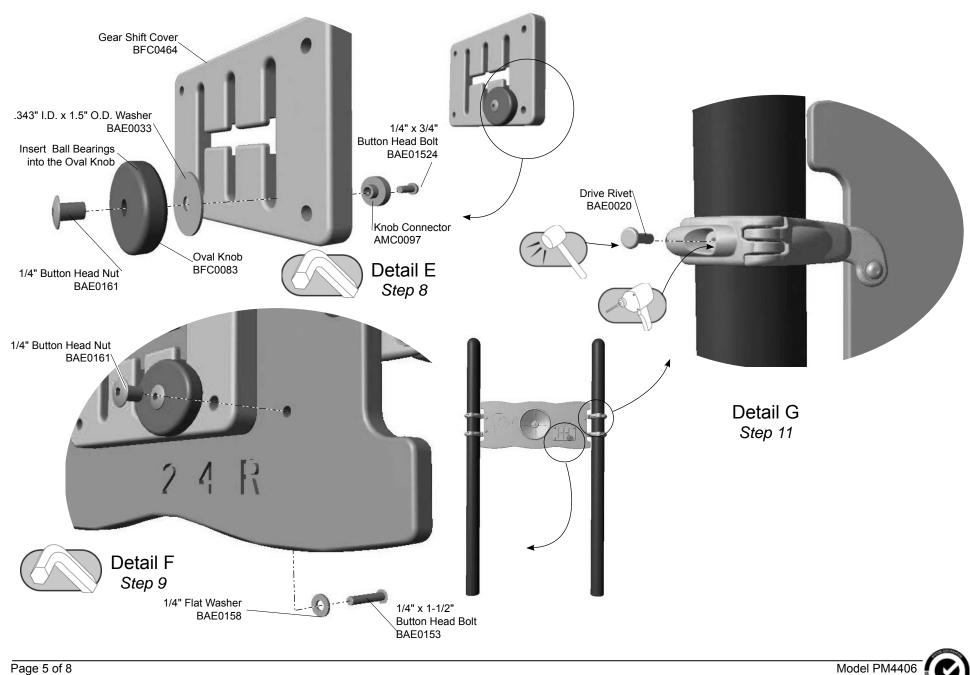
• Ages 2 to 5 years old: The top (A) innermost surface of the guardrail should be at least 29" (737 mm) high and the lower (B) innermost edge should be no more than 23" (584 mm) above the platform.

• Ages 5 to 12 years old: The top (A) innermost surface of the guardrail should be at least 38" (965 mm) high and the lower (B) outermost edge should be no more than 28" (711 mm) above the platform.



Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6. 3/4" Panel Connector Driving Panel AAU0635 BFC0466 3/8" Button Head Nut BAE0663 8 3/8" x 1-1/4" 3/8" x 1" Tamper Resistant Bolt Button Head Bolt BAE0662 BAE0664 Detail C Step 6 3/8" Flat Washer BAE0595 Detail A /3/8" Thin Series Lock Nut BAE0610 Step 4 (1 Total) Steering Wheel ATM0011 2700 3/8" x 1-5/8" Barrel Nut BAE0633 3/4" Panel Connector AAU0635 3/8" x 3/4" Centerline Pipe Clamp **Button Head Bolt** . AAU0620 3/8" x 1-3/4" BAE0659 3/8" Flat Washer **Button Head Bolt** Detail D BAE0595 BAE0665 Detail B 3/8" Flat Washer BAE0595 Step 7 Step 5 Model PM4406

ECN2066



ECN2066

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 panel by referring to the master structure layout drawing. Decide the orientation of the panel - an automobile is routed on one side and a dashboard on the other.

Attach the panel connectors to the panel.

Step 4: Attach the panel connectors to the panel. See **Detail A**. Select the accessible driving panel, the panel connectors, and the appropriate hardware. There are (4) four connections. Each panel connector looks like an 'L'. Position each panel connector so that the short leg points down on the upper connections and up on the lower connections. The long leg should point out away from the panel. The panel connectors must all attach to the same side of the panel (this side will face in). Align the connectors with the holes and attach as shown. Leave the connections loose.

Step 5: Attach the clamps to the panel connectors. See **Detail B**. Select the clamps and the appropriate hardware. There are (4) four connections. Place the flat side of each clamp against the outside of the panel connector. Apply a drop of loctite to the bolt threads and attach as shown. Leave the connections loose for alignment adjustment.

Attach the panel to the support posts.

Step 6: Attach the panel to support posts. See **Detail C** and **Elevation View**. Select the clamps and the appropriate hardware. There are (4) four connections. Move the panel into position on the outside of the posts and close the clamps. 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 clamps before flipping connector and reattach as before on the panel side. Both of the clamps should be mounted at the same height.

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

Attach the steering wheel to the panel.

Step 7: Attach the steering wheel to the panel. See **Detail D**. Select the steering wheel and the appropriate hardware. There is (1) one connection. Attach as shown. Fully tighten the connection. The steering wheel should still turn freely.

Attach the gear shift to the panel.

Step 8: Assemble the gear shift. See **Detail E**. Select the gear shift cover plate, oval knob, knob connector, a bag of ball bearings, and the appropriate hardware. There is (1) one connection. Insert 4 or 5 ball bearings into the cut out side of the oval knob. Cover with the washer to hold the ball bearings in place. Attach as shown. Fully tighten the connection; being careful not to exceed the torque recommendations. Move the knob through the gear shift cover plate to ensure freedom of movement.

Step 9: Attach the gear shift to the panel. See **Detail F**. Select the gear shift assembly and the appropriate hardware. There are (4) four connections. With the knob side facing out, position the gear shift assembly between the numbers on the "dashboard" side of the panel and align holes. Attach as shown. Fully tighten the connections. The gear shift should still move smoothly on the plate.



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

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

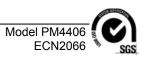
Step 12: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.



PM4406 - ACCESSIBLE DRIVING PANEL

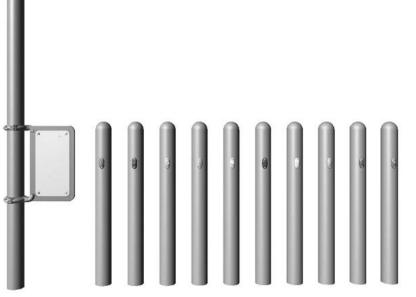
PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AAU0635	CONNECT - 3/4" PANEL	4
AMC0032	MISC - BAG OF 15, 1/4" S.S. BALL BEARINGS	1
AMC0097	CONNECTOR - 1 DIA x .57 w/HOLE	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0033	WASHER343" I.D. x 1.500" O.D.	1
BAE01524	BOLT - 1/4"-20 x 3/4" BUTTON HEAD - SS	1
BAE0153	BOLT - 1/4" x 1 1/2" BUTTON HEAD	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	5
BAE0595	WASHER - 3/8" SAE FLAT	10
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	1
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	4
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	1
BFC0083	SHEET - OVAL KNOB	1
BFC0464	SHEET75" x 5.50" x 8.50" COVER	1
BFC0466	SHEET75" x 42.00" x 18.00" ACCESS DRIVING PANEL	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1







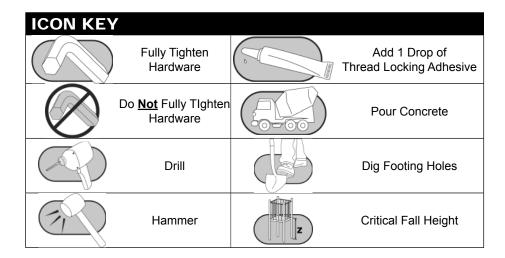
Playmakers[®] Model PM4648 Post Mount Scavenger Hunt

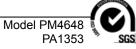


Assembly View

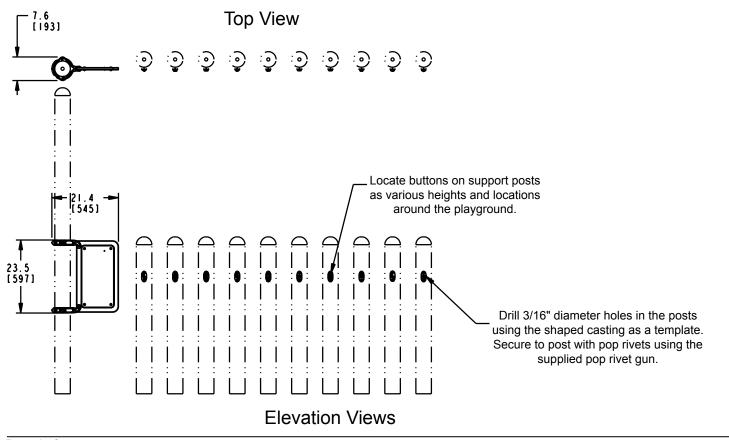
Installation Preparation

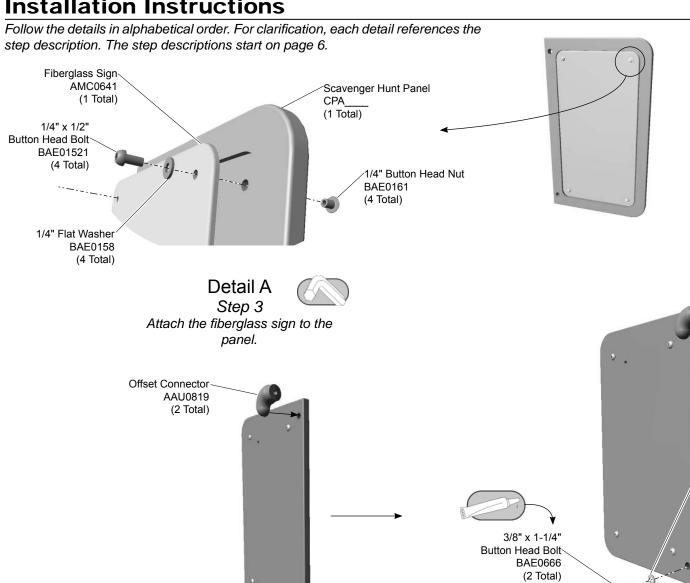
Recommended Crew:	. Two (2) adults
Installation Time:	. 2 man-hours
Use Zone:	. Refer to Master Drawing
User Group Age (years):	. ASTM/CSA: 2-12. EN: 2-14



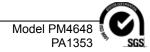


KEY			
Position	Unit of Measurement		
Top #	Inches		
Bottom #	[Millimeters]		

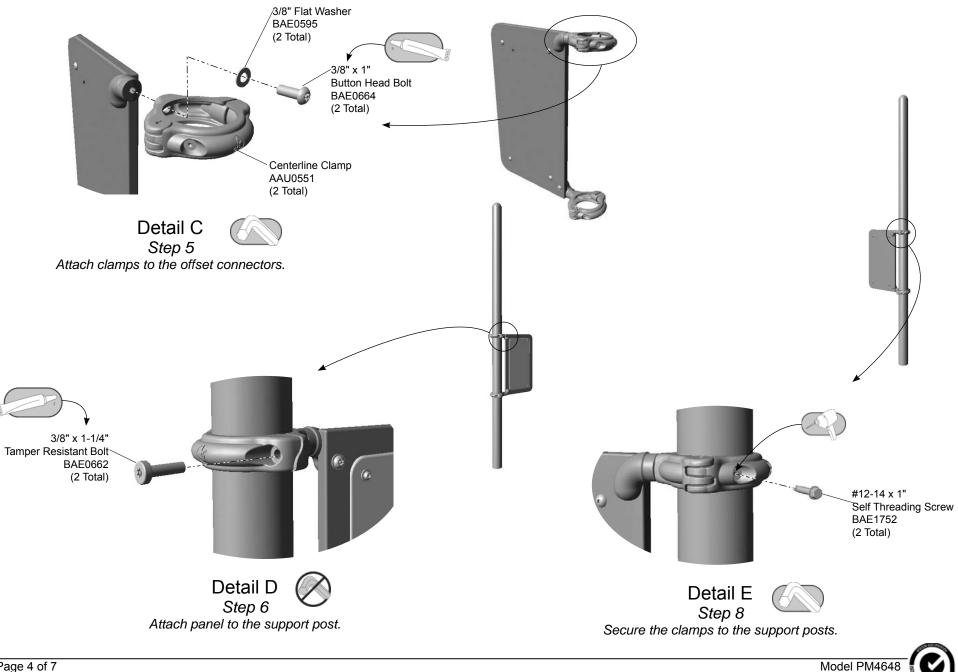




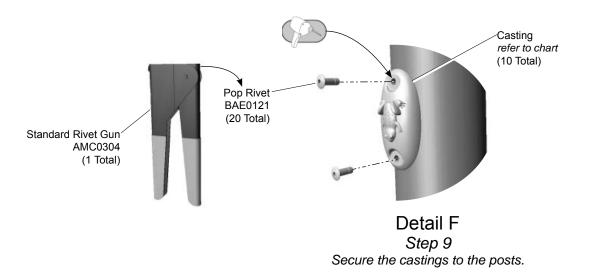
Detail B Step 4 Attach the offset connectors to the panel.



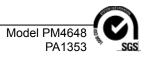
/3/8" Flat Washer BAE0595 (2 Total)



PA1353



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



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

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

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

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

Final Details.

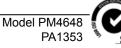
Step 7: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Step 8: Secure the clamps to the support posts. See **Detail E**. After the equipment assembly is complete, install a self threading screw in each clamp to permanently secure it to the support post. Using a 3/16" drill bit, drill through the clamp and support post. Thread each screw through the clamp and into the support post. Fully tighten all fasteners according to tightening torque specifications. **Note:** This step should be executed after structure has been assembled and properly footed.

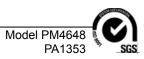
Step 9: Secure the castings to the posts. See **Detail F**. Locate the castings on posts as various heights and locations around the playground. Drill 3/16" diameter holes in the posts using the shaped casting as a template. Secure to post with pop rivets using the supplied pop rivet gun.



PM4648 - POST MOUNT SCAVENGER HUNT

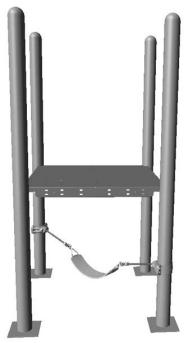
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU0641	CASTING - BUTTERFLY	1
AAU0642	CASTING - FLOWER	1
AAU0643	CASTING - FROG	1
AAU0644	CASTING - PICKLE	1
AAU0645	CASTING - STAR	1
AAU0646	CASTING - CARROT	1
AAU0647	CASTING - APPLE	1
AAU0648	CASTING - CLOCK	1
AAU0649	CASTING - FISH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







The world needs play."



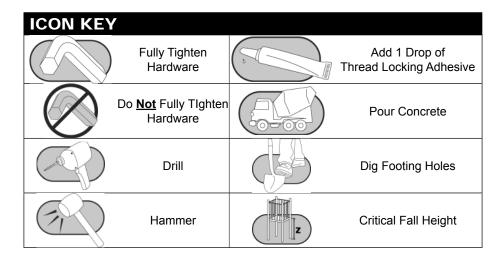
Assembly View

Installation Instructions

Playmakers® Model PM4896 Sling Seat

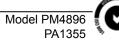
Installation Preparation

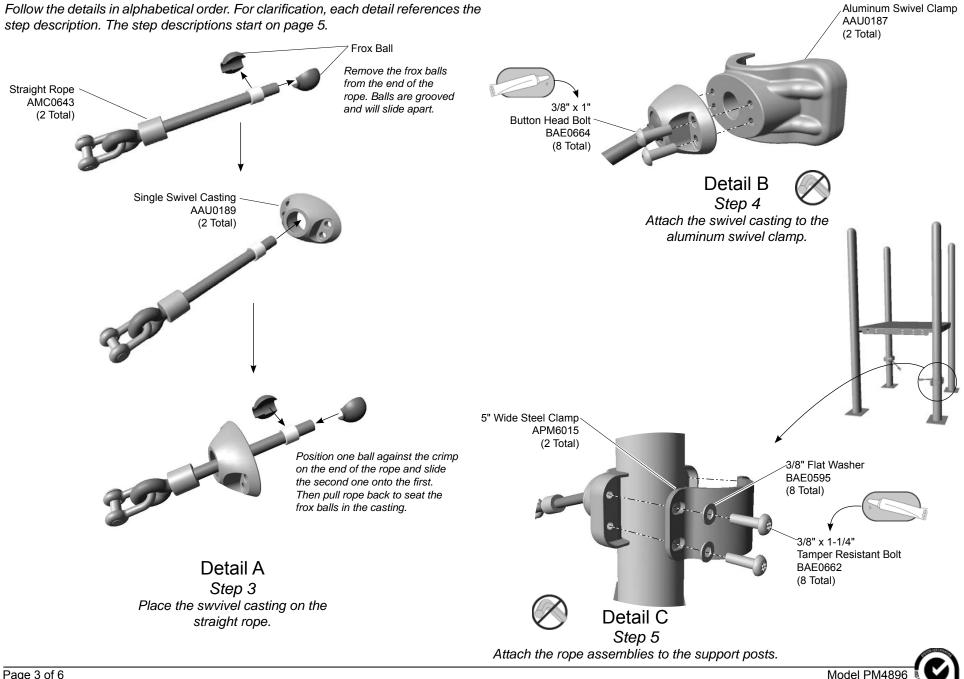
Recommended Crew:	. One (1) adult
Installation Time:	. 0.5 hour
Use Zone:	. Refer to Master Drawing
User Group Age (years):	. ASTM/CSA: 2-12, EN: 2-14



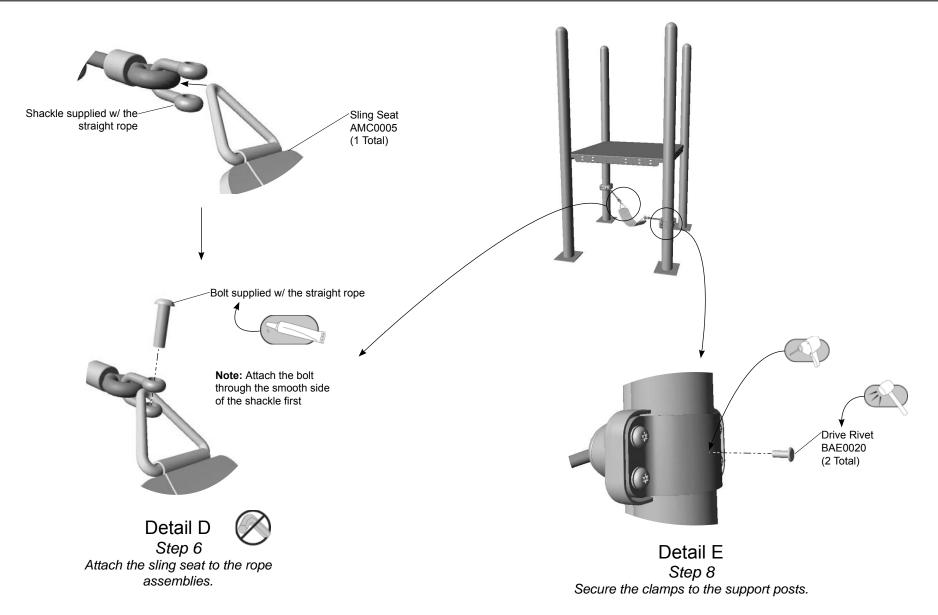


KEY Position	Unit of Measurement				
Top #	Inches				
Bottom #	[Millimeters]				
Bottom #			48.0 MIN 48.0 MIN [1219] 19.5 [496]	10" (254 mm)	Footing Diagram
	Eleva	tion Views			





PA1355



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

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

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

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

Final Details.

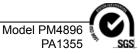
Step 7: Plumb and level the seat on the support posts. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

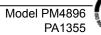
Note: This step should be executed after structure has been assembled and properly footed.



PM4896 - SLING SEAT

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







Universal Models UN4279, UN4280, UN4438, & UN4439 Telescope Pipe Wall Mount (CH/EX) or (PM) & Telescope Pipe Wall Mount w/ Lens (CH/EX) or (PM)

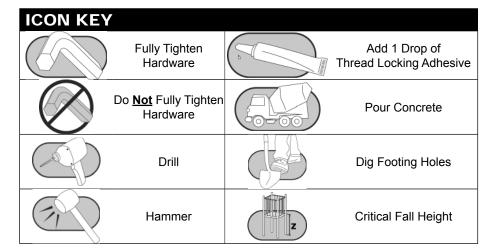
Installation Preparation

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



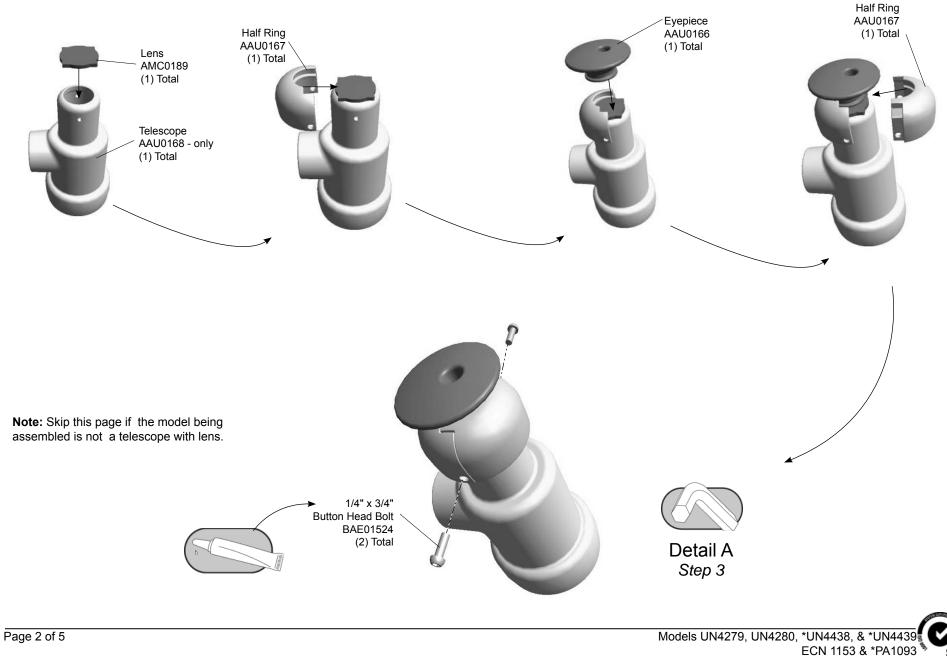
Assembly View (representative model)

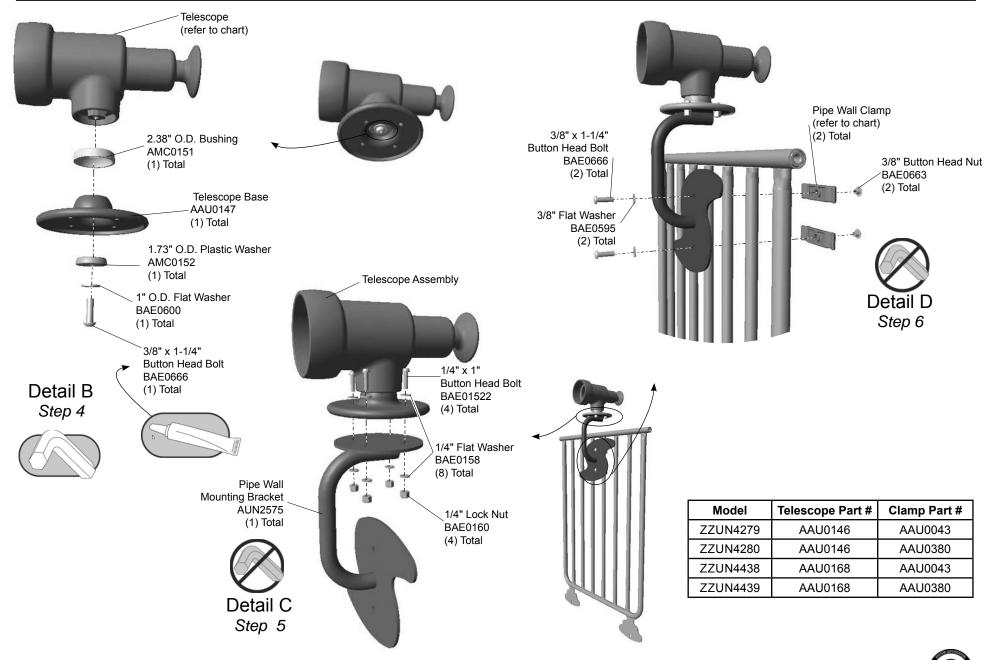
Model	Description
ZZUN4279	Pipe Wall Mount (CH/EX)
ZZUN4280	Pipe Wall Mount for (PM)
ZZUN4438	Pipe Wall Mount w/Lens (CH/EX)
ZZUN4439	Pipe Wall Mount w/Lens (PM)





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





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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Assemble the telescope.

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

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

Attach the telescope to the base.

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

Attach the telescope to the mounting bracket. Step 5: See Detail C. Attach as shown.

Attach the bracket to the pipe wall barrier.

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

Final Details.

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

Torque Specifications:

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

Bill of Materials

UN4279 - TELESCOPE PIPE WALL MOUNT (CH/EX)

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

UN4280 - TELESCOPE PIPE WALL MOUNT (PM)

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



UN4438 - TELESCOPE PIPE WALL MOUNT (CH/EX)

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

UN4439 - TELESCOPE PIPE WALL MOUNT (PM)

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



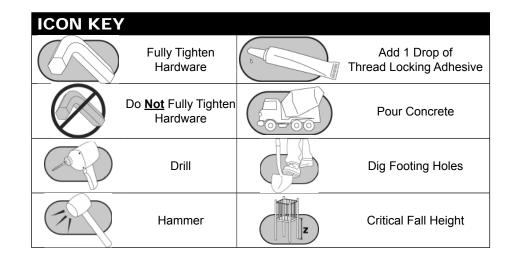


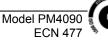


Playmakers[®] Model PM4090 Centerline Pipe Wall Barrier

Installation Preparation

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

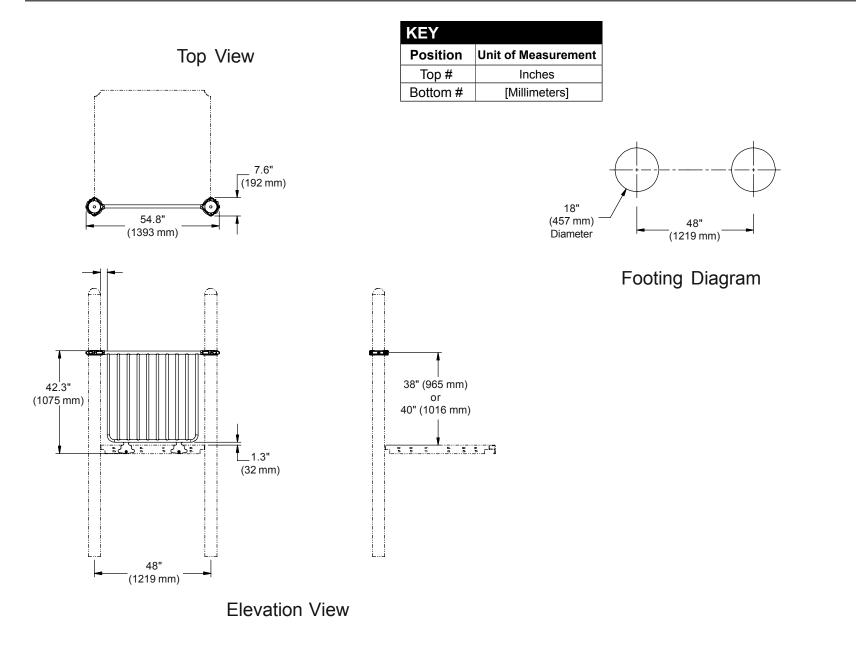




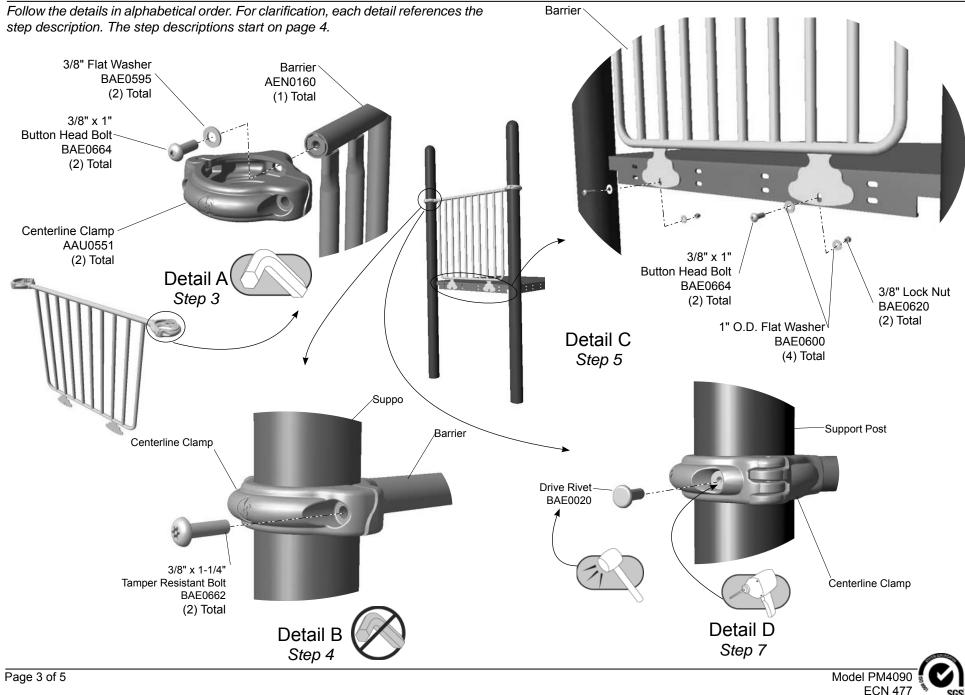
SGS



Assembly View







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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the clamps to the barrier.

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

Attach the clamps to the support posts.

Step 4: See **Detail B**. Lift the barrier into position against the deck. Close the clamps around the support posts. Align the barrier plates with the deck. Attach as shown. Snug tighten connection only. The location of the clamp may need to be changed to align deck connection holes or resolve clamp position conflicts. **Note:** To avoid clamp interference, the deck has been provided with an upper and lower set of holes. Choose the either set of holes that works best with your clamp placement condition.

Attach the bottom of the barrier to the deck.

Step 5: See Detail C. Attach as shown.

Final Details.

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

Torque Specifications:

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

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

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

PM4090 - CENTERLINE PIPE WALL BARRIER

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





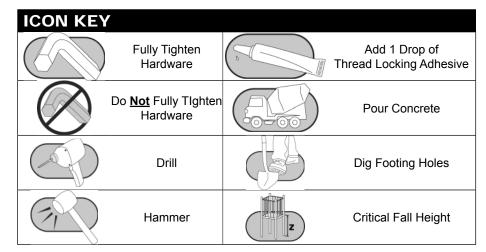
Page 5 of 5



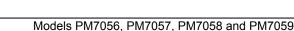
Playmakers[®] Models PM7056, PM7057, PM7058 and PM7059 Nuvo[™] Curvy Climber 36 in. (914 mm), 48 in. (1219 mm), 60 in. (1524 mm) and 72 in. (1829 mm) Decks

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Concrete Required:	0.06 cubic yard (0,04 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 5-12, EN: 6-14

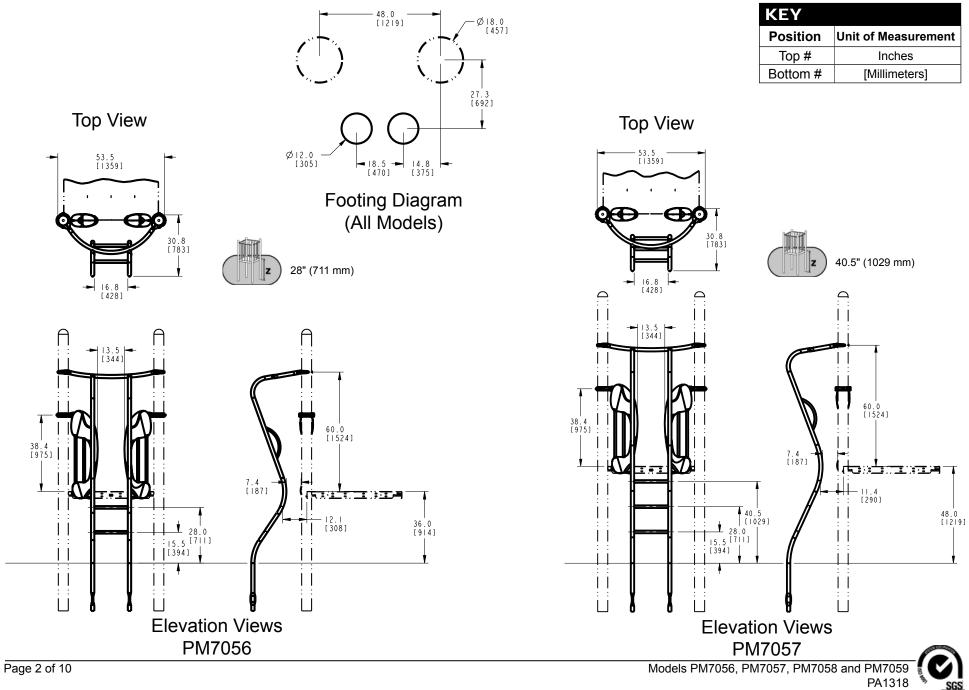






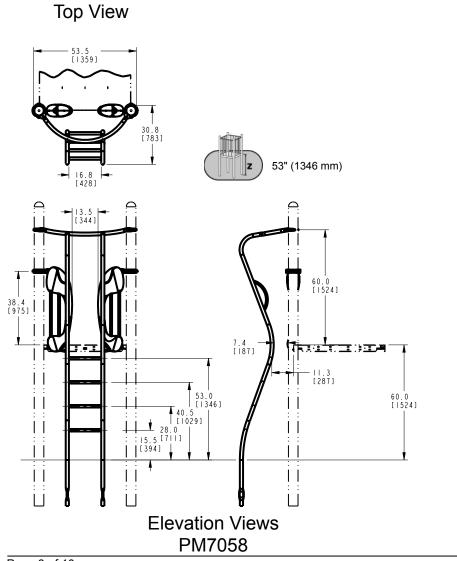


Assembly View (representative model)

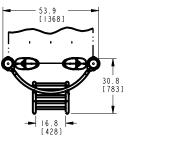


PA1318

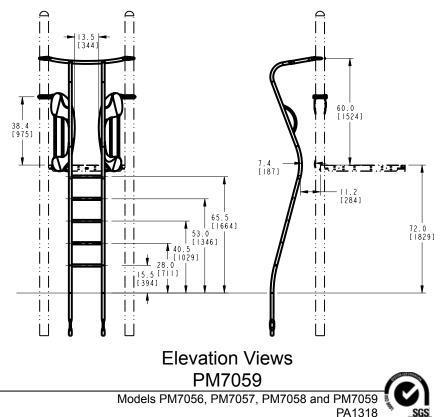
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]

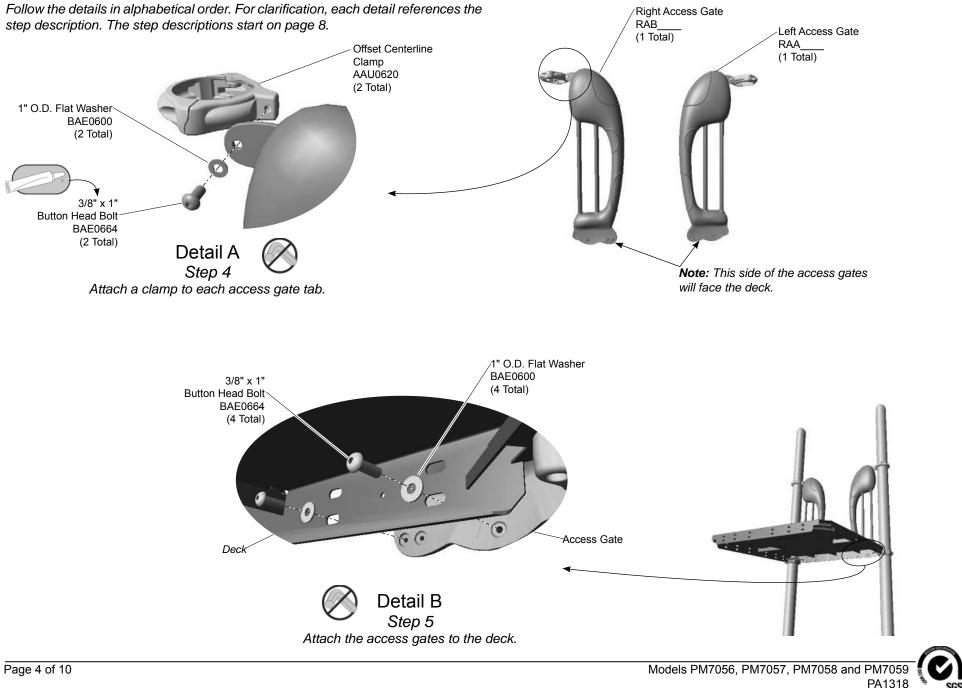


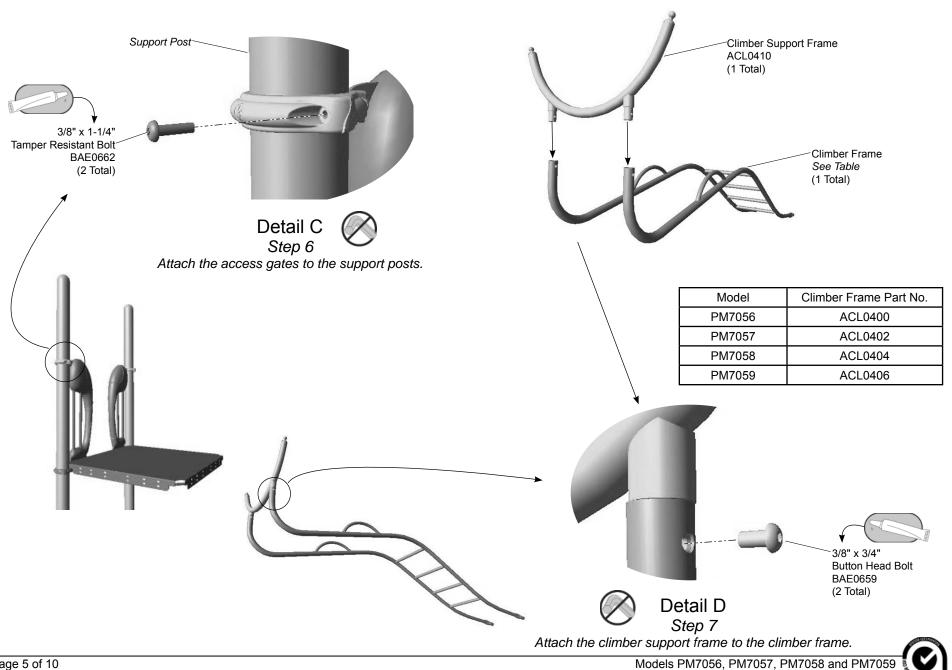
Top View





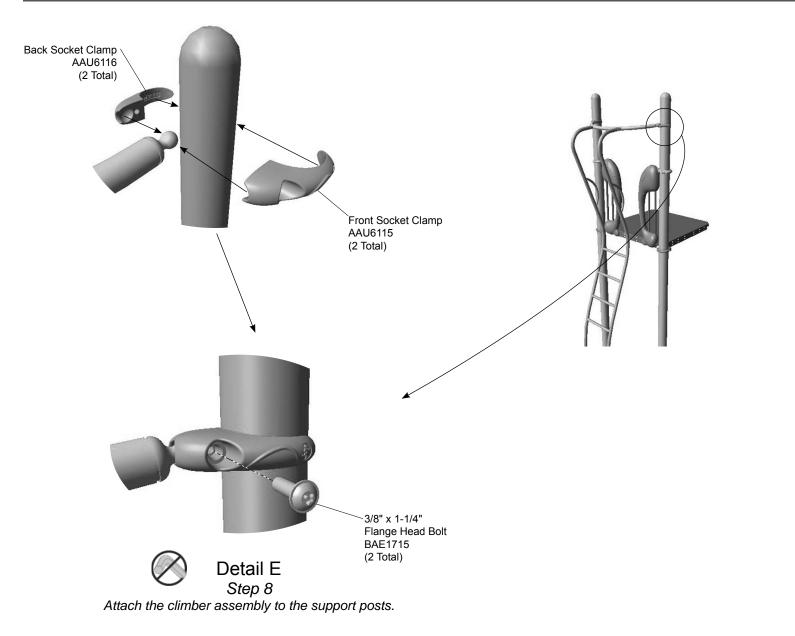




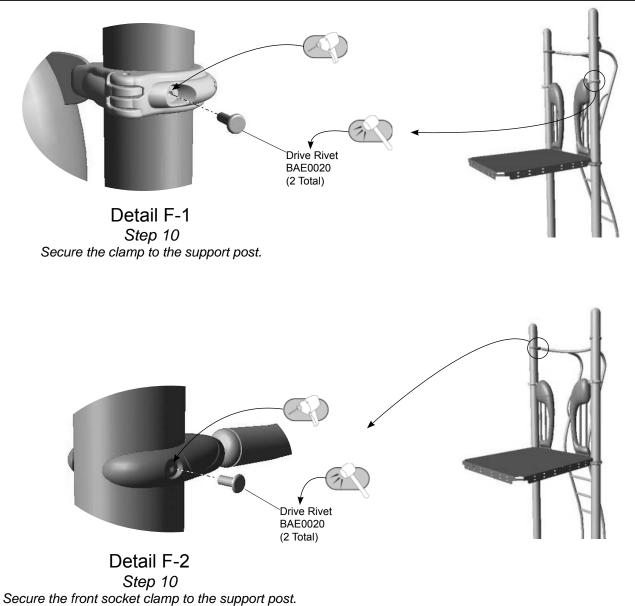


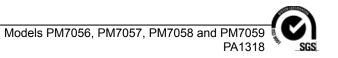
PA1318











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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Detail** in the *Guidelines* at the beginning of this instruction booklet.

Step 4: Attach a clamp to each access gate tab. See **Detail A**. Position the flat side of each clamp against a gate tab, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Note the side of the gate that faces the deck.

Step 5: Attach the access gates to the deck. See **Detail B**. Position the access gates against the deck with the clamps closed around the support posts, and attach as shown. Gates may be attached to the upper holes or the lower holes in the deck.

Step 6: Attach the access gates to the support posts. See **Detail C**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

SStep 7: Attach the climber support frame to the climber frame. See **Detail D**. Slide the support frame into the top of the climber frame, align the holes, apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 8: Attach the climber assembly to the support posts. See **Detail E**. Place the climber assembly in it's footing and position each socket clamp against a support post and over the ball on the end of the climber support frame and attach as shown.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

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

Step 10: Install drive rivets. See **Details F-1 and F-2**. After the equipment assembly is complete, install a drive rivet in the centerline clamp, the front socket clamp, and in each handle to permanently secure them to the support posts. Using a 1/4" drill bit, drill through each clamp, each handle at the bottom, and the support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp or handle. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

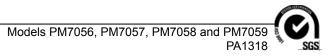
Note: This step should be executed after structure has been assembled and properly footed.



PM7056 - NUVO[™] CURVY CLIMBER 36 in. (914 mm) DECK

PM7057 - NUVO[™] CURVY CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2	AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2	AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2	AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0400	CLIMBER - 36" CURVY	1	ACL0402	CLIMBER - 48" CURVY	1
ACL0410	CLIMBER - 1.66" O.D. PM ARCH w/2 CONNECTORS	1	ACL0410	CLIMBER - 1.66" O.D. PM ARCH w/2 CONNECTORS	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4	BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	6	BAE0600	WASHER - 1" O.D. FLAT	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2	BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
RAA	GATE - ACCESS LEFT	1	RAA	GATE - ACCESS LEFT	1
RAB	GATE - ACCESS RIGHT	1	RAB	GATE - ACCESS RIGHT	1



PM7059 - NUVO[™] CURVY CLIMBER 72 in. (1829 mm) DECK

PM7058 - NUVO[™] CURVY CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2	AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2	AAU6115	CLAMP - 5.00" DIA FRONT SOCKET	2
AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2	AAU6116	CLAMP - 5.00" DIA BACK SOCKET	2
ACL0404	CLIMBER - 60" CURVY	1	ACL0406	CLIMBER - 72" CURVY	1
ACL0410	CLIMBER - 1.66" O.D. PM ARCH w/2 CONNECTORS	1	ACL0410	CLIMBER - 1.66" O.D. PM ARCH w/2 CONNECTORS	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4	BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	6	BAE0600	WASHER - 1" O.D. FLAT	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2	BAE1715	BOLT - 3/8"-16 x 1-1/4" FLANGE HEAD w/LONG PATCH	2
RAA	GATE - ACCESS LEFT	1	RAA	GATE - ACCESS LEFT	1
RAB	GATE - ACCESS RIGHT	1	RAB	GATE - ACCESS RIGHT	1







SUPERVISION INSTRUCTIONS PLAYWORLD SYSTEMS® OVERHEAD COMPONENTS (SEE COMPONENT LISTING BELOW)



Attention: Owner

The Overhead Components are designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Overhead Component can result in serious accidents. The following rules for the use of the component must be applied to reduce the possibility of debilitating injuries:

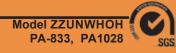
- Properly trained adult supervision is required at all times. The components are designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of the users.
- · Do not crawl on, sit on, stand on or jump off the top of the assembly.
- Users must move in same direction across the length of the top of the component assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.
- Avoid speed contests or trying to cover too large a distance in one move.

- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Overhead Component in accordance with ASTM specification F1292 appropriate for the fall height of the Overhead Component .
- Review and familiarize warning document supplied with each Overhead Component shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it. Playworld Systems accepts <u>NO</u> responsibility for improper use.

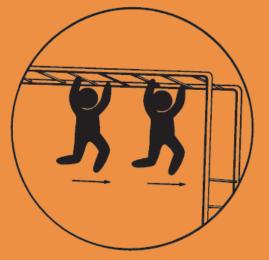
Overhead Components include:

- Horizontal Ladders
- Horizontal Hand Over Hand Ladders
- Horizontal Loop Rung Ladders
- Under Catwalk Hand Over Hand
- Under Catwalk Loop Rung Ladder
- Sky Link
- Sky Arch



SUPERVISION INSTRUCTIONS





Movement Must Be In Same Direction With Adequate Distance Between Users

Do Not Begin Movement From Opposite Directions

Do Not Use When Hand Rungs Are Wet



Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

Overhead Component shown is for example only. May not be the component ordered.





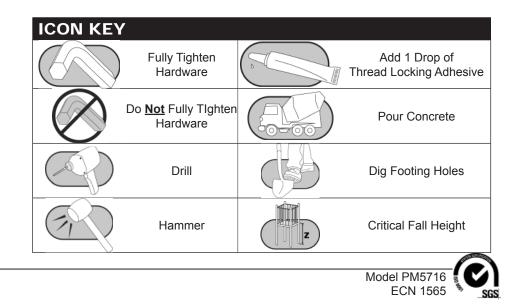


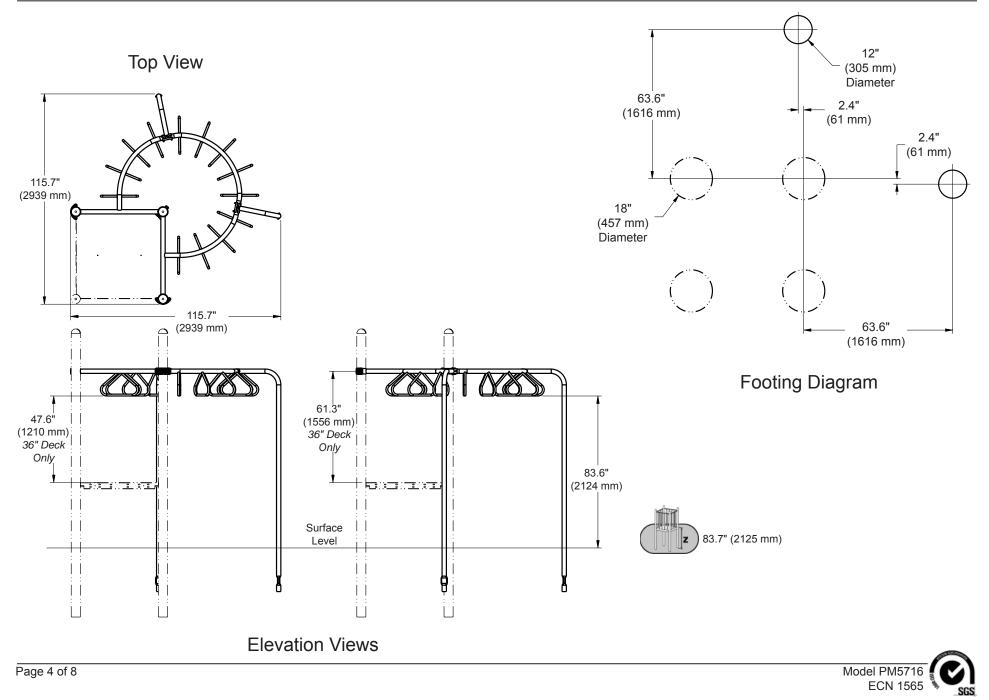
Assembly View (representative model)

Playmakers[®] Model PM5716 270° Horizontal Loop Ladder

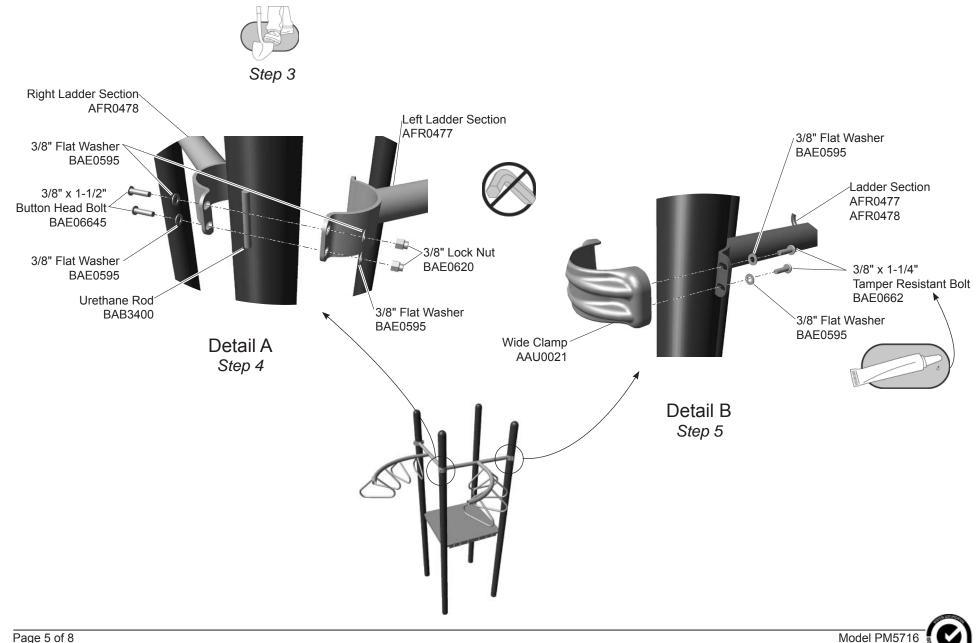
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Concrete Required:	0.6 cubic yard (0,4 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 5-12, EN: 6-14



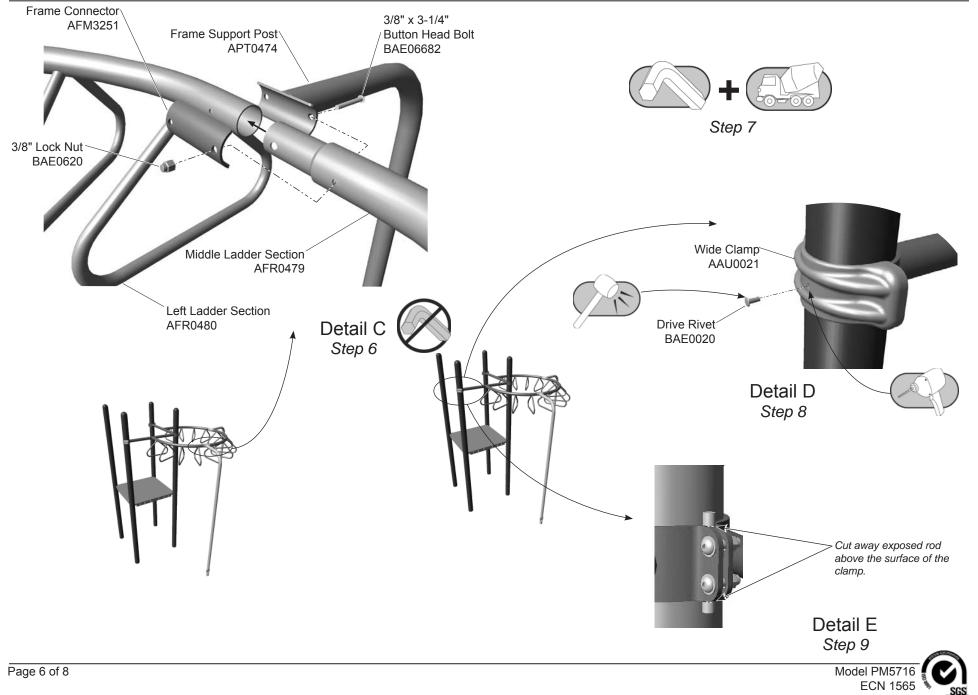


Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



ECN 1565

SGS



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of the instruction booklet. Refer to the master layout drawing for placement of the ladders.

Step 4: Attach the ladders to the *inside* support post. See **Detail A** and the **Elevation View**. Select both ladder sections, (2) two urethane rods, and the appropriate hardware. There are (4) four connections. Orientation for placement of the ladder sections is looking out from the deck. Position each ladder between the appropriate deck support posts and attach to the *inside* post as shown. The rods fit against the post and between the clamps. The assembly will need to be supported until fully attached. Leave <u>all</u> post connections <u>loose</u> until the 3 ladder sections are joined.

Step 5: Attach the ladder sections to the *outside* support posts. See **Detail B** and the **Elevation View**. Select (2) two wide clamps and the appropriate hardware. There are (8) eight connections. Position a clamp against the outside clamp band on each ladder section, apply a drop of loctite to the bolt threads, and attach as shown. Position the ladder sections on the support posts at the height indicated on the **Elevation View** and brace.

Step 6: Finish assembling the ladder. See **Detail C**. Select the middle ladder section, (2) two frame posts, (2) two frame connectors, and the appropriate hardware. There are (4) four connections. Insert the ends of the middle ladder into the ends of the other ladders. Set each frame post into a footing with the top end around the ladder joint as shown. Place a connector on the inside of each junction and attach as shown.

Final Details.

Step 7: Plumb and level entire component. The ladder rungs may not be more than 84" above the protective surfacing. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

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

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

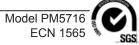
Step 9: Trim the excess urethane rods protruding beyond the edge of the clamps. See **Detail E.**



ZZPM5716 - 270° HORIZONTAL LOOP LADDER

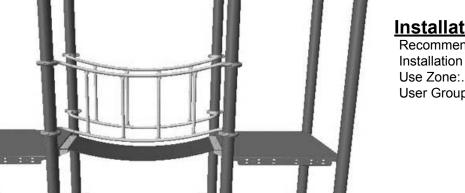
PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AFM3251	FAB METAL - 5.50" x .96" x 2.57"	2
AFR0477	LADDER - 53-3/32" x 50-15/32" x 15-1/8" LEFT	1
AFR0478	LADDER - 53-3/32" x 50-15/32" x 15-1/8" RIGHT	1
AFR0479	LADDER - 59-1/32" x 46-3/16" x 14-13/16"	1
APT0474	FRAME - 23-7/8" x 5-1/2" x 122-17/32"	2
BAB3400	MISC - URETHANE ROD	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE06682	BOLT - 3/8"-16 x 3-1/4" BUTTON HEAD - SS	4







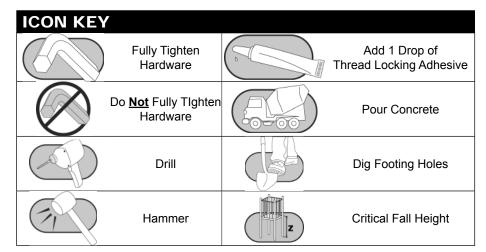
Playmakers[®] Models PM8480 and PM8486 6 ft. (1829 mm) and 10 ft. (3048 mm) Ripple Bridge



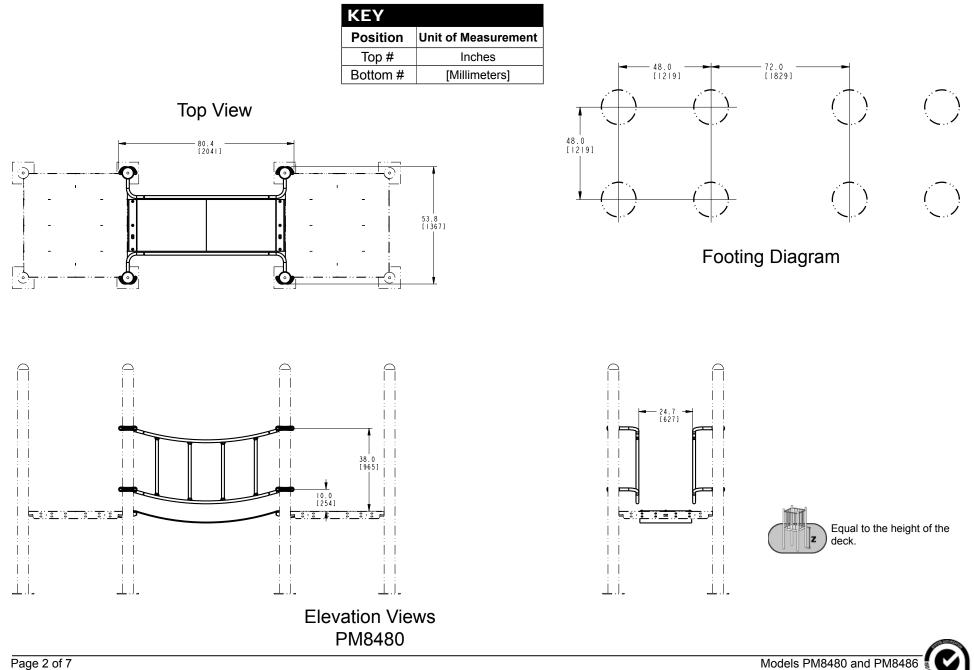
Assembly View (representative model)

Installation Preparation

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

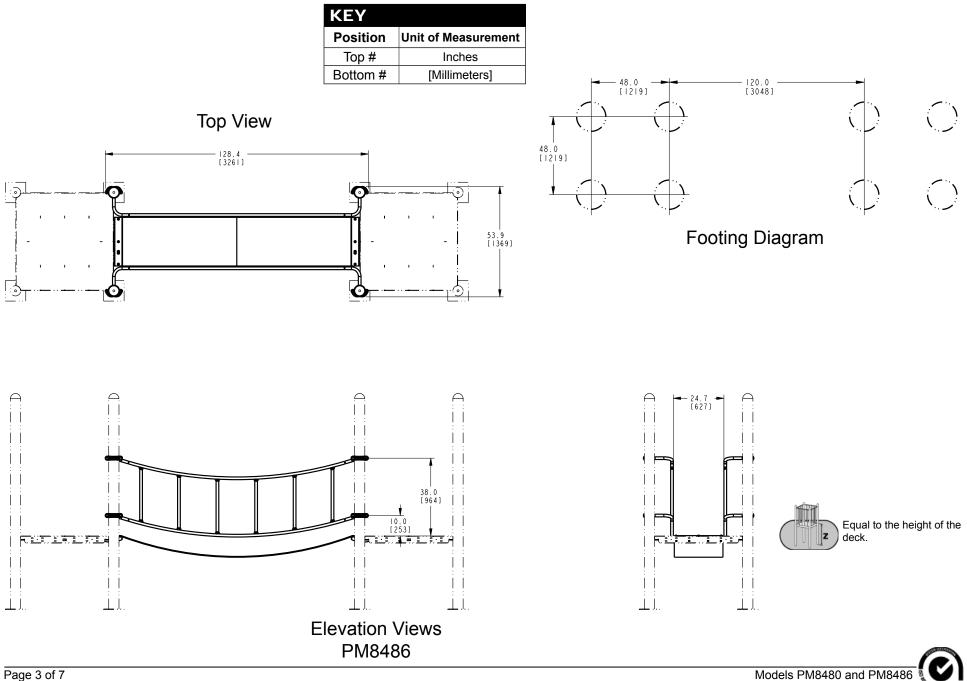






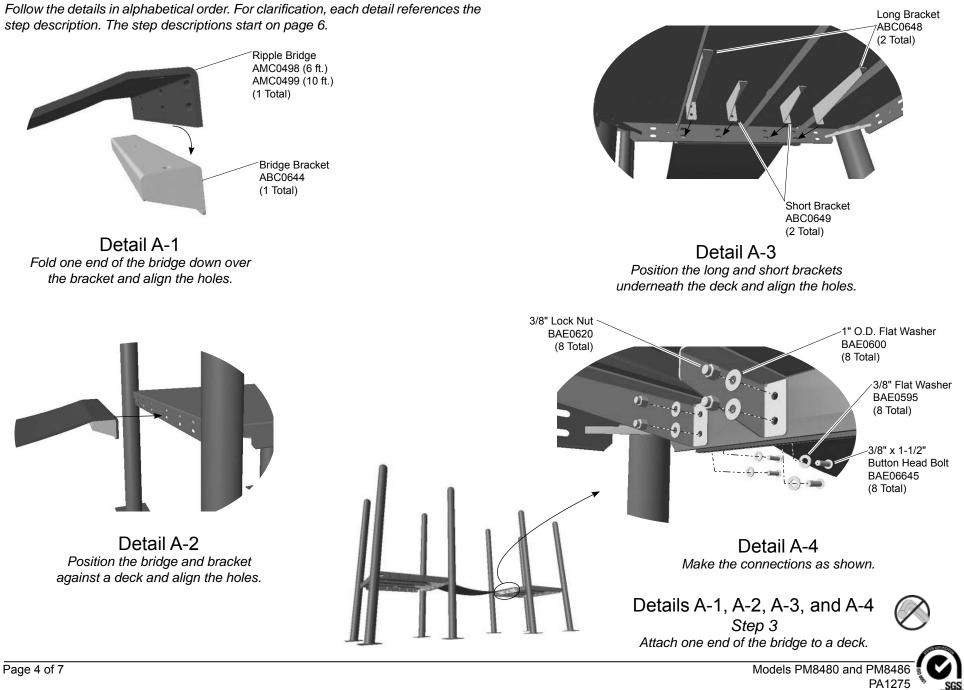
PA1275

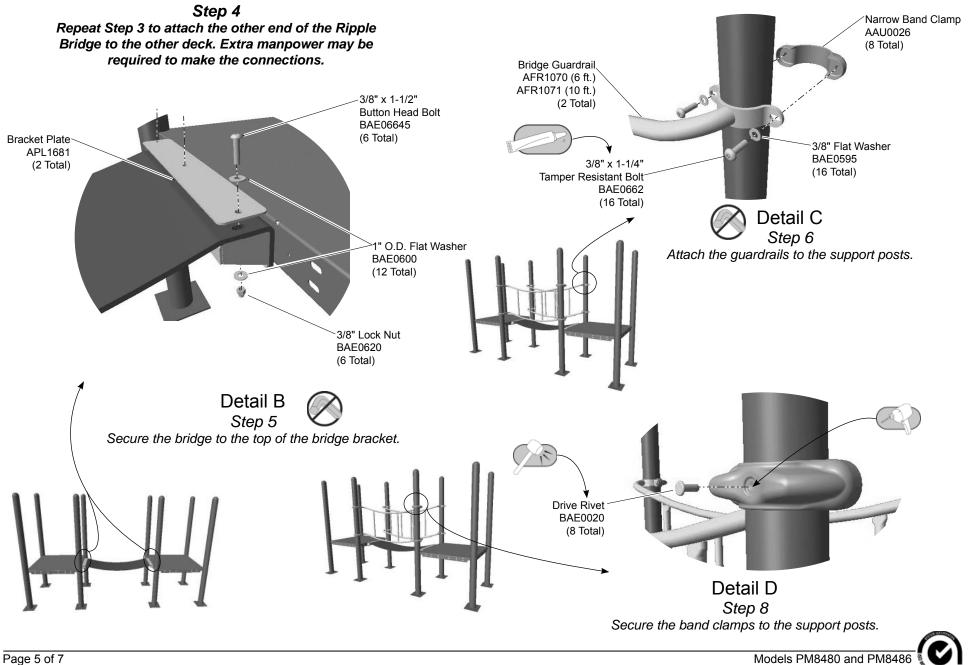
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PA1275

SGS





PA1275

SGS

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach one end of the bridge to a deck. See **Details A-1 thru A-4**. Fold one end of the bridge down over a bracket, position against a deck with the long and short brackets placed underneath the deck, align the holes, and attach as shown.

Step 4: Repeat the procedure in **Step 3** to attach the other end of the bridge to the other deck. Additional manpower may be needed to stretch the bridge out to make those connections.

Step 5: Secure the bridge to the top of the bridge bracket. See **Detail B**. Place the bridge plates on top of each end of the bridge, align the holes in the plate with the holes in the bridge, and attach as shown.

Step 6: Attach the guardrails to the support posts. **See Detail C**. Position each guardrail to the inside of the support posts at the height indicated on the **Elevation View**. Place the band clamps around the support posts and against the bands on the guardrail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

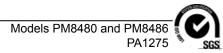
Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

Step 8: Install drive rivets. **See Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head. **Note:** This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.



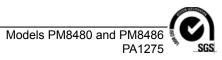
PM8480 - 6 ft. (1829 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1070	GUARDRAIL - 6' MAT BRIDGE (PM)	2
AMC0498	6' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8486 - 10 ft. (3048 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1071	GUARDRAIL - 10' MAT BRIDGE (PM)	2
AMC0499	10' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1







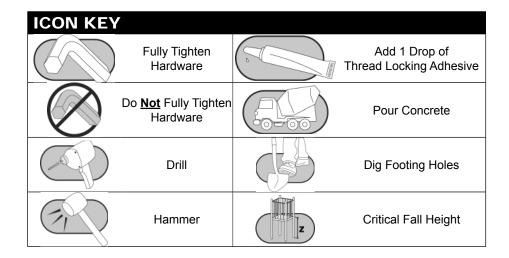
Playmakers[®] Model PM9846 Cabana Roof

Installation Preparation

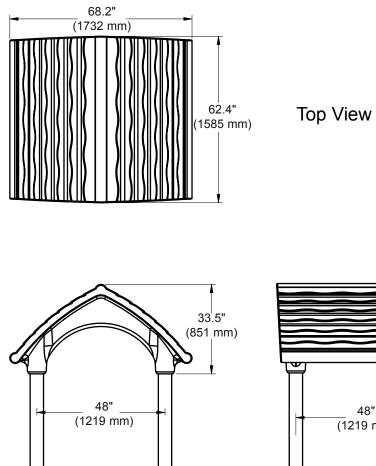
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour

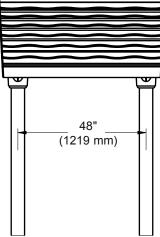


Assembly View

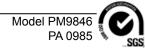




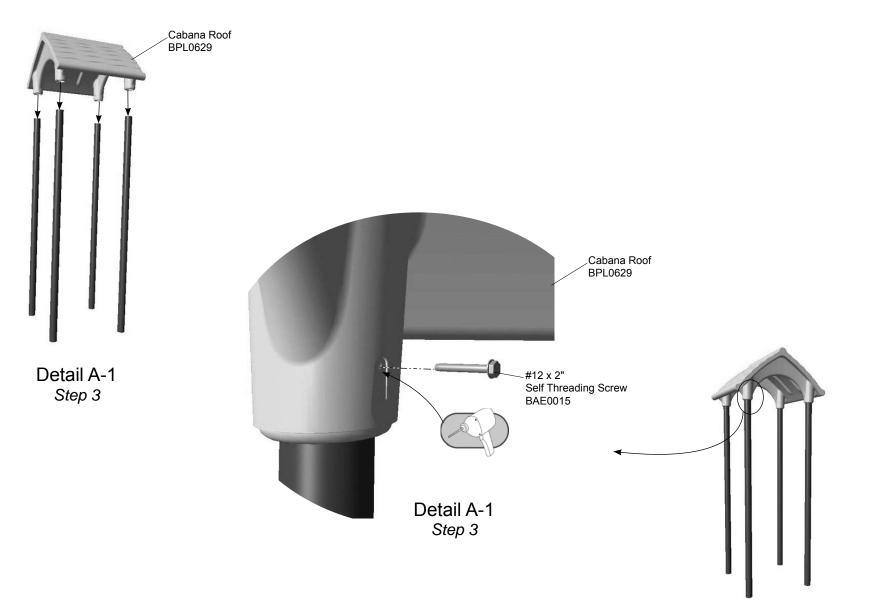




Elevation Views ZZPM9846



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



Model PM9846 PA 0985

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 $#12 \times 1-1/2"$ 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.

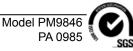
Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

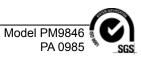
Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.



PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1



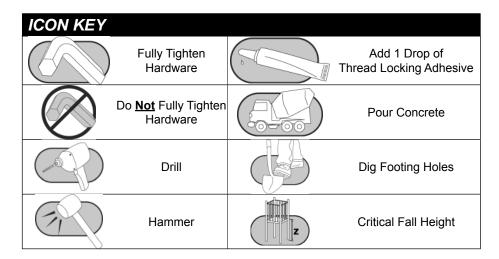




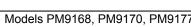
Playmakers[®] Models PM9168, PM9170 and PM9177 Deck to Deck Accessible Tiered Platform 12 in. (305 mm), 24 in. (610 mm) and 36" (914 mm) Rise Height

Installation Preparation

Recommended Crew:	- Two - Three (2-3) adults
Installation Time:	
Use Zone:	Refer to Master Drawing
User Group Age (year	s): ASTM/CSA: 2-12, EN: 2-14



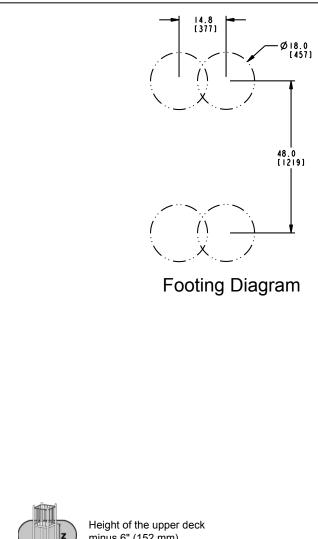


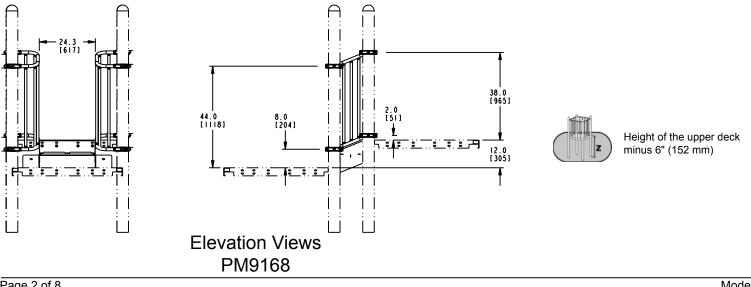




Assembly View (representative model)

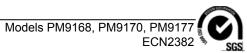
KEY		
Position	Unit of Measurement	
Top #	Inches	
Bottom #	[Millimeters]	



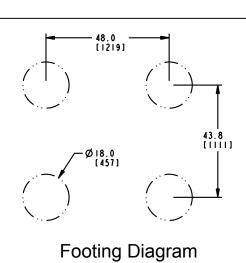


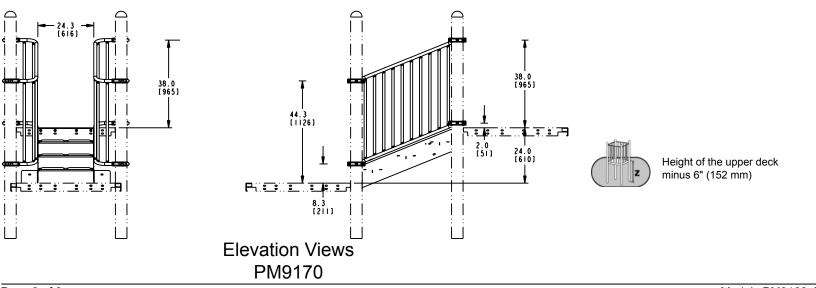
Top View

•



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



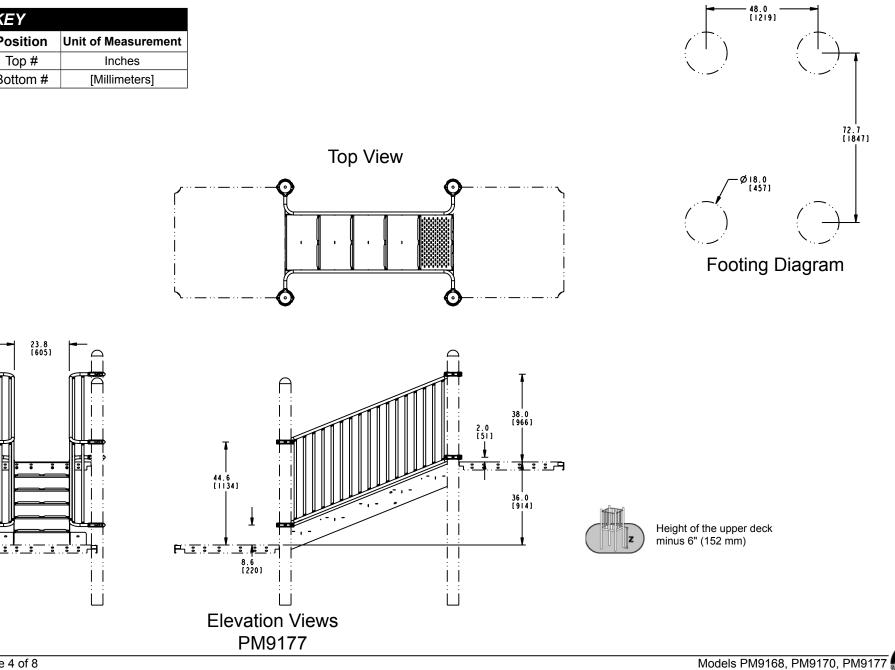


Top View

0

SGS

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

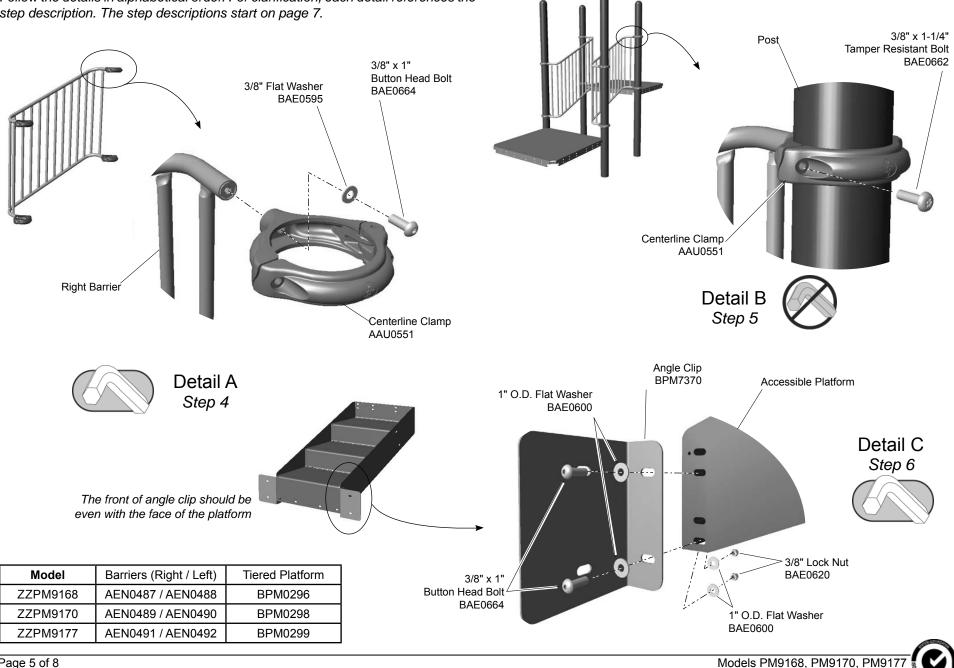


ECN2382 🍾

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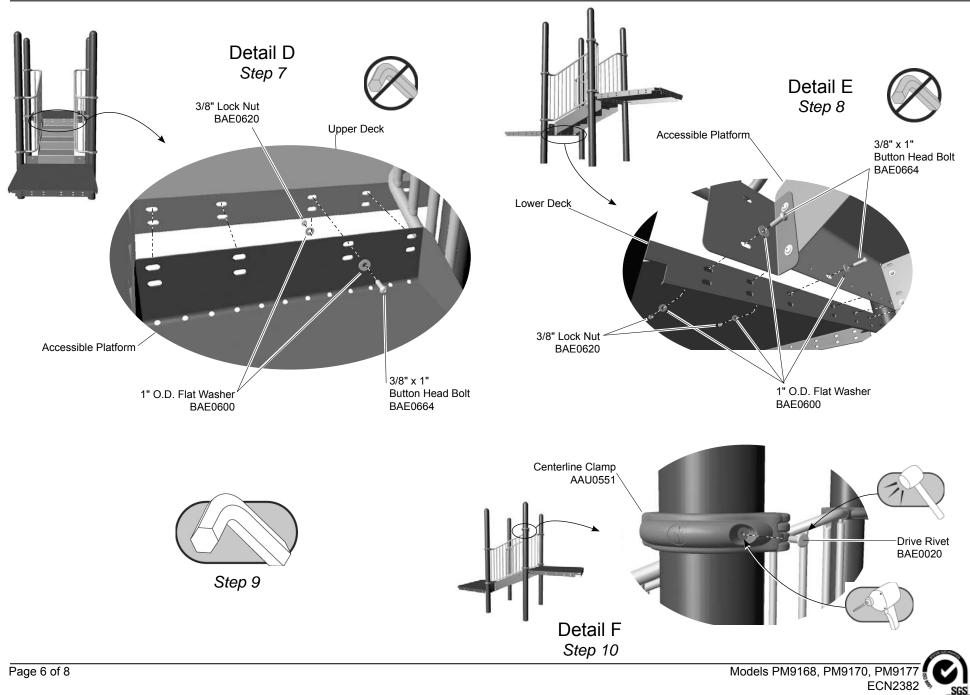
F

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



ECN2382

SGS



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 PLATFO

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1	AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (R	Г) 1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1	AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT	·) 1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8	BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8	BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28	BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14	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	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	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1	BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2	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



SGS





Assembly View

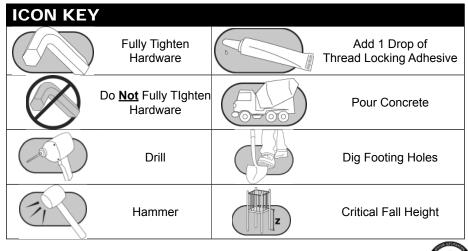
Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems[®] Models XX0260, XX0261, & XX0324 Belt Seat with Swing Chain

Installation Preparation

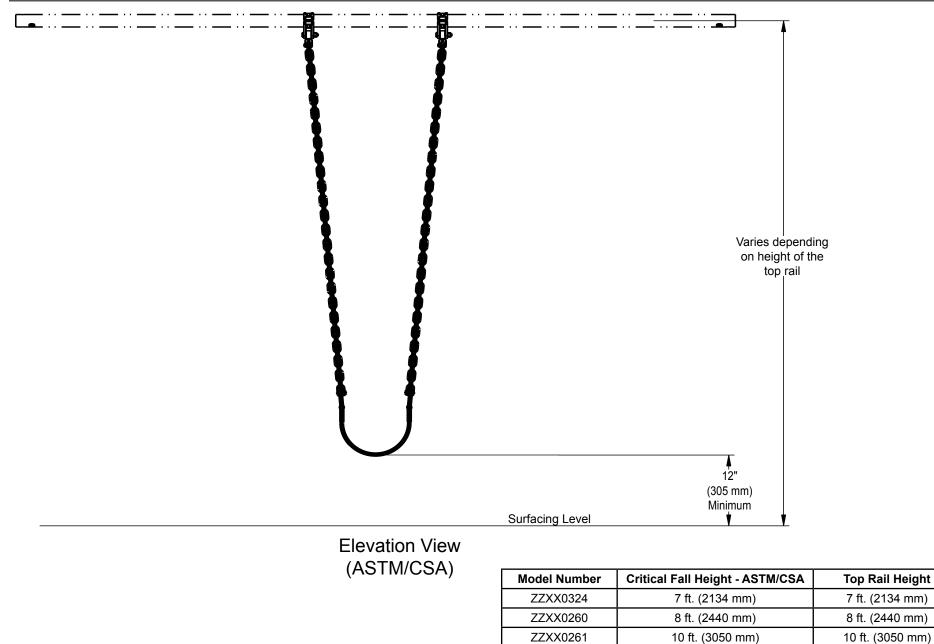
Recommended Crew:	One (1) adult
	0.25 hour
Use Zone:	
User Group Age (years	s): ASTM/CSA: 2-12, EN: 2-14



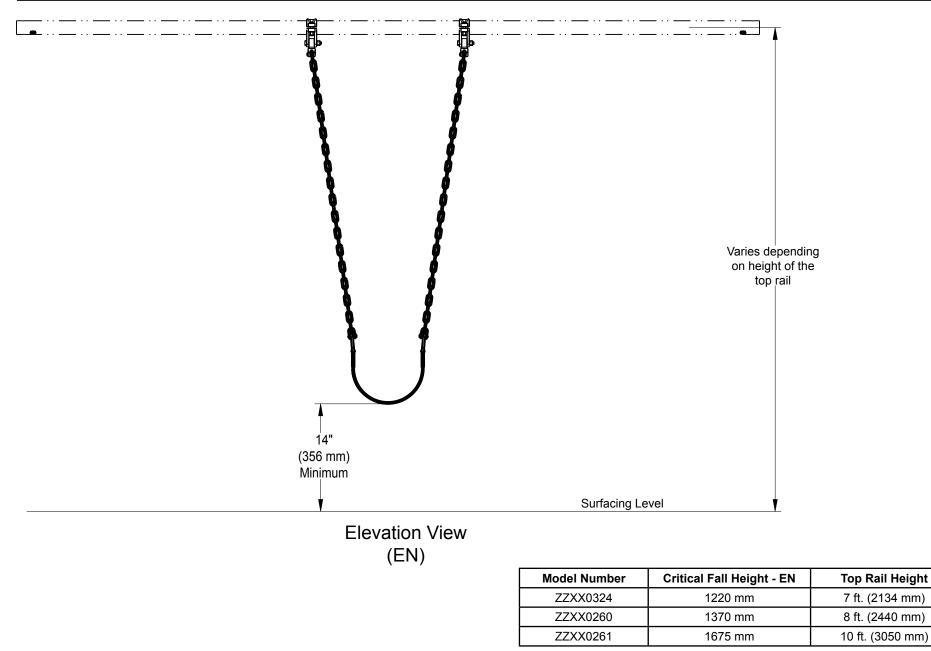
Models XX0260, XX0261, & XX0324



ECN2147

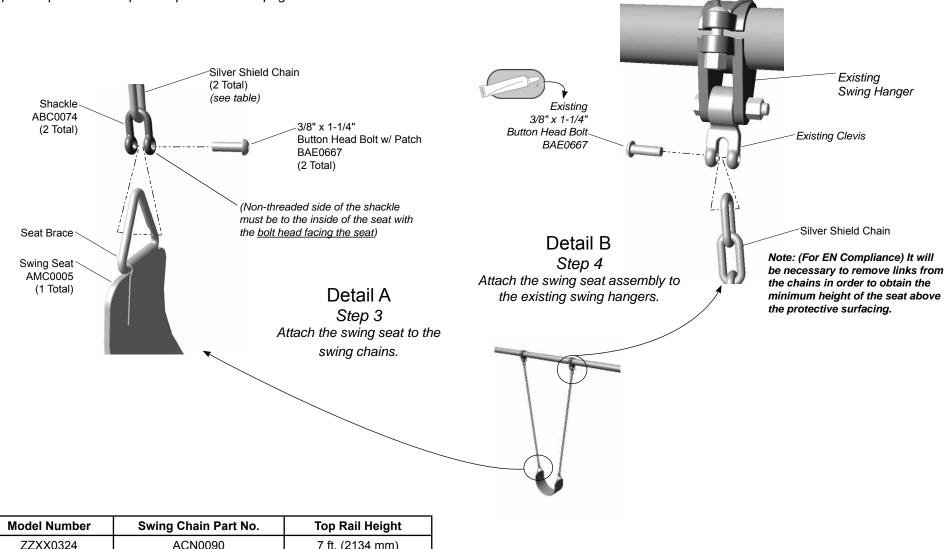








Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



incaci italiicoi	owing onain r art no.	rop Run Hoight
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

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

Carefully read and understand these installation instructions before you begin.

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

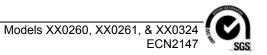
Step 2: Separate and identify all components and hardware.

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

Step 4: Attach the swing seat assembly to the existing swing hangers. See Detail B. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side. Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications. **Torque specifications** - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.



ZZXX0324 - BELT SEAT WITH SWING CHAIN

- 7 ft. (2134 mm) TOP RAIL HEIGHT

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

ZZXX0260 - BELT SEAT WITH SWING CHAIN

- 8 ft. (2438 mm) TOP RAIL HEIGHT

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

ZZXX0261 - BELT SEAT WITH SWING CHAIN

- 10 ft. (3048 mm) TOP RAIL HEIGHT

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



SGS



Swing Seat

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

Fasteners

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

Finish

• Inspect metal parts for finish damage.

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance

Playworld Systems[®] Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain







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	Inspe Code	ection Date	Date Repairs Completed	
Inspect chain and swing seat for damage.		Medium				Inspection Codes
Inspect surfacing to insure proper depth and distribution.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
	Signature:				Da	ite: / /

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date
	Signature:	Date:	1 /





Playworld Systems[®] Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain

Installation Preparation

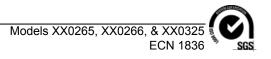
Recommended Crew:	One (1) adult
	0.25 hour
Use Zone:	
User Group:	Ages 2 - 5 years

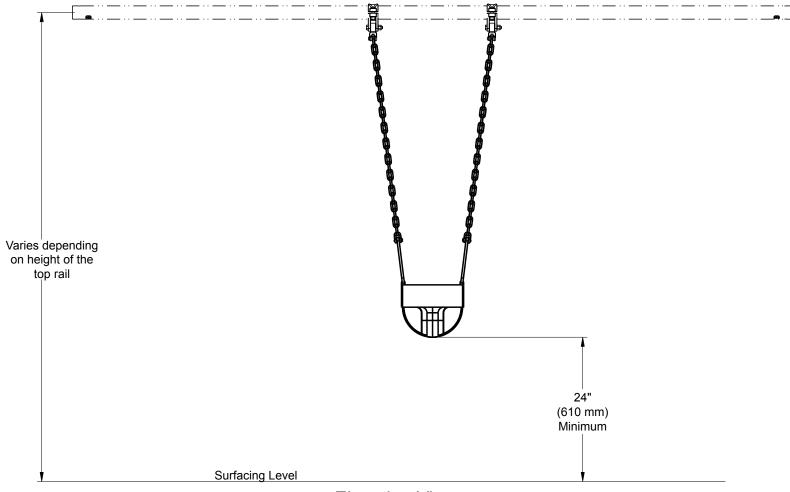
Assembly View

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

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





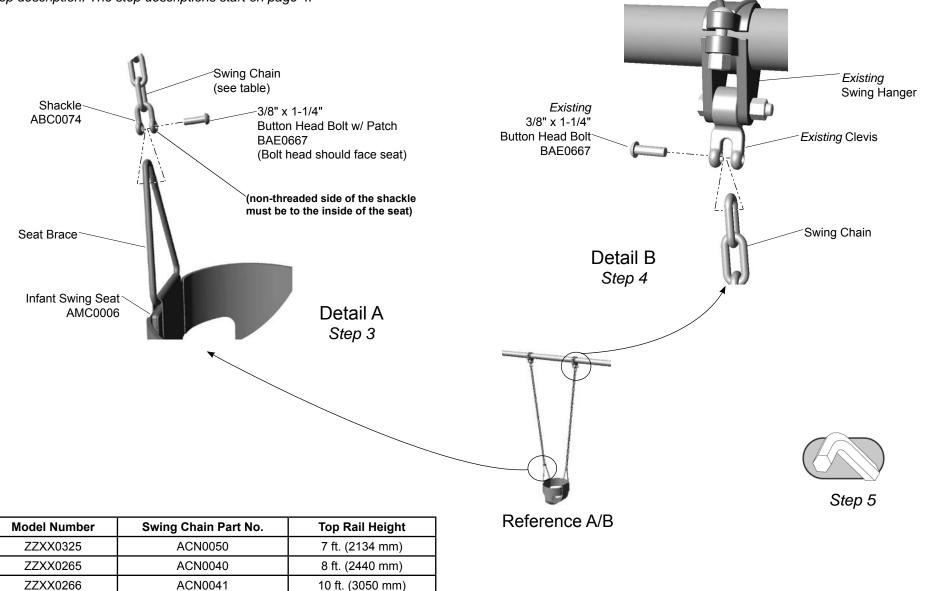


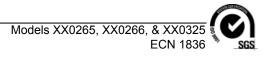
Elevation View

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

SGS

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





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

Carefully read and understand these installation instructions before you begin.

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

_Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

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

Attach the swing seat assembly to the existing swing hangers.

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

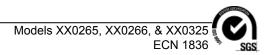
Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

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

Final Details.

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

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



ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN

- 7 ft. (2134 mm) TOP RAIL HEIGHT

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

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

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

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN

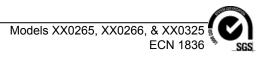
- 10 ft. (3048 mm) TOP RAIL HEIGHT

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





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Swing Seat

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

Fasteners

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

Finish

• Inspect metal parts for finish damage.

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance

Playworld Systems[®] Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain







Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST		Frequency	Inspe Code	ection Date	Date Repairs Completed	
Inspect chain and swing seat for damage.		Medium				Inspection Codes
Inspect surfacing to insure proper depth and distribution.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High]
				0]
Inspector: Name (Please Print)	Signature:	-	-	-	Da	- ate: / /

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

 Repairer:
 Name (Please Print)
 Signature:

Date:



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

Installation Guidelines

• Identify all parts and thoroughly read the assembly instructions before beginning construction.

• Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and noencroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

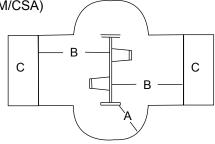
(ASTM / CSA)

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

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

Belt/Rigid Seat Swing Zones (ASTM/CSA)

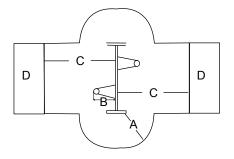
- **A** = Side Use Zone 72 in. (1829 mm)
- B = End Use Zone Height of Pivot Point from Surfacing x 2 Both Sides of Top Rail
- C = No-encroachment Zone 72 in. (1829 mm)



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

Infant Seat Swing Zones

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





(EN)

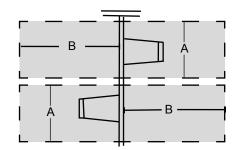
• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing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

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

Use Zones - EN Compliance

- A = Width of the corridor centered on the swing seat 1750 mm
- **B** = Length of the use zone on both sides of the top rail (8ft) Tot Seats: 3290 mm for unitary surfaced areas

or 3790 mm for areas covered with loose fill surfacing. Belt / Rigid Seats: 3510 mm for unitary surfaced areas or 4010 mm for areas covered with loose fill surfacing



• Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

• Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

• After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

• Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

• Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

• Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

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

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

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

Maintenance

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

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

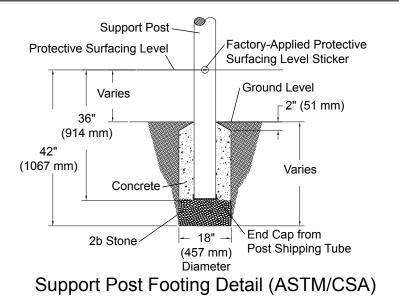
• Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.

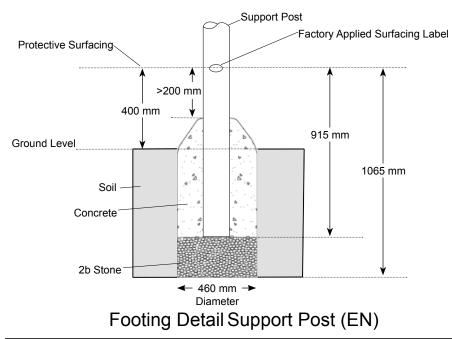
• It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.

• Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.

• Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.

• Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.





FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete. *Example:* If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
 For example:
 - If local soil is loose or unstable, a larger footing may be required.

- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- · Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

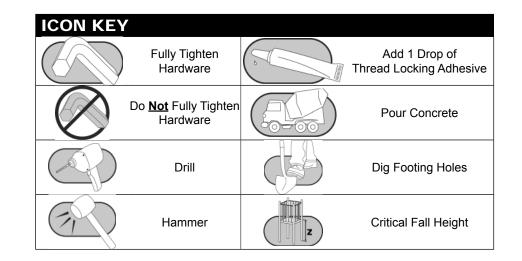




Playworld Systems[®] Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail

Installation Preparation

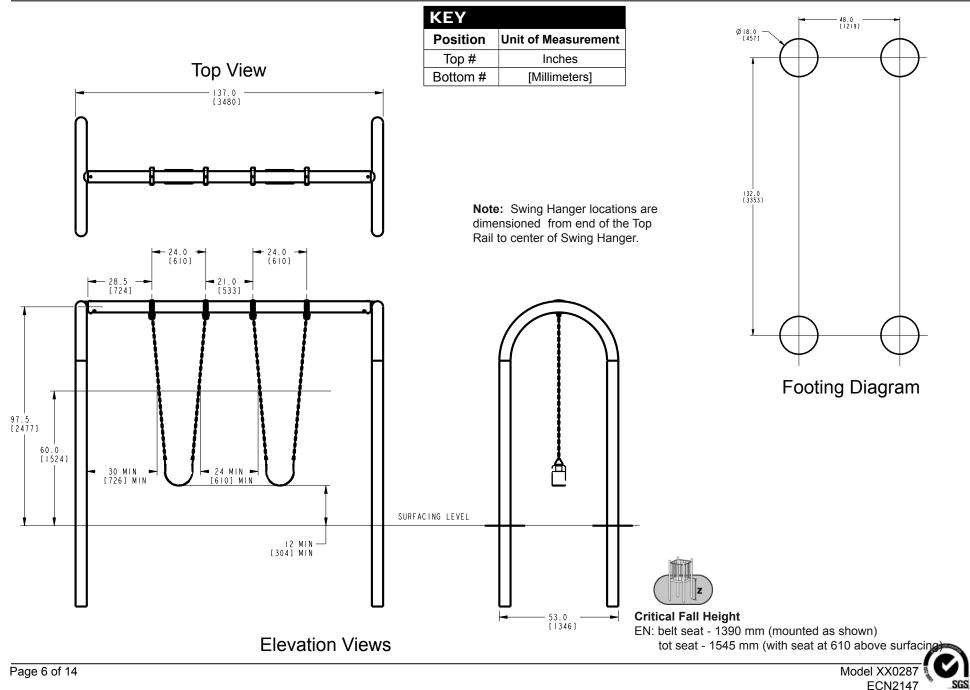
Recommended Crew:	Four (4) adults
Installation Time:	3 man-hours
Concrete Required:	0.48 cubic yard (0,37 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	

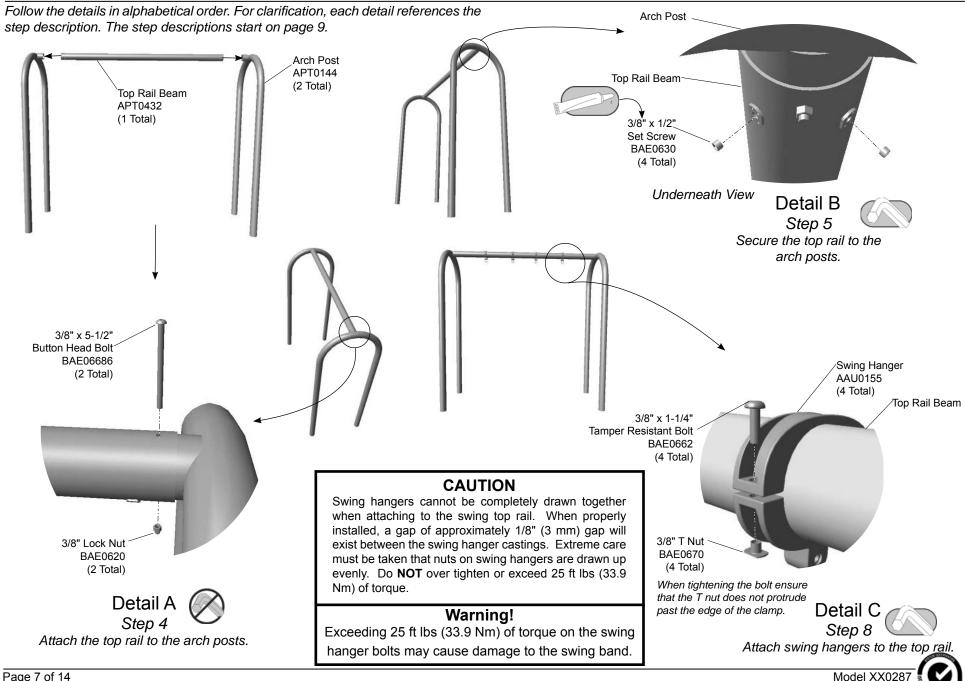




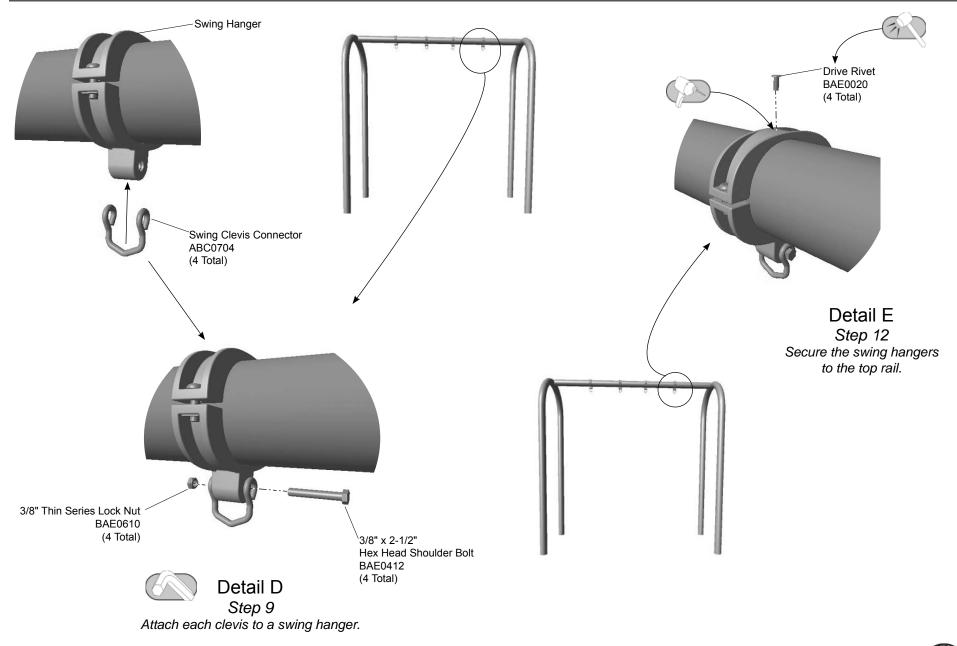


Assembly View (representative model)





ECN2147



Model XX0287 ECN2147

SGS

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Assemble the swing frame.

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

Position the swing frame.

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

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

Attach swing hangers to the top rail.

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

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

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

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

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

Final Details

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.



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

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

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



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

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





FINAL INSPECTION

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

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



Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls.



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Swing Hangers

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

Fasteners

Inspect for loose fasteners.

Tightening torque specifications are:

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

<u>Set Screws:</u> Snug tighten and tighten an additional full turn.

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

Welds

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

Finish

· Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with colormatching paint and allow to dry. Recoat area with colormatching paint if required. Drying time is approximately 8 hours between coats.

Footings

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

Surfacing

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

Replacement Parts

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

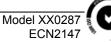
Equipment Maintenance

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



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





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	Inspe Code	ction Date	Date Repairs Completed	
Inspect surfacing to insure proper depth and distribution.		High				Inspection Codes
Inspect swing hangers for tightness and damage.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
Inspect footing to insure support is secure and footing is not damaged	1.	Low				
Inspector: Name (Please Print)	Signature:				Da	te://

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print)	Signature:	Date://
Page 14 of 14		Model XX0287 🛽 💟 🛽

GUIDELINES

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

Installation Guidelines

• Identify all parts and thoroughly read the assembly instructions before beginning construction.

• Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and noencroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

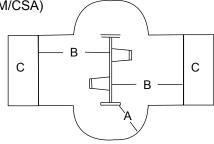
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• For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly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

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Belt/Rigid Seat Swing Zones (ASTM/CSA)

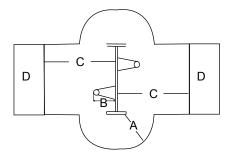
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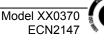


• The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

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(EN)

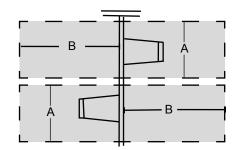
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Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape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

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

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

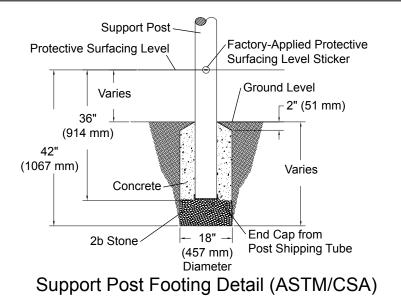
• Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.

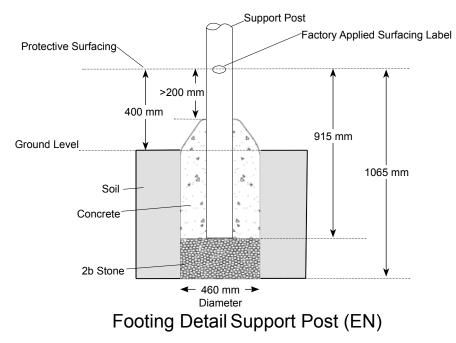
• It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.

• Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.

• Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.

• Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.





FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete. *Example:* If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
 For example:
 - If local soil is loose or unstable, a larger footing may be required.

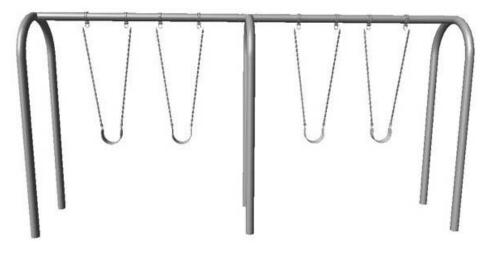
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- · Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.





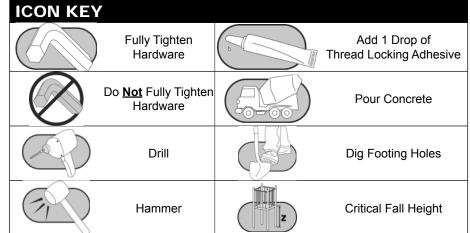
Playworld Systems[®] Model XX0370 5 in. (127 mm) O.D. Aluminum Arch Swing 2-Unit Add-A-Bay

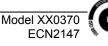


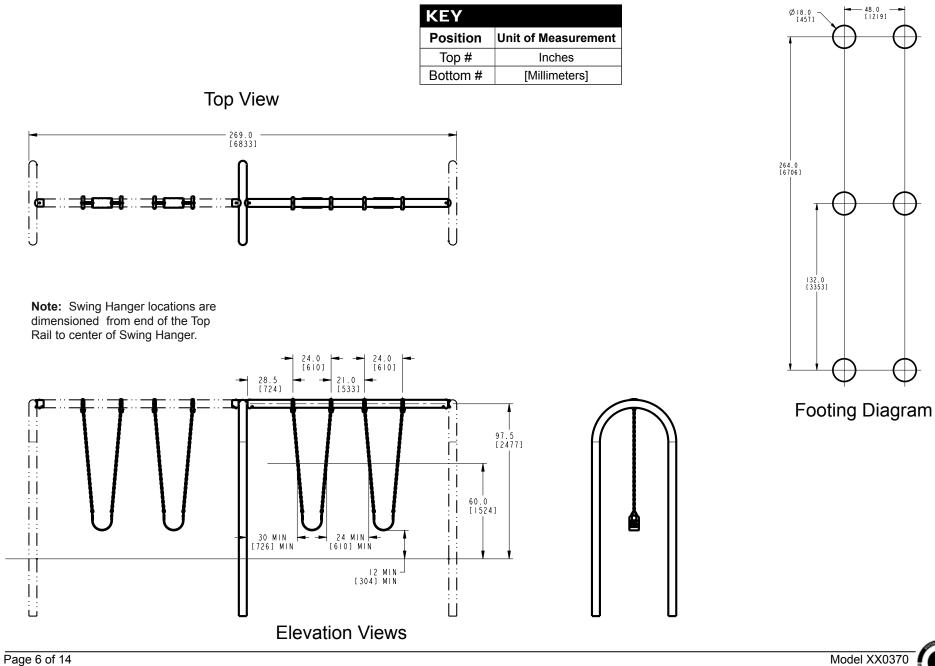
Assembly View

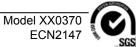
Installation Preparation

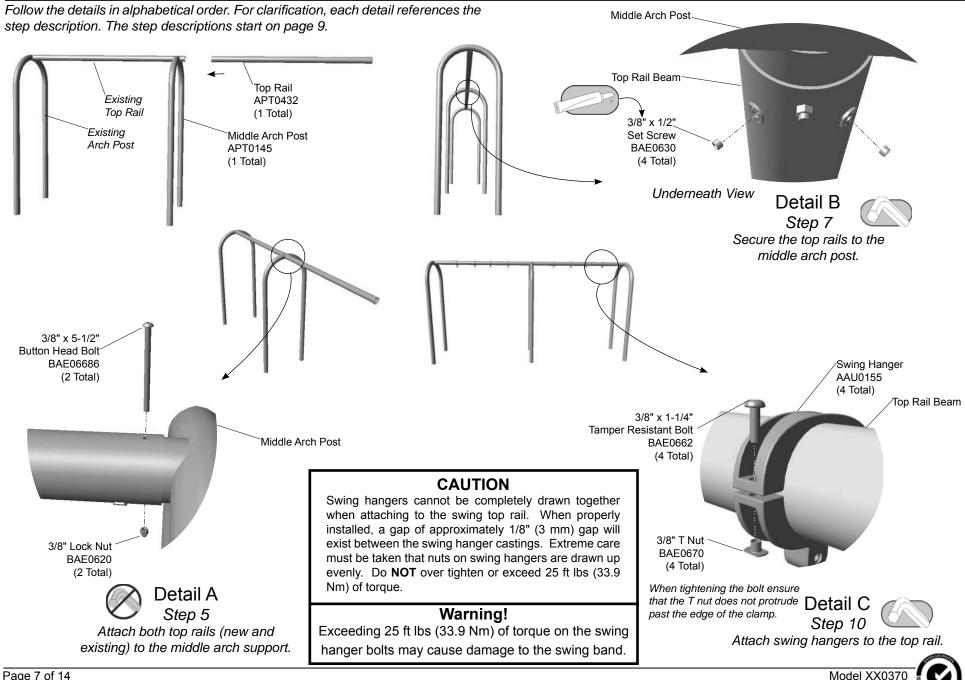
Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



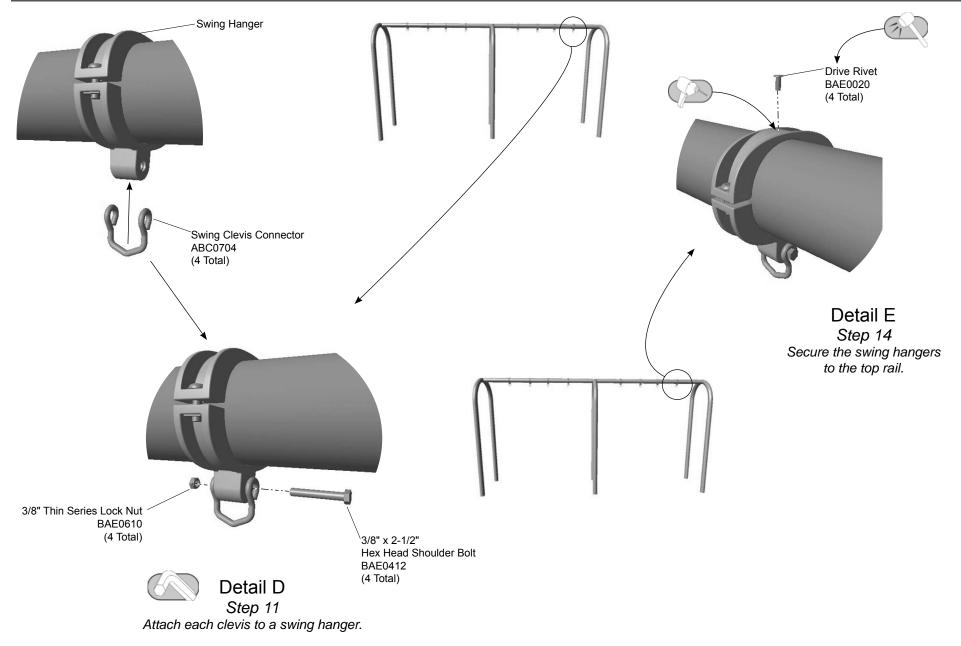








ECN2147



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Existing Swing

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

New Installation

Assemble the swing frame.

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

Re-Connect opposite end of frame.

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

Position the swing frame.

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

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

Attach swing hangers to the top rail.

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

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

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

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

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



Model XX03

Final Details

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

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

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

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

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

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



FINAL INSPECTION

- Playworld Systems[®] insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems[®] strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
- Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
- Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
- Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
- Clean dried concrete off of components and any other affected surface.
- Touch-up any scratches or installation damage to powder coated finish with colormatched spray paint.
- Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.

• Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".

• Insure that hard surface warning/Playworld Systems[®] identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

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



Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls.



www.playworldsystems.com



Model XX03

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Swing Hangers

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

Fasteners

Inspect for loose fasteners.

Tightening torque specifications are:

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

<u>Set Screws:</u> Snug tighten and tighten an additional full turn.

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

Welds

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

Finish

· Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with colormatching paint and allow to dry. Recoat area with colormatching paint if required. Drying time is approximately 8 hours between coats.

Footings

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

Surfacing

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

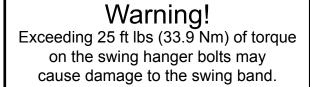
Replacement Parts

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

Equipment Maintenance

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











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	Inspe Code	ction Date	Date Repairs Completed	
Inspect surfacing to insure proper depth and distribution.		High				Inspection Codes
Inspect swing hangers for tightness and damage.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
Inspect footing to insure support is secure and footing is not damaged	J.	Low				
Inspector: Name (Please Print)	Signature:				Da	ite://

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print)	Signature:	Date:/
Page 14 of 14		Model XX0370



LAKE EDGE PARK **OPTION #2-5** MADISON, WI



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

260 W. Main St. Cambridge, WI 53523

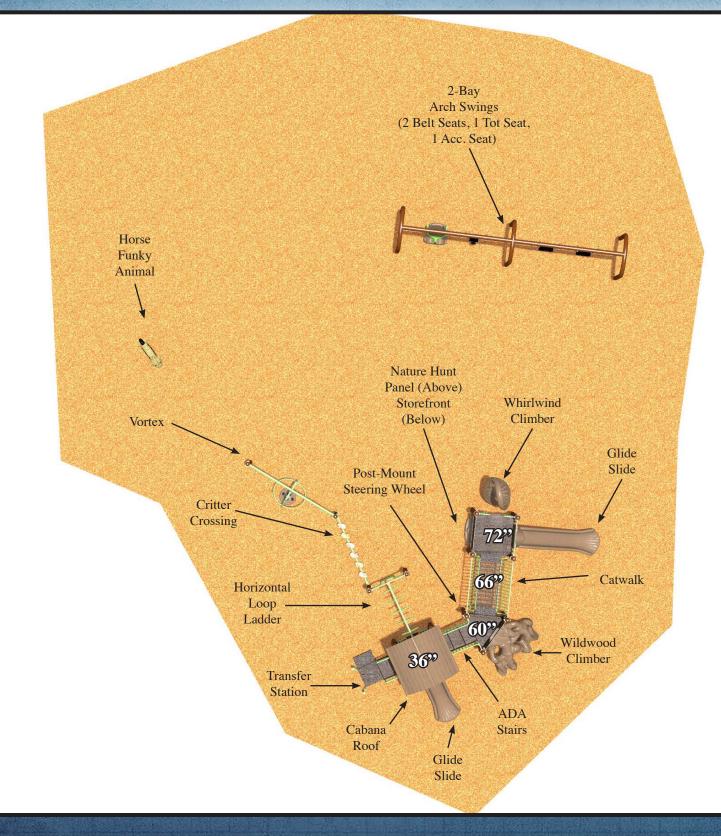
info@leerecreation.com www.leerecreation.com

PROVIDING FUN ACROSS WISCONSIN SINCE 1995





LAKE EDGE PARK MADISON, WI FINAL DRAWING





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

260 W. Main St. Cambridge, WI 53523

info@leerecreation.com www.leerecreation.com

Providing Fun Across Wisconsin Since 1995

Complies With:

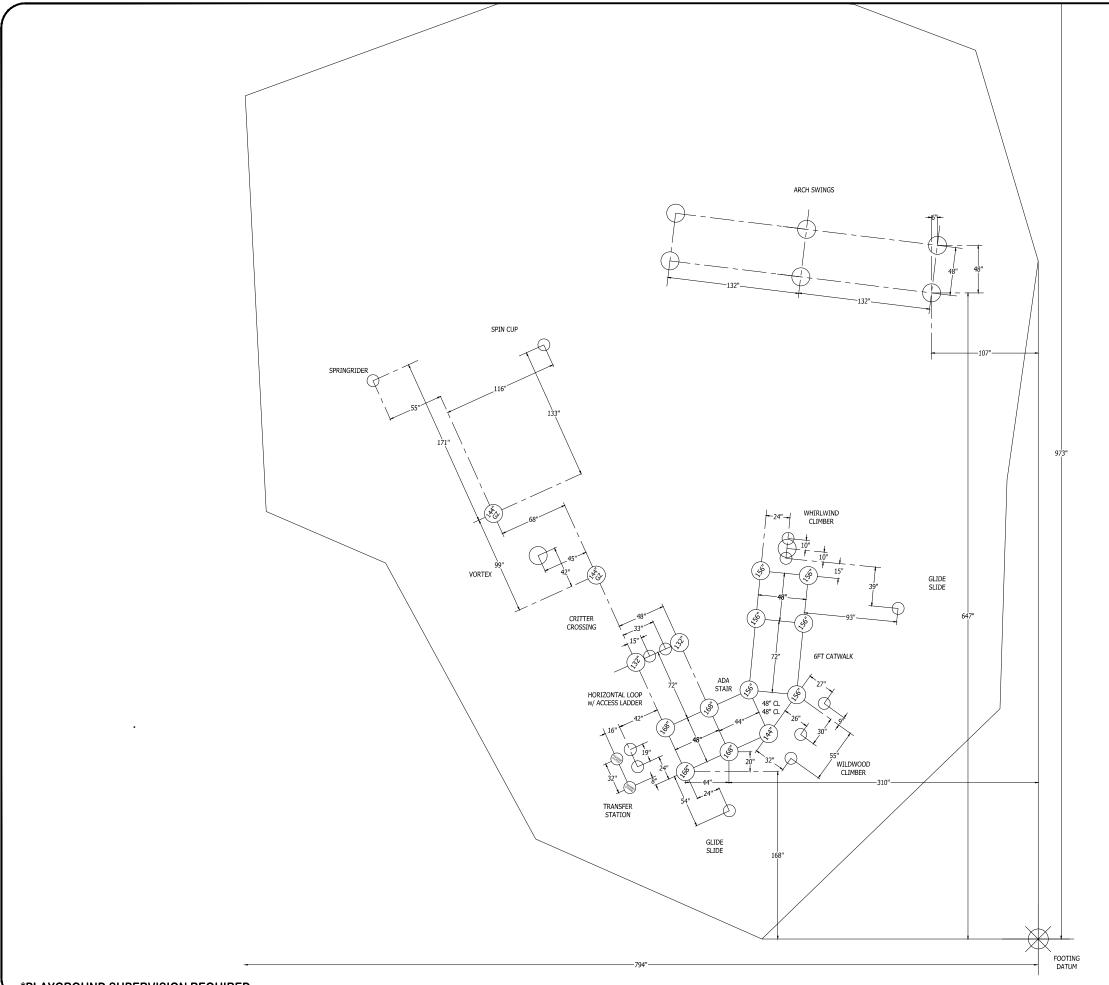
- ASTM F1487-01 \boxtimes
- ASTM F1487-98
- CPSC #325 \boxtimes
- ADA-ADAAG

Design Number: PW042717-2

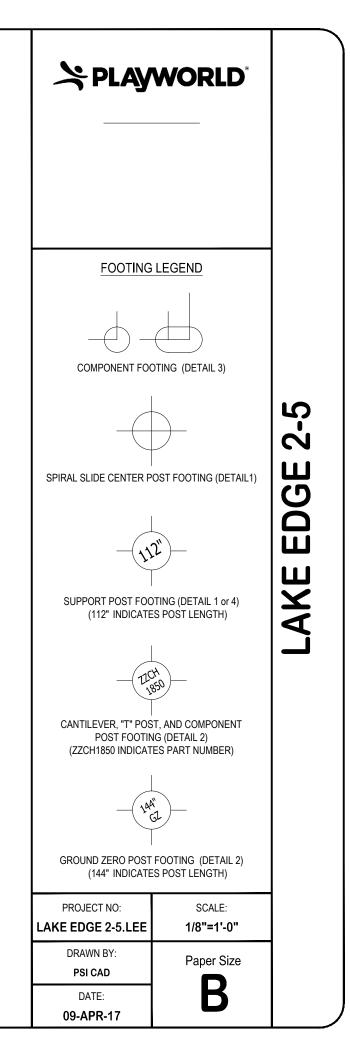
- Use Zone:
- # of Users: 41
- # of Active Play Events: 16
 - Age: 5 to 12

Colors Shown:





*PLAYGROUND SUPERVISION REQUIRED





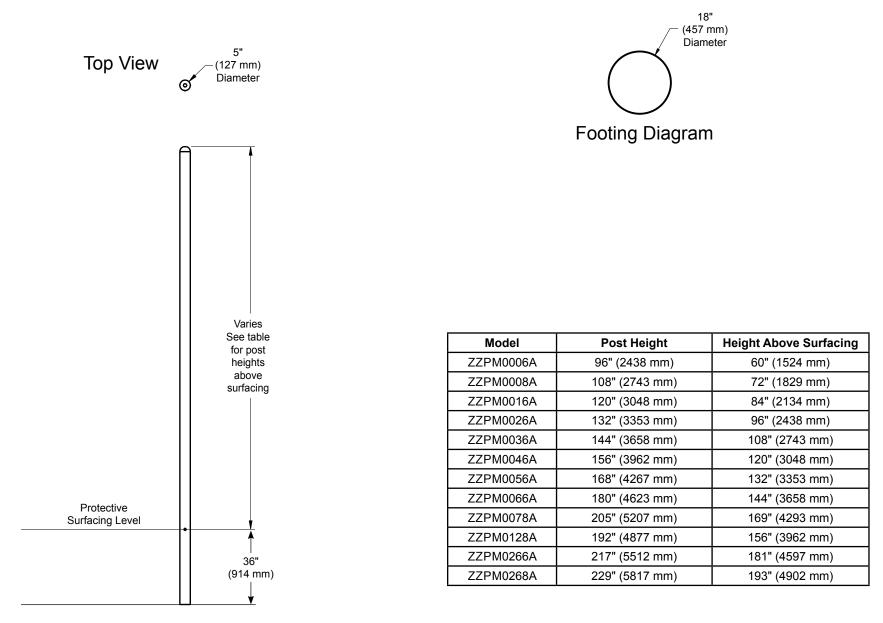
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)		
PART NO.	DESCRIPTION	QTY.		
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)		
PART NO.	DESCRIPTION	QTY.		
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1		

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0078A - AL	.UMINUM SUPPORT POST w/ CAP 205 in. (5207 m	m)
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0128A - AL	.UMINUM SUPPORT POST w/ CAP 192 in. (4877 m	m)
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - AL	.UMINUM SUPPORT POST w/ CAP 217 in. (5512 m	m)
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - AL	.UMINUM SUPPORT POST w/ CAP 229 in. (5817 m	m)
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

1

CAP0427



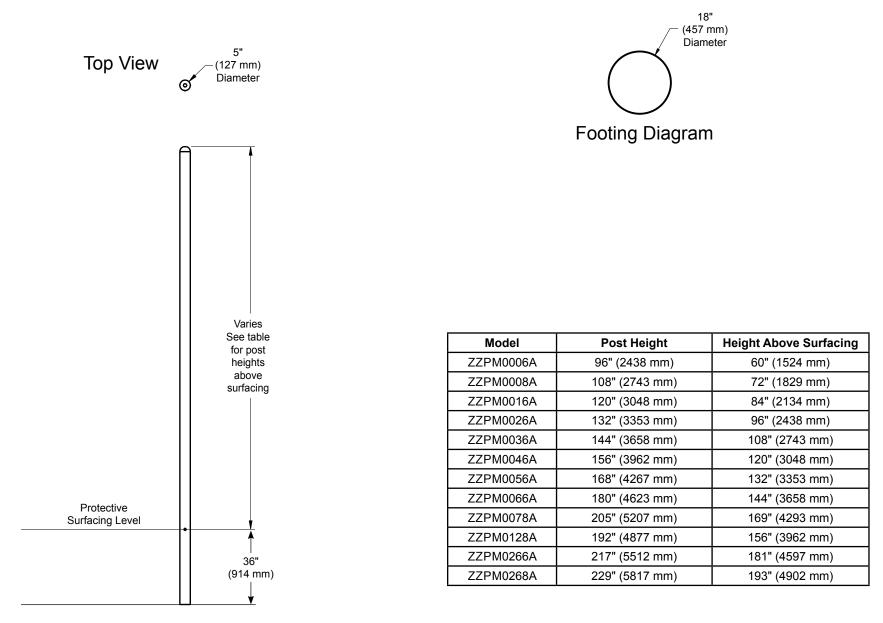
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)		
PART NO.	DESCRIPTION	QTY.		
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)		
PART NO.	DESCRIPTION	QTY.		
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1		
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)				
PART NO.	DESCRIPTION	QTY.		
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1		

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0078A - AL	.UMINUM SUPPORT POST w/ CAP 205 in. (5207 m	m)
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0128A - AL	.UMINUM SUPPORT POST w/ CAP 192 in. (4877 m	m)
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - AL	.UMINUM SUPPORT POST w/ CAP 217 in. (5512 m	m)
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - AL	.UMINUM SUPPORT POST w/ CAP 229 in. (5817 m	m)
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

1

CAP0427



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)

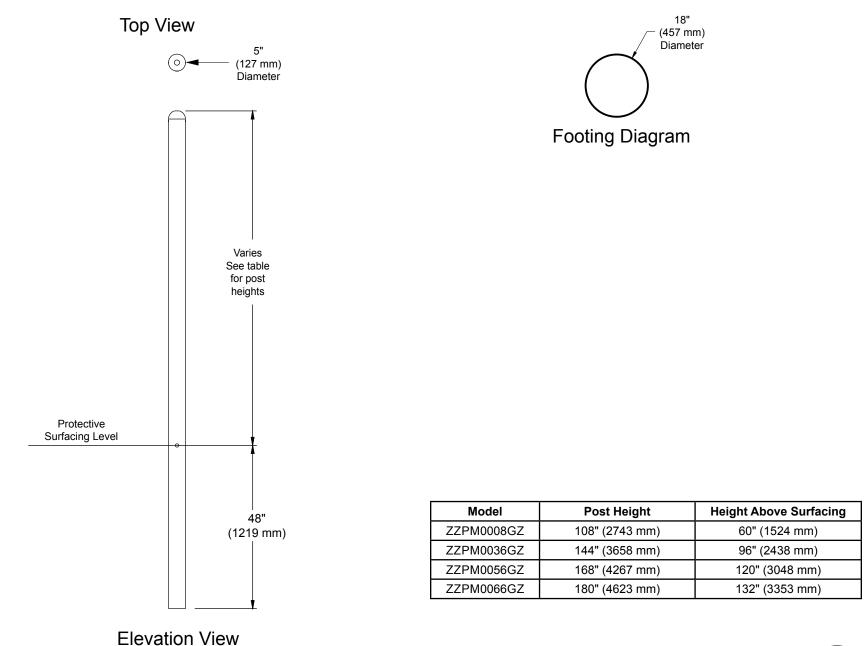
Installation Preparation

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)

Assembly View (representative model)









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 <u>**GroundZero**®</u> **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







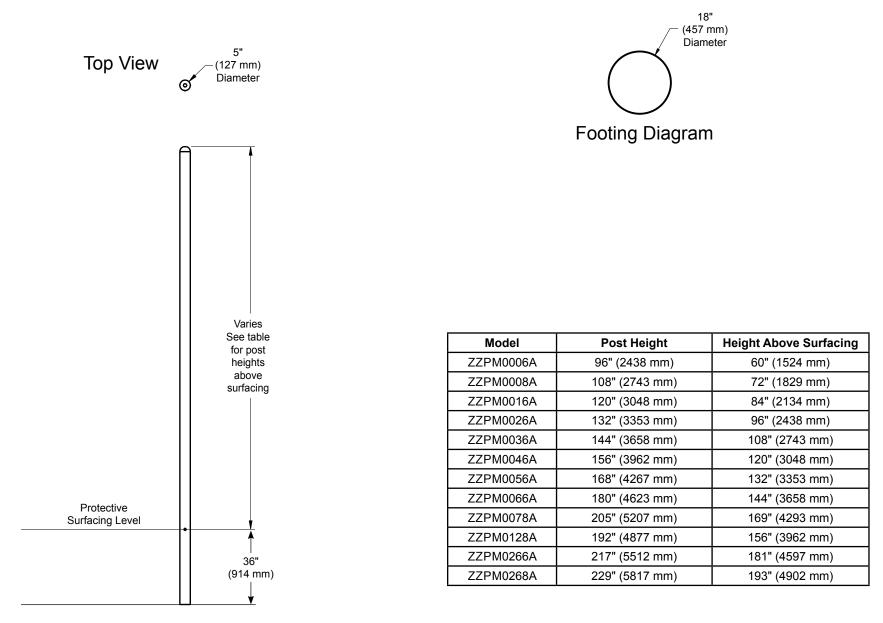
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0036A - AL	UMINUM SUPPORT POST w/ CAP 144 in. (3658 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1	

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0078A - AL	.UMINUM SUPPORT POST w/ CAP 205 in. (5207 m	m)
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)		
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)		
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)		
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

1

CAP0427



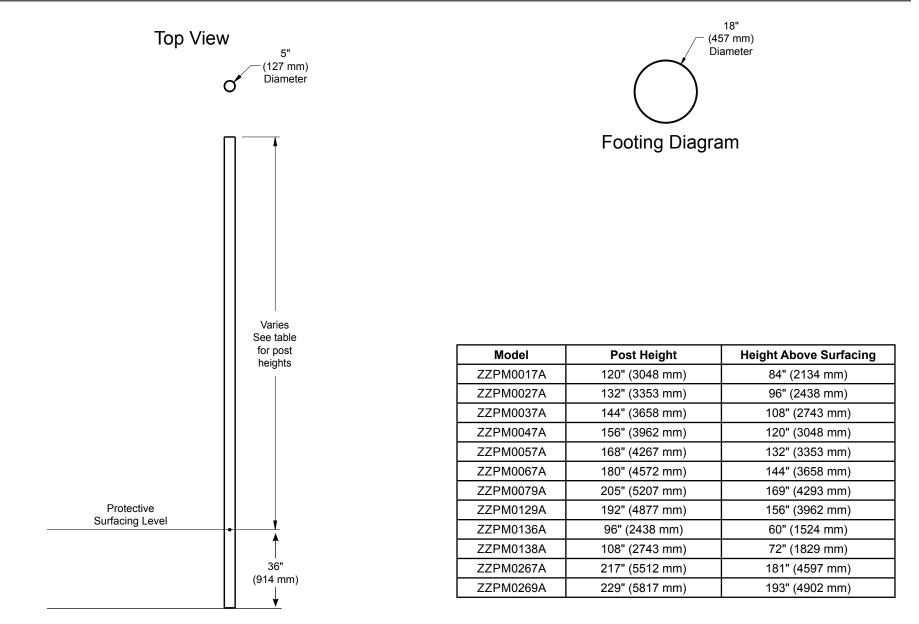
Playmakers[®] Models PM0017A, PM0027A, PM0037A, PM0047A, PM0057A, PM0067A, PM0079A, PM0129A, PM0136A, PM0138A, PM0267A, PM0269A Aluminum Support Post w/o Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

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

Assembly View (representative model)





Elevation View



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)			
PART NO.	DESCRIPTION	QTY.	
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1	
PM0027A - Al	LUMINUM SUPPORT POST w/o CAP 132 in. (3353	mm)	
PART NO.	DESCRIPTION	QTY.	
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1	
PM0037A - Al	LUMINUM SUPPORT POST w/o CAP 144 in. (3658	mm)	
PART NO.	DESCRIPTION	QTY.	
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1	
PM0047A - Al	LUMINUM SUPPORT POST w/o CAP 156 in. (3962	mm)	
PART NO.	DESCRIPTION	QTY.	
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1	
PM0057A - Al	LUMINUM SUPPORT POST w/o CAP 168 in. (4267	mm)	
PART NO.	DESCRIPTION	QTY.	
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1	
PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)			
PART NO.	DESCRIPTION	QTY.	
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1	
PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)			
PART NO.	DESCRIPTION	QTY.	
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1	

PM0129A - A	ALUMINUM SUPPORT POST w/o CAP 192 in. (4877	mm)
PART NO. BAF5063	DESCRIPTION POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	QTY . 1
PM0136A - A	ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 n	nm)
PART NO. BAF5007	DESCRIPTION POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	QTY. 1
PM0138A - A	ALUMINUM SUPPORT POST w/o CAP 108 in. (2743	mm)
PART NO. BAF5009	DESCRIPTION POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	QTY . 1
PM0267A - A	ALUMINUM SUPPORT POST w/o CAP 217 in. (5512	mm)
PART NO. BAF0425	DESCRIPTION POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	QTY . 1
PM0269A - A	ALUMINUM SUPPORT POST w/o CAP 229 in. (5817	mm)
PART NO.	DESCRIPTION	OTY.

POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"





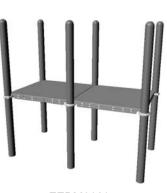
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BAF0427



Playmakers[®] PM0616 and PM0629 Square and Long Coated Perforated Decks





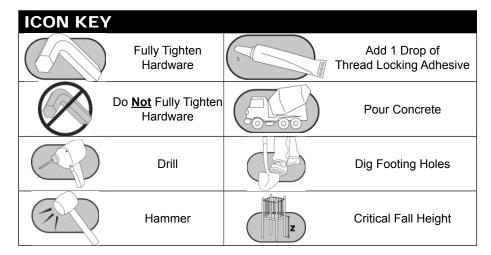
ZZPM0616 Square Deck

ZZPM0629 Long Deck

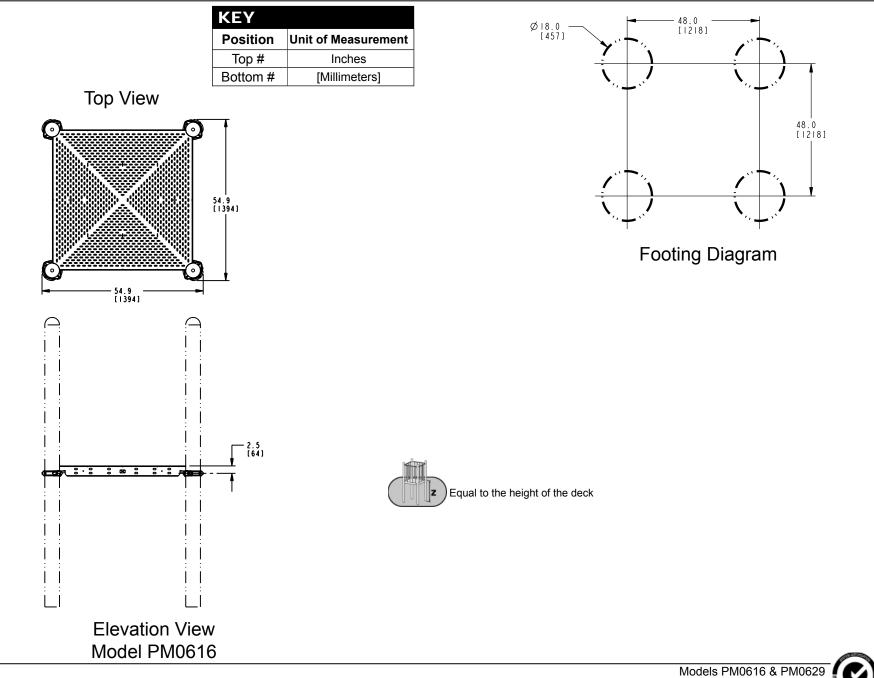
Assembly View

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

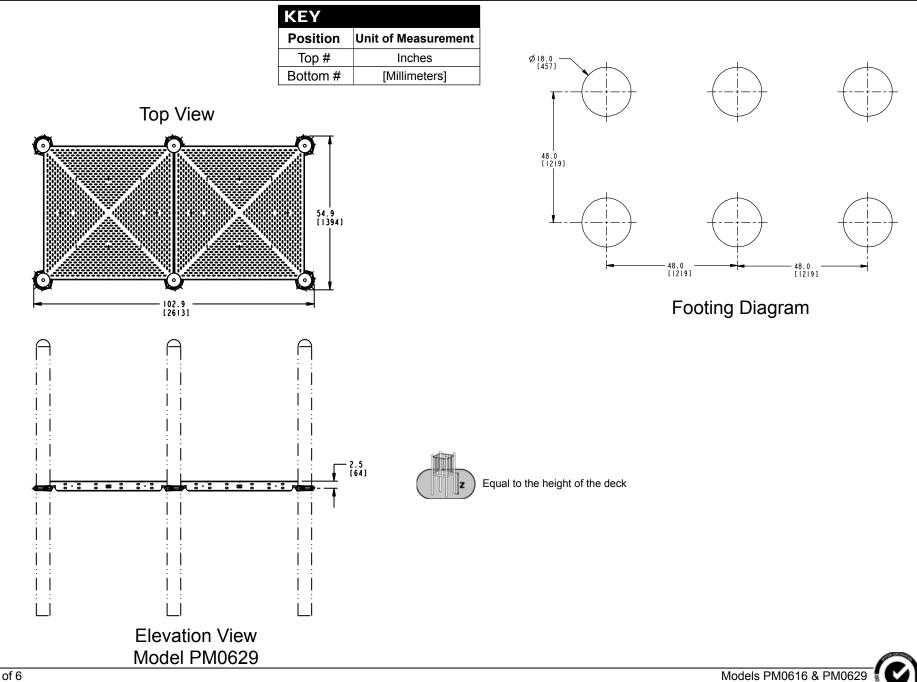






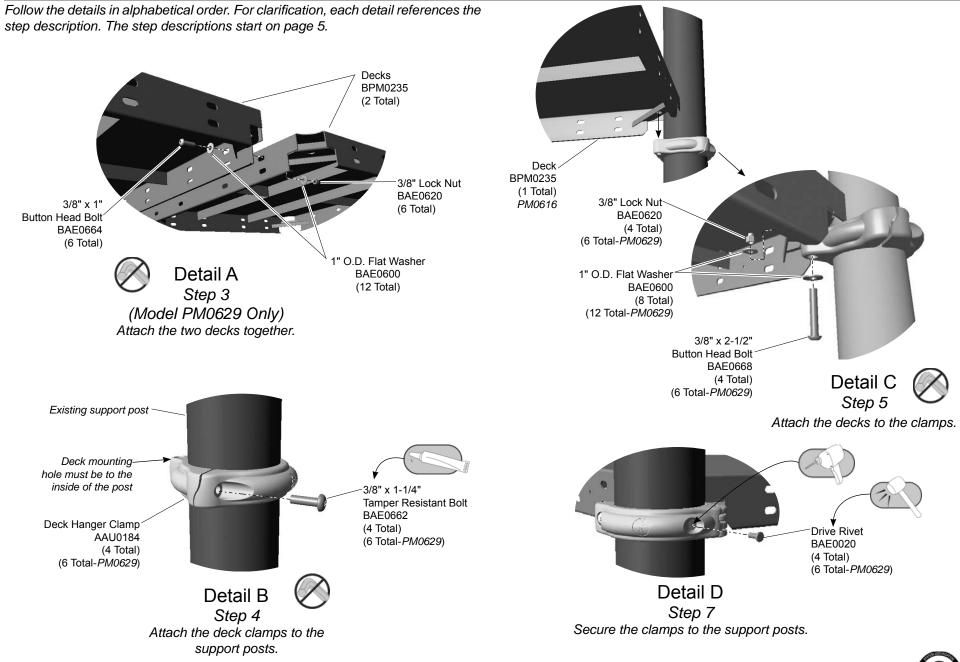
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Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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.

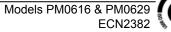
PM0616 - SQUARE COATED PERFORATED DECK

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





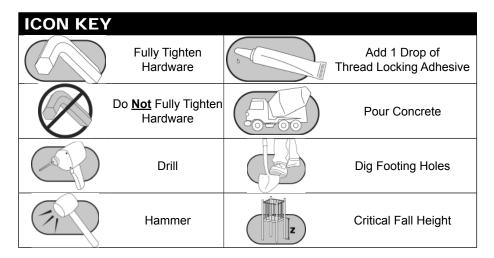
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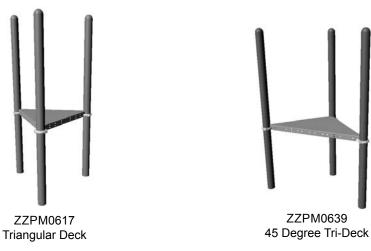
Playmakers[®] PM0617, and PM0639 Triangular and 45 DegreeTri-Deck Coated Perforated Decks

Installation Preparation

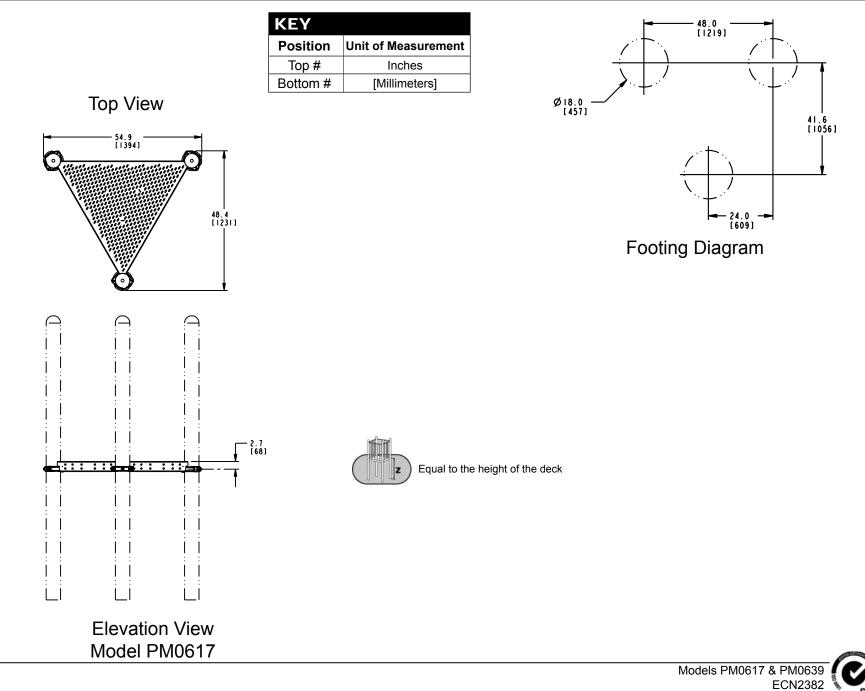
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

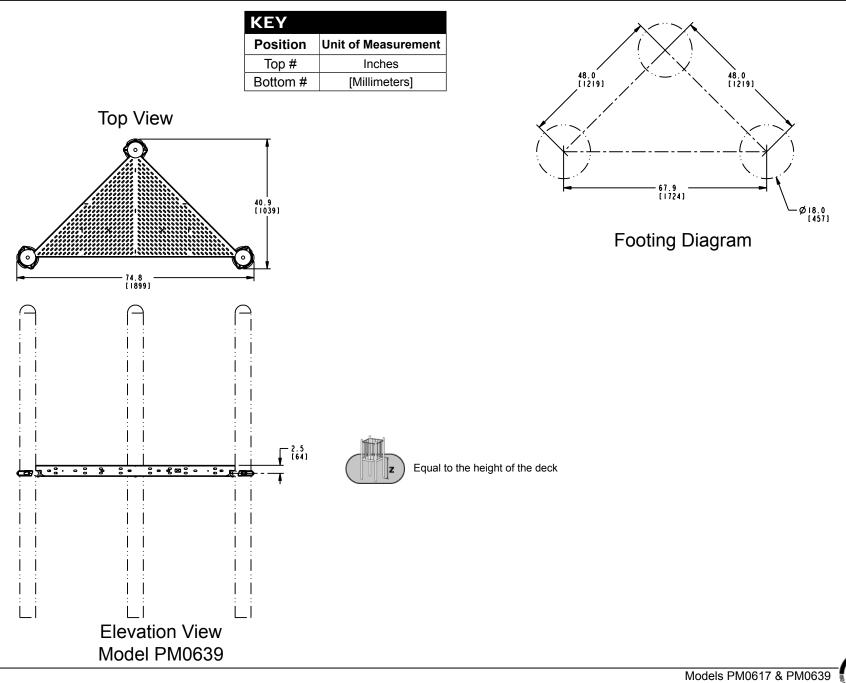






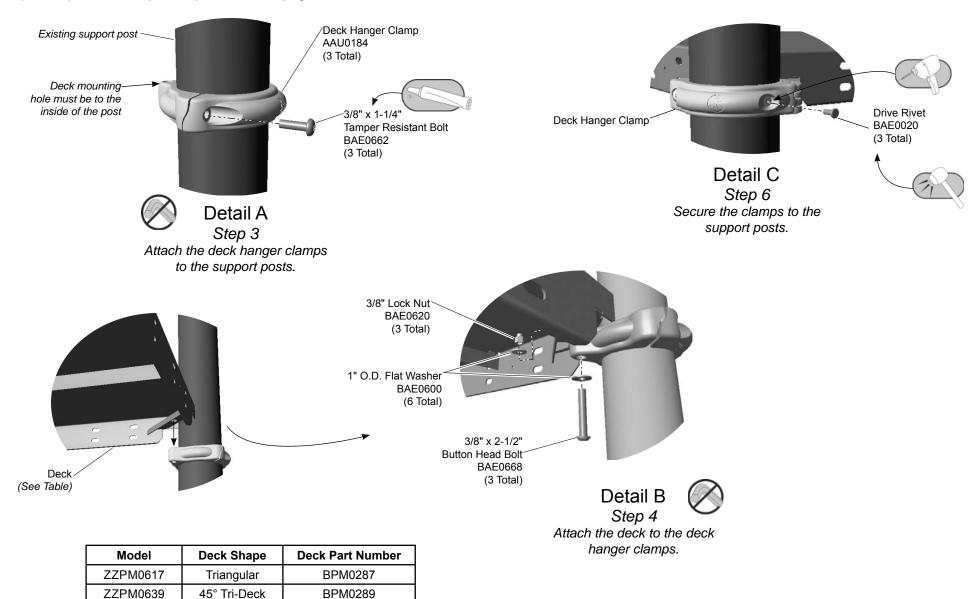
Assembly View





ECN2382

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



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.

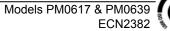
PM0617 - TRIANGULAR COATED PERFORATED DECK

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



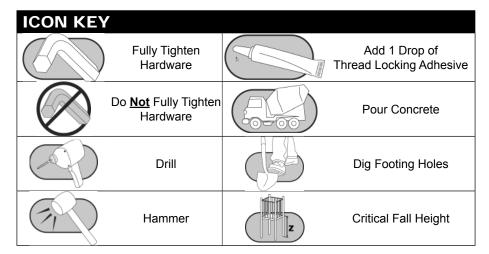




Playmakers[®] Model PM2006, PM2006S, PM2007 and PM2007S 36 in. (914 mm) Transfer Station and 36 in. (914 mm) Transfer Station w/Tall Guardrail In-ground and Surface Mount

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

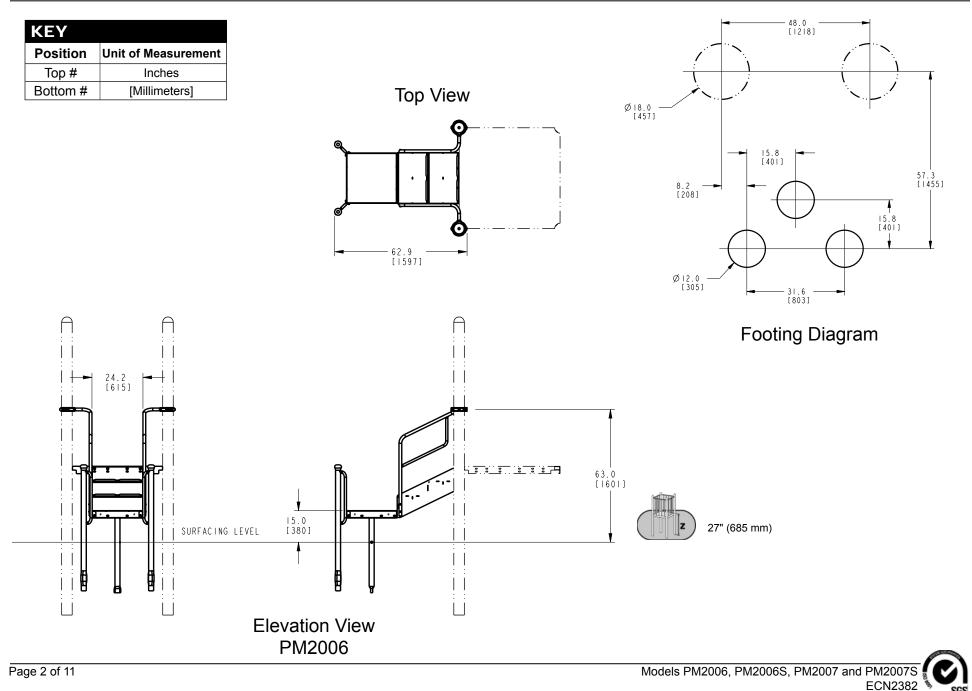




Models PM2006, PM2006S, PM2007 and PM2007S



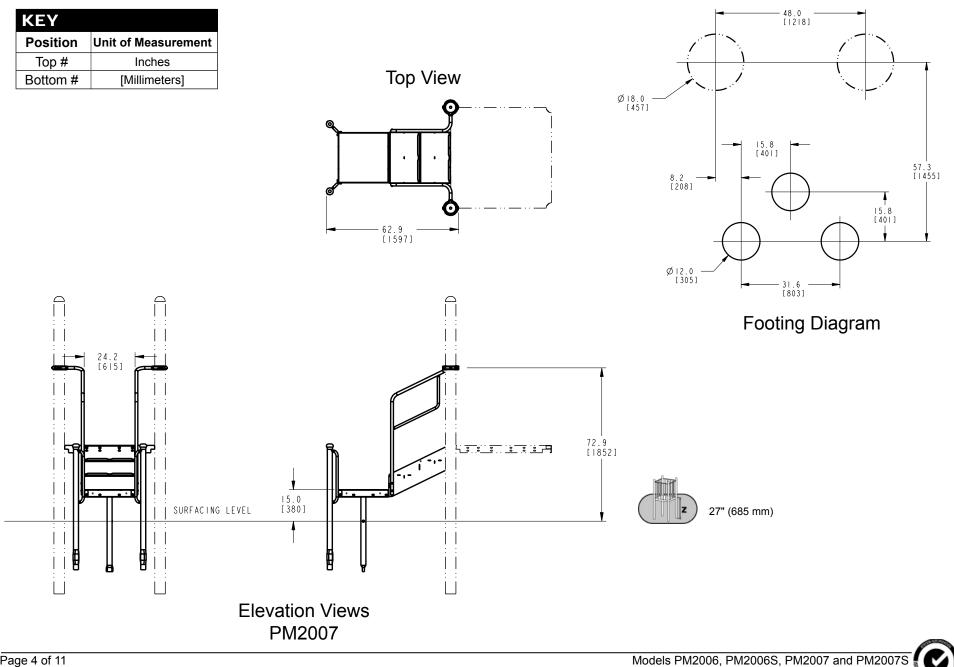
Assembly View (representative model)



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KEYPositionUnit of MeasurementTop #InchesBottom #[Millimeters]	Top View	$ \begin{array}{c} & 48.0 \\ (1218) \\ & (1218) \\ & (457) \\ & (457) \\ & (457) \\ & (457) \\ & (401) \\ & (401) \\ & (401) \\ & (401) \\ & (1455) \\$
		Footing Diagram
24.2 [615]		63.0 [1601] 27" (685 mm)
El	evation View PM2006S	C
Page 3 of 11		Models PM2006 PM2006S PM2007 and PM2007S



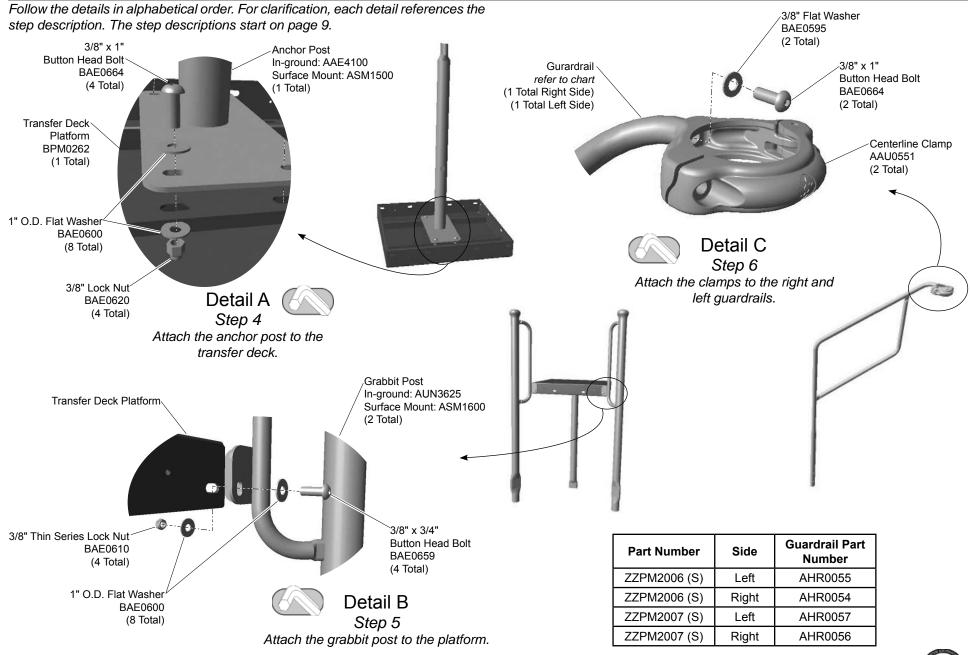


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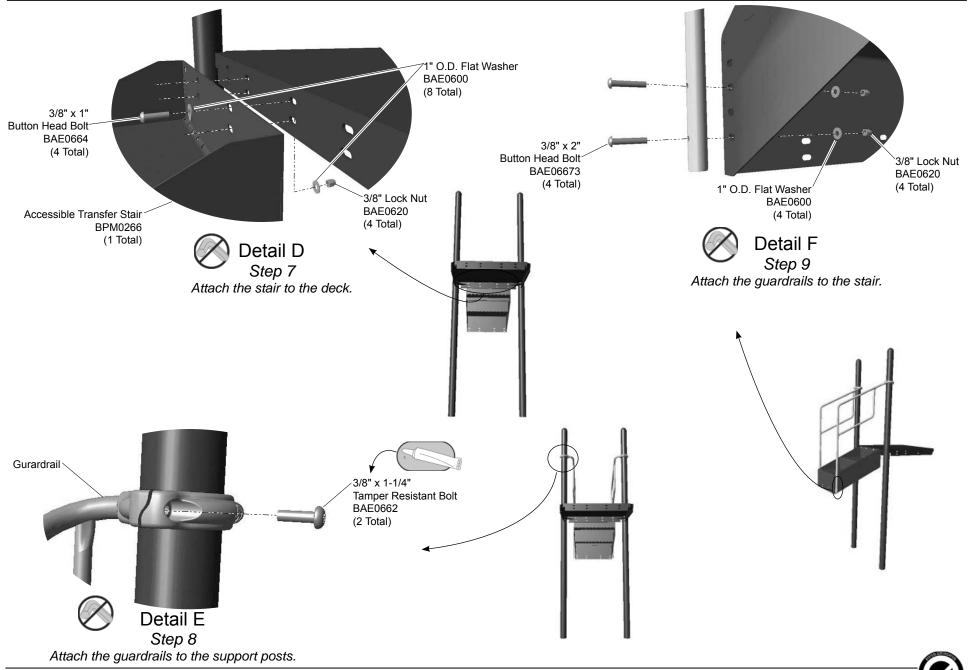
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		Elevation Views			
		PM2007S			
Page 5 of 11				Models PM2006, PM2006S, PM20	007 and PM2007S

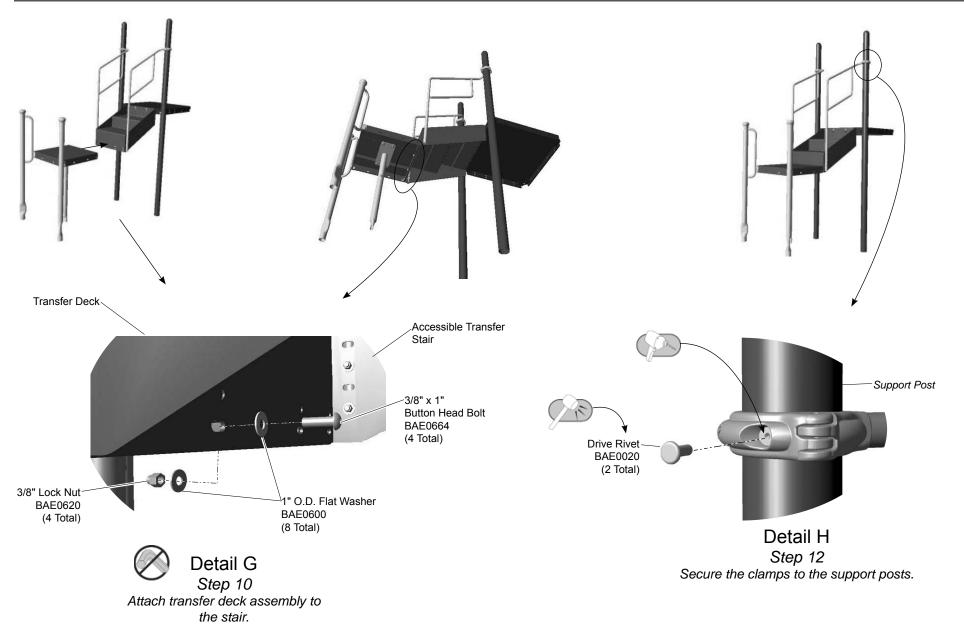












Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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 inground 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.



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

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





ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	(
AAE4100	POST - 14" x 37-3/16" w/PLATE	1	AAE4100	POST - 14" x 37-3/16" w/PLATE	
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1	AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1	AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	
AUN3625	POST - 60-9/16" GRABBIT	2	AUN3625	POST - 60-9/16" GRABBIT	
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	
BAE0600	WASHER - 1" O.D. FLAT	36	BAE0600	WASHER - 1" O.D. FLAT	
BAE0610	NUT - 3/8"-16 THIN LOCK	4	BAE0610	NUT - 3/8"-16 THIN LOCK	
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4	BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4	BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1	BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1	BPM0266	STAIR - 21" ACSBLE COATED TRANSFER W/SLOTS	

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

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



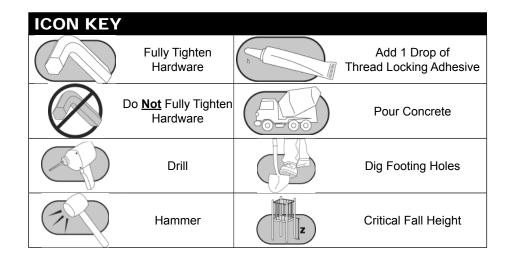


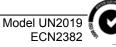


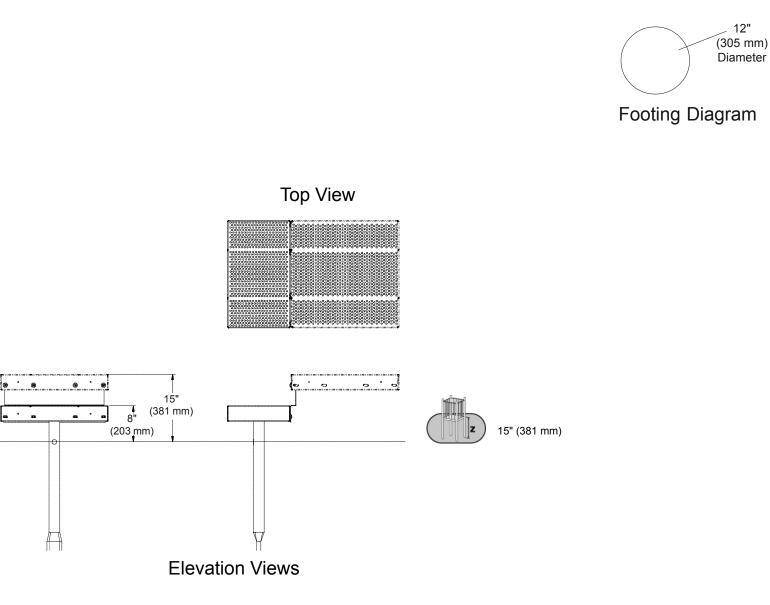
Universal Model UN2019 Platform Approach Step

Installation Preparation

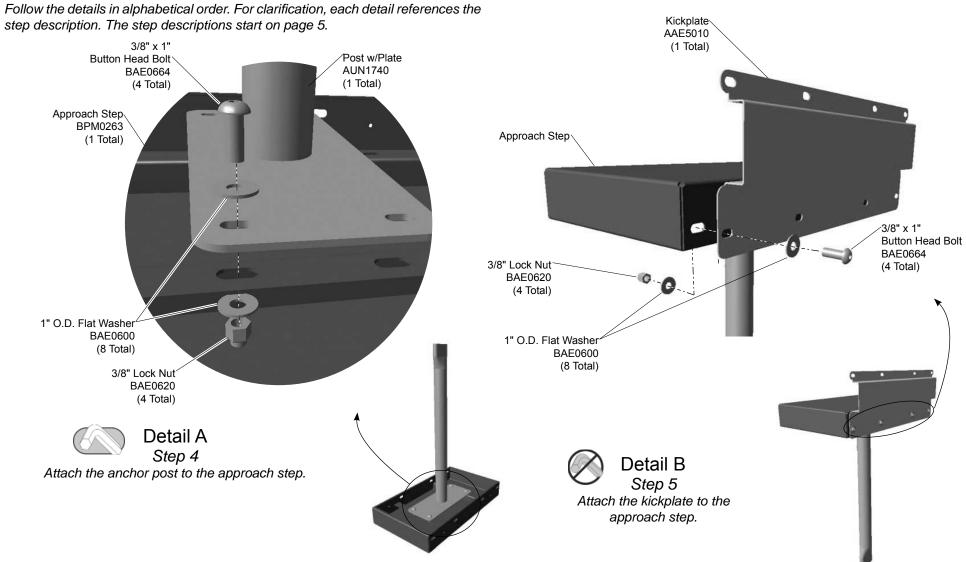
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



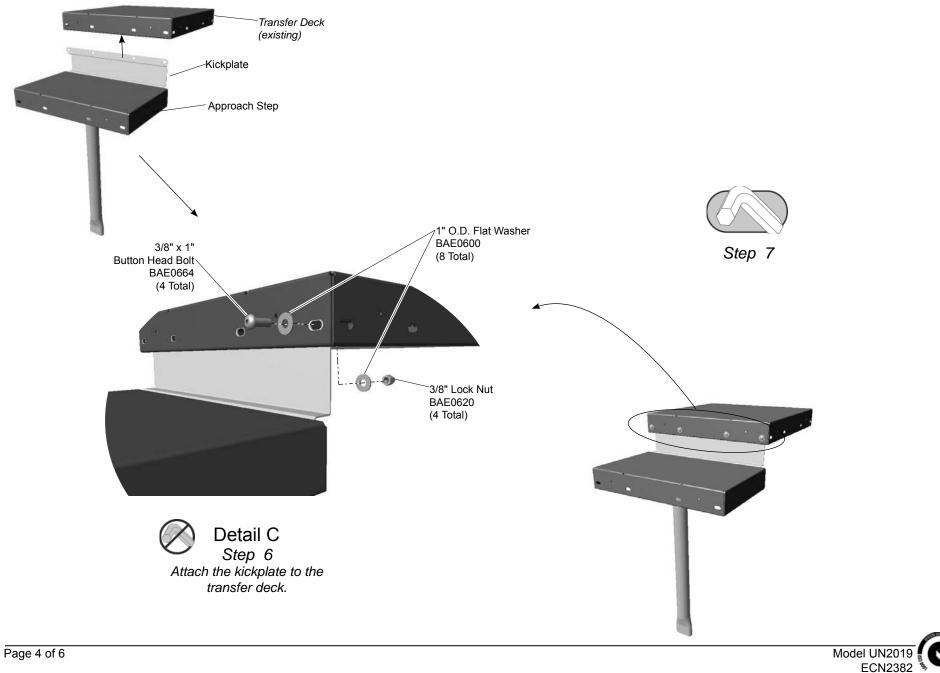












Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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





Model UN2019 ECN2382





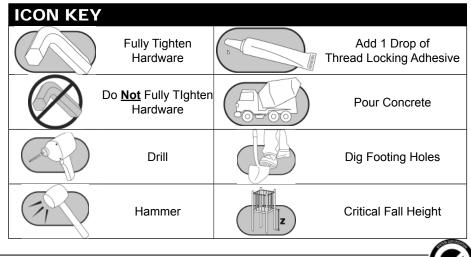
Assembly View (representative model)

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)

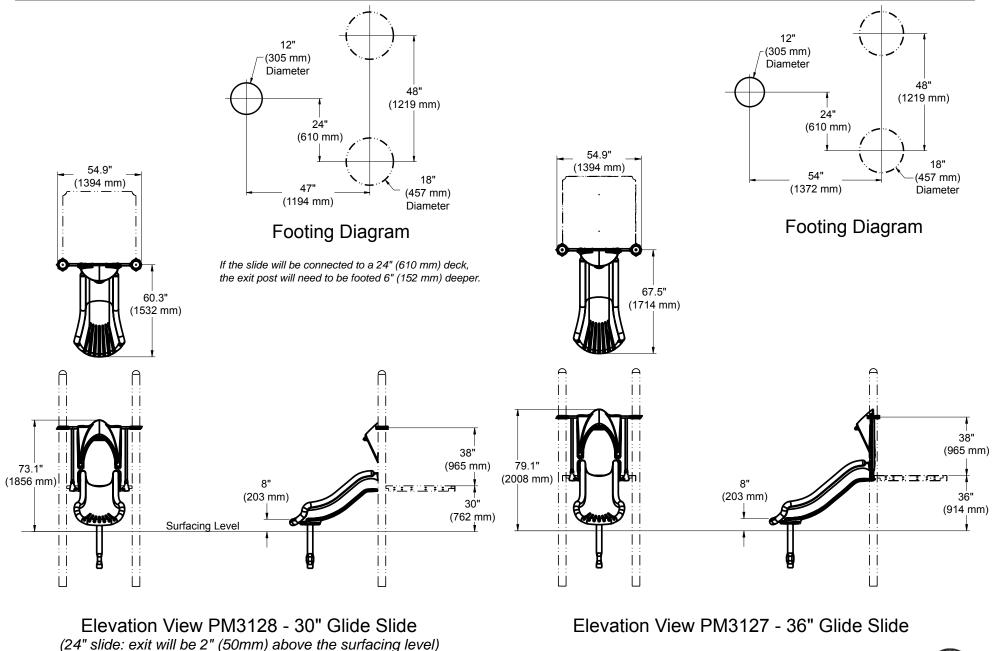
Playmakers[®] Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides

Installation Preparation

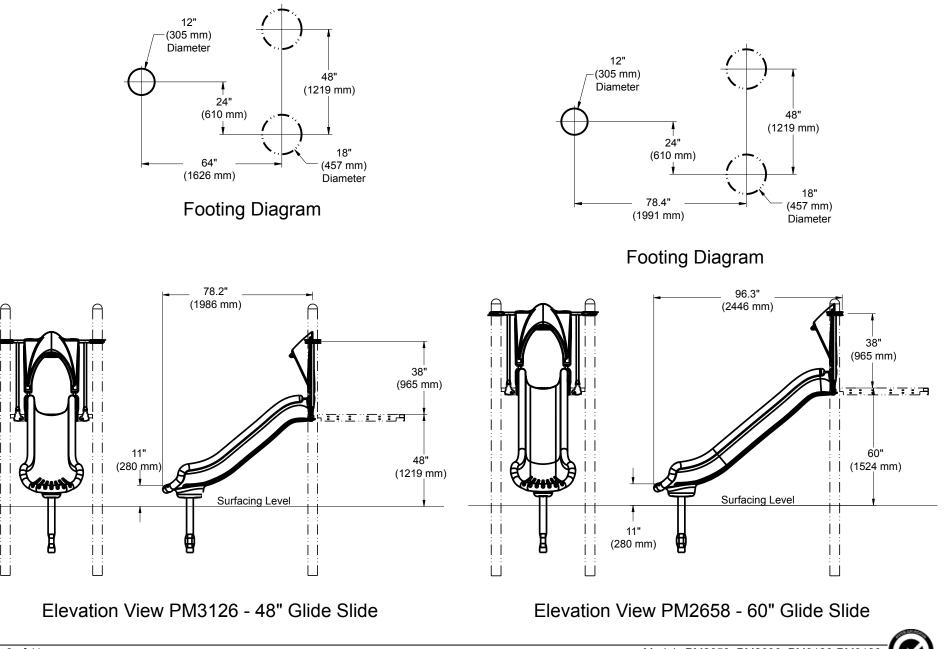
Recommended Crew:	Two (2) adults
Installation Time:	1.5 man-hours
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



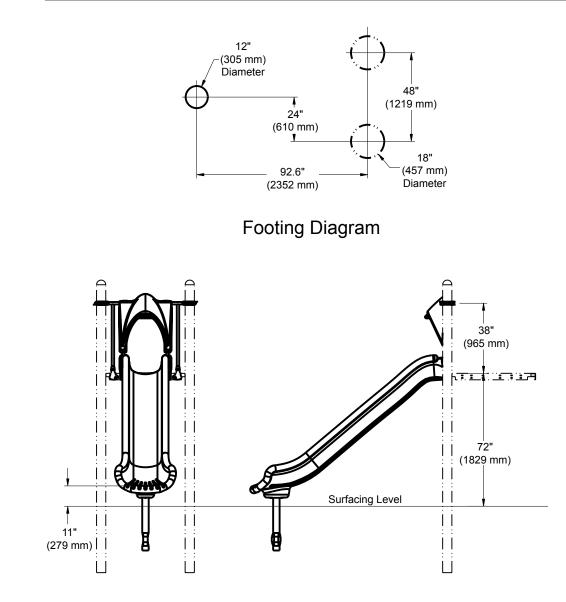








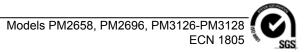


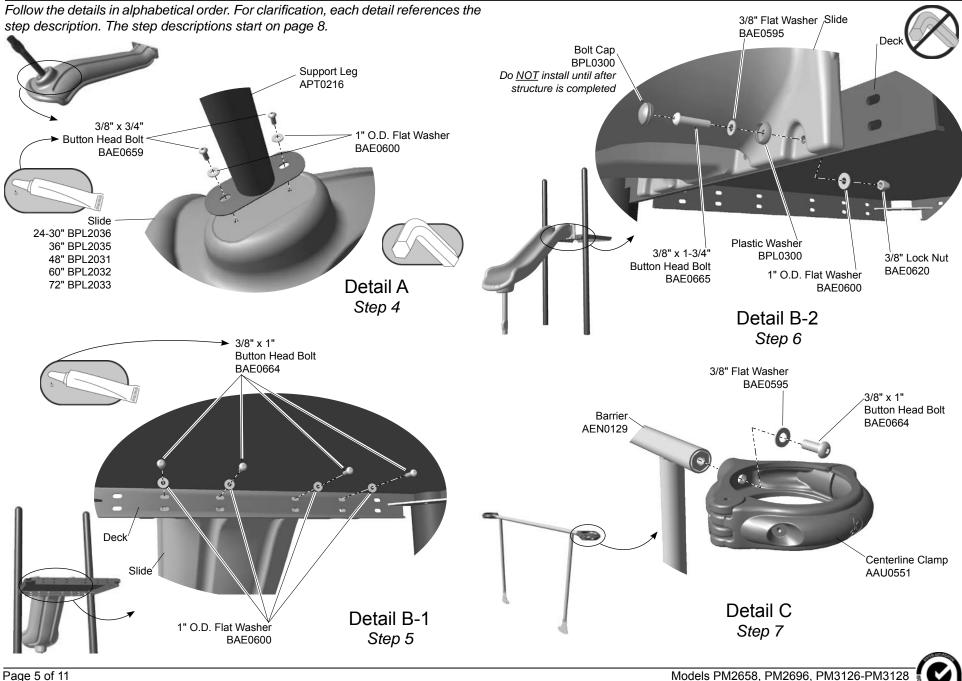


Elevation View PM2696 - 72" Glide Slide

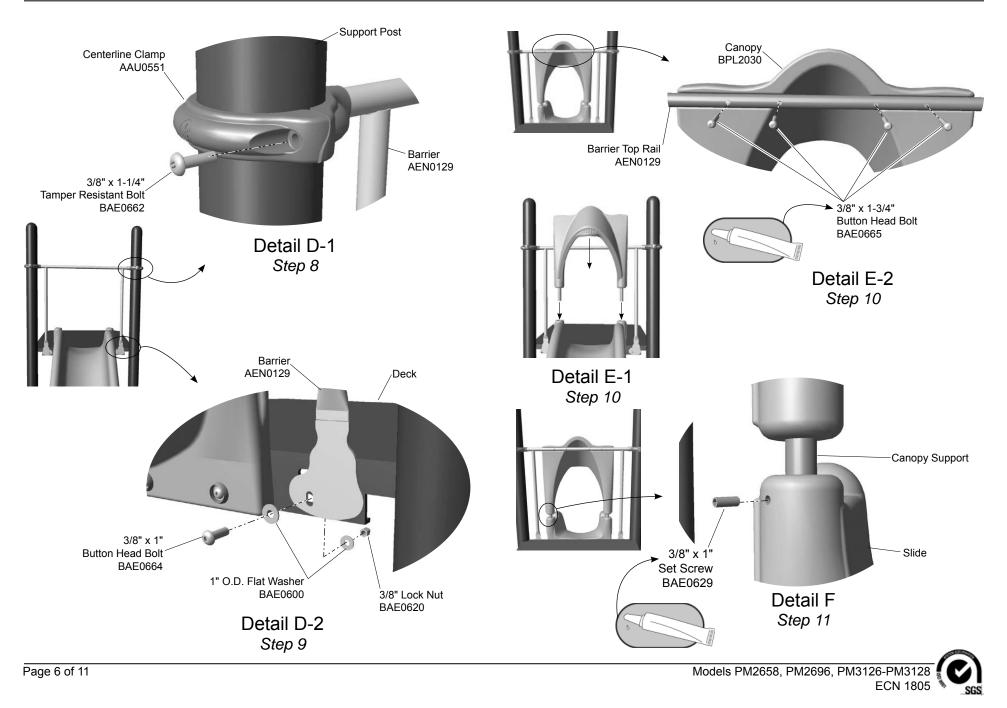


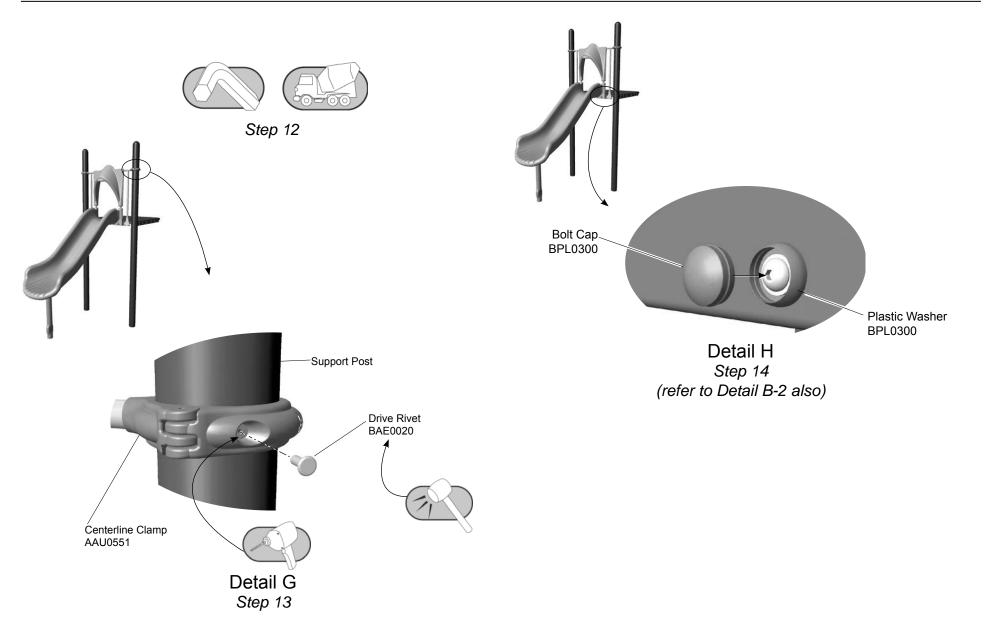
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

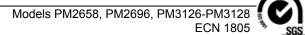




ECN 1805







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.

Models PM2658, PM2696, PM3126-PM3128

Torque specifications :

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

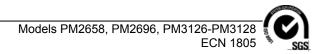


Step 13: Install drive rivets. See **Detail G.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the 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.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	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	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1	BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE
BPL2033	SLIDE - 72" SINGLE GLIDE	1	BPL2035	SLIDE - 36" SINGLE GLIDE
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL



QTY.

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" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1



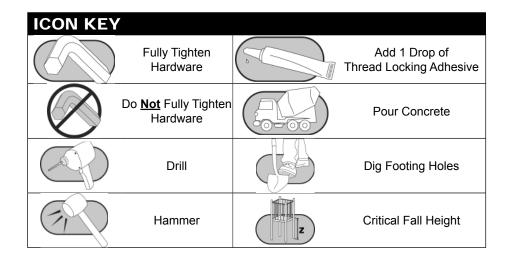


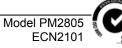


Playmakers[®] Model PM2805 Entry Support Bracket

Installation Preparation

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

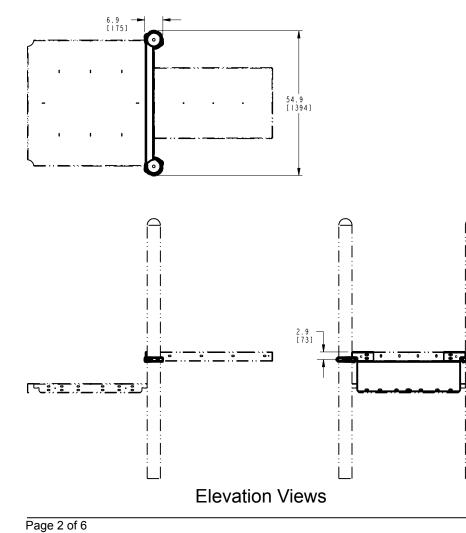






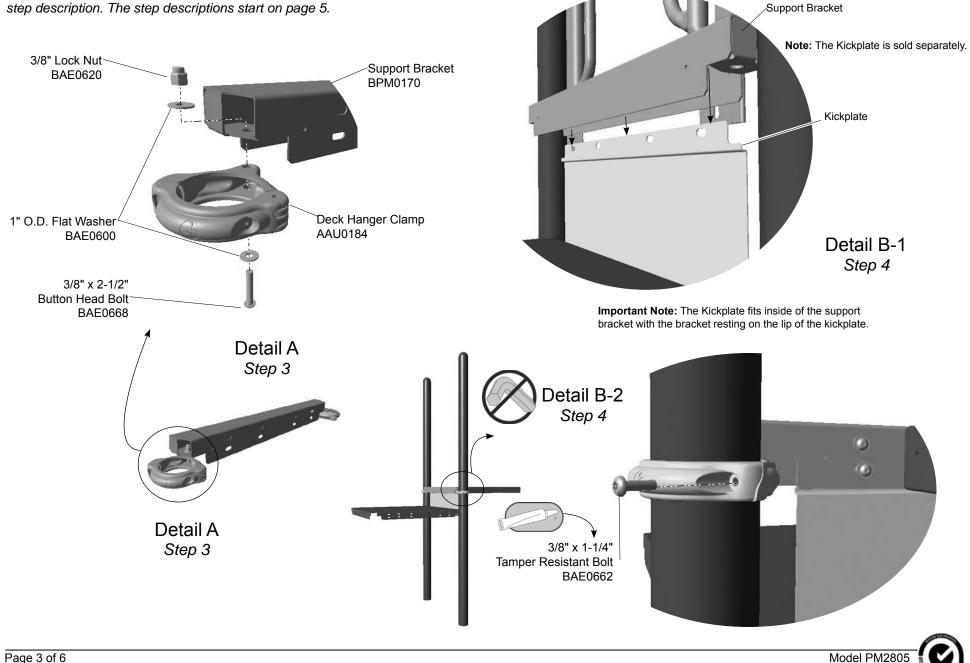
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



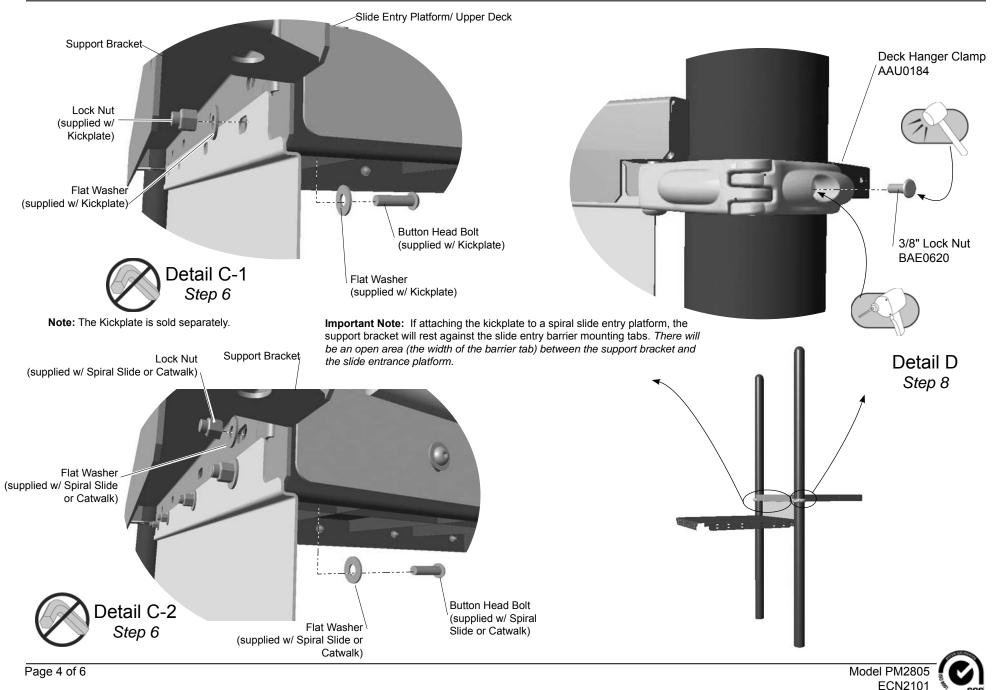




Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



ECN2101



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the deck clamps to the Entry Support Bracket.

Step 3: Attach the deck clamps to the entry support bracket. See **Detail A**. Select the entry support bracket, the deck clamps, and the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Orient the bracket as shown in **Detail A**. Attach the deck clamps as shown.

Attach the bracket assembly to the posts.

Step 4: Attach the bracket to the posts. See **Detail B-2** and **Side View**. Select the appropriate hardware. There is (1) one connection per clamp, (2) two total connections. Position the bracket between the support posts. Close the clamps around the posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Adjust the bracket so the surface is level. If applicable, the bracket should be aligned with the adjoining kickplate and/or the spiral slide/ catwalk platform (refer to **Detail B-1**).

Note: The Kickplate is sold separately.

Spiral Slide/Catwalk Attachment:

Step 5: Assemble the spiral slide or catwalk selected for attachment to the entry support bracket in accordance with the specific installation instructions.

Step 6: Connect the spiral slide platform or catwalk to the entry support bracket, using the appropriate hardware and instructions. See **Details C-1 and C-2** and **Side Views.** The upper edge of the kickplate will fit inside, and against, the narrower side of the support bracket (with the post cutouts).

Important Note: If attaching the kickplate to a spiral slide entry platform, the support bracket will rest against the slide entry barrier mounting tabs. *There will be an open area (the width of the barrier tab) between the support bracket and the slide entrance platform.*

Final Details.

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

Torque Specifications:

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

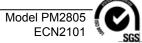
Step 8: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the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

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

PM2805 - ENTRY SUPPORT BRACKET

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	2
BPM0170	BRACKET - 45.00" x 3.00" x 3.44" STEP UP	1



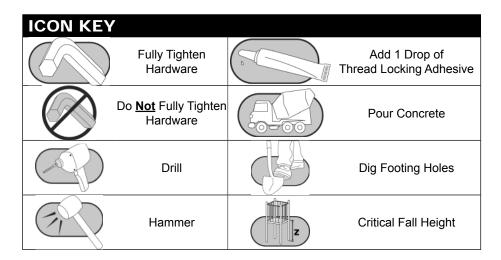


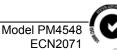


Playmakers[®] Model PM4548 Nature Hunt Panel Deck Level

Installation Preparation

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





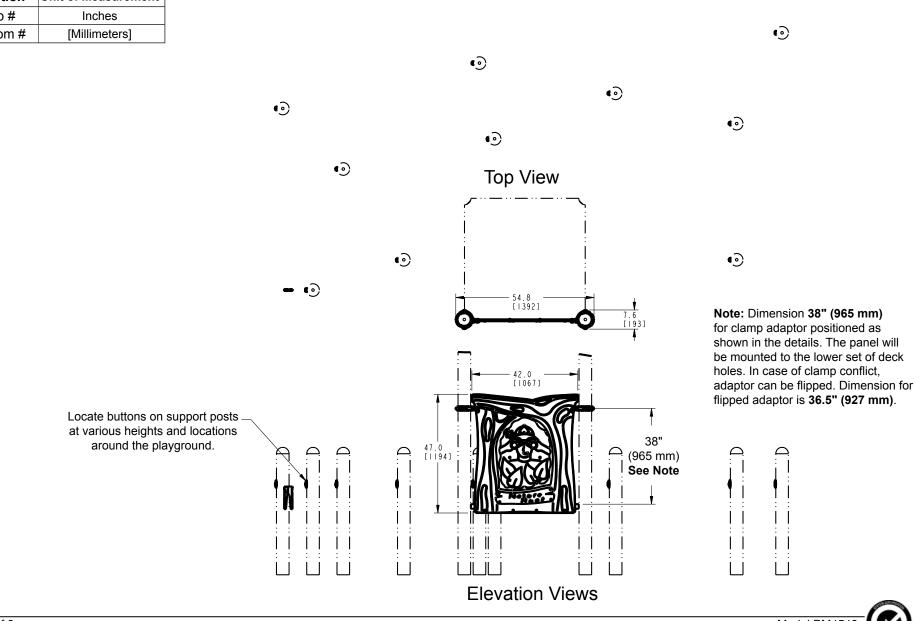




Nest Button (example of one of ten buttons)

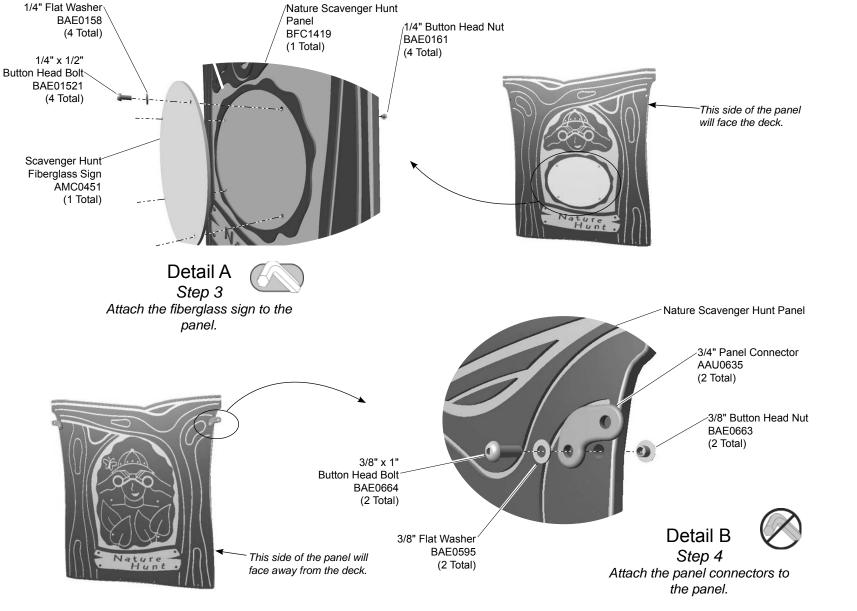
Assembly View

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

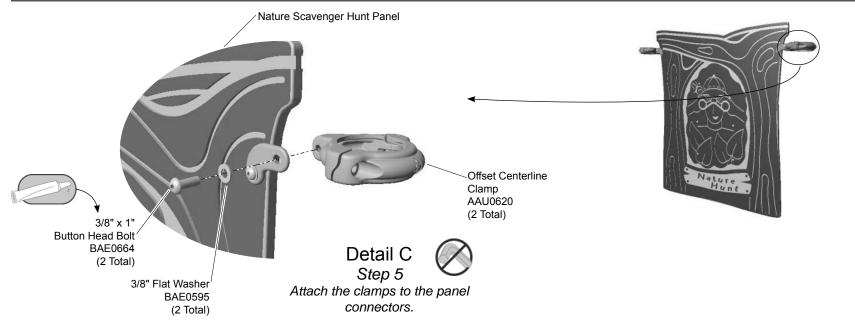


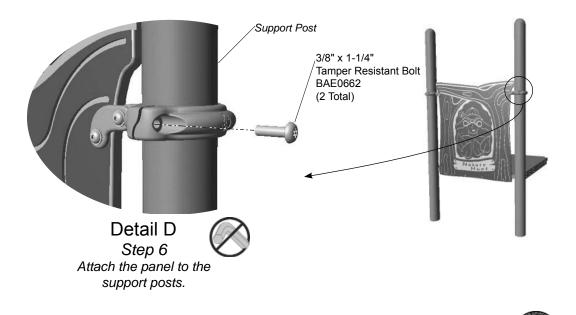
Model PM4548 ECN2071

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



Model PM4548 ECN2071

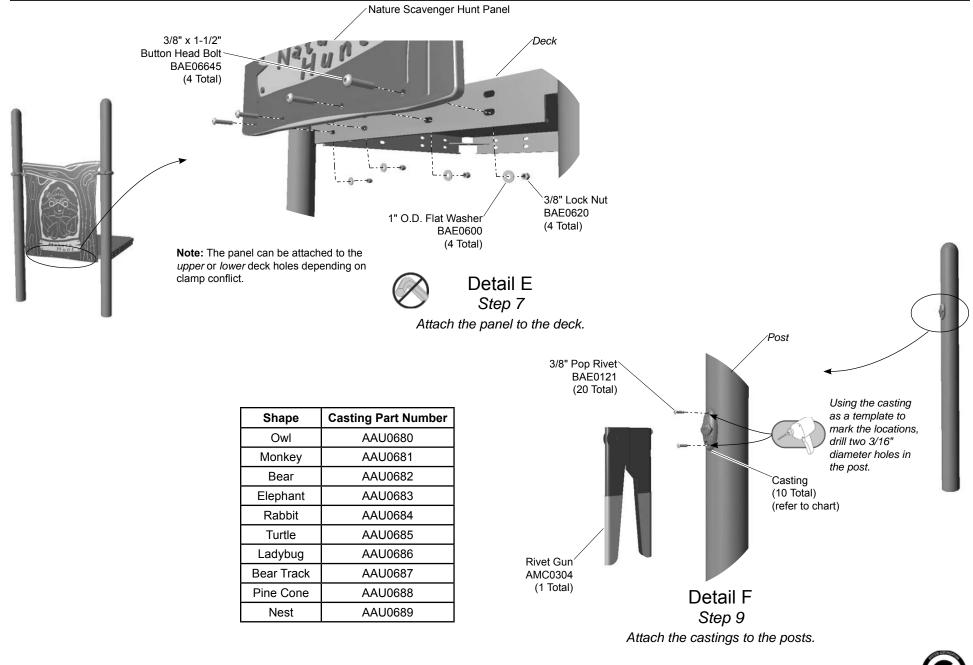


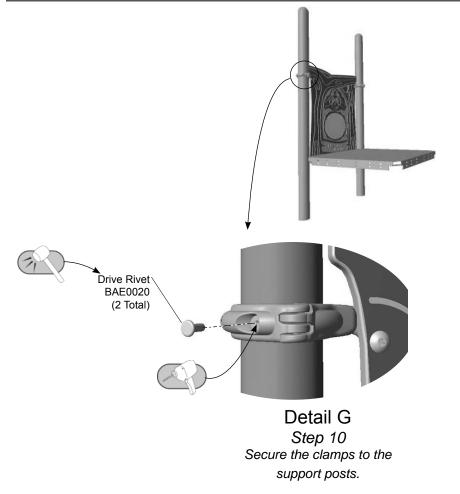


Model PM4548 ECN2071

SGS

Page 4 of 8







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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach the fiberglass sign to the panel. See **Detail A**. Position the fiberglass sign in the cutout section of the panel and attach as shown.

Step 4: Attach the panel connectors to the panel. See **Detail B**. Position the short leg on each panel connector against a top hole in the side of the panel that will face out from the deck. Align the connectors with the holes and attach as shown. Leave the connections loose.

Step 5: Attach the clamps to the panel connectors. See **Detail C**. Place the flat side of each clamp against the deck side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave the connections loose for alignment adjustment.

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

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

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

Step 7: Attach the panel to the deck. See **Detail E**. Attach the panel to the deck as shown.

Note: The panel can be attached to the *upper* or *lower* deck holes depending on clamp conflict.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Attach the castings to support posts.

Step 9: Attach the castings to the support posts. See **Detail F**. Choose various locations around the playground to locate the castings. Using the supplied 3/16" drill bit, drill a hole in the post at the appropriate location and insert a pop rivet through the casting into the post using the standard rivet gun supplied.

Step 10: Install drive rivets in the clamps. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

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

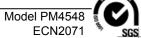
Step 11: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.



ZZPM4548 - NATURE HUNT PANEL (DECK LEVEL)

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AAU0680	CASTING - OWL	1
AAU0681	CASTING - MONKEY	1
AAU0682	CASTING - BEAR	1
AAU0683	CASTING - ELEPHANT	1
AAU0684	CASTING - RABBIT	1
AAU0685	CASTING - TURTLE	1
AAU0686	CASTING - LADYBUG	1
AAU0687	CASTING - BEAR TRACK	1
AAU0688	CASTING - PINE CONE	1
AAU0689	CASTING - NEST	1
AMC0304	TOOL - 3/16" STANDARD RIVET GUN	1
AMC0451	SIGN - NATURE SCAVENGER HUNT	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0121	RIVET - 3/16" x .56" ALUMINUM POP	20
BAE01521	BOLT - 1/4"-20 x 1/2" BUTTON HEAD - SS	4
BAE0158	WASHER - 1/4" SAE FLAT	4
BAE0161	NUT - 1/4"-20 x 7/16" BUTTON HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4
BAE1668	MISC - 3/16" DRILL BIT	1
BFC1419	PANEL - PM NATURE SCAVENGER HUNT (DECK)	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1







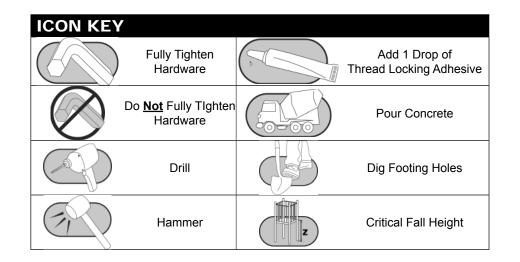
1111

Installation Instructions

Playmakers® Model PM4646 Storefront Panel

Installation Preparation

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

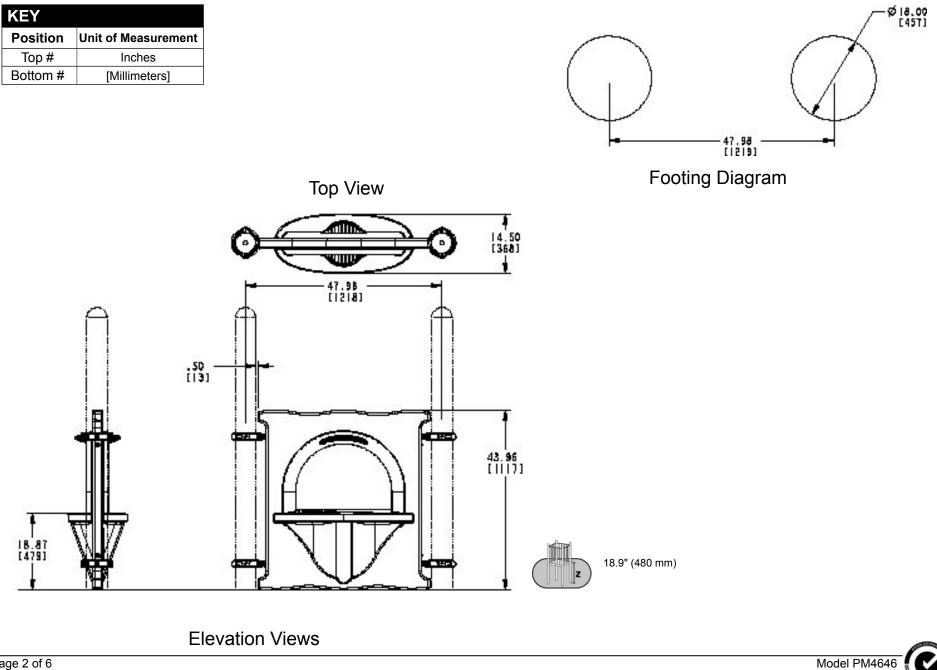




SGS

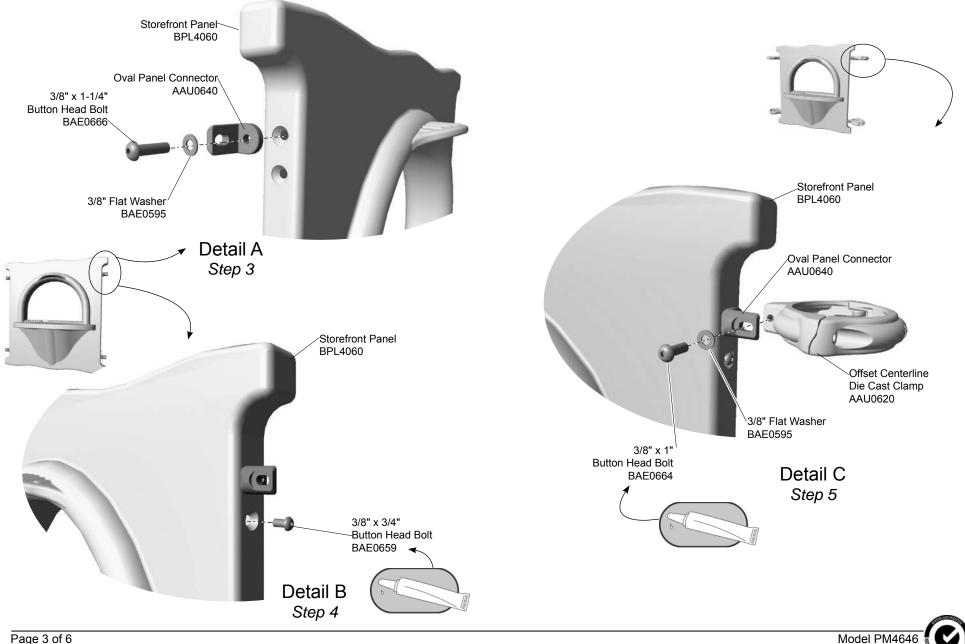


Assembly View

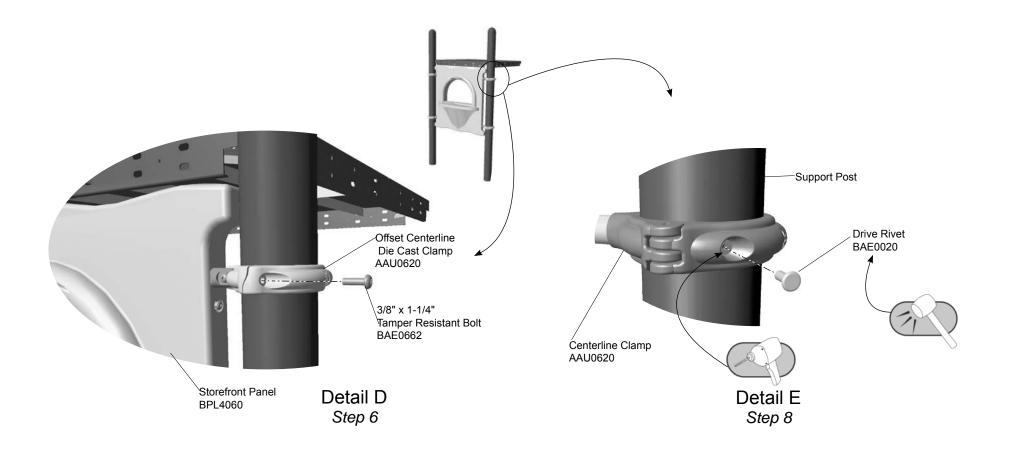


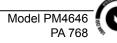
PA 768

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



PA 768





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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the oval panel connectors to the panel.

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

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

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

Attach the clamps to the panel.

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

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

Attach the panel to the support posts.

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

Final Details.

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

Torque Specifications:

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

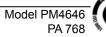
Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the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

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

PM4646 - STOREFRONT PANEL

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









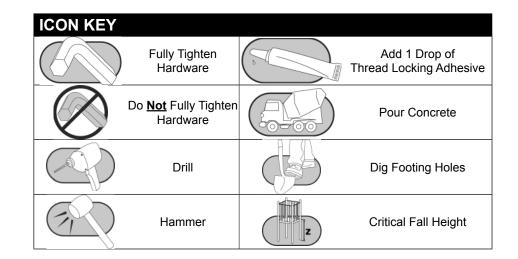
Assembly View

Installation Instructions

Playmakers[®] Model PM4288 Compliance Access Gate

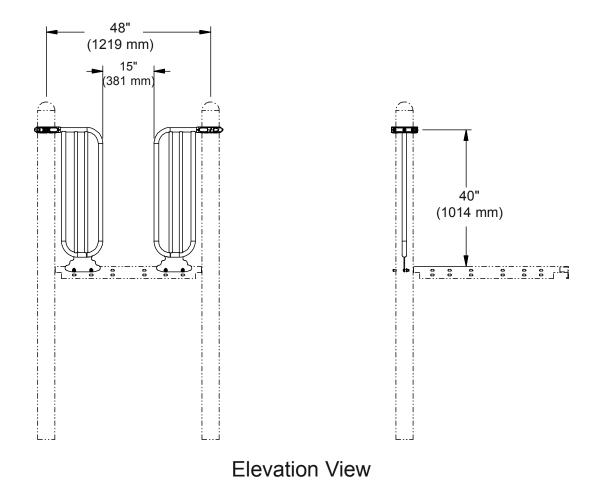
Installation Preparation

Recommended Crew:	One (1) adult
Use Zone:	Refer to Master Drawing
User Group Age (year	s): ASTM/CSA: 2-12, EN: 2-14

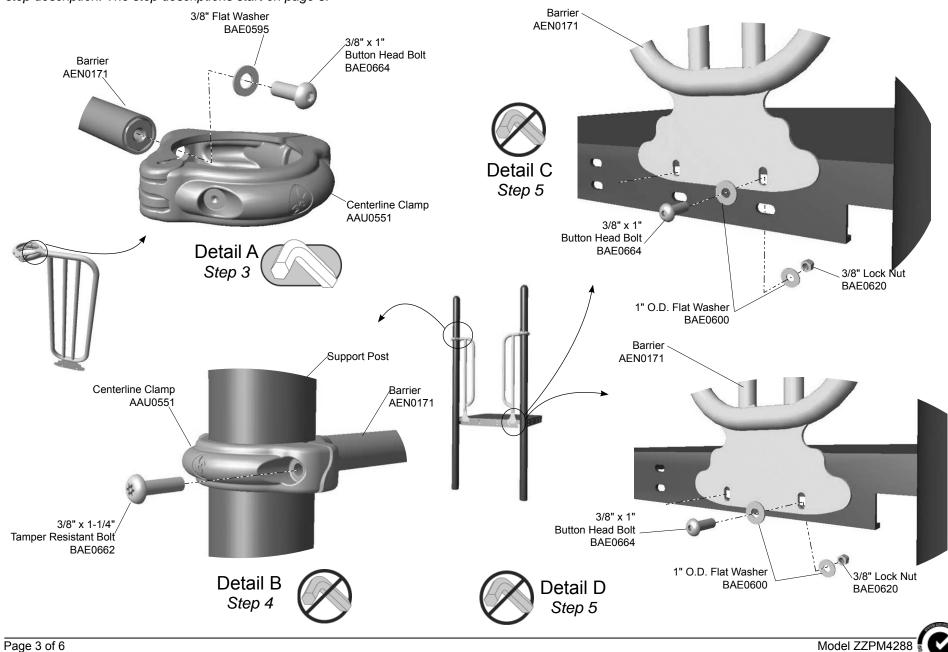




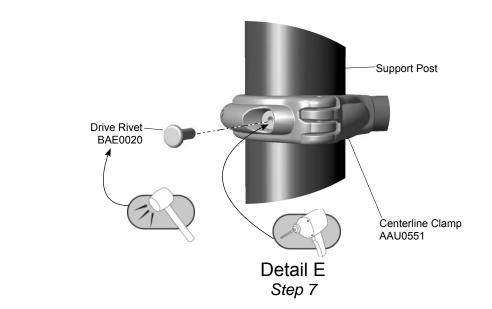
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



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



PA 783







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









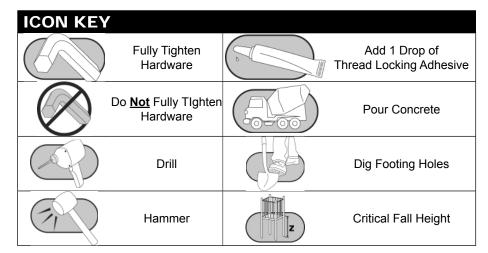
Assembly View (representative model)

Installation Instructions

Playmakers[®] Models PM6827 and PM6827S Wildwood Climber 5 ft. (1524 mm) Deck In-Ground and Surface Mount

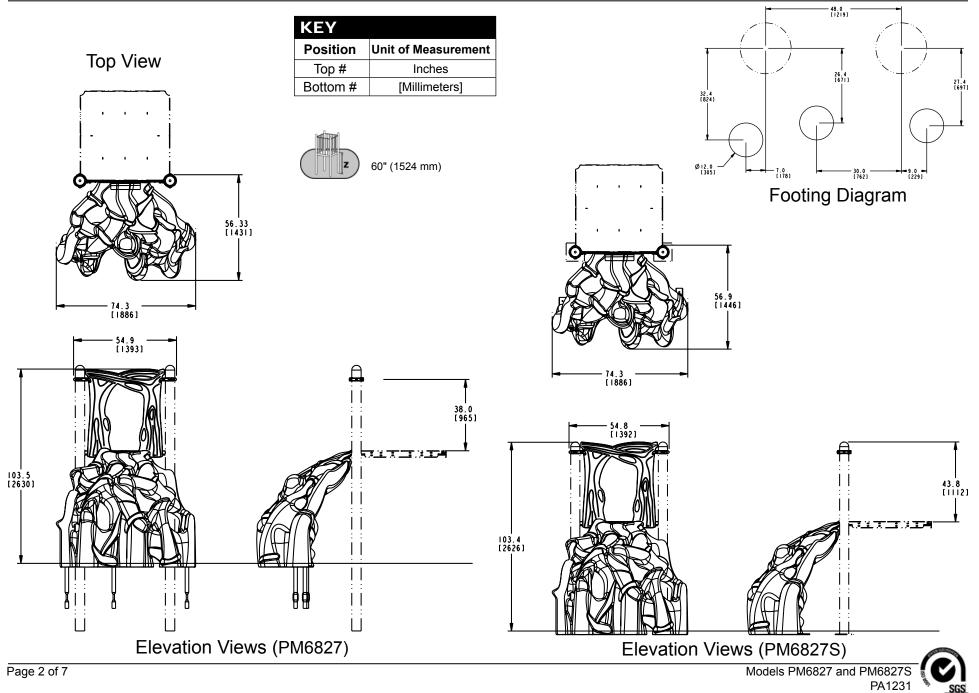
Installation Preparation

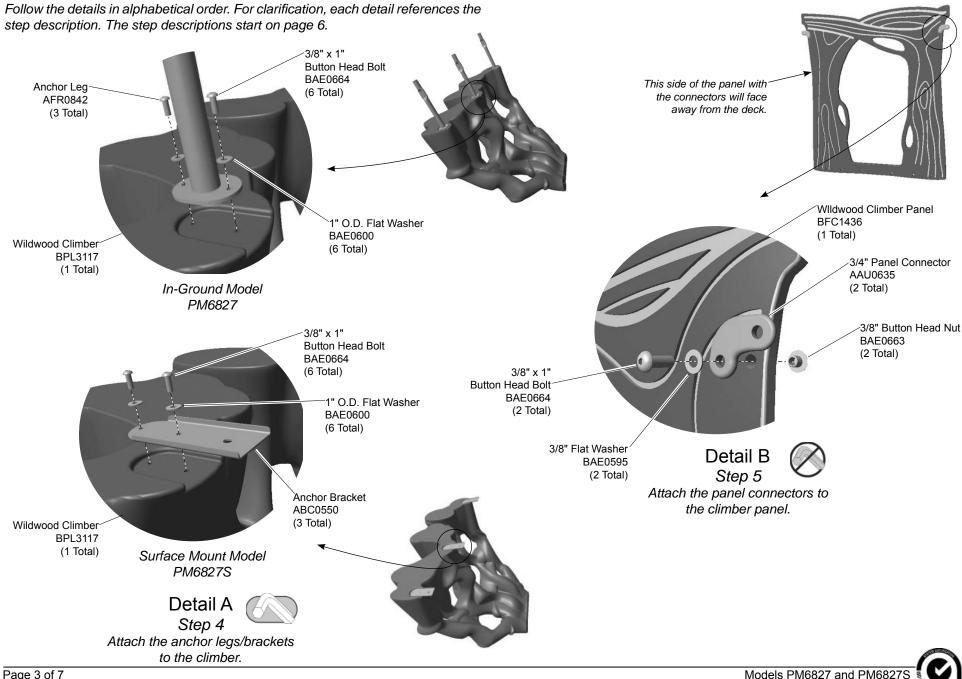
Recommended Crew:	Two (2) adults
Installation Time:	2.5 man-hours (in-ground)
Installation Time:	1 man-hour (surface mount)
Concrete Required:	0.09 cubic yard (0,06 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 5-12, EN: 6-14



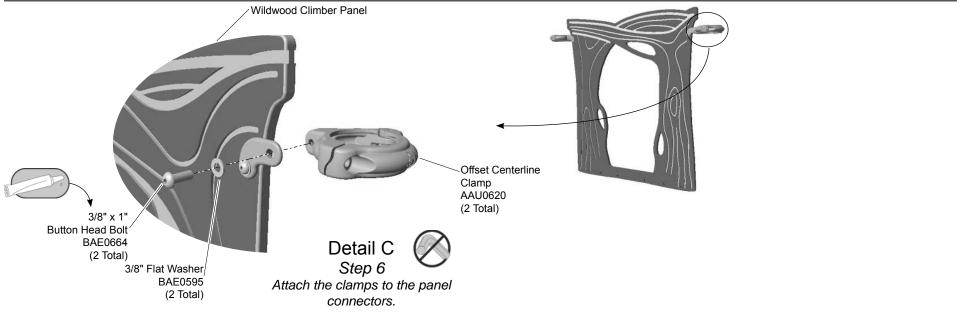


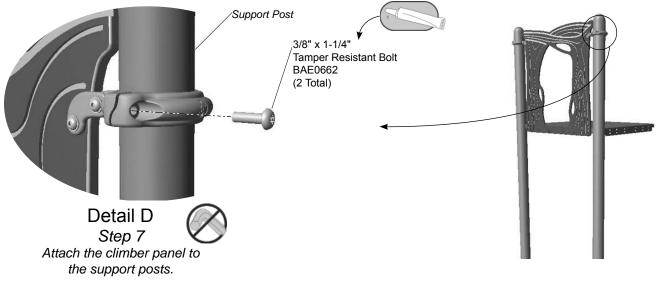


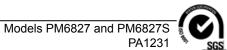


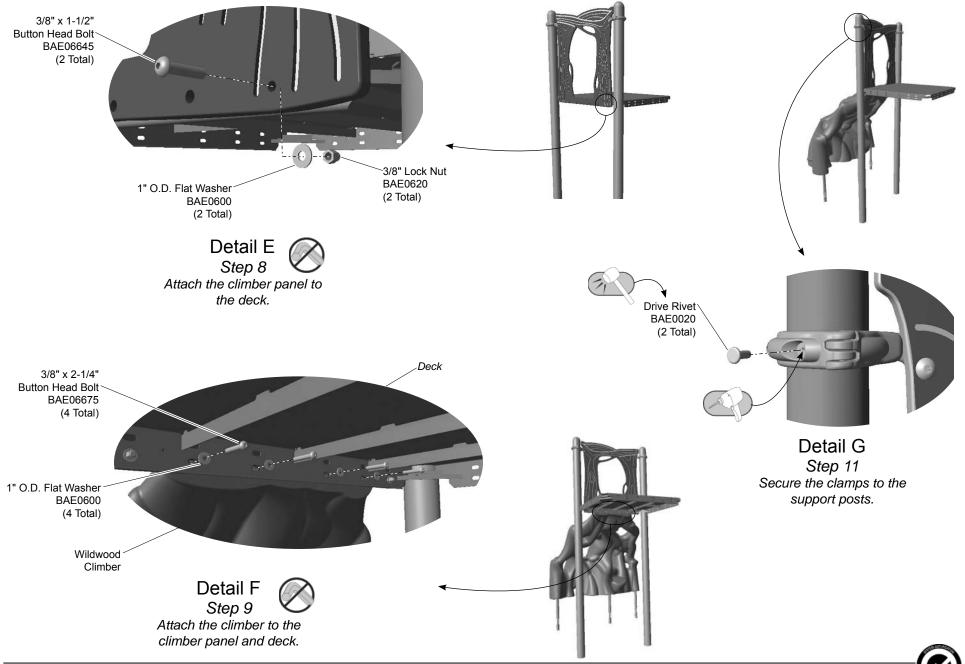


PA1231









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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate / prepare footings as shown in the **Footing Details** shown in the *Guidelines* at the beginning of the instruction booklet. Use the footing detail for a **Component** for the in-ground model.

Step 4: Attach the anchor leg, or bracket, to the Wildwood climber. See **Detail A** and reference the appropriate model. Position each anchor into an indent on the bottom of the climber and attach as shown. Fully tighten the connections according to the tightening torque specifications (See **Final Details**).

Step 5: Attach the panel connectors to the climber panel. See **Detail B**. Position the short leg on each panel connector against a top hole on the panel. Align the connectors with the holes and attach as shown. Leave the connections loose.

Step 6: Attach the clamps to the panel connectors. See **Detail C**. Place the flat side of each clamp against the deck side of a panel connector, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Leave the connections loose for alignment adjustment.

Step 7: Attach the panel to support posts. See **Detail D** and **Elevation View**. Position the panel between the support posts and close the clamps around the support post at the height indicated. Apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

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

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

Step 8: Attach the panel to the deck. See Detail E. Align the *bottom outside* holes in the panel with the *lower outside holes* in the deck and attach as shown.

Step 9: Attach the climber to the deck. See **Detail F**. Position the climber into, or onto, it's footings with the top of the climber against the panel and deck. Attach the climber and panel to the *lower holes in the deck* 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.

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

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

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

Step 11: 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, 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.

Models PM6827 and PM6



Page 6 of 7

PM6827 - WILDWOOD CLIMBER 5 ft. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
AFR0842	FRAME - 22.50" x 4.75" x 3.75"	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BFC1436	PANEL - ROOTS CLIMBER (PM)	1
BPL3117	CLIMBER - NATURE THEME ROOTS	1

PM6827S - SURFACE MOUNT WILDWOOD CLIMBER 5 ft. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	2
AAU0635	CONNECT - 3/4" PANEL	2
ABC0550	BRACKET50" x 3.75" x 10.00"	3
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - SS	4
BFC1436	PANEL - ROOTS CLIMBER (PM)	1
BPL3117	CLIMBER - NATURE THEME ROOTS	1





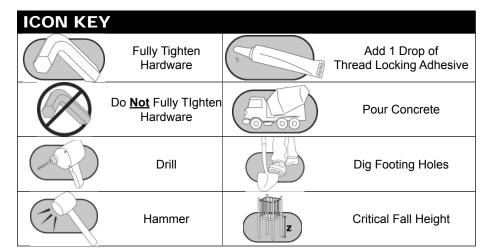
Models PM6827 and PM6827S PA1231

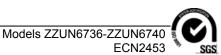


Universal Models UN6736-UN6740 Whirlwind 24 in. (610 mm) to 72 in. (1829 mm)

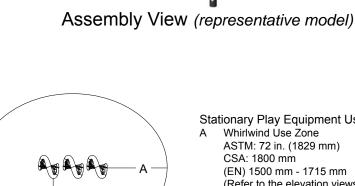
Installation Preparation

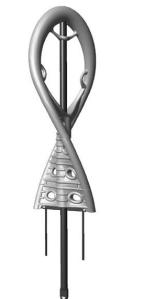
Recommended Crew:	Two (2) adults
Installation Time:	0.25 hour per section
	1 hour per footing
Concrete Required:	0.23 cubic yard (0,18 cubic meters)
Use Zone:	Refer to the Use Zone Diagram
User Age Group:	ASTM/CSA: 5-12, EN: 6-14

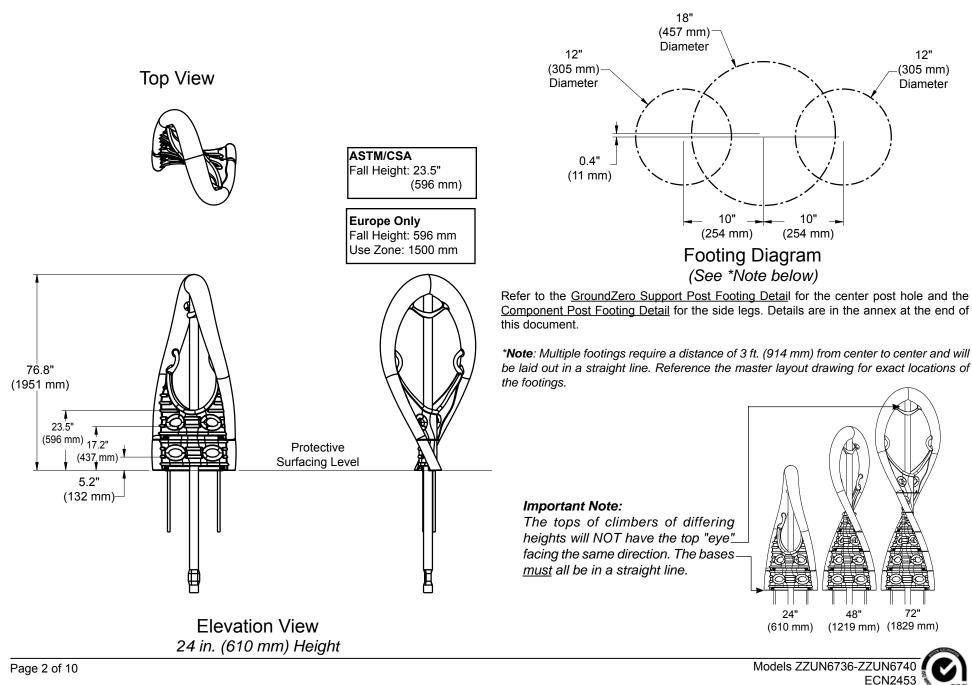


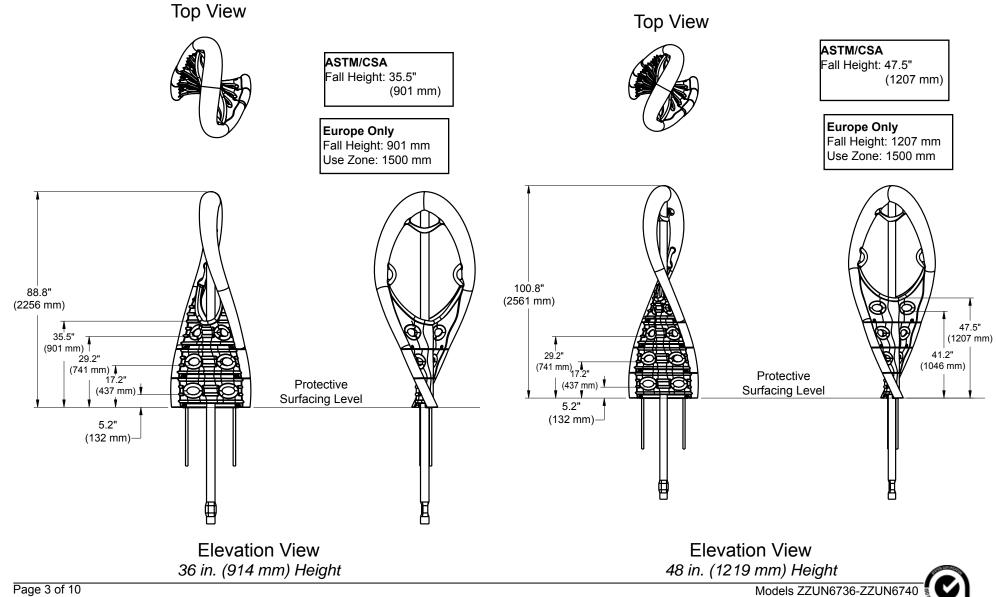


Stationary Play Equipment Use Zone Whirlwind Use Zone А ASTM: 72 in. (1829 mm) CSA: 1800 mm (EN) 1500 mm - 1715 mm (Refer to the elevation views pages 2-4)

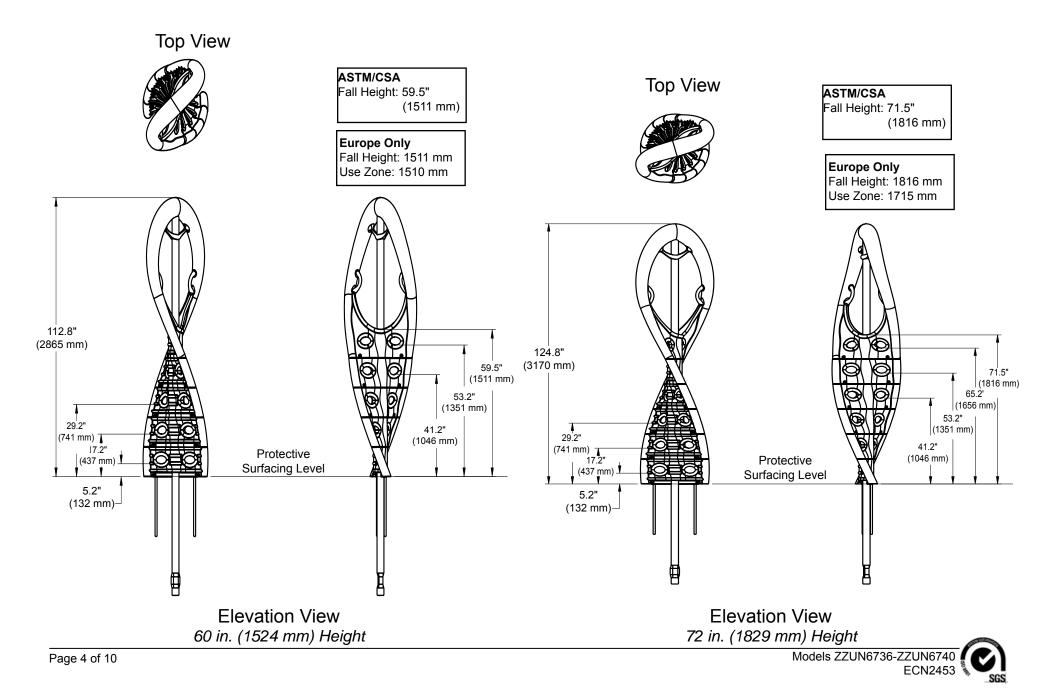


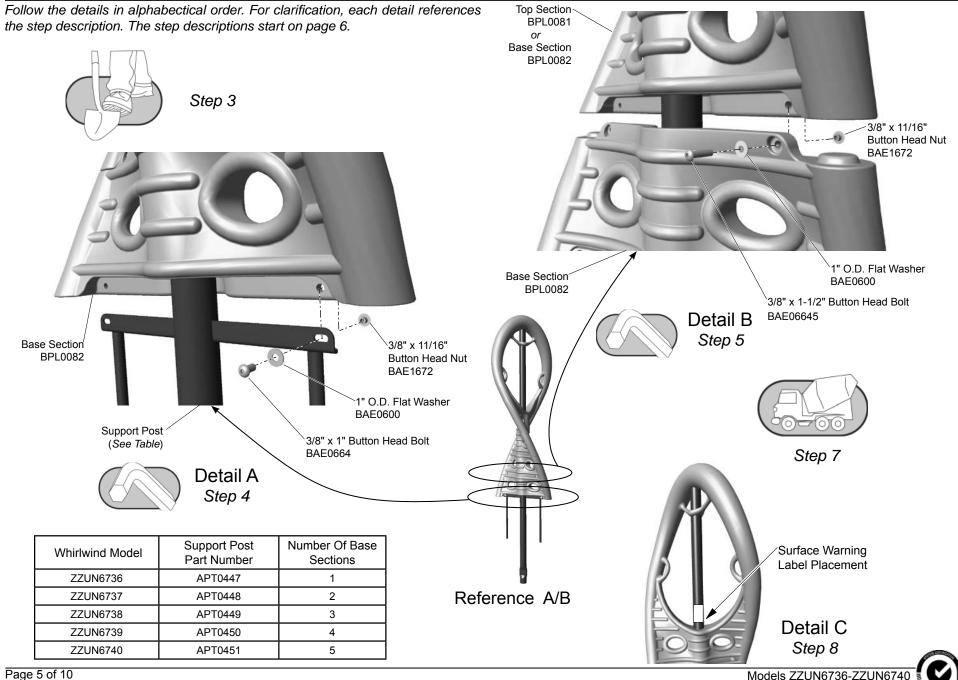






ECN2453





ECN2453

A Note 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 (800) number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate holes as shown in the **Footing Details**. See the note below the **Footing Diagram** for information on multiple footings. Reference the master layout drawing for exact number and location of the footings. Fully assemble each climber on the ground before placing in the footing.

Attach a base section to the support post.

Note: The sections have a *ribbed* side and a *smooth* side. Match the sides as each section is added.

Step 4: Attach a base section to the support post. See **Detail A**. Select the support post, a base section, and the appropriate hardware. Slide a base section onto the support post until fully seated on the bracket at the bottom of the post. Make connections as shown. There are (2) two connections. Fully tighten the connections.

Note: If the climber contains more than one base section, follow the next step for attaching the base sections together. *See the table on page 5 for correct number of base sections per model.* It the climber contains only one base section, go to **Step 6** for attachment of the top section.

Attach another base section to the climber.

Step 5: Attach another base section to the climber. See **Detail B**. Select another base section and the appropriate hardware. Slide the next base section onto the top of the lower section and make connections as shown. There are (2) two connections. Fully tighten the connections ensuring the sections are fully seated with no gaps showing. Repeat this procedure for the remaining base sections.

Attach the top section to the climber.

Step 6: Attach the top section to the climber. See **Detail B**. Select the top section and the appropriate hardware. Slide the top section onto the top of the lower section and make connections as shown. There are (2) two connections. The top of the support post will fit into the upper portion of the top section. Fully tighten the connections ensuring the sections are fully seated.

Final Details.

Step 7: With adequate manpower, place the climber into the prepared footing. Plumb and level the entire component. Block and brace for concrete. Pour the concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Apply the Surface Warning label.

Step 8: Apply the Surfacing Warning label to the climber post at the place designated in **Detail C**. Surface must be clean and dry before applying the label. Remove back sheet from label and apply label in position. Use the back sheet to rub the label until it's smooth. Apply one label per grouping of climbers. For areas complying with ASTM and CSA, an age appropriate label should be applied to the structure at a visible location.



ZZUN6736 - 24 in. (610 mm) WHIRLWIND

ZZUN6739 - 60 in. (15241mm) WHIRLWIND

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
APT0447	POST - 3-1/2" O.D. x 120.00" w/ BRACKET	1	APT0450	POST - 3-1/2" O.D. x 156.00" w/ BRACKET	1
BAE0600	WASHER - 1" O.D. FLAT	4	BAE0600	WASHER - 1" O.D. FLAT	10
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	2	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	8
BAE0922	TOOL - TT 45 L WRENCH	2	BAE0922	TOOL - TT 45 L WRENCH	2
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	4	BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BPL0081	CLIMBER - TWISTING TOP	1	BPL0081	CLIMBER - TWISTING TOP	1
BPL0082	CLIMBER - TWISTING BASE	1	BPL0082	CLIMBER - TWISTING BASE	4
ALB0025	LABEL - ASTM AGE APPROPRIATE	1	ALB0025	LABEL - ASTM AGE APPROPRIATE	1

ZZUN6737 - 36 in. (914 mm) WHIRLWIND

PART NO.	DESCRIPTION	QTY.	PAR
APT0448	POST - 3-1/2" O.D. x 132.00" w/ BRACKET	1	APT0
BAE0600	WASHER - 1" O.D. FLAT	6	BAE0
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2	BAE0
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	4	BAE0
BAE0922	TOOL - TT 45 L WRENCH	2	BAE0
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	6	BAE1
BPL0081	CLIMBER - TWISTING TOP	1	BPL0
BPL0082	CLIMBER - TWISTING BASE	2	BPL0
ALB0025	LABEL - ASTM AGE APPROPRIATE	1	ALB0

ZZUN6740 - 72 in. (18291mm) WHIRLWIND

<u>.</u>	PART NO.	DESCRIPTION	QTY.
	APT0451	POST - 3-1/2" O.D. x 168.00" w/ BRACKET	1
	BAE0600	WASHER - 1" O.D. FLAT	12
	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	10
	BAE0922	TOOL - TT 45 L WRENCH	2
	BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	12
	BPL0081	CLIMBER - TWISTING TOP	1
	BPL0082	CLIMBER - TWISTING BASE	5
	ALB0025	LABEL - ASTM AGE APPROPRIATE	1

ZZUN6738 - 48 in. (1219 mm) WHIRLWIND

PART NO.	DESCRIPTION	QTY.
APT0449	POST - 3-1/2" O.D. x 144.00" w/ BRACKET	1
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	6
BAE0922	TOOL - TT 45 L WRENCH	2
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	8
BPL0081	CLIMBER - TWISTING TOP	1
BPL0082	CLIMBER - TWISTING BASE	3
ALB0025	LABEL - ASTM AGE APPROPRIATE	1



Models ZZUN6736-ZZUN6740 ECN2453



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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.

Fasteners

Inspect for loose fasteners. Tightening torque specifications are:

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

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

Welds

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

Finish

Inspect metal parts for finish damage.

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

Footings

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

Surfacing

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

Replacement Parts

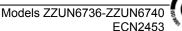
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service at 1-800-233-8404 for replacement part.

Equipment Maintenance

Universal Models UN6736-UN6740 Whirlwind 24 in. (610 mm) to 72 in. (1829 mm)







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	Inspe Code	ection Date	Date Repairs Completed	
Inspect plastic parts for damage.	Medium				Inspection Codes
Inspect metal parts for structural and finish damage.	Medium				
Inspect for loose, missing, worn, or broken fasteners.	High				P = Pass F = Fai $NA = Not Applicable$
Inspect footing to insure support is secure and footing is not damaged.	Low				
Inspect surfacing to insure proper depth and distribution.	High				
]
Inspector: Name (Please Print) Signature:	÷	•	•		Date://

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date
Repairer: Name (Please Print)	Signature:	Da	ate: / /





SUPERVISION INSTRUCTIONS PLAYWORLD SYSTEMS® HORIZONTAL LOOP RUNG LADDER



Attention Owner

The Horizontal Loop Rung Ladder is designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Horizontal Loop Rung Ladder can result in serious accidents. The following rules for the use of the Horizontal Loop Rung Ladder must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Horizontal Loop Rung Ladder is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the horizontal hand rung assembly.
- Users must move in same direction across the length of the Horizontal Loop Rung Ladder assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when

rungs are dry.

- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Horizontal Loop Rung Ladder in accordance with the applicable standard in your area, appropriate for the fall height of the Horizontal Loop Rung Ladder.
- Review and familiarize warning document supplied with each Horizontal Loop Rung Ladder shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it. Playworld Systems accepts <u>NO</u> responsibility for improper use.



SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder



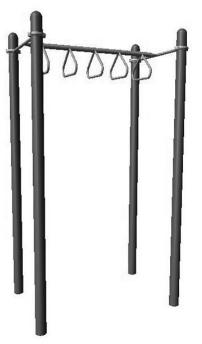
Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet







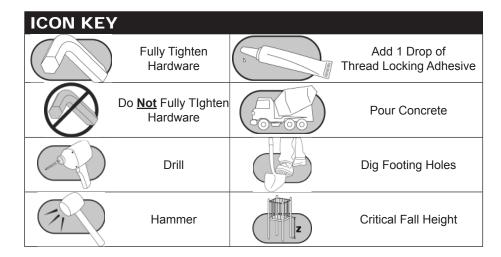
Assembly View

Installation Instructions

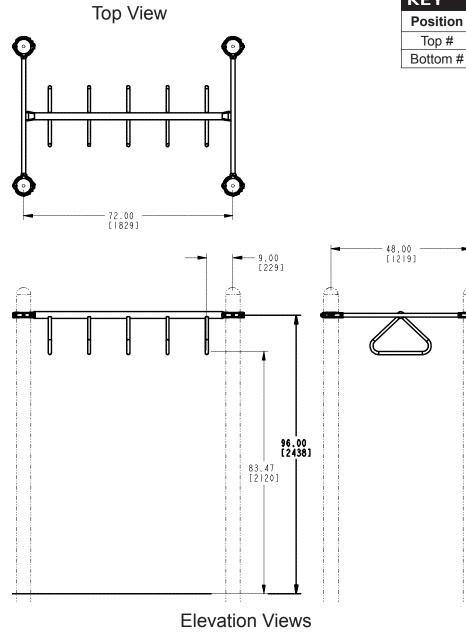
Playmakers[®] Model PM5780 6 ft. (1829 mm) Horizontal Loop Ladder

Installation Preparation

Recommended Crew:	. Three (3) adults
Installation Time:	. 1 man-hour
Use Zone:	. Refer to Master Drawing
User Group Age (years):	. ASTM/CSA: 5-12, EN: 6-14







KEYPositionUnit of MeasurementTop #InchesBottom #[Millimeters]

Notes:

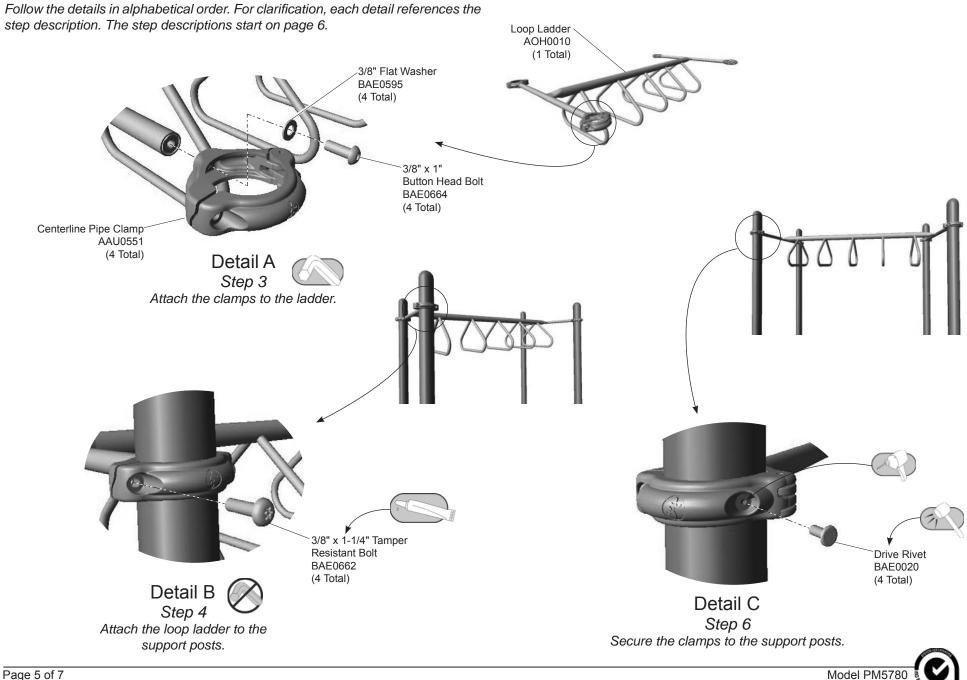
• Hand-gripping component bars should be a maximum of 84" (2135 mm) above the protective surfacing.

• Height of hand-gripping component bars may vary due to platform height.



83" (2110 mm) (Maximum 84" - 2135 mm)





ECN434

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach the clamps to the ladder. See **Detail A**. Position each clamp against an open end of the ladder rails with the hinges to the inside and attach as shown. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Step 4: Attach the loop ladder to the support posts. See **Detail B**. With adequate manpower, position the ladder between the supports posts, apply a drop of thread locking adhesive to the bolt threads and attach as shown at the height shown in the **Elevation View**.

Note: Make sure to reference the *Notes* on the Elevation View page.

Final Details.

Step 5: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

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

PM5780 - 6 ft. (1829 mm) HORIZONTAL LOOP LADDER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AOH0010	LADDER - 41" x 72" LOOP	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAD0085	THREAD LOCKING ADHESIVE	1





Page 7 of 7



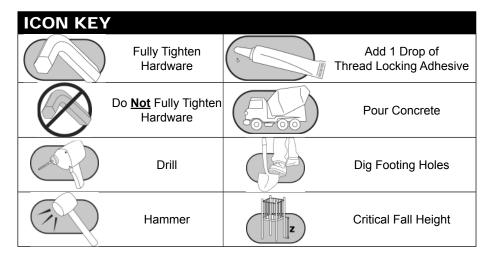
Playmakers® Models PM5950,

PM5960, and PM5970

1, 2, and 3 Rung Overhead Event Access Ladder 12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

Installation Preparation

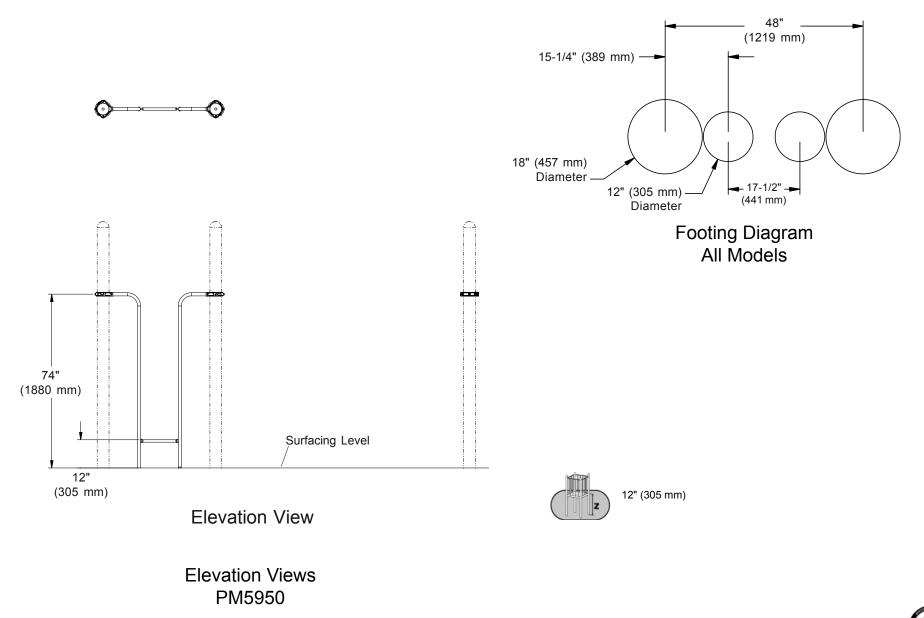
Recommended Crew:	One (1) adult
Installation Time:	1.5 hours
Concrete Required:	0.06 cubic yard (0,04 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 5-12, EN: 2-14

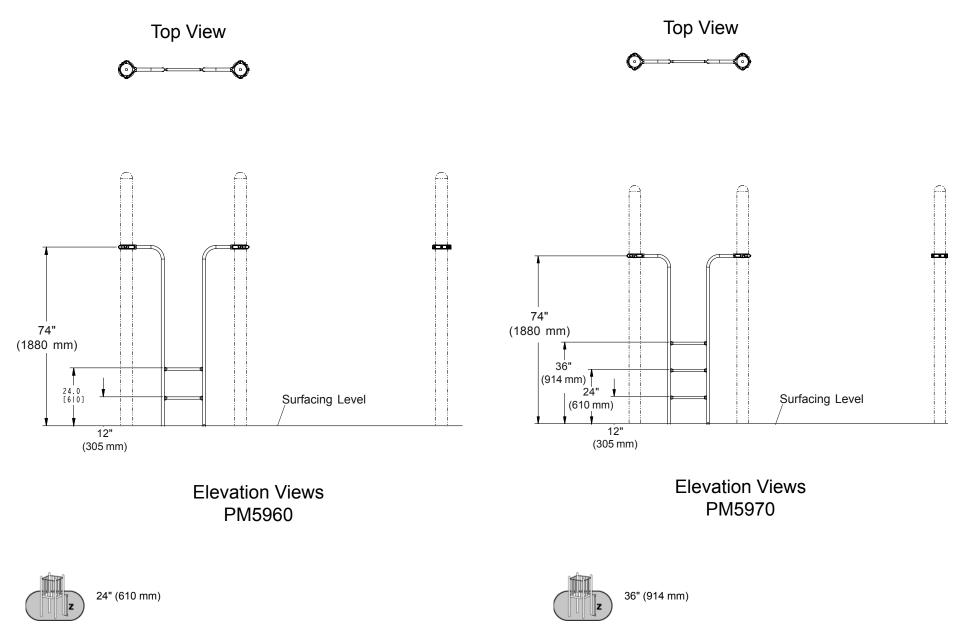




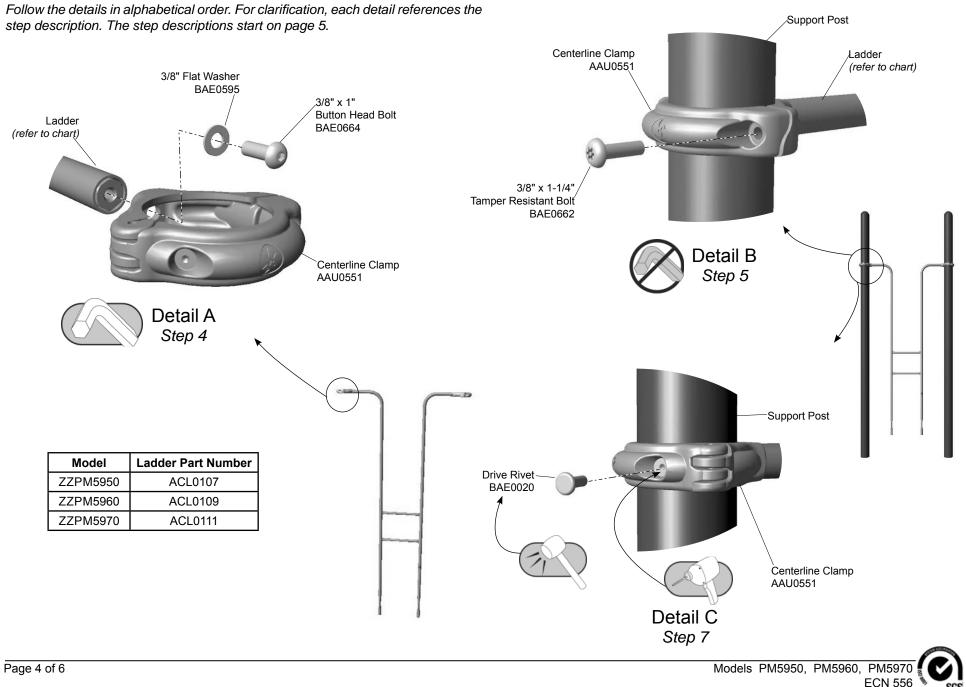
Model	Deck Height
ZZPM5950	12" (305 mm)
ZZPM5960	24" (610 mm)
ZZPM5970	36" (915 mm)

Assembly View (representative model)









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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Attach the clamps to the access ladder.

Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.

Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.

Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.

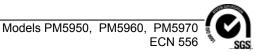
Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

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

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

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



PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2





INSTALLATION INSTRUCTIONS PLAYMAKERS® MODEL PM6857

CRITTER CROSSING



Recommended Crew:	Two(2) adults
Installation Time:	1 man-hour
Weight:	60.9 Lbs. (27.7 Kilos)
Use Zone:	72 in. (1829 mm) all sides
User Group:	Ages 5 - 12 years

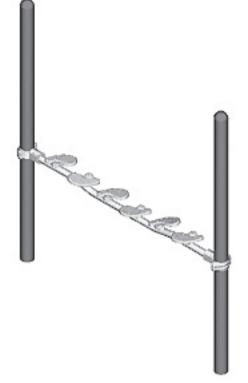
Torque Specification:

Bolts & Nuts:	Snug tighten and
Set Screws:	tighten an additional one-half turn. Snug tighten and
	tighten an additional full turn.

Maintenance . . .

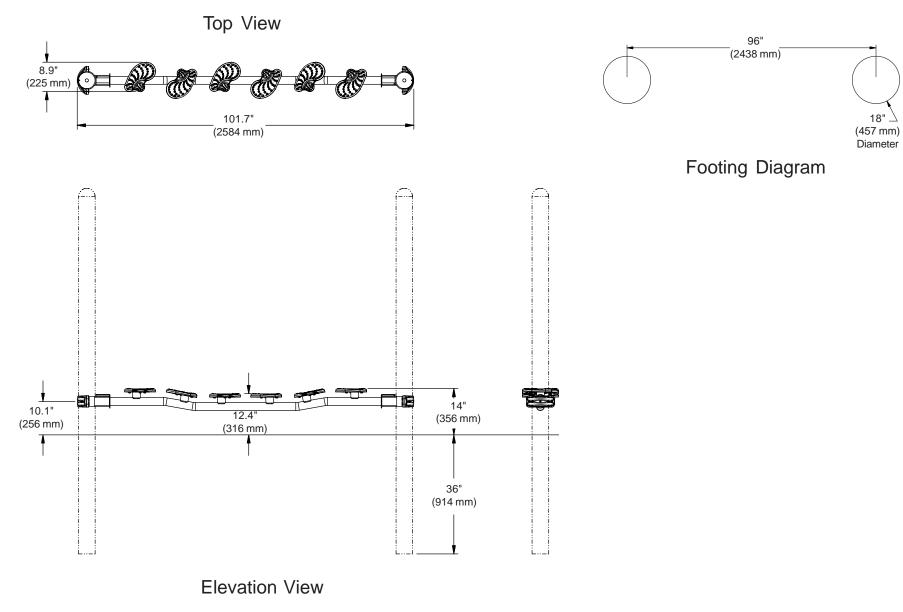
- Playworld Systems[®] strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems[®] strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.





Assembly View

Ground ZerO[®]





INSTALLATION

✓Notes Before You Begin:

• Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

• If during the installation process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.

Carefully read and understand these installation instructions before you begin.

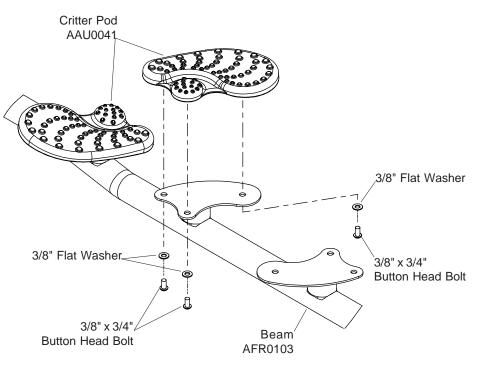
__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

___Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

__Step 3: Determine the proper placement of the component based on your master plan view.

Attach the critter pods to the beam.

___Step 4: Attach the critter pods to the beam. See **Detail A** and **Top View**. Select the beam, (6) six critter pods, (18) eighteen 3/8" x 3/4" button head bolts, and (18) eighteen 3/8" flat washers. Place each critter pod onto the mounting plate on the beam, and align the holes. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, up through the plate and thread into the critter pod. There are (3) three connections per pod. Fully tighten the bolts according to the torque specifications on page 1 of these instructions.



Detail A



Attach the torsion housing to the beam.

___Step 5: Attach the torsion housing to the beam. See **Detail B**. Select the beam assembly, (2) two torsion housings, and (8) eight urethane rods. The rounded (top) portion of the torsion housing should be on the same side as the pods. Place a urethane rod into each of the lower corners of a torsion housing. Partially slide one end of the beam assembly into the housing. Insert a urethane rod into each of the upper corners of the housing. Push the beam into the housing until the round plate is flush with the edge of the housing. Repeat for the opposite side.

Hint: The urethane rods install more easily if they are wet.

Attach the beam to the support posts.

___Step 6: Attach the beam assembly to the support posts. See **Detail B** and **Assembly View**. Select the beam assembly, (2) two wide aluminum clamps, (8) eight 3/8" x 1-1/4" tamper resistant bolts and (8) eight 3/8" flat washers. Position the beam assembly between the support posts with the critter pods facing up. Place a clamp band around the post and align with the band on the torsion housing. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, through the housing band, and thread into the clamp band. Start all bolts before tightening any. Leave connections somewhat loose to allow for height adjustment.

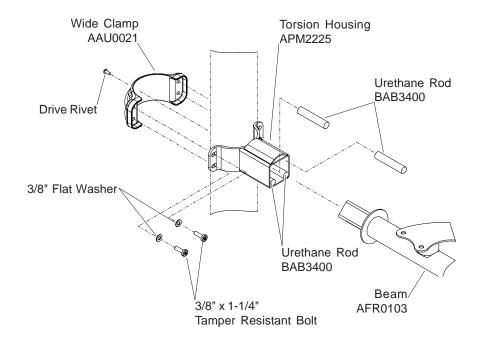
___Step 7: Adjust the height of the assembly. See **Elevation View**. Adjust the height of the beam so that the center of the clamp band is 10 in. (254 mm) above the level of protective surfacing. Tighten the bolts *evenly* so that any gap is covered by the clamp casting.

Final Details.

___Step 8: Plumb and level the entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.

___Step 9: Install drive rivets. See **Detail B**. After the equipment assembly is complete, install a drive rivet in each clamp band to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

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



Detail B



BILL OF MATERIAL

PM-CRITTER CROSSING

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0041	CASTING - CRITTER CROSSING POD	6
AFR0103	BEAM - CRITTER CROSSING	1
APM2225	HOUSING - 5" TORSION	2
BAB3400	MISC - URETHANE ROD	8
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	18
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	8



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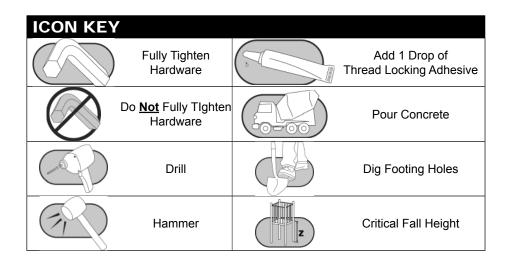




Playmakers[®] Model PM6810 Vortex

Installation Preparation

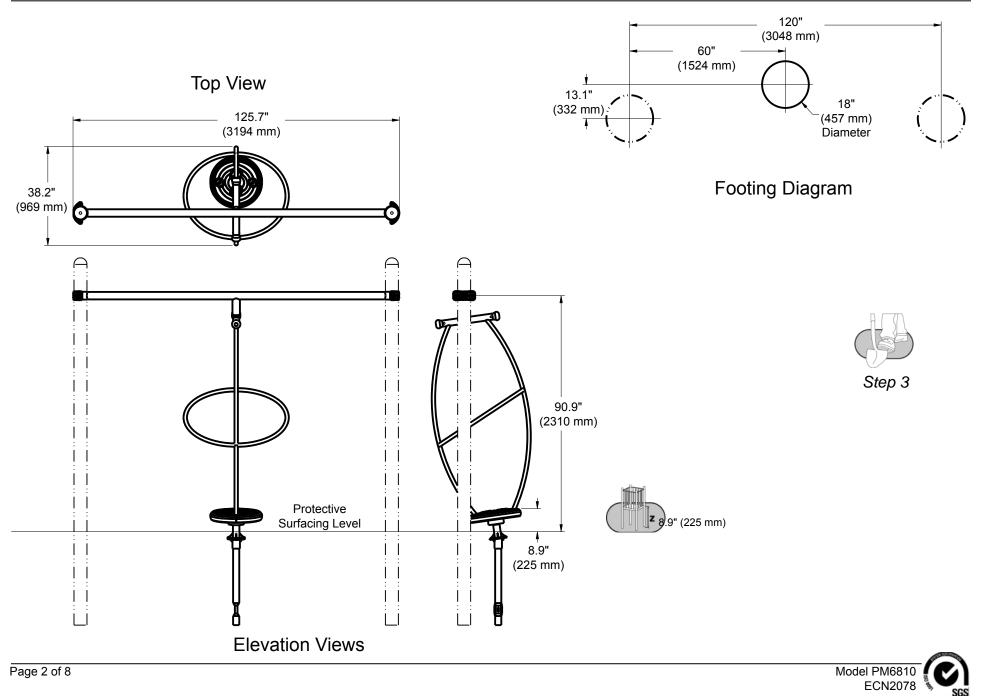
Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Concrete Required:	0.13 cubic yard (0,10 cubic meters)
Use Zone:	Refer to Master Layout Drawing
User Group Age (years):	ASTM/CSA: 5-12, EN: 2-14

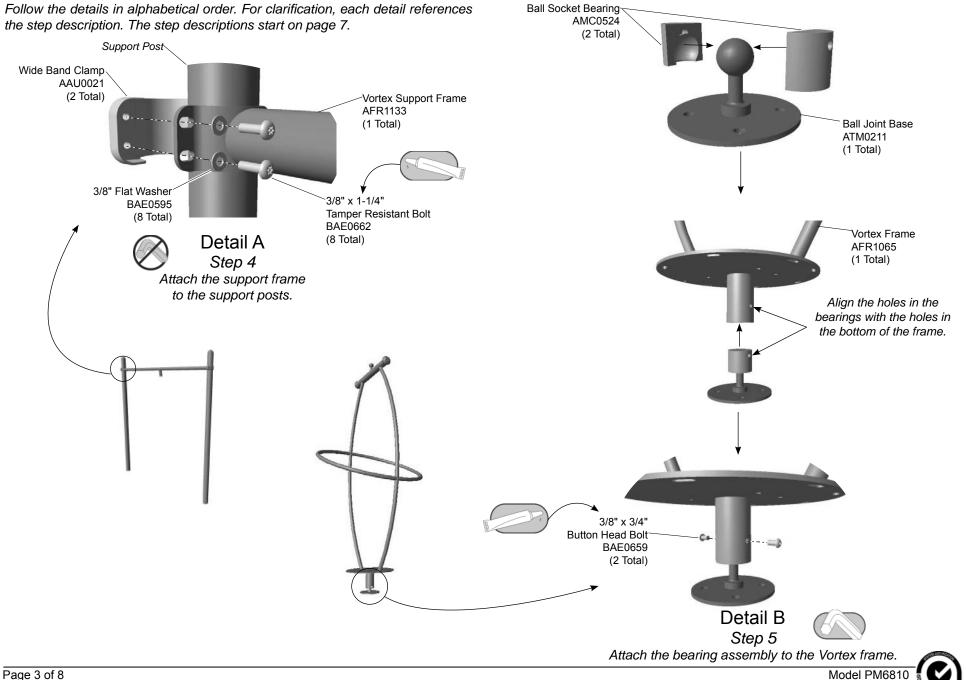




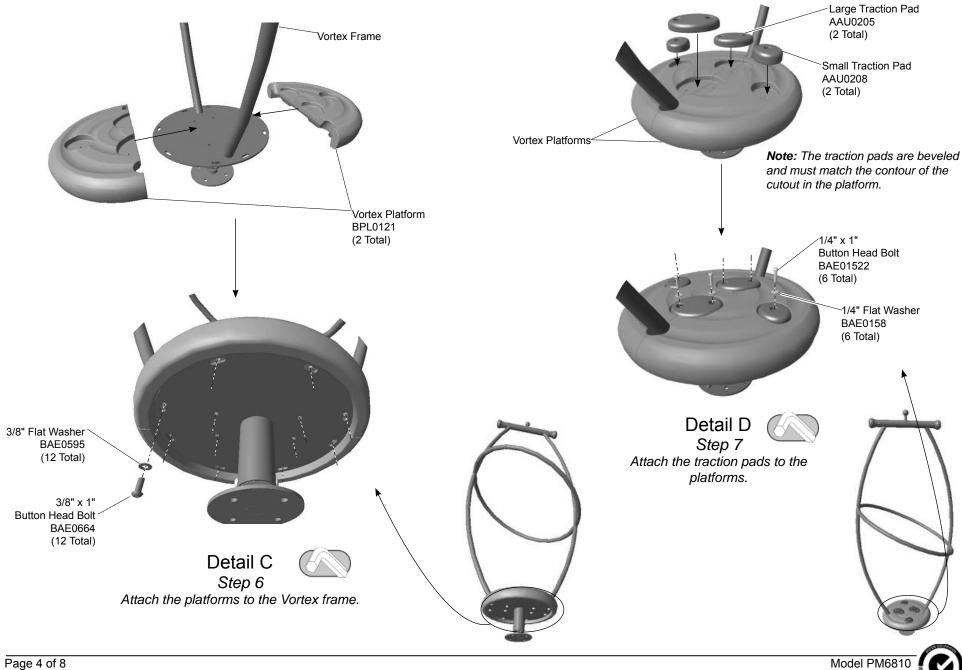


Assembly View



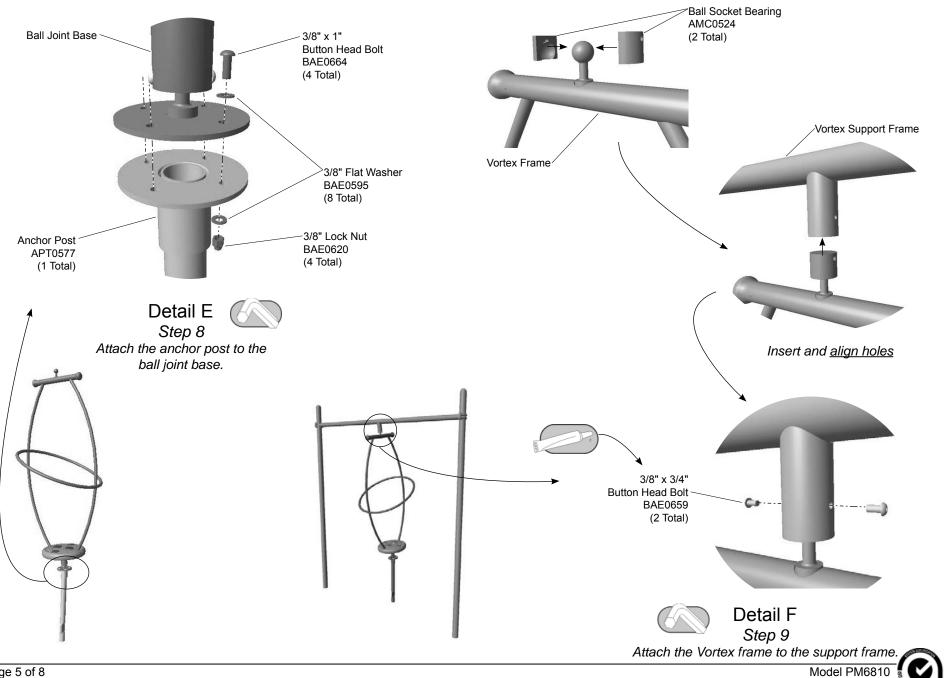


ECN2078



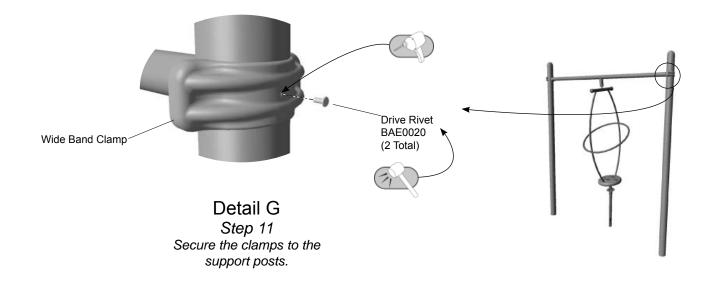
ECN2078





ECN2078







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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Support Post Footing Details**. Refer to the support post diagram and footings notes included in the Playmaker Guidelines at the beginning of the printed instruction booklet. *(If viewing on the CD refer to ZZPMGUID.)* When fully tightening the connections, follow the recommended **Torque Specifications:**

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

Step 4: Attach the support frame to the support posts. See **Detail A**. Position the support frame between the support posts at the height indicated in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Step 5: Attach the bearing assembly to the Vortex frame. See **Detail B**.Close the ball socket bearings around the top of the ball joint base and insert the base into the bottom of the spinner frame and align the holes in the socket bearings with those in the frame. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 6: Attach the platforms to the Vortex frame. See **Detail C**. Position the platforms on the frame and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 7: Attach the traction pads to the platforms. See **Detail D**. Insert each traction pad into it's corresponding indentation in the platform and attach as shown. Fully tighten the connections according to the tightening torque specifications. *Note:* the traction pads are beveled and must match the contour of the cutout in the platform.

Step 8: Attach the anchor post to the bearing unit. See **Detail E**. Position the top of the anchor post against the bottom of the bearing unit and attach as shown. Fully tighten the connections according to the tightening torque specifications.

Step 9: Attach the Vortex assembly to the support frame. See **Detail F**. Place the socket bearings around the ball on the top of the Vortex frame assembly. With adequate manpower, lift the assembly up and into the support frame and align the holes in the socket bearings with those in the frame. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten the connections according to the tightening torque specifications.

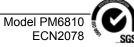
Final Details.

Step 10: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Step 11: 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.

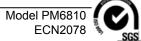
Step 12: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.



PM6810 - VORTEX

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WI.D.E ALUMINUM	2
AAU0205	4.88" TRACTION PAD	2
AAU0208	3.38" TRACTION PAD	2
AFR1065	FRAME - 87.27" x 37.16" x 40.59"	1
AFR1133	FRAME - VORTEX (PM)	1
AMC0524	BEARING - BALL SOCKET	4
APT0577	POST - VORTEX	1
ATM0211	BALL JOINT - SURFACE MOUNT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	6
BAE0158	WASHER - 1/4" SAE FLAT	6
BAE0595	WASHER - 3/8" SAE FLAT	28
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" TMPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BPL0121	VORTEX PLATFORM	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1









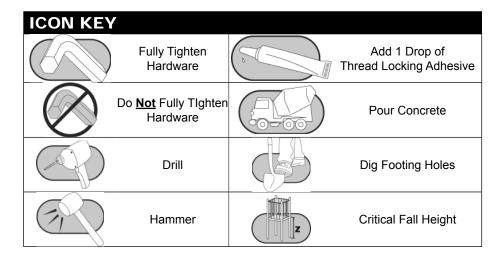
Assembly View (representative model)

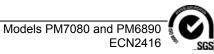
Installation Instructions

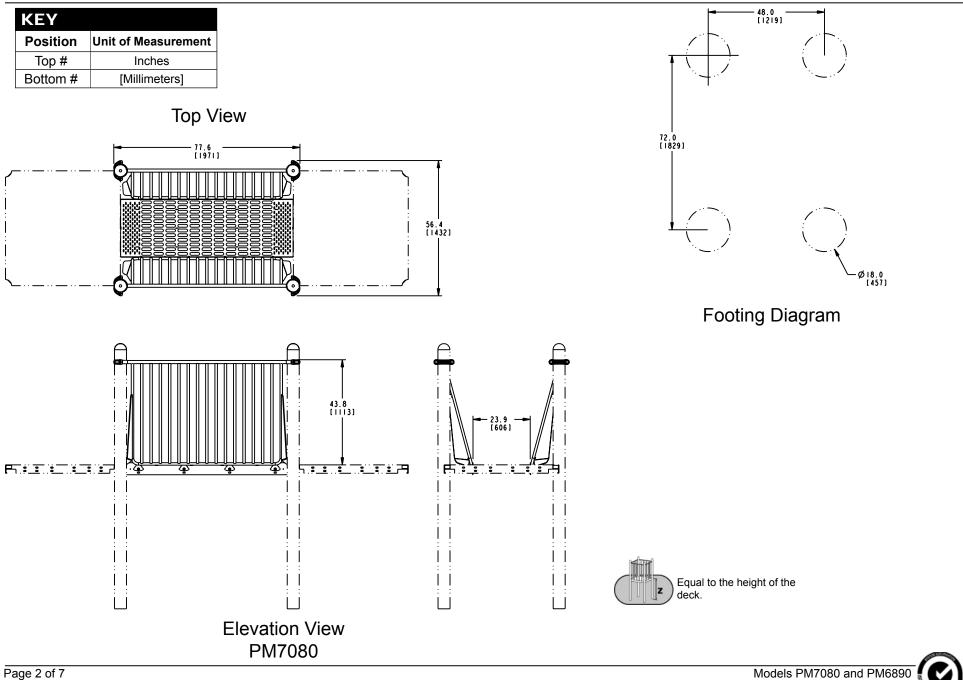
Playmakers[®] Models PM7080 and PM6890 6 ft. (1829 mm) and 10 ft. (3048 mm) Catwalk

Installation Preparation

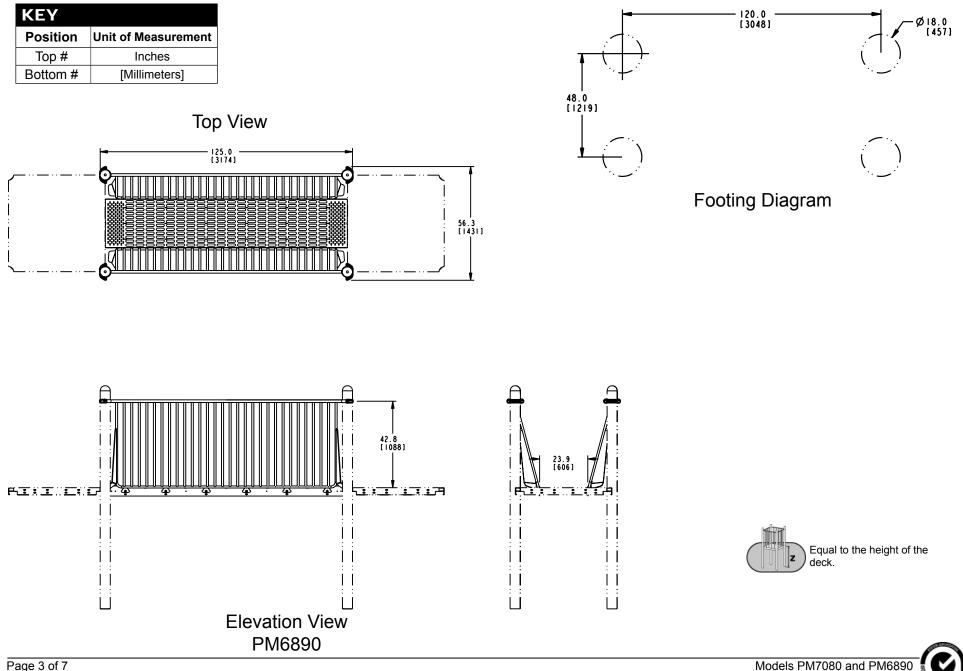
Recommended Crew:	Four (4) adults
	4 man-hours
Use Zone:	Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2	



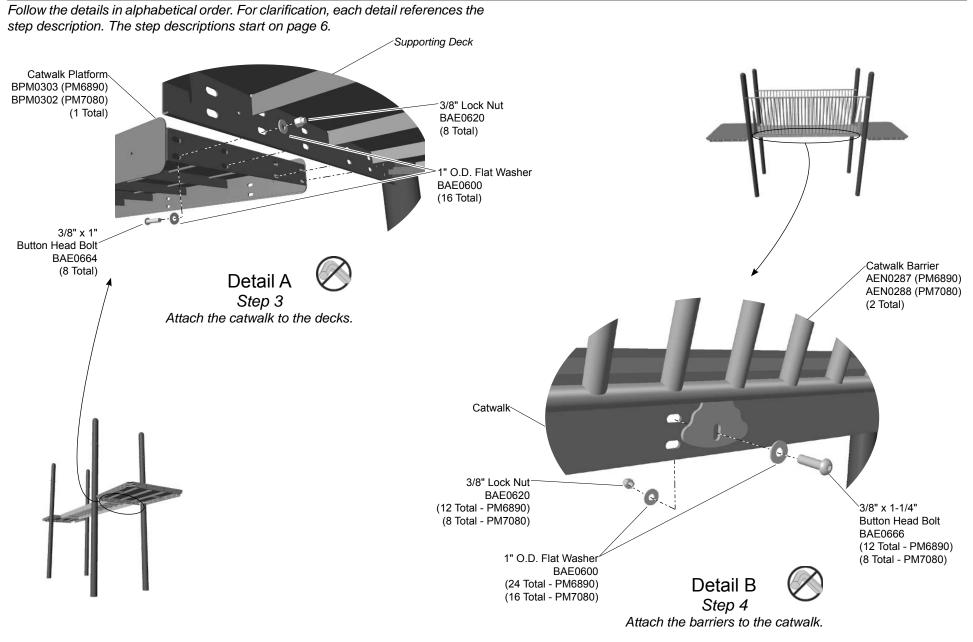


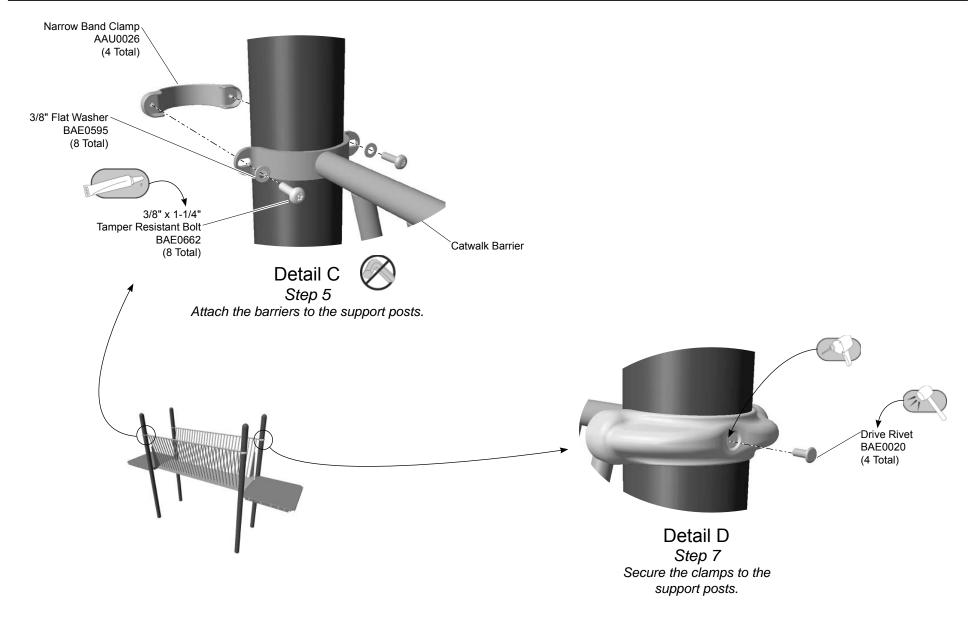


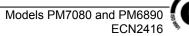
ECN2416



ECN2416







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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Attach the catwalk to the decks.

Step 3: Attach the catwalk to the decks. See **Detail A**. Using adequate manpower, position the catwalk between the decks and attach as shown.

Attach the barriers to the catwalk.

Important Note: There are upper holes (preferred) and lower holes along the side of the catwalk for barrier attachment. Choose the hole set that will avoid adjacent clamp interference. Both barriers should be mounted at the same height. **Step 4:** Attach the barriers to the catwalk. See **Detail B**. Position each barrier against the side of the catwalk with the top rail clamp bands around the support posts and attach as shown. Leave the connections loose. The barriers should be supported until the narrow clamp bands are attached.

Attach the narrow clamp bands to the barriers.

Step 5: Attach the narrow clamp bands to the barriers. See **Detail C**. Position each narrow clamp band around a support post and aligned with a barrier top rail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Snug tighten the connections.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Make sure the top of the catwalk it flush to and level with the deck.

Torque Specifications:

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

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

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

PM7080 - 6 ft. (1829 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0288	BARRIER - 71-7/16" x 46-1/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0662	BOLT - 3/8"-16 x 1-1/4"TMPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	8
BPM0302	PLATFORM - 71.88" x 24.21" x 5" CATWALK	1

PM6890 - 10 ft. (3048 mm) CATWALK

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AEN0287	BARRIER - 119-9/516 x 45-1/16" CATWALK	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	40
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	20
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	12
BPM0303	PLATFORM - 119.88" x 24.21" x 5.00" CATWALK	1





Models PM7080 and PM6890 ECN2416



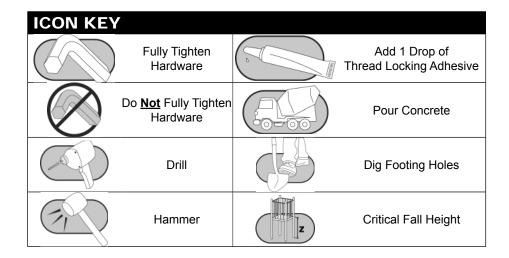
Playmakers[®] Model PM9846 Cabana Roof

Installation Preparation

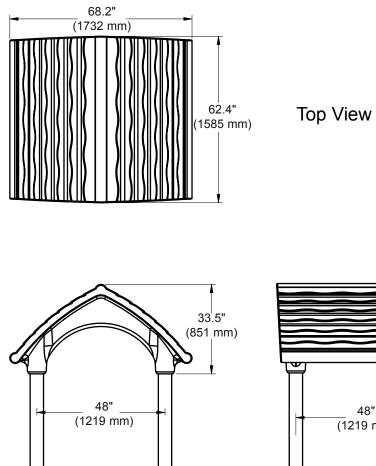
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour

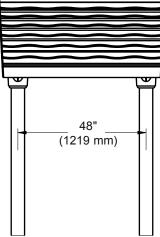


Assembly View

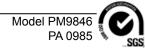




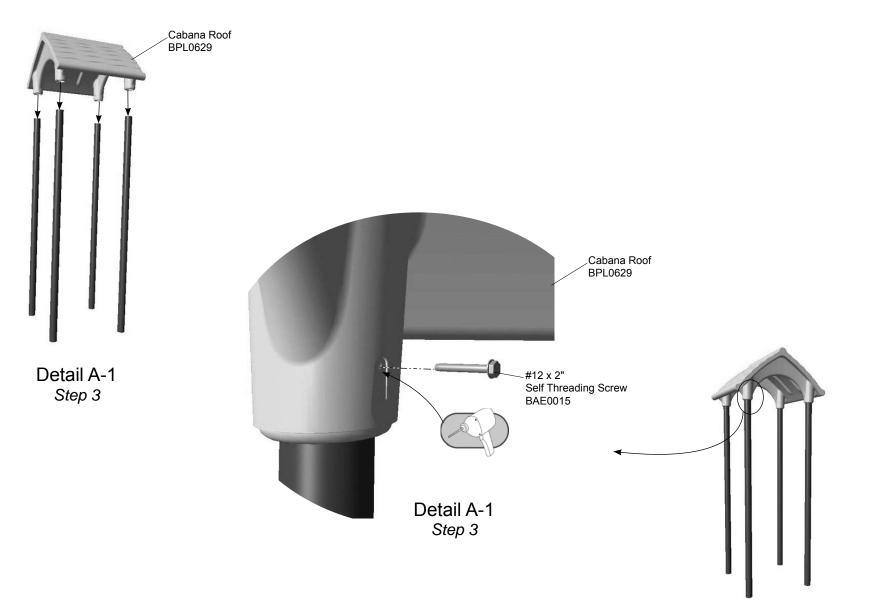




Elevation Views ZZPM9846



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



Model PM9846 PA 0985

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 $#12 \times 1-1/2"$ 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.

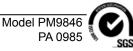
Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

Step 4: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

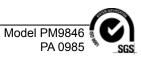
Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.



PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2"	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1



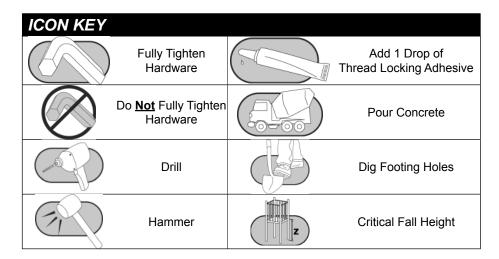




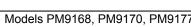
Playmakers[®] Models PM9168, PM9170 and PM9177 Deck to Deck Accessible Tiered Platform 12 in. (305 mm), 24 in. (610 mm) and 36" (914 mm) Rise Height

Installation Preparation

Recommended Crew:	- Two - Three (2-3) adults
Installation Time:	
Use Zone:	Refer to Master Drawing
User Group Age (year	s): ASTM/CSA: 2-12, EN: 2-14



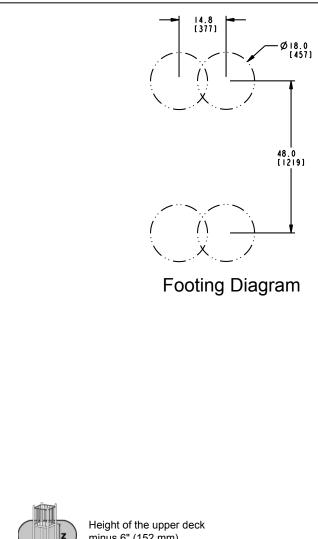


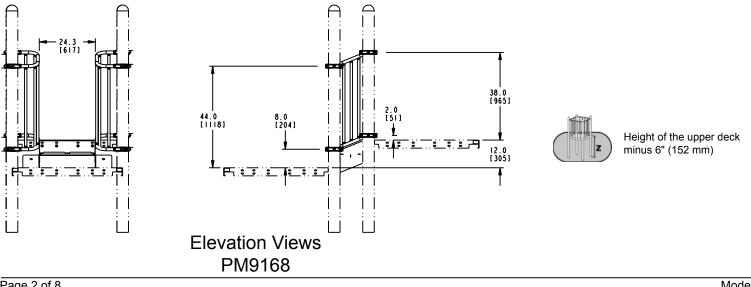




Assembly View (representative model)

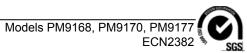
KEY				
Position	Unit of Measurement			
Top #	Inches			
Bottom #	[Millimeters]			



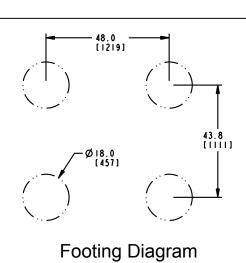


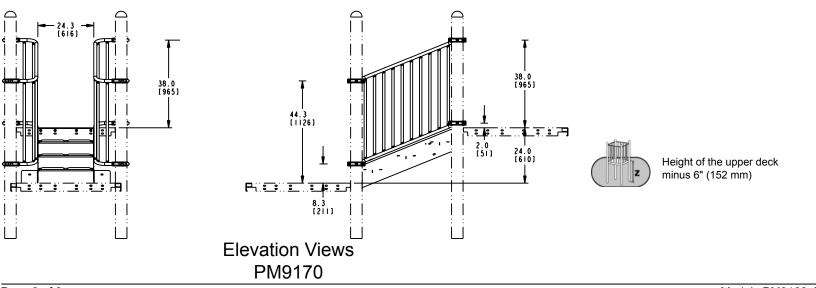
Top View

•



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



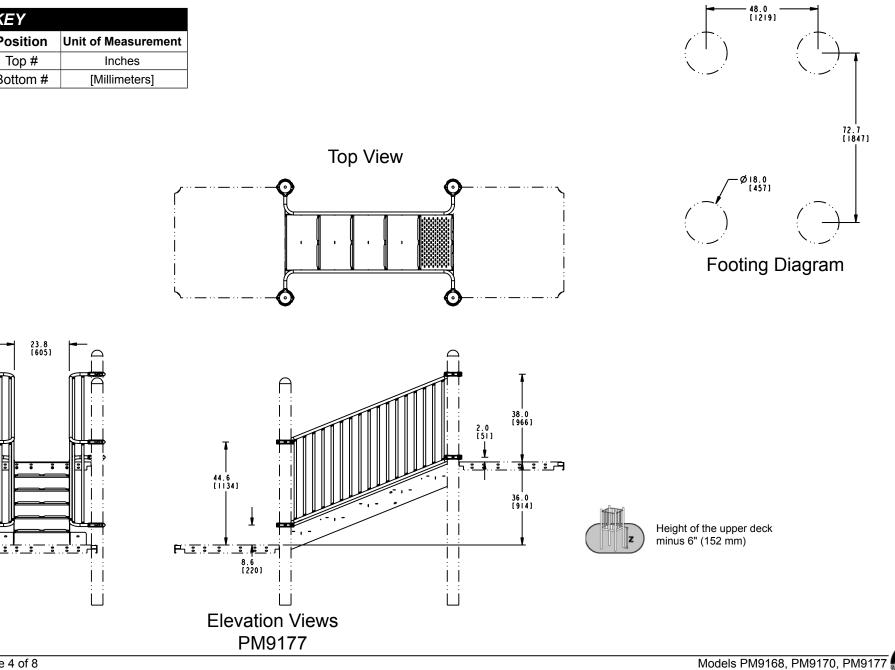


Top View

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SGS

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

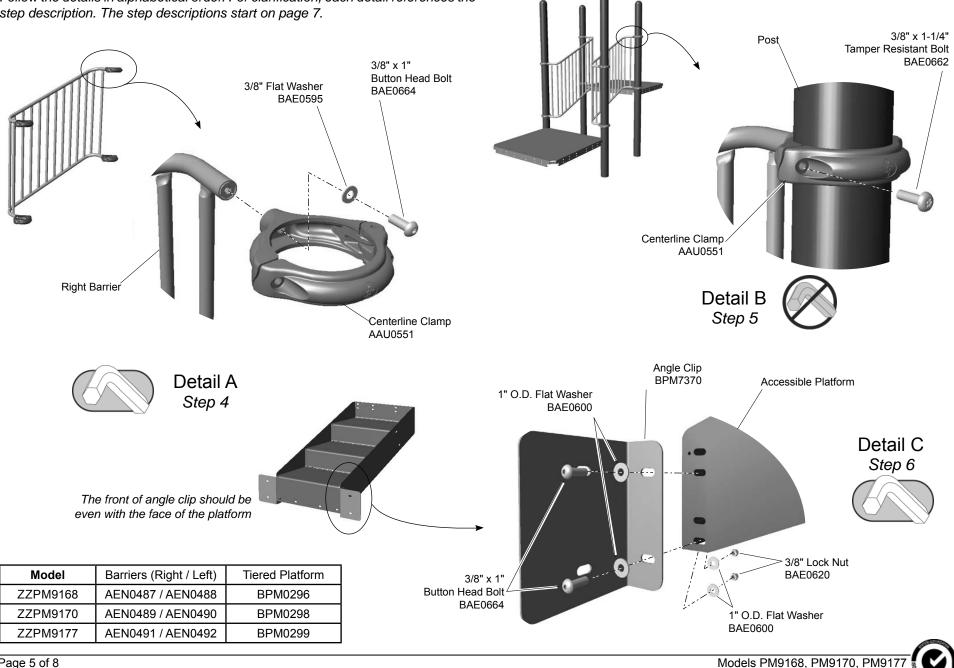


ECN2382 🍾

SGS

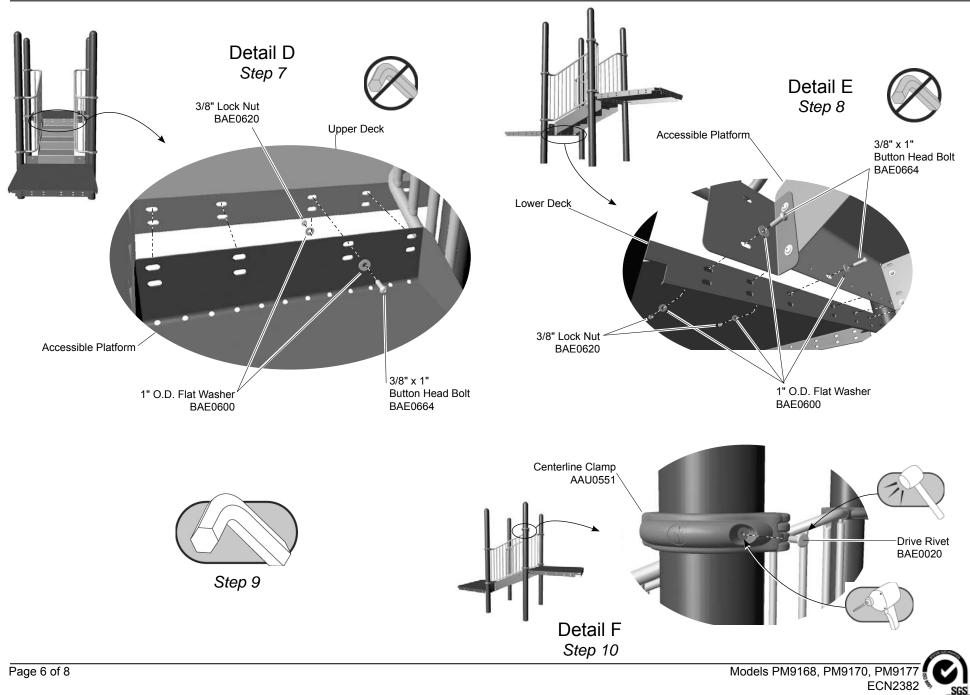
F

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



ECN2382

SGS



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 PLATFO

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1	AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (R1	ī) 1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1	AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT) 1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8	BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8	BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28	BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14	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	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	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1	BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2	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



SGS





Assembly View

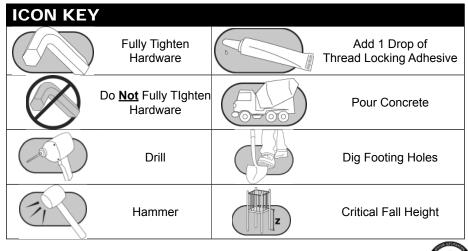
Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems[®] Models XX0260, XX0261, & XX0324 Belt Seat with Swing Chain

Installation Preparation

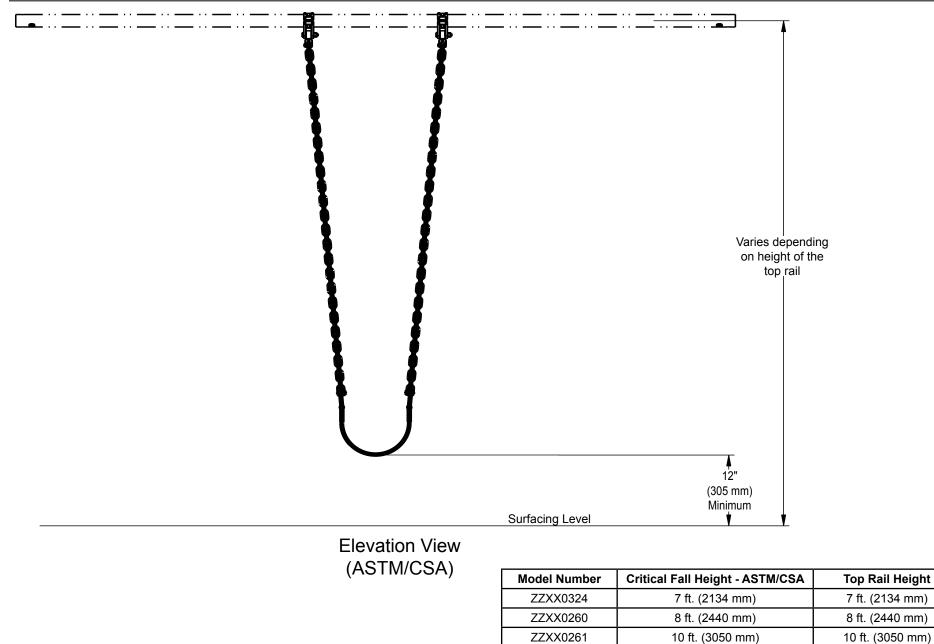
Recommended Crew:	One (1) adult
	0.25 hour
Use Zone:	
User Group Age (year	s):ASTM/CSA: 2-12, EN: 2-14



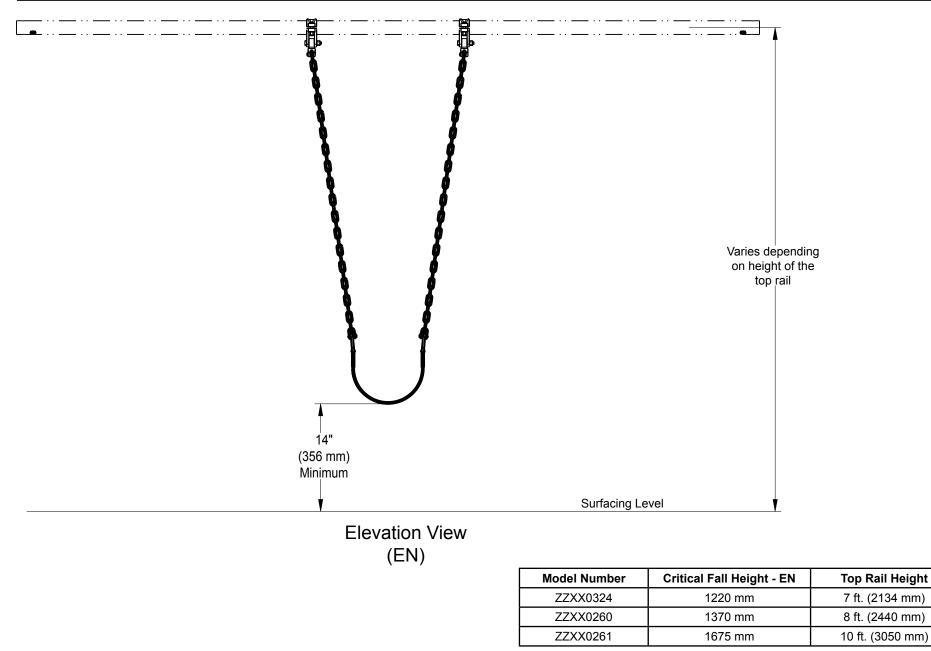
Models XX0260, XX0261, & XX0324



ECN2147

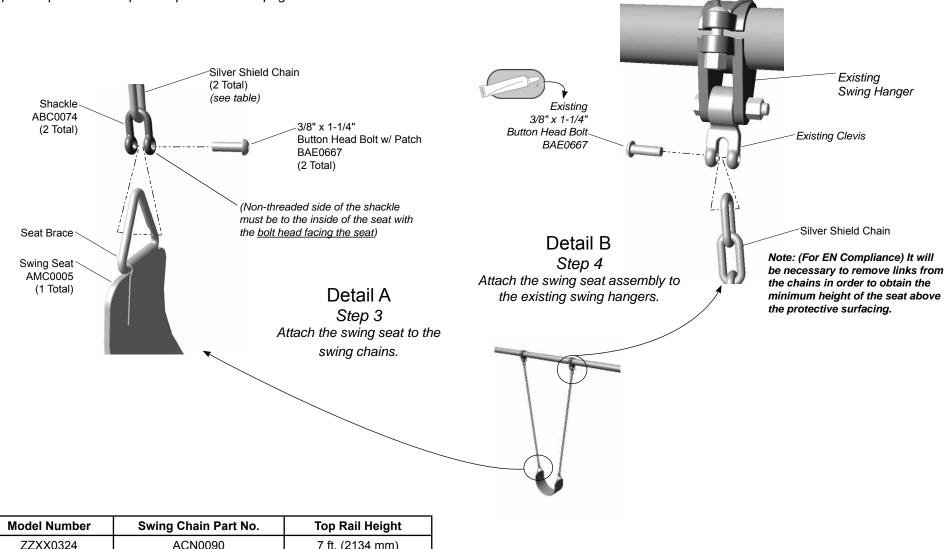








Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



model Mambel	owing onain r art no.	rop Run Hoight
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

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

Carefully read and understand these installation instructions before you begin.

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

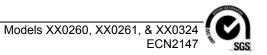
Step 2: Separate and identify all components and hardware.

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

Step 4: Attach the swing seat assembly to the existing swing hangers. See Detail B. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side. Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications. **Torque specifications** - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.



ZZXX0324 - BELT SEAT WITH SWING CHAIN

- 7 ft. (2134 mm) TOP RAIL HEIGHT

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

ZZXX0260 - BELT SEAT WITH SWING CHAIN

- 8 ft. (2438 mm) TOP RAIL HEIGHT

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

ZZXX0261 - BELT SEAT WITH SWING CHAIN

- 10 ft. (3048 mm) TOP RAIL HEIGHT

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



SGS



Swing Seat

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

Fasteners

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

Finish

• Inspect metal parts for finish damage.

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance

Playworld Systems[®] Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain







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	Inspe Code	ection Date	Date Repairs Completed	
Inspect chain and swing seat for damage.		Medium				Inspection Codes
Inspect surfacing to insure proper depth and distribution.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
	Signature:				Da	ite: / /

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date
	Signature:	Date:	1 /





Playworld Systems[®] Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain

Installation Preparation

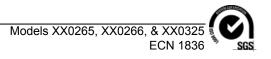
Recommended Crew:	One (1) adult
	0.25 hour
Use Zone:	
User Group:	Ages 2 - 5 years

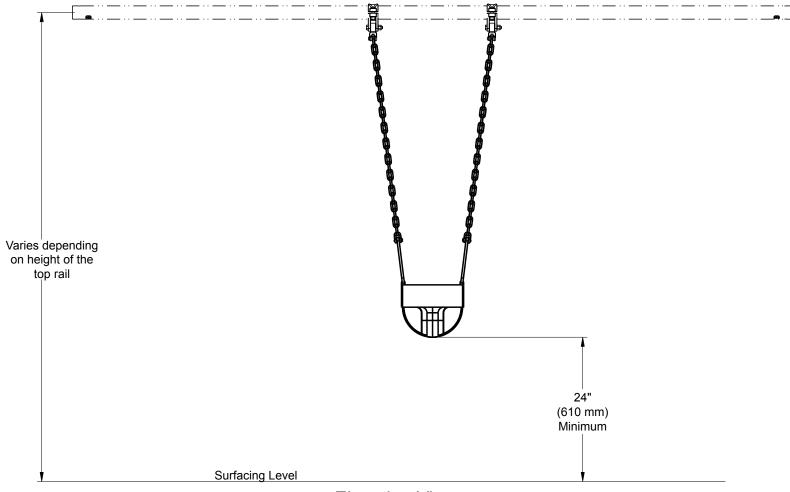
Assembly View

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

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





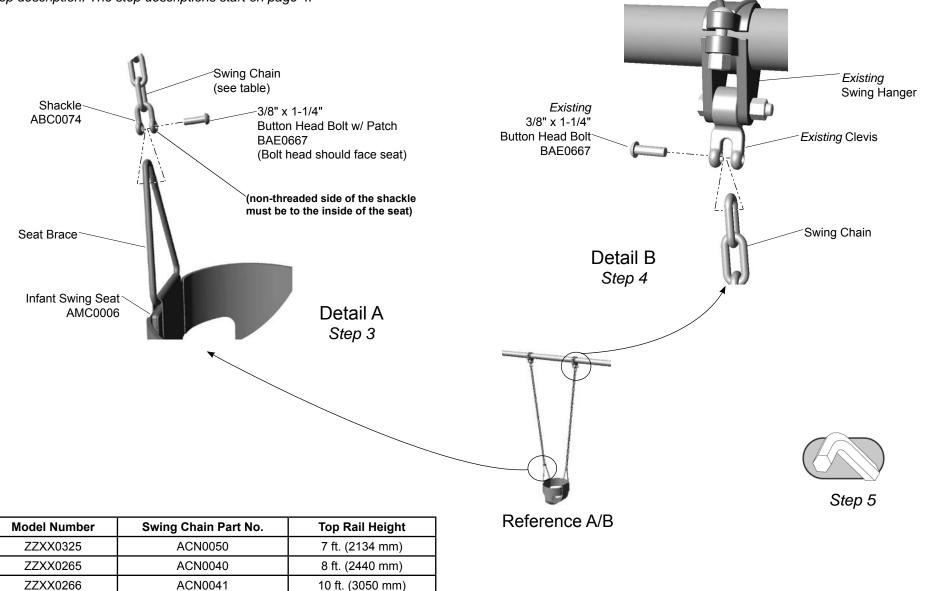


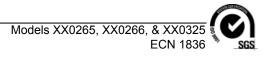
Elevation View

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

SGS

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





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

Carefully read and understand these installation instructions before you begin.

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

_Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

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

Attach the swing seat assembly to the existing swing hangers.

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

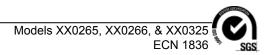
Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

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

Final Details.

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

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



ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN

- 7 ft. (2134 mm) TOP RAIL HEIGHT

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

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

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

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN

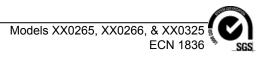
- 10 ft. (3048 mm) TOP RAIL HEIGHT

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





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Swing Seat

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

Fasteners

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

Finish

• Inspect metal parts for finish damage.

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance

Playworld Systems[®] Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain







Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST		Frequency	Inspe Code	ection Date	Date Repairs Completed	
Inspect chain and swing seat for damage.		Medium				Inspection Codes
Inspect surfacing to insure proper depth and distribution.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High]
]
				0]
Inspector: Name (Please Print)	Signature:	-	•	-	Da	ate: / /

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

 Repairer:
 Name (Please Print)
 Signature:

Date:



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

Installation Guidelines

• Identify all parts and thoroughly read the assembly instructions before beginning construction.

• Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and noencroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

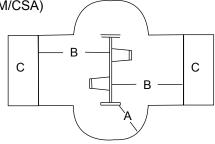
(ASTM / CSA)

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

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

Belt/Rigid Seat Swing Zones (ASTM/CSA)

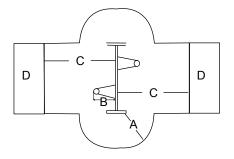
- **A** = Side Use Zone 72 in. (1829 mm)
- B = End Use Zone Height of Pivot Point from Surfacing x 2 Both Sides of Top Rail
- C = No-encroachment Zone 72 in. (1829 mm)



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

Infant Seat Swing Zones

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





(EN)

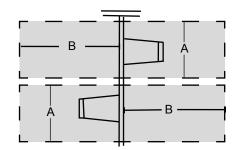
• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing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

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

Use Zones - EN Compliance

- A = Width of the corridor centered on the swing seat 1750 mm
- **B** = Length of the use zone on both sides of the top rail (8ft) Tot Seats: 3290 mm for unitary surfaced areas

or 3790 mm for areas covered with loose fill surfacing. Belt / Rigid Seats: 3510 mm for unitary surfaced areas or 4010 mm for areas covered with loose fill surfacing



• Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

• Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

• After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

• Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

• Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

• Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

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

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

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

Maintenance

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

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

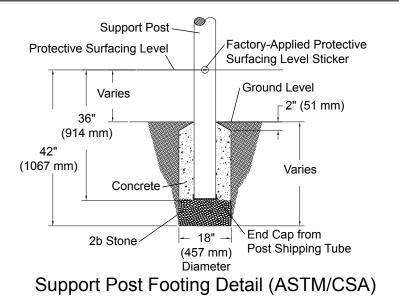
• Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.

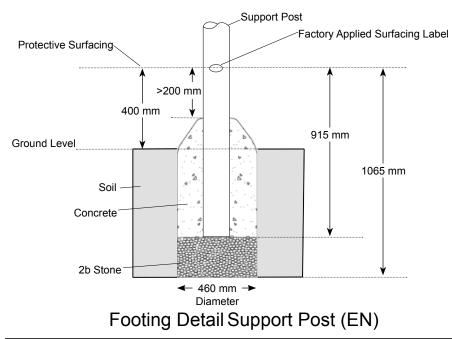
• It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.

• Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.

• Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.

• Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.





FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete. *Example:* If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
 For example:
 - If local soil is loose or unstable, a larger footing may be required.

- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- · Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

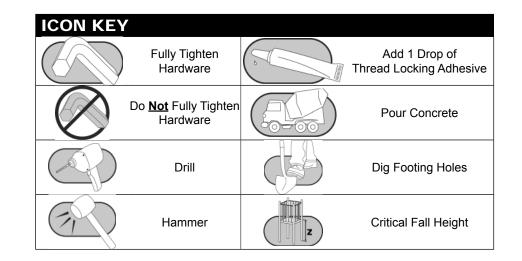




Playworld Systems[®] Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail

Installation Preparation

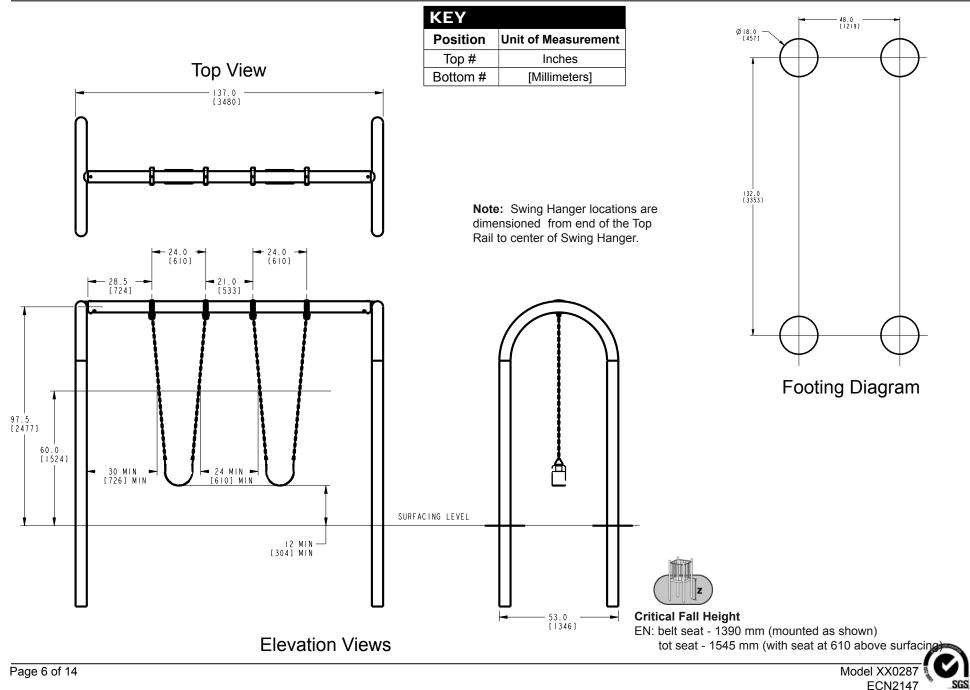
Recommended Crew:	Four (4) adults
Installation Time:	3 man-hours
Concrete Required:	0.48 cubic yard (0,37 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	

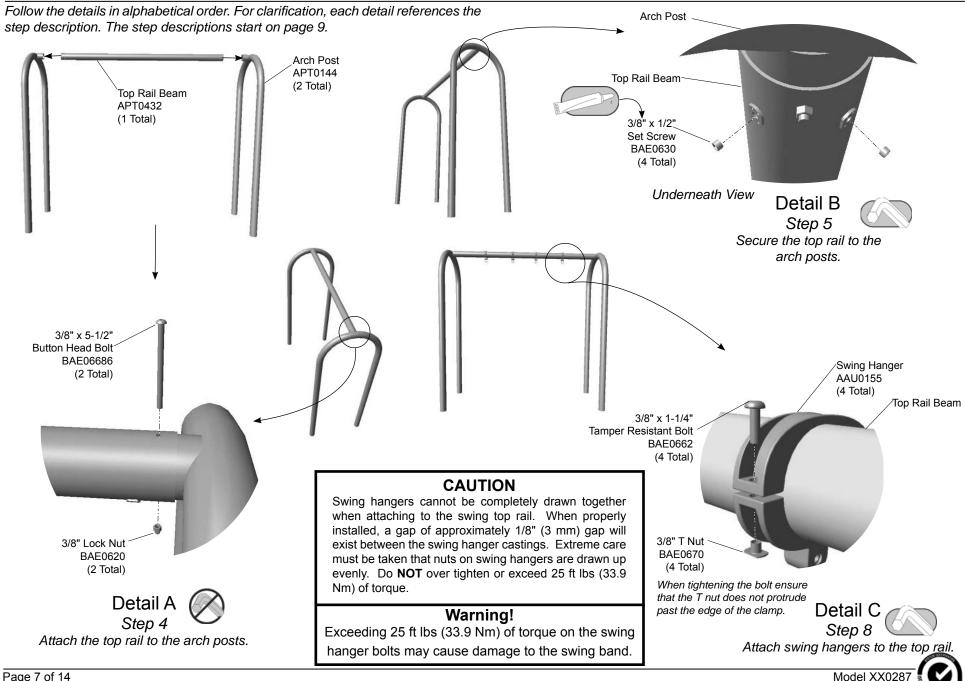




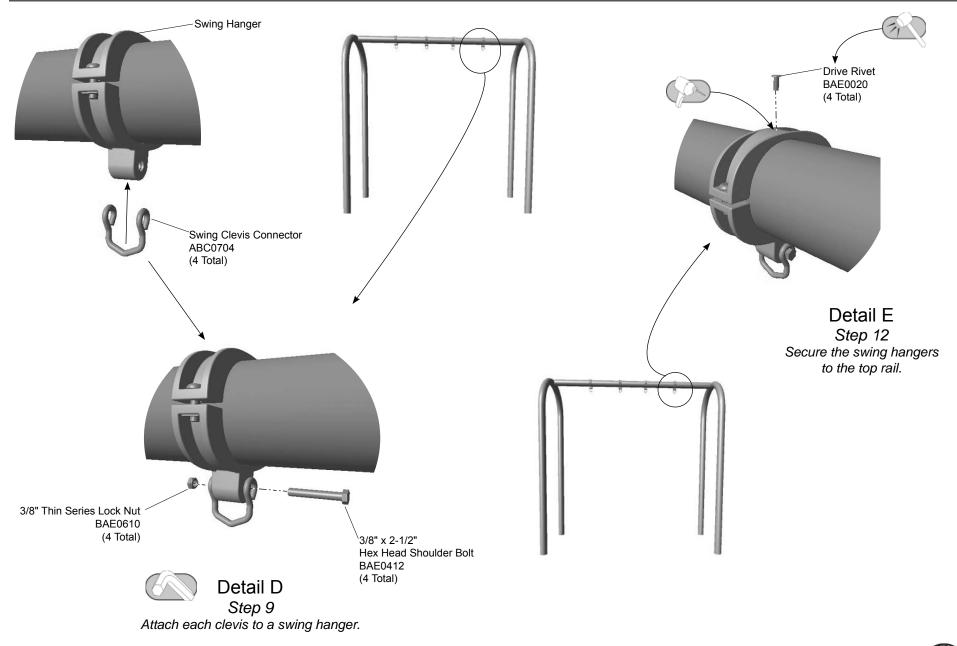


Assembly View (representative model)





ECN2147



Model XX0287 ECN2147

SGS

Page 8 of 14

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Assemble the swing frame.

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

Position the swing frame.

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

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

Attach swing hangers to the top rail.

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

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

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

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

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

Final Details

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.



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

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

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



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

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





FINAL INSPECTION

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

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



Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls.



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Swing Hangers

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

Fasteners

Inspect for loose fasteners.

Tightening torque specifications are:

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

<u>Set Screws:</u> Snug tighten and tighten an additional full turn.

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

Welds

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

Finish

· Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with colormatching paint and allow to dry. Recoat area with colormatching paint if required. Drying time is approximately 8 hours between coats.

Footings

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

Surfacing

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

Replacement Parts

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

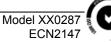
Equipment Maintenance

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



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





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	Inspe Code	ction Date	Date Repairs Completed	
Inspect surfacing to insure proper depth and distribution.		High				Inspection Codes
Inspect swing hangers for tightness and damage.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
Inspect footing to insure support is secure and footing is not damaged	1.	Low				
Inspector: Name (Please Print)	Signature:				Da	te://

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print)	Signature:	Date://
Page 14 of 14		Model XX0287 🛽 💟 🛽

GUIDELINES

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

Installation Guidelines

• Identify all parts and thoroughly read the assembly instructions before beginning construction.

• Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and noencroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

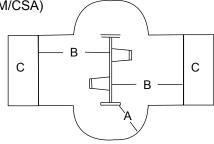
(ASTM / CSA)

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

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

Belt/Rigid Seat Swing Zones (ASTM/CSA)

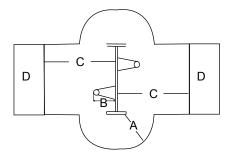
- **A** = Side Use Zone 72 in. (1829 mm)
- B = End Use Zone Height of Pivot Point from Surfacing x 2 Both Sides of Top Rail
- C = No-encroachment Zone 72 in. (1829 mm)

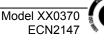


• The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

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





(EN)

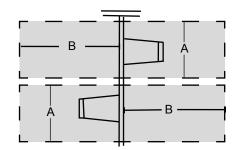
• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing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

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

Use Zones - EN Compliance

- A = Width of the corridor centered on the swing seat 1750 mm
- **B** = Length of the use zone on both sides of the top rail (8ft) Tot Seats: 3290 mm for unitary surfaced areas

or 3790 mm for areas covered with loose fill surfacing. Belt / Rigid Seats: 3510 mm for unitary surfaced areas or 4010 mm for areas covered with loose fill surfacing



• Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

• Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

• After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

• Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

• Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

• Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

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



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

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

Maintenance

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

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

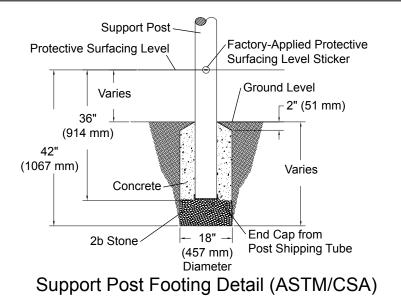
• Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.

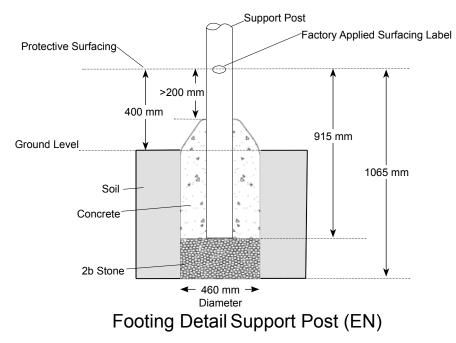
• It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.

• Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.

• Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.

• Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.





FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete. *Example:* If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
 For example:
 - If local soil is loose or unstable, a larger footing may be required.

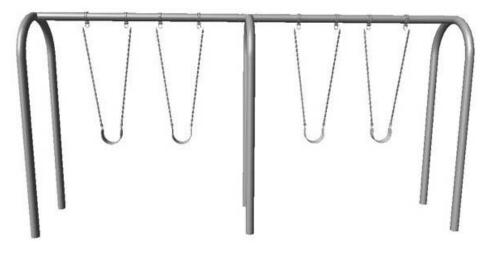
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- · Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.





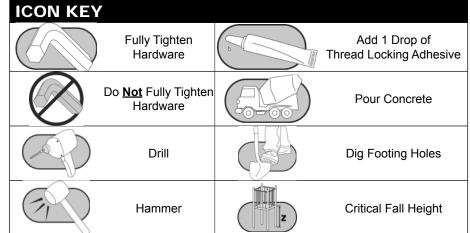
Playworld Systems[®] Model XX0370 5 in. (127 mm) O.D. Aluminum Arch Swing 2-Unit Add-A-Bay

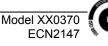


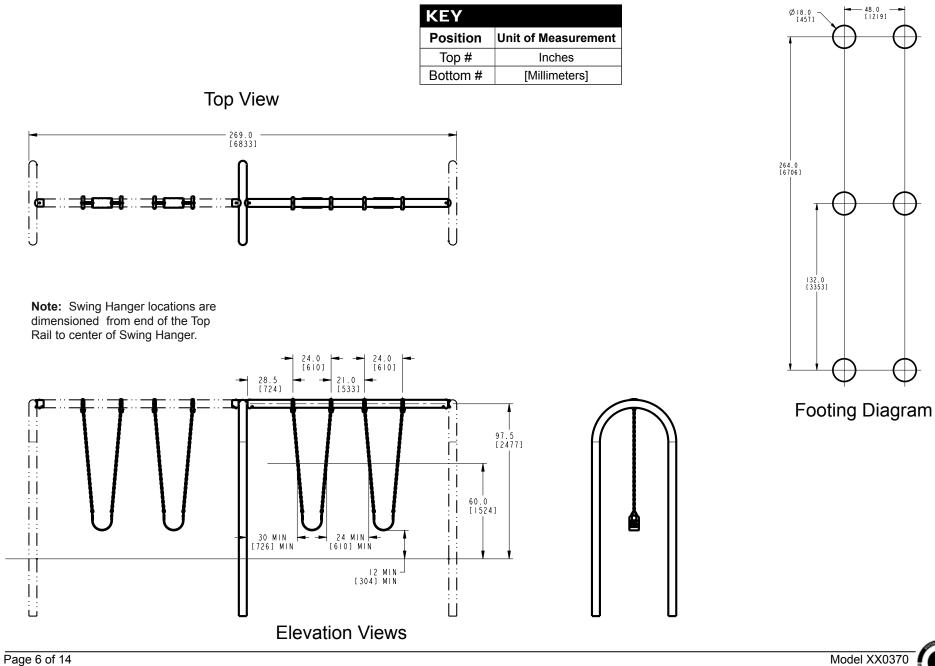
Assembly View

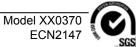
Installation Preparation

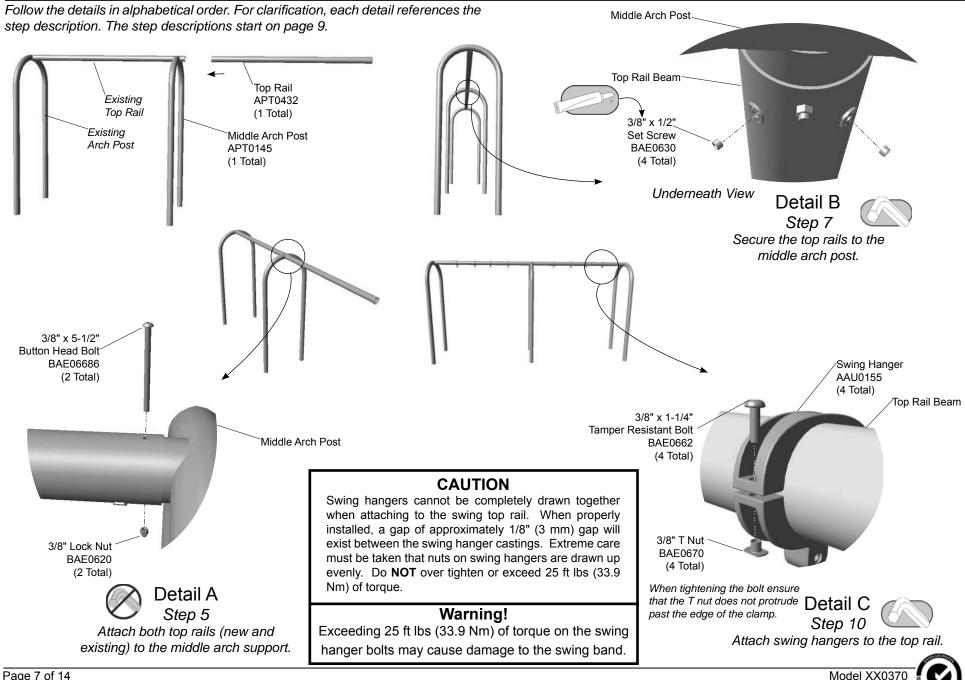
Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



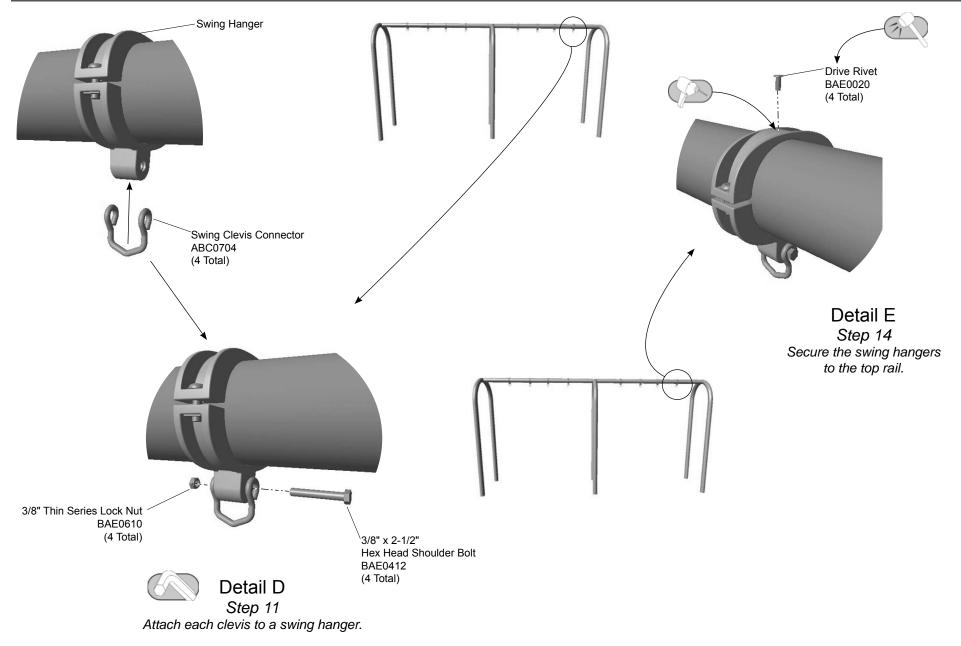








ECN2147



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Existing Swing

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

New Installation

Assemble the swing frame.

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

Re-Connect opposite end of frame.

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

Position the swing frame.

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

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

Attach swing hangers to the top rail.

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

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

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

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

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



Model XX03

Final Details

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

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

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

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

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

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



FINAL INSPECTION

- Playworld Systems[®] insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems[®] strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
- Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
- Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
- Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
- Clean dried concrete off of components and any other affected surface.
- Touch-up any scratches or installation damage to powder coated finish with colormatched spray paint.
- Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.

• Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".

• Insure that hard surface warning/Playworld Systems[®] identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

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



Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls.



www.playworldsystems.com



Model XX03

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Swing Hangers

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

Fasteners

Inspect for loose fasteners.

Tightening torque specifications are:

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

<u>Set Screws:</u> Snug tighten and tighten an additional full turn.

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

Welds

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

Finish

· Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with colormatching paint and allow to dry. Recoat area with colormatching paint if required. Drying time is approximately 8 hours between coats.

Footings

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

Surfacing

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

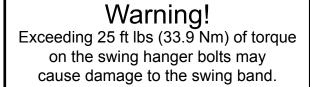
Replacement Parts

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

Equipment Maintenance

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











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	Inspe Code	ction Date	Date Repairs Completed	
Inspect surfacing to insure proper depth and distribution.		High				Inspection Codes
Inspect swing hangers for tightness and damage.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
Inspect footing to insure support is secure and footing is not damaged	J.	Low				
Inspector: Name (Please Print)	Signature:				Da	ite://

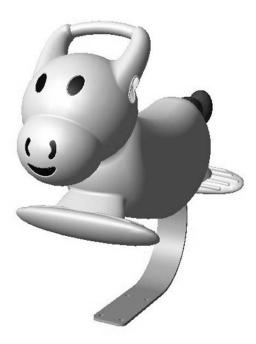
MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print)	Signature:	Date:/
Page 14 of 14		Model XX0370



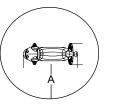




Assembly View (representative structure)

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

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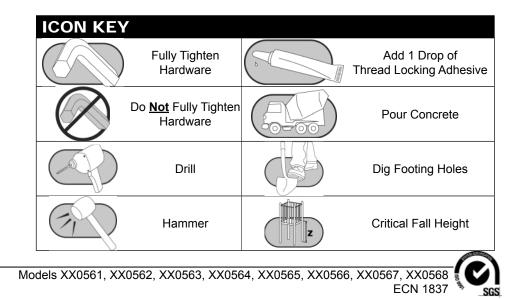
Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

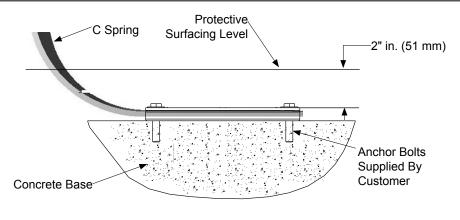
Playworld Systems[®] Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, and XX0568 Cow, Horse, Ladybug, and Bee Spring Rider With and Without Sound

Installation Preparation

Recommended Crew:	Two (2) adults
	2 installation-hours
Use Zone:	
User Group Age (years	s): ASTM/CSA: 2-12, EN: 2-14







C Spring Surface Mount Footing Detail

FOOTING NOTES

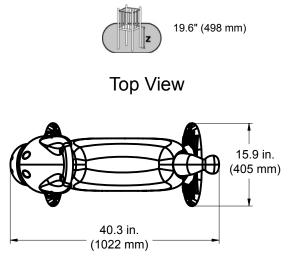
• Footing size may vary due to local soil and weather conditions.

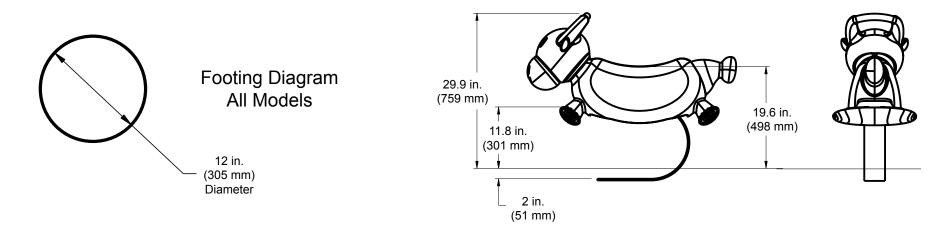
• The base of the footing must be below frost line.

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



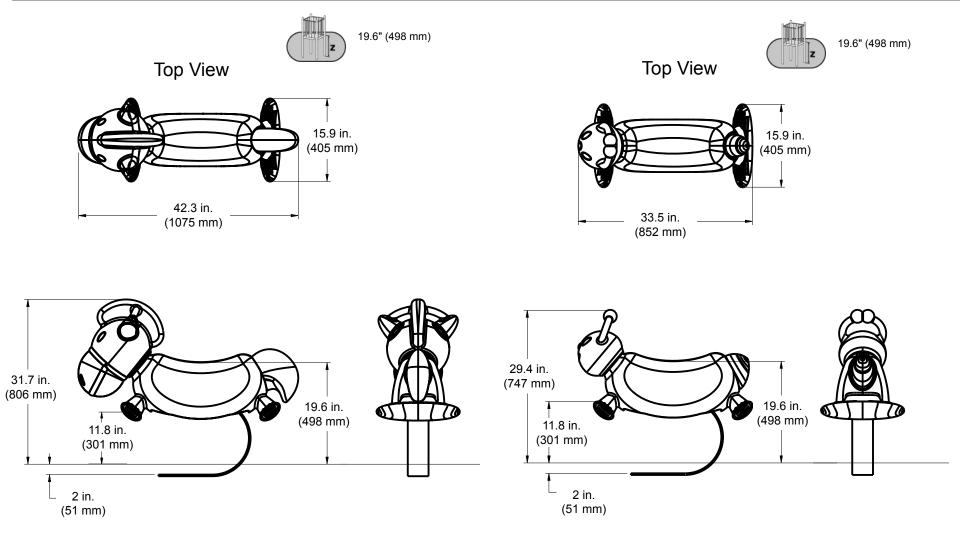
Model	Animal
ZZXX0561	Cow
ZZXX0562	Cow w/ Sound
ZZXX0563	Horse
ZZXX0564	Horse w/ Sound
ZZXX0565	Ladybug
ZZXX0566	Ladybug w/ Sound
ZZXX0567	Bee
ZZXX0568	Bee w/ Sound





Elevation Views XX0561 & XX0562

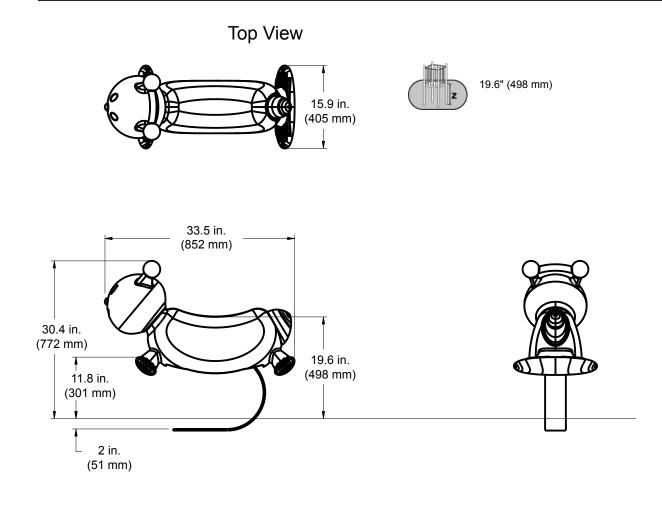




Elevation Views XX0563 & XX0564

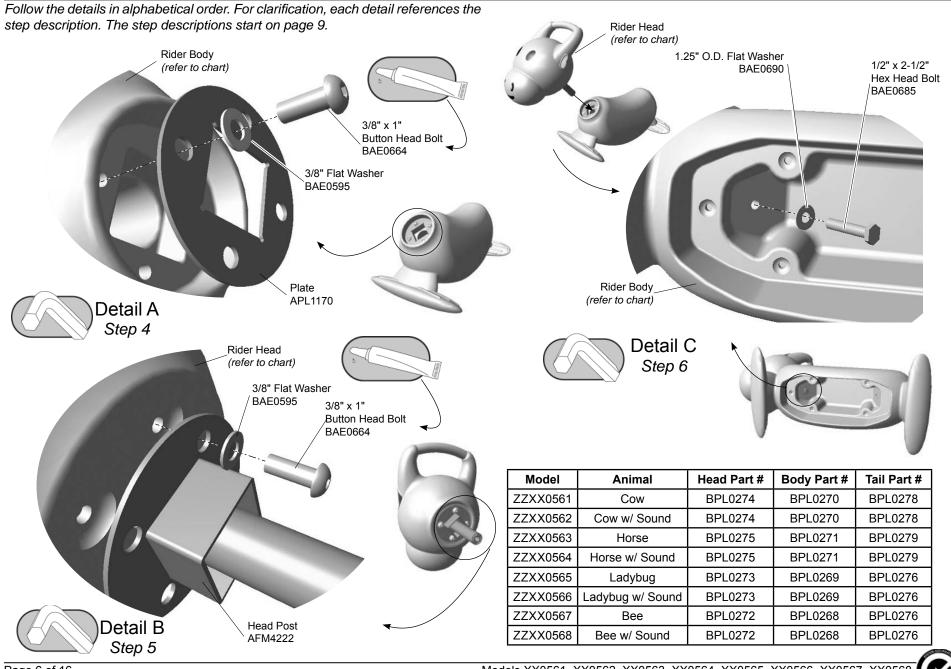
Elevation Views XX0565 & XX0566





Elevation Views XX0567 & XX0568

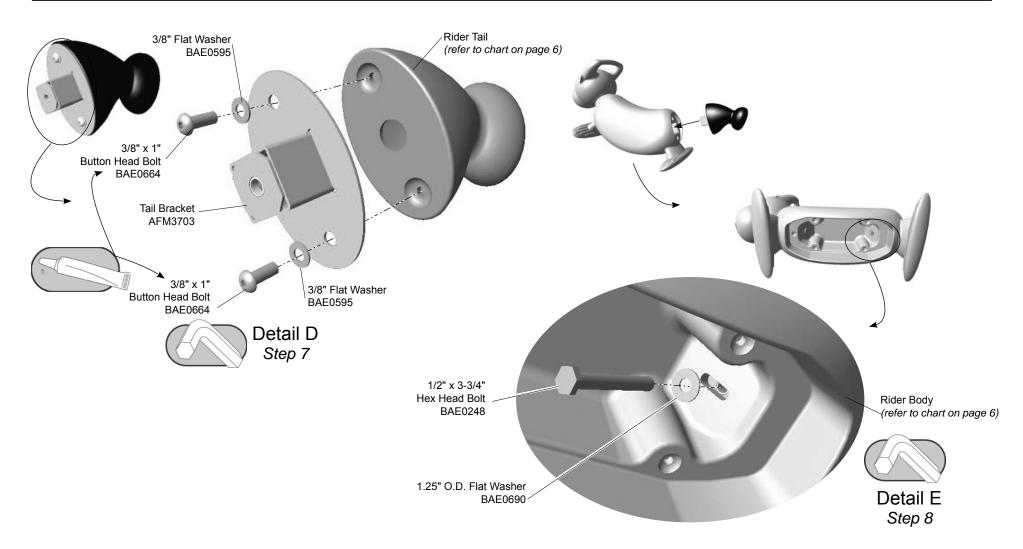




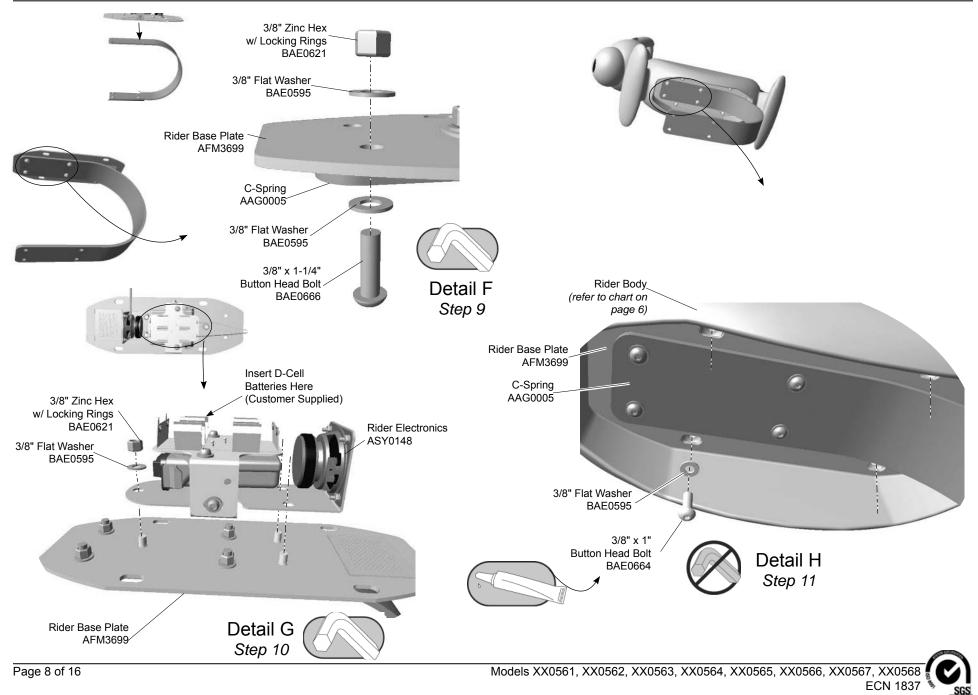
Page 6 of 16

Models XX0561, XX0562, XX0563, XX0564, XX0565, XX0566, XX0567, XX0568 ECN 1837









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

Carefully read and understand these installation instructions before you begin.

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

__Step 2: Separate and identify all components and hardware.

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

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

Attach the plate to the rider body.

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

Attach the head post to the rider head.

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

Attach the head to the body.

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

Assemble the tail.

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

Attach the tail to the body.

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

Attach the base plate to the C-spring.

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

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

Attach the electronics to the base plate.

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

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

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

Attach the rider body assembly to the base plate.

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



Final Details.

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

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

Torque Specifications:

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



XX0561 - COW SPRING RIDER

XX0562 - COW SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1	AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1	AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1	AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1	AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1	APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2	ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	22	BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4	BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14	BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1	BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0690	WASHER531" I.D. x 1.250" O.D. x .060" THICK	2	BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1	BAE0690	WASHER531" I.D. x 1.250" O.D. x .060" THICK	2
BPL0270	COW BODY	1	BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0274	COW HEAD	1	BPL0270	COW BODY	1
BPL0278	COW TAIL	1	BPL0274	COW HEAD	1
			BPL0278	COW TAIL	1



XX0563 - HORSE SPRING RIDER

XX0564 - HORSE SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1	AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1	AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703 AFM4222	FAB METAL - 4.24" x 6.76" x 2.10"	1	AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
APL1170	FAB METAL - 4.63" O.D. x 5.49" PLATE - 4.63" DIA w/ 4 HOLES	1	AFM4222 APL1170	FAB METAL - 4.63" O.D. x 5.49" PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2	ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	22	BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4	BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14	BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	2	BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0690	WASHER531" I.D. x 1.250" O.D. x .060" THICK		BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1	BAE0690	WASHER531" I.D. x 1.250" O.D. x .060" THICK	2
BPL0271	HORSE BODY	1	BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0275	HORSE HEAD	1	BPL0271	HORSE BODY	1
BPL0279	HORSE TAIL	1	BPL0275	HORSE HEAD	1
Di 10273		I	BPL0279	HORSE TAIL	1



XX0565 - LADYBUG SPRING RIDER

XX0566 - LADYBUG SPRING RIDER WITH SOUND

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1	AAG0005	SPRING - 14-5/8 x 17-3/4 'C'	1
AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1	AFM3699	PLATE - 6.38" x .69" x 17.75" ROTO RIDER	1
AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1	AFM3703	FAB METAL - 4.24" x 6.76" x 2.10"	1
AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1	AFM4222	FAB METAL - 4.63" O.D. x 5.49"	1
APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1	APL1170	PLATE - 4.63" DIA w/ 4 HOLES	1
BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2	ASY0148	ROTOMOLED RIDER ELECTRONICS	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAB0032	LABEL - TAMPER RESISTANT SURFACE WARNING	2
BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	22	BAE0248	BOLT - 1/2"-20 x 3-3/4" HEX HEAD	1
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4	BAE0595	WASHER - 3/8" SAE FLAT	25
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14	BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	7
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - S.S.	14
BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1	BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - S.S.	4
BAE0690	WASHER531" I.D. x 1.250" O.D. x .060" THICK	2	BAE0685	BOLT - 1/2"-13 x 2-1/2" HEX HEAD	1
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1	BAE0690	WASHER531" I.D. x 1.250" O.D. x .060" THICK	2
BPL0269	LADYBUG BODY	1	BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BPL0273	LADYBUG HEAD	1	BPL0269	LADYBUG BODY	1
BPL0276	BEE AND LADYBUG TAIL	1	BPL0273	LADYBUG HEAD	1
			BPL0276	BEE AND LADYBUG TAIL	1



XX0567 - BEE SPRING RIDER

XX0568 - BEE SPRING RIDER WITH SOUND

AAG0005 SPRING - 14-5/8 x 17-3/4 'C' 1 AAG0005 SPRING - 14-5/8 x 17-3/4 'C' AFM3699 PLATE - 6.38" x .69" x 17.75" ROTO RIDER 1 AFM3699 PLATE - 6.38" x .69" x 17.75" ROTO RIDER AFM3703 FAB METAL - 4.24" x 6.76" x 2.10" 1 AFM3703 FAB METAL - 4.24" x 6.76" x 2.10" AFM3703 FAB METAL - 4.63" O.D. x 5.49" 1 AFM3703 FAB METAL - 4.24" x 6.76" x 2.10" AFM4222 FAB METAL - 4.63" D.D. x 5.49" 1 AFM3703 FAB METAL - 4.63" D.D. x 5.49" APL1170 PLATE - 4.63" D.D w/ 4 HOLES 1 APL1170 PLATE - 4.63" D.D w/ 4 HOLES 1 APL1170 BAB0032 LABEL - TAMPER RESISTANT SURFACE WARNING 2 ASY0148 ROTOMOLED RIDER ELECTRONICS BAD0085 THREAD LOCKING ADHESIVE 1 BAB0032 LABEL - TAMPER RESISTANT SURFACE WARNING BAE0595 WASHER - 3/8" SAE FLAT 22 BAE0248 BOLT - 1/2"-20 x 3-3/4" HEX HEAD 1 BAE0621 NUT - 3/8"-16 ZINC HEX w/LOCKING RING 4 BAE0595 WASHER - 3/8" SAE FLAT BAE0664 BOLT - 3/8"-16 X1 * 10WITON HEAD - S.S. 4 BAE0661 DOLT - 3/8"-16 ZINCKING RING </th <th>1 1 1 2 1 25 7 14 4 1 2 1</th>	1 1 1 2 1 25 7 14 4 1 2 1
	1 1 1 1







Fasteners

Inspect for loose fasteners.

Tightening torque specifications are:

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

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

Plastic Parts

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

Castings

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

Welds

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

Finish

· Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with colormatching paint and allow to dry. Recoat area with colormatching paint if required. Drying time is approximately 8 hours between coats.

Sound Unit

Inspect for proper operation and replace batteries as needed.

Footings

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance

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







Inspection Form

- 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	Inspe Code	Date Repairs Completed	
Inspect plastic parts for damage.		Medium		 	Inspection Codes
Inspect spring connections for tightness.		High			P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium			NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High			
Inspect footing to insure support is secure and footing is not damaged	d.	Low			
Inspect surfacing to insure proper depth and distribution.		High			
Inspect sound unit for proper operation and replace batteries as need	led.	Medium			
Inspector: Name (Please Print)	Signature:			 Da	ate://

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date
Repairer: Name (Please Print)	Signature:	Date: /	/





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

Installation Guidelines

Identify all parts and thoroughly read the assembly instructions before beginning construction.

Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and noencroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

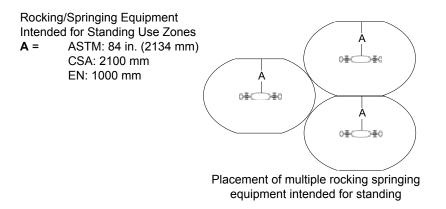
 ASTM compliance: For rocking/springing equipment intended for standing. the use zone should extend on all sides a minimum distance of 84 inches (2134 mm). This use zone may not be overlapped by the use zones of adjacent play equipment. See diagram.

CSA compliance: For rocking/springing equipment intended for standing, ٠ the use zone should extend on all sides a minimum distance of 2100 mm. This use zone may not be overlapped by the use zones of adjacent play equipment. See diagram.

EN Compliance: For rocking/springing equipment intended for standing, the use zone should extend on all sides a minimum distance of 1000 mm.

Site layout is a critical part of the overall installation. Footings must be ٠ measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

Good drainage around the structure and its supports is important. Inquire ٠ with local contractors for appropriate recommendations.

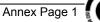


After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

 Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

Insure that Age Appropriate and Hard Surface Warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.



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

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

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

Maintenance

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

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

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

FINAL INSPECTION

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

• Insure that hard surface warning/Playworld Systems[®] identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For locations complying with ASTM F1487 or CSA Z-614, Age Appropriate labels must also be applied in a visible location.

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



Surfacing Warning Label



ME05 Rock 'n Cross



An exciting new play event from BigToys, the ME05 is presented. Children in the elementary age group nowadays enjoy a challenge which they have to "figure out". Once they give it a try, the ME05 displays a wide variety of complex play opportunities. First off, it's a rocking event. Children sit on the bench surfaces at either end to rock like a see-saw. Then, the bolder ones grab onto the hand grips underneath to ride as the curved carriage piece rocks back and forth over the pipe track. The children will naturally explore opportunities for "games with rules"; communication, co-operation and socialization occur as everyone has fun trying out the many tricks available on the ME05.



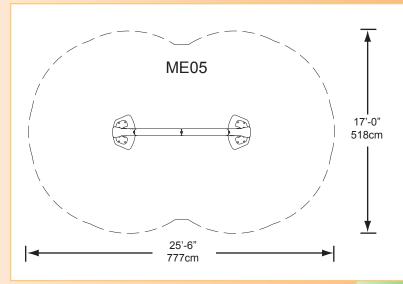
Product development is an on going process. For this reason we reserve the right to make modifications in the form of product improvements in all our products.

Equipment must be installed over resilient surfacing appropriate to the safety guidelines for your area.

ME05

Best User Age: 5-12 Estimated Capacity: 4-6 Space Required, Including Use Zone: 25'-6" x 17'-0" / 777cm x 518cm Highest Designated Play Surface: 7'-0" / 208cm Hours to Install: 3 Footing: In Ground Posts, Concrete Required (est:19-26 cubic feet)

Ground Level Play Event: Rocking





Scale: 1/8" = 1'



Product development is an on going process. For this reason we reserve the right to make modifications in the form of product improvements in all our products.

Equipment must be installed over resilient surfacing appropriate to the safety guidelines for your area.

MADISON, WI OPTION #1



(800) 775-8937 *Main* (608) 423-7655 *Fax*

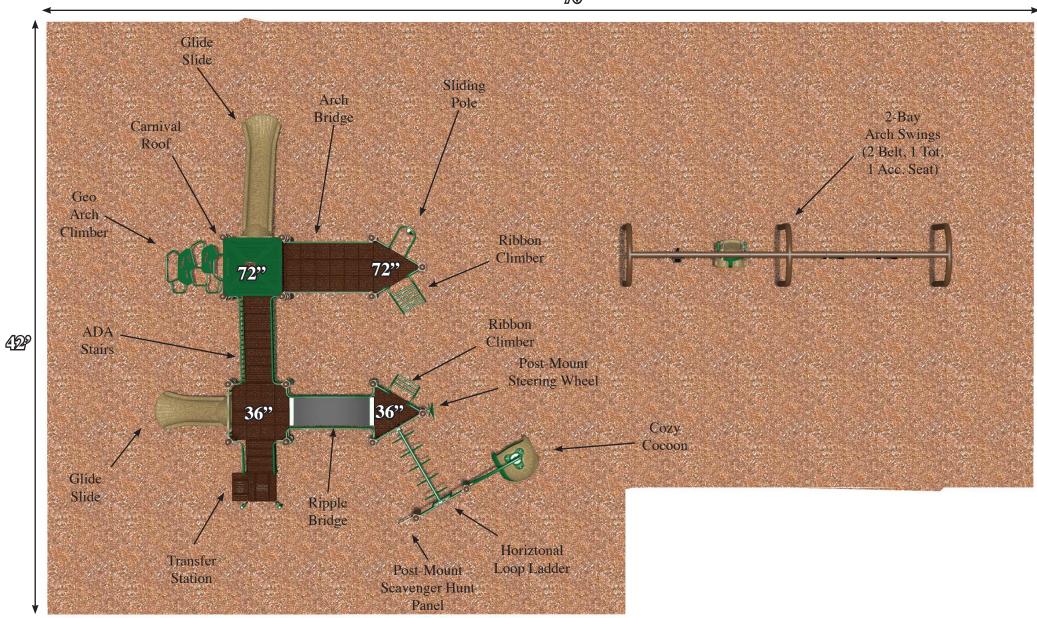
809 Bluebird Pass Cambridge, WI 53523

info@leerecreation.com www.leerecreation.com

Providing Fun Across Wisconsin Since 1995



MADISON, WI OPTION #1



709



(800) 775-8937 *Main* (608) 423-7655 *Fax*

809 Bluebird Pass Cambridge, WI 53523

info@leerecreation.com www.leerecreation.com

Providing Fun Across Wisconsin Since 1995

Complies With:

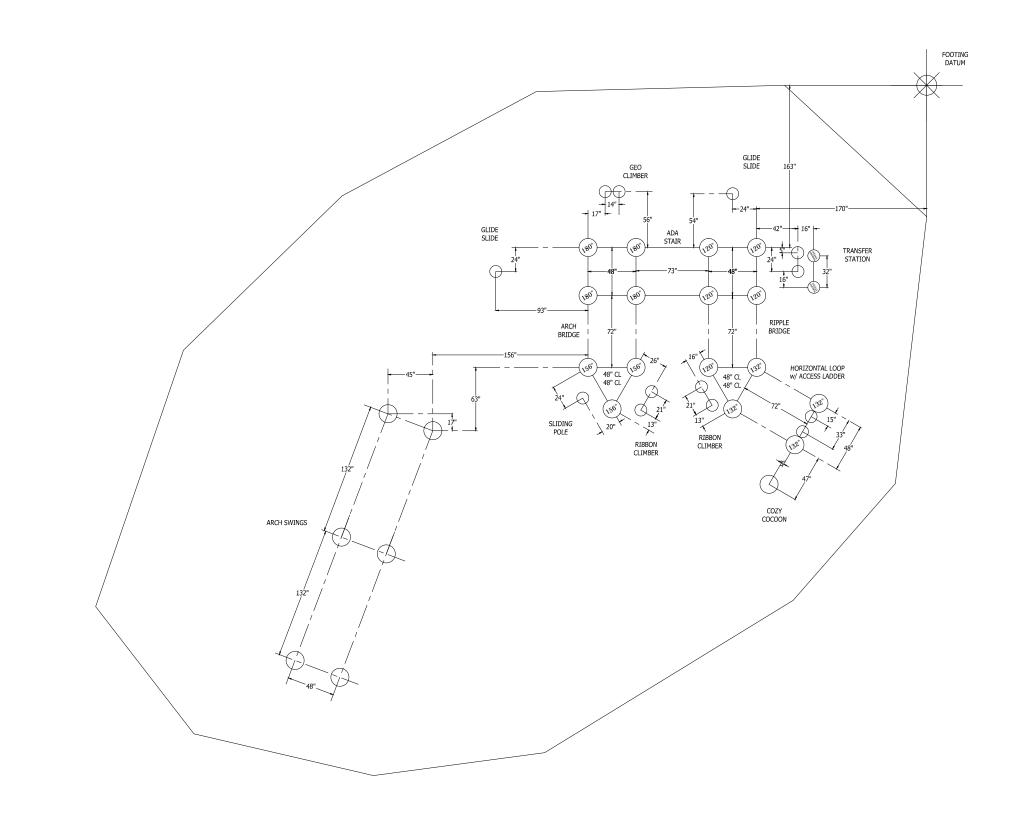
- AST
 - ASTM F1487-01
- ASTM F1487-98
- CPSC #325
- ADA-ADAAG

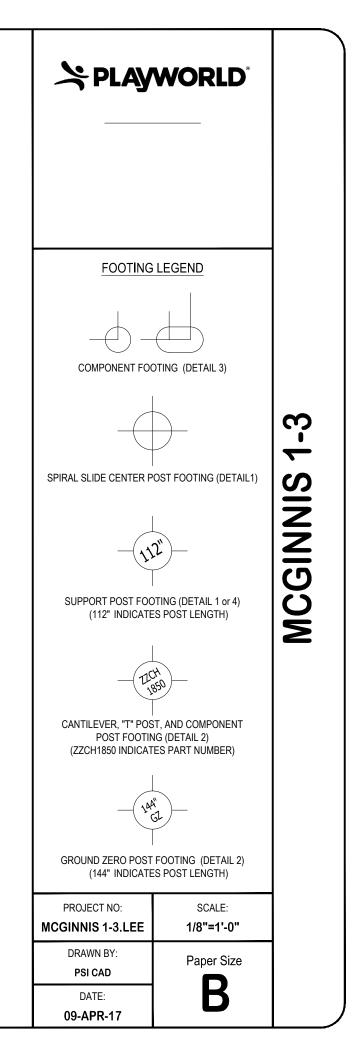
Design Number: PW120516-1 Use Zone: 70' x 42'

- # of Users: 48
- # of Active Play Events: 16
 - Age: 5 to 12

Colors Shown:









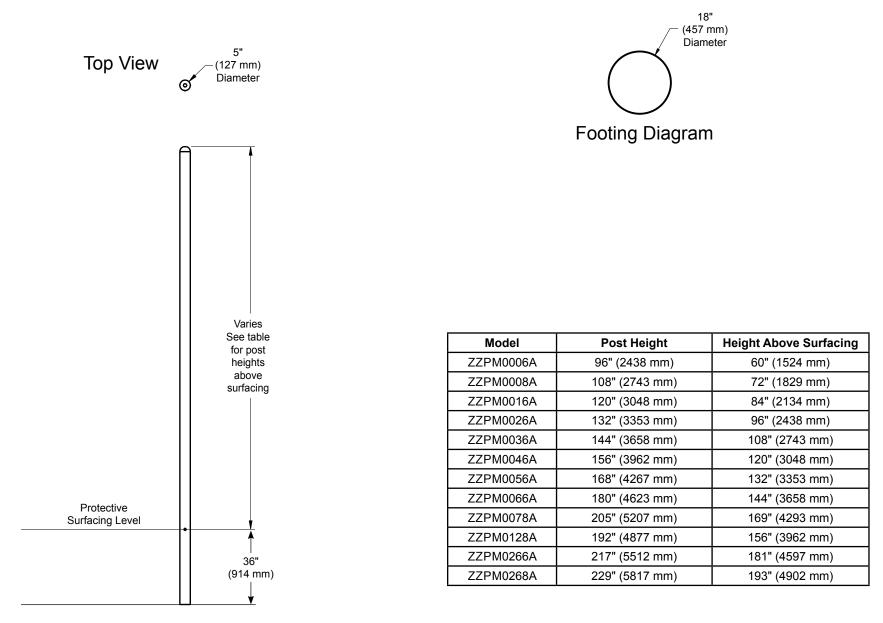
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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

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

Step 2: Separate and identify all components and hardware.

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0036A - AL	UMINUM SUPPORT POST w/ CAP 144 in. (3658 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0046A - AL	UMINUM SUPPORT POST w/ CAP 156 in. (3962 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1	

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0078A - AL	.UMINUM SUPPORT POST w/ CAP 205 in. (5207 m	m)
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0128A - AL	.UMINUM SUPPORT POST w/ CAP 192 in. (4877 m	m)
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - AL	.UMINUM SUPPORT POST w/ CAP 217 in. (5512 m	m)
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - AL	.UMINUM SUPPORT POST w/ CAP 229 in. (5817 m	m)
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

1

CAP0427



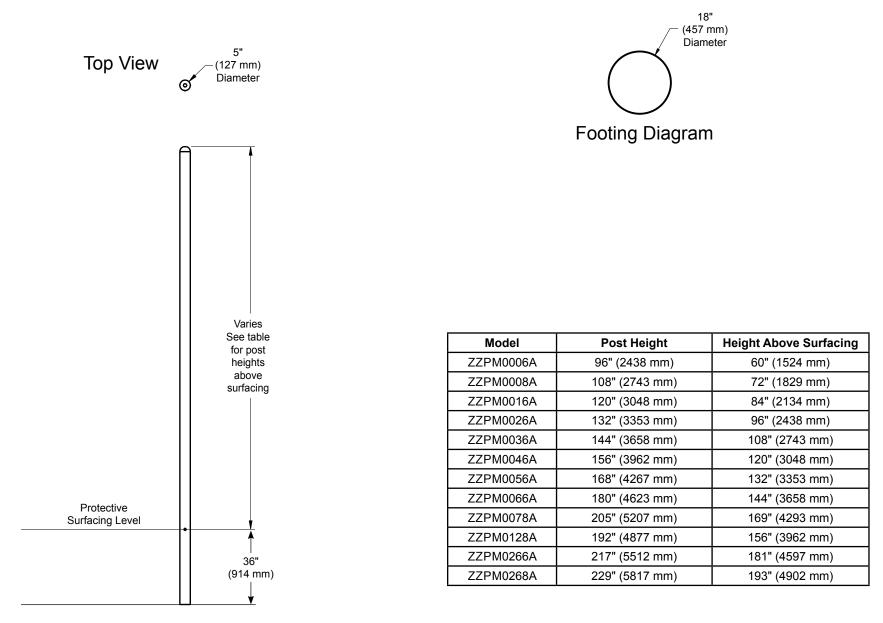
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0036A - AL	UMINUM SUPPORT POST w/ CAP 144 in. (3658 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0046A - AL	UMINUM SUPPORT POST w/ CAP 156 in. (3962 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1	

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0078A - AL	.UMINUM SUPPORT POST w/ CAP 205 in. (5207 m	m)
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0128A - AL	.UMINUM SUPPORT POST w/ CAP 192 in. (4877 m	m)
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - AL	.UMINUM SUPPORT POST w/ CAP 217 in. (5512 m	m)
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - AL	.UMINUM SUPPORT POST w/ CAP 229 in. (5817 m	m)
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

1

CAP0427



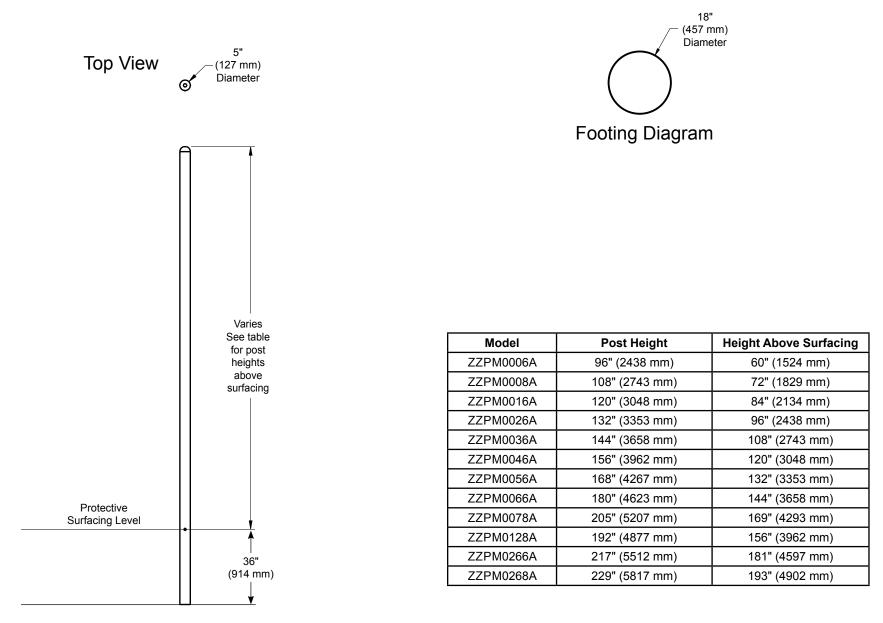
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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

Step 4: Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth. **Note:** Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

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



PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0036A - AL	UMINUM SUPPORT POST w/ CAP 144 in. (3658 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0046A - AL	UMINUM SUPPORT POST w/ CAP 156 in. (3962 m	m)	
PART NO.	DESCRIPTION	QTY.	
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1	
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)			
PART NO.	DESCRIPTION	QTY.	
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1	

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0078A - AL	.UMINUM SUPPORT POST w/ CAP 205 in. (5207 m	m)
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0128A - AL	.UMINUM SUPPORT POST w/ CAP 192 in. (4877 m	m)
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - AL	.UMINUM SUPPORT POST w/ CAP 217 in. (5512 m	m)
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - AL	.UMINUM SUPPORT POST w/ CAP 229 in. (5817 m	m)
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

1

CAP0427



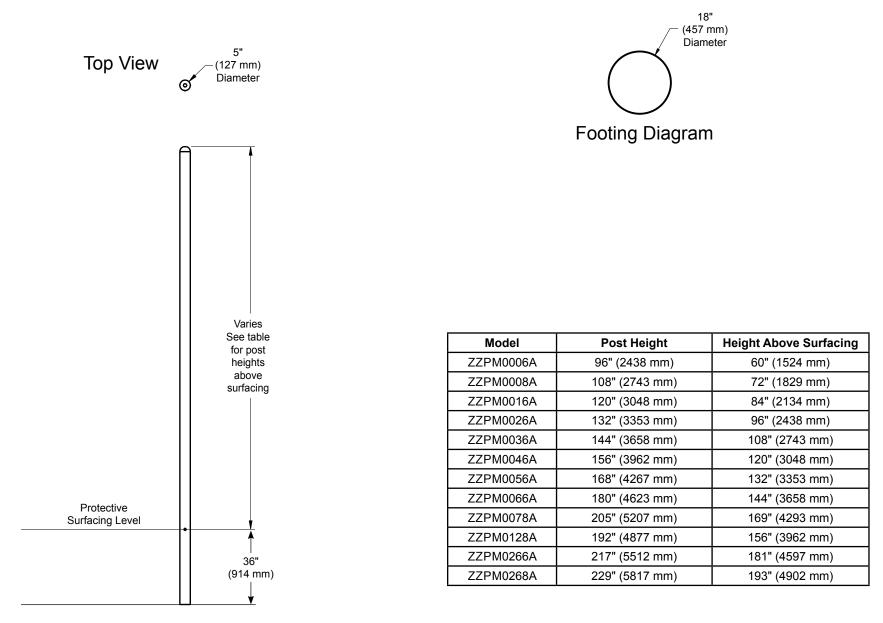
Playmakers[®] Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A Aluminum Support Post w/ Cap 96 in. (2438 mm) to 229 in. (5817 mm)

Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	(refer to table on the next page)
Concrete Required:	

Assembly View (representative model)





Elevation View



Page 2 of 4 Models *PM0006A, *PM0008A, *PM0016A, *PM0026A, *PM0036A, *PM0046A, *PM0056A, *PM0066A, *PM0078A, **PM0128A, ***PM0266A, ***PM0268A *ECN 343, **PA686, ***PA 0997

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Final Details.

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PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1
PM0008A - AL	UMINUM SUPPORT POST w/ CAP 108 in. (2743 m	m)
PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1
PM0016A - AL	UMINUM SUPPORT POST w/ CAP 120 in. (3048 mi	m)
PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1
PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1
PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1
PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1
PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)		
PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)		
PART NO. CAP5021	DESCRIPTION POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)		
PART NO. CAP5023	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)		
PART NO. CAP5063	DESCRIPTION POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	QTY. 1
PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)		
PART NO. CAP0425	DESCRIPTION POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	QTY . 1
PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)		
PART NO.	DESCRIPTION	QTY.

POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"



GA, ***PM0268A

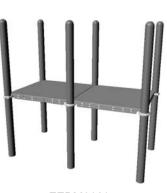
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CAP0427



Playmakers[®] PM0616 and PM0629 Square and Long Coated Perforated Decks





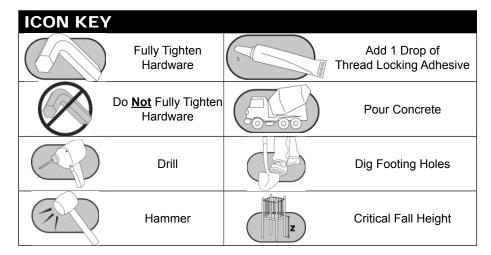
ZZPM0616 Square Deck

ZZPM0629 Long Deck

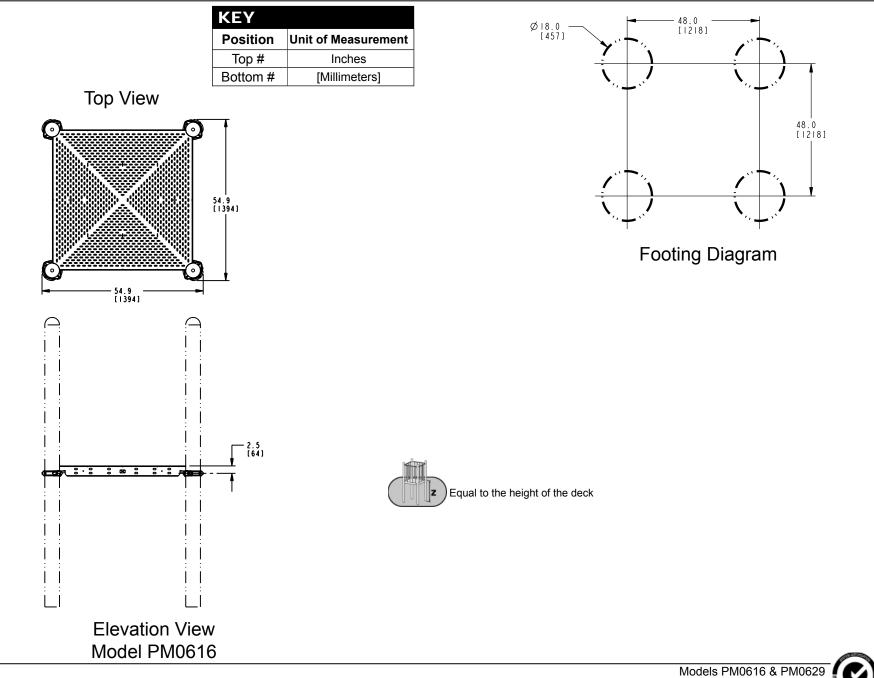
Assembly View

Installation Preparation

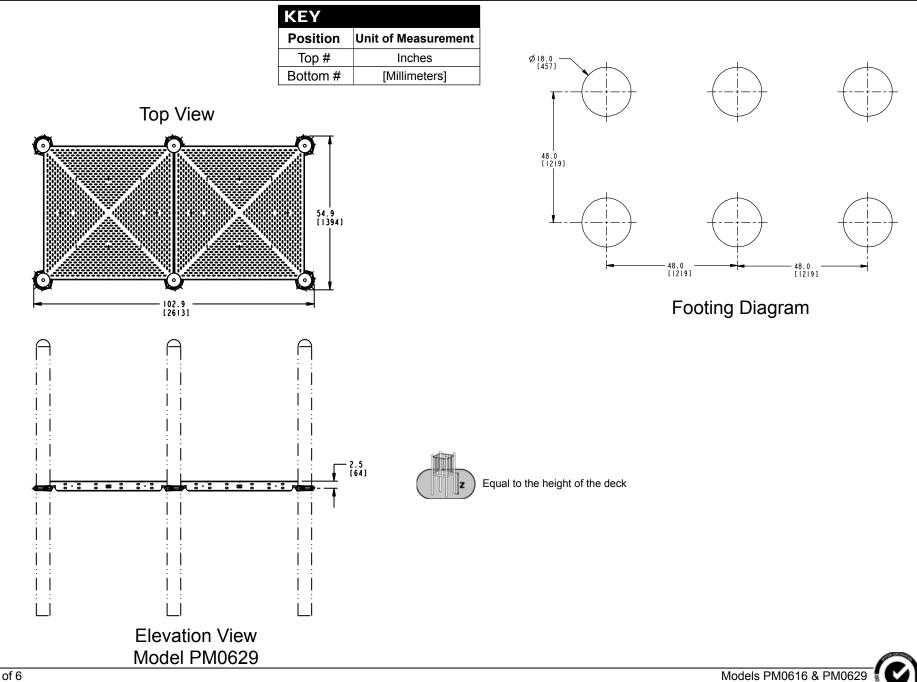
Recommended Crew (PM0616):	Two (2) adults
Recommended Crew (PM0629):	Four (4) adults
Installation Time (PM0616):	1 man-hour
Installation Time (PM0629):	2 man-hours
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



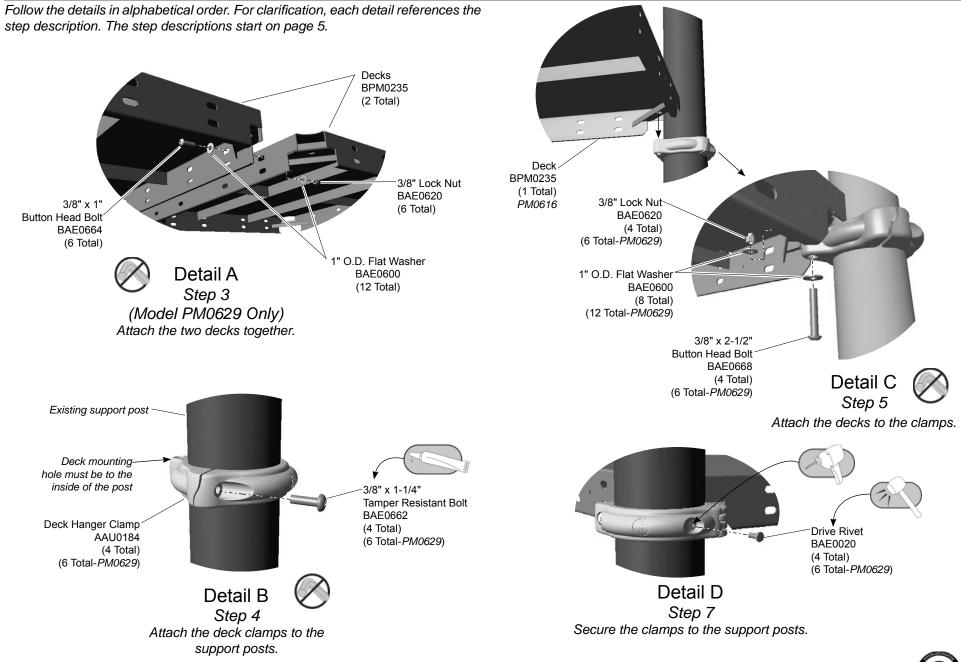




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Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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.

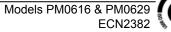
PM0616 - SQUARE COATED PERFORATED DECK

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



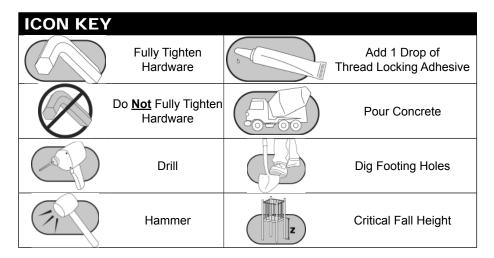




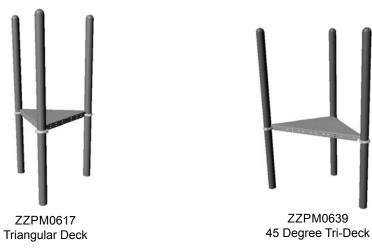
Playmakers[®] PM0617, and PM0639 Triangular and 45 DegreeTri-Deck Coated Perforated Decks

Installation Preparation

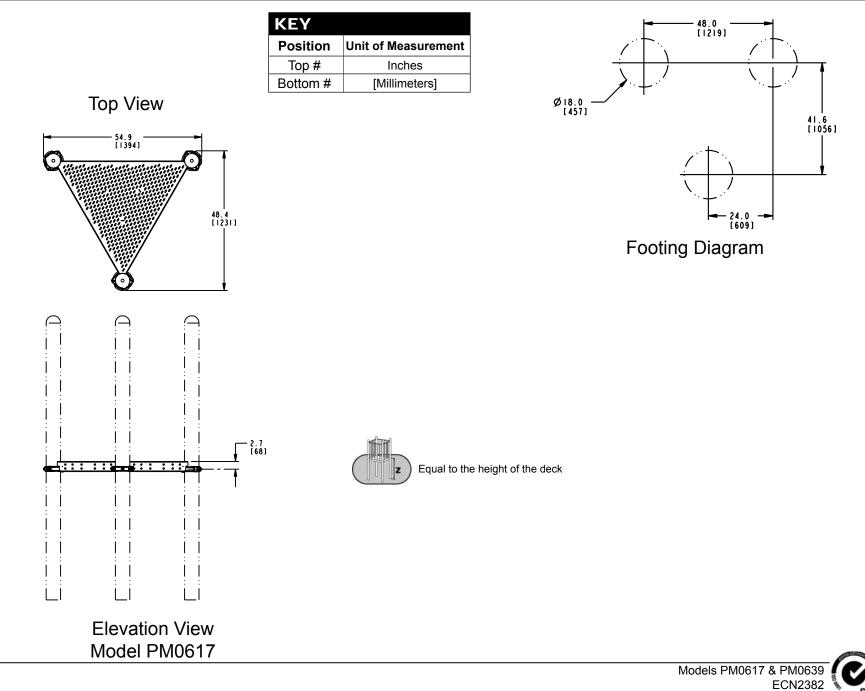
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

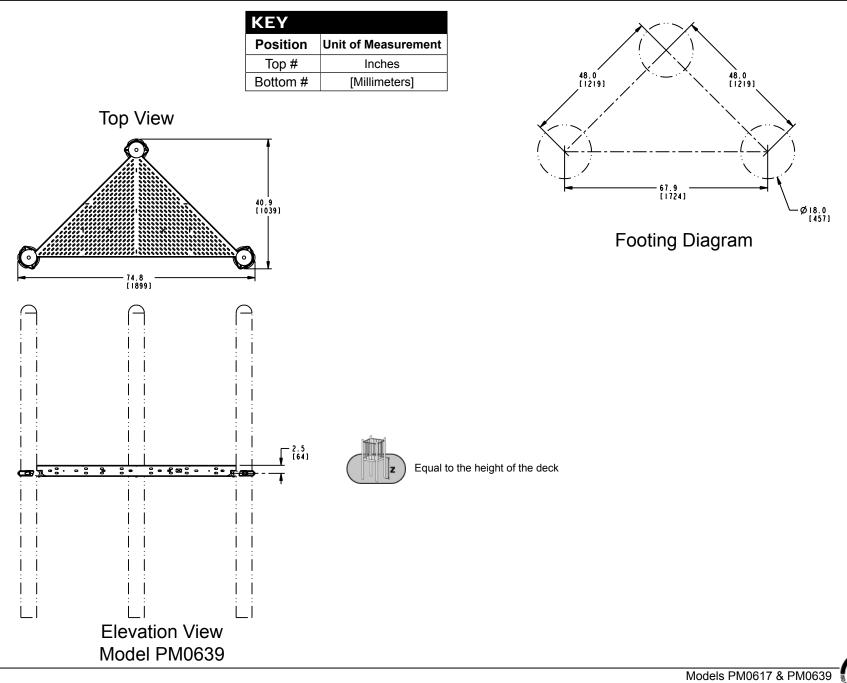






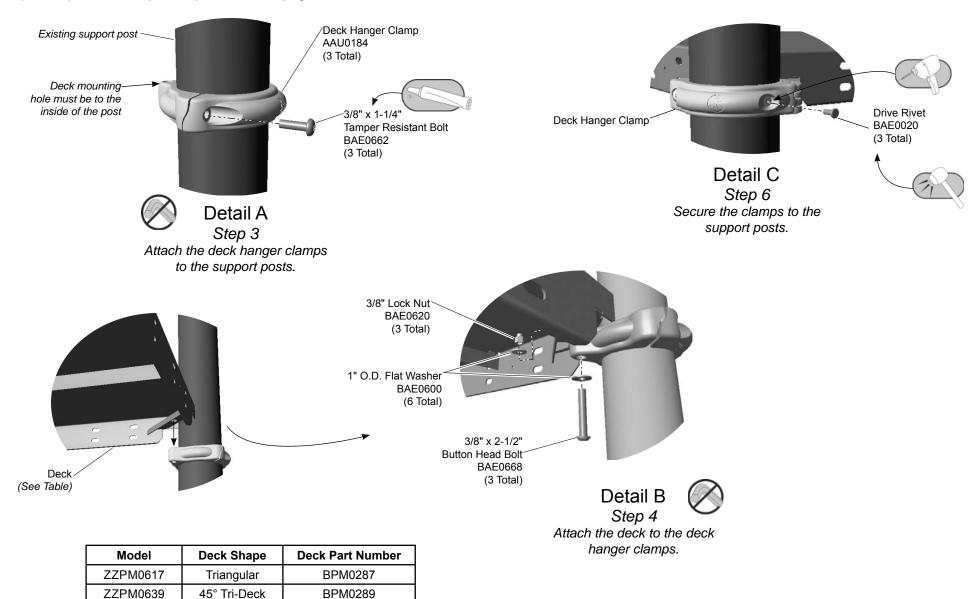
Assembly View





ECN2382

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



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.

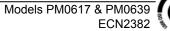
PM0617 - TRIANGULAR COATED PERFORATED DECK

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



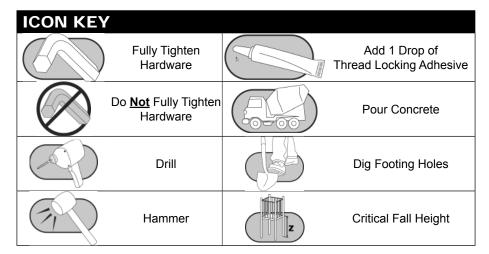




Playmakers[®] Model PM2006, PM2006S, PM2007 and PM2007S 36 in. (914 mm) Transfer Station and 36 in. (914 mm) Transfer Station w/Tall Guardrail In-ground and Surface Mount

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

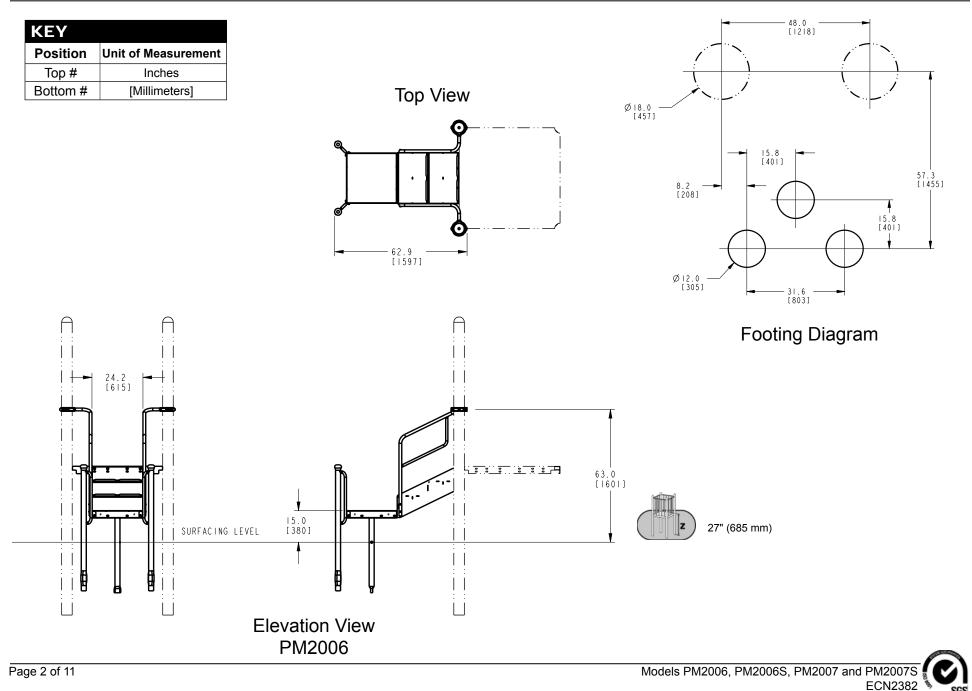




Models PM2006, PM2006S, PM2007 and PM2007S



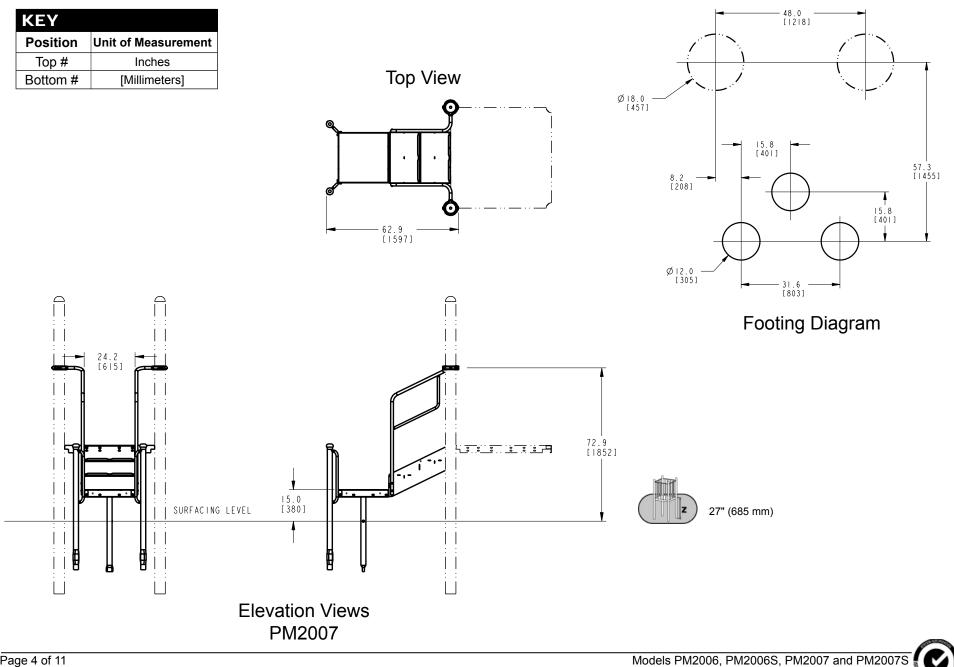
Assembly View (representative model)



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El	evation View PM2006S	C
Page 3 of 11		Models PM2006 PM2006S PM2007 and PM2007S



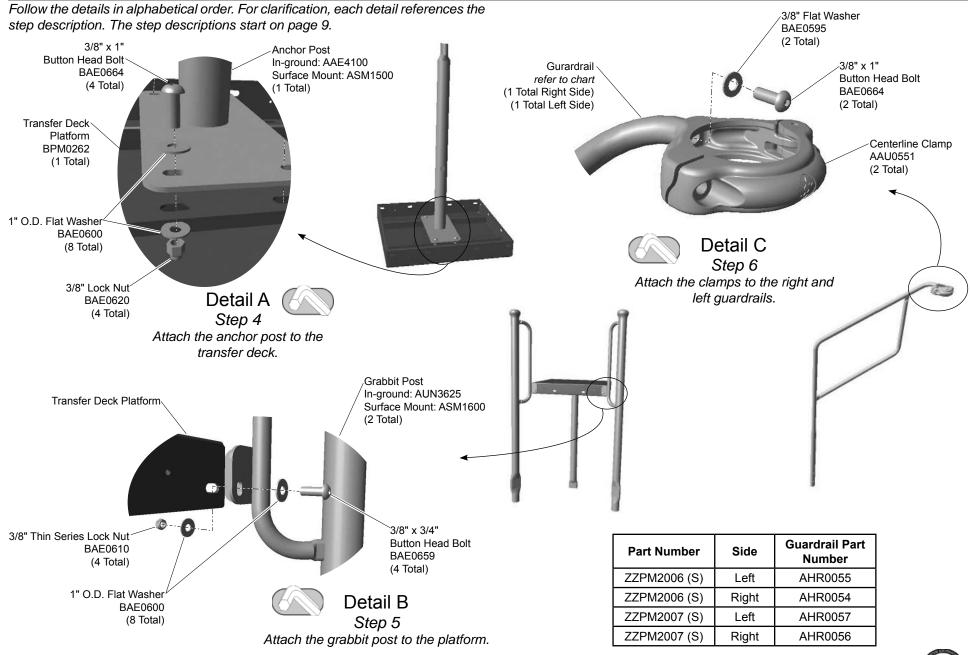


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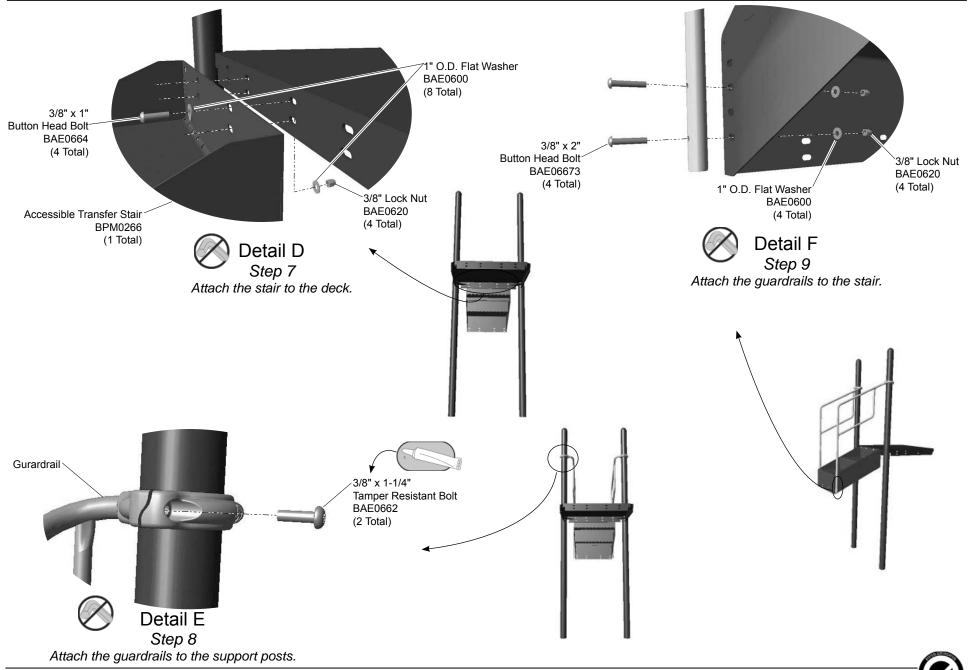
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		Elevation Views			
		PM2007S			
Page 5 of 11				Models PM2006, PM2006S, PM20	007 and PM2007S

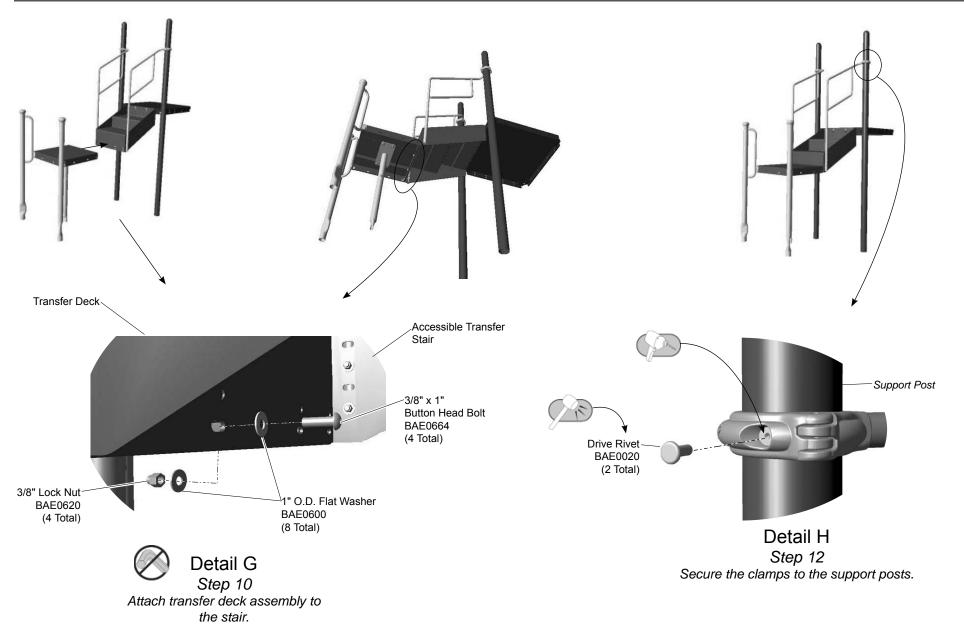












Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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 inground 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.



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

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





ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	(
AAE4100	POST - 14" x 37-3/16" w/PLATE	1	AAE4100	POST - 14" x 37-3/16" w/PLATE	
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1	AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1	AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	
AUN3625	POST - 60-9/16" GRABBIT	2	AUN3625	POST - 60-9/16" GRABBIT	
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	
BAE0600	WASHER - 1" O.D. FLAT	36	BAE0600	WASHER - 1" O.D. FLAT	
BAE0610	NUT - 3/8"-16 THIN LOCK	4	BAE0610	NUT - 3/8"-16 THIN LOCK	
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4	BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4	BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1	BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1	BPM0266	STAIR - 21" ACSBLE COATED TRANSFER W/SLOTS	

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

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



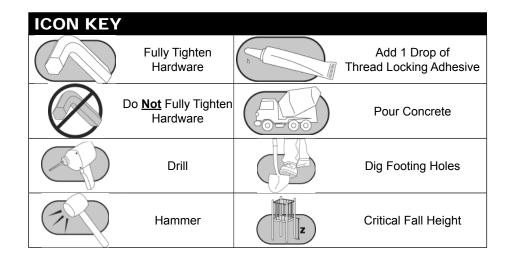


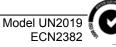


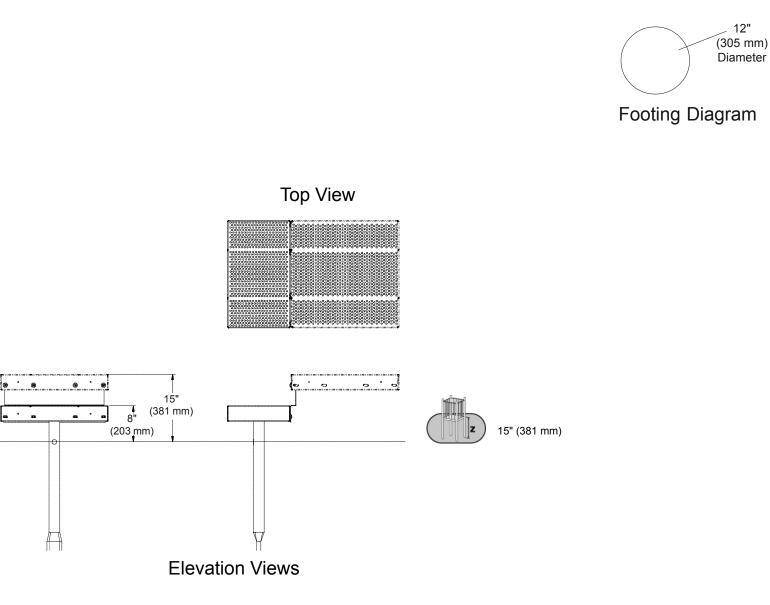
Universal Model UN2019 Platform Approach Step

Installation Preparation

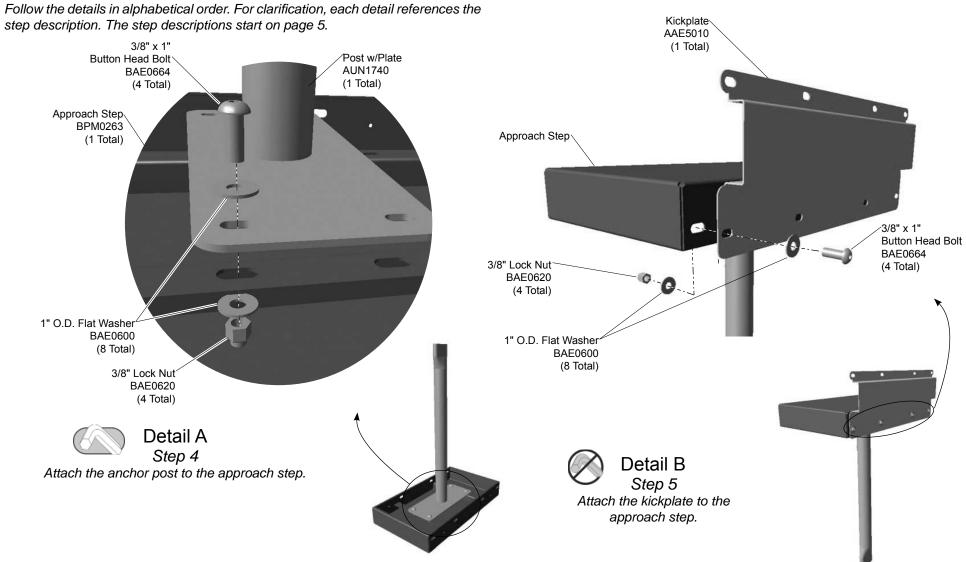
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



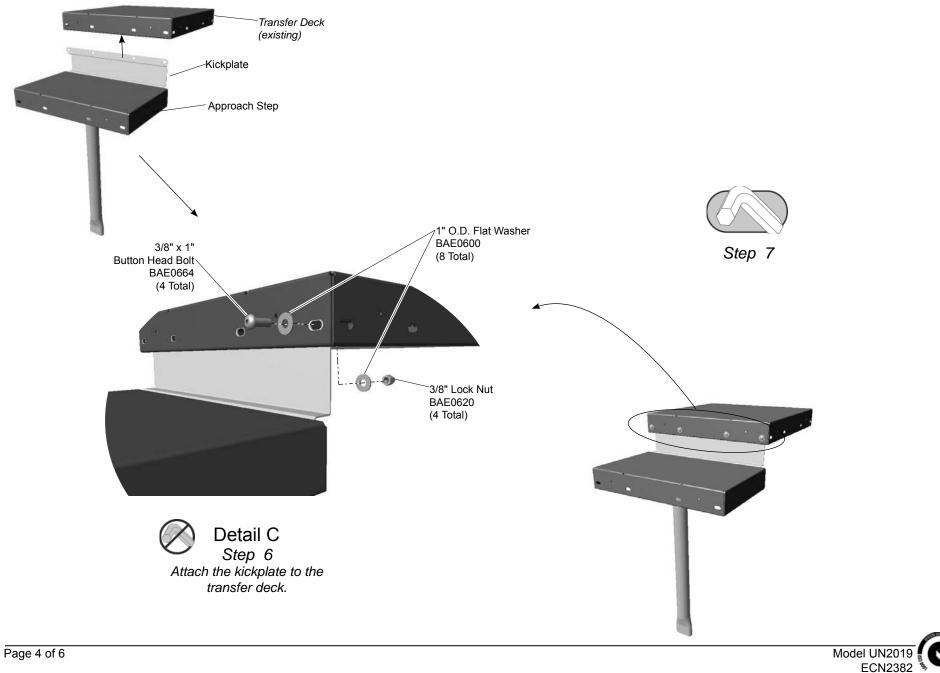












Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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





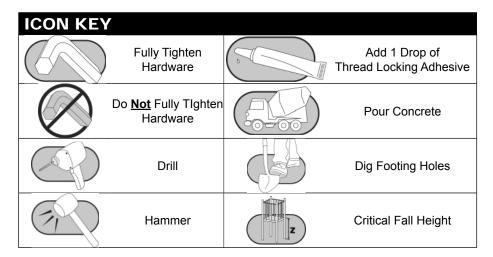
Model UN2019 ECN2382

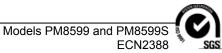


Playmakers[®] Models PM8599 and PM8599S Cozy Cocoon In-Ground and Surface Mount

Installation Preparation

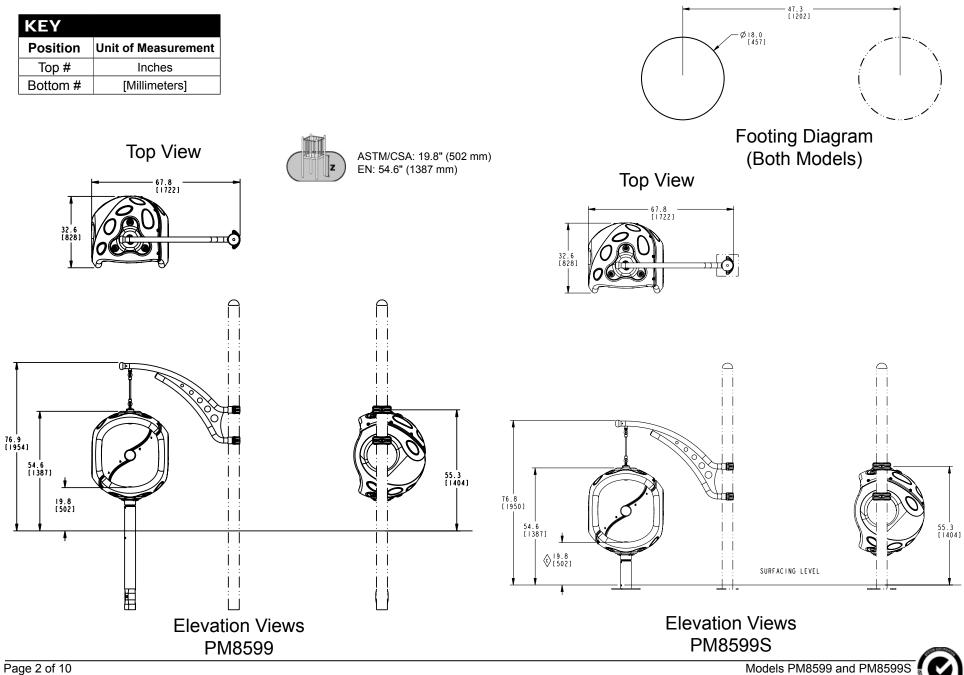
Recommended Crew:	Two (2) adults
Installation Time (in-ground):	1.5 man-hours
Installation Time (surface mount):	1 man-hour
Concrete Required:	0.13 cubic yard (0,10 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14





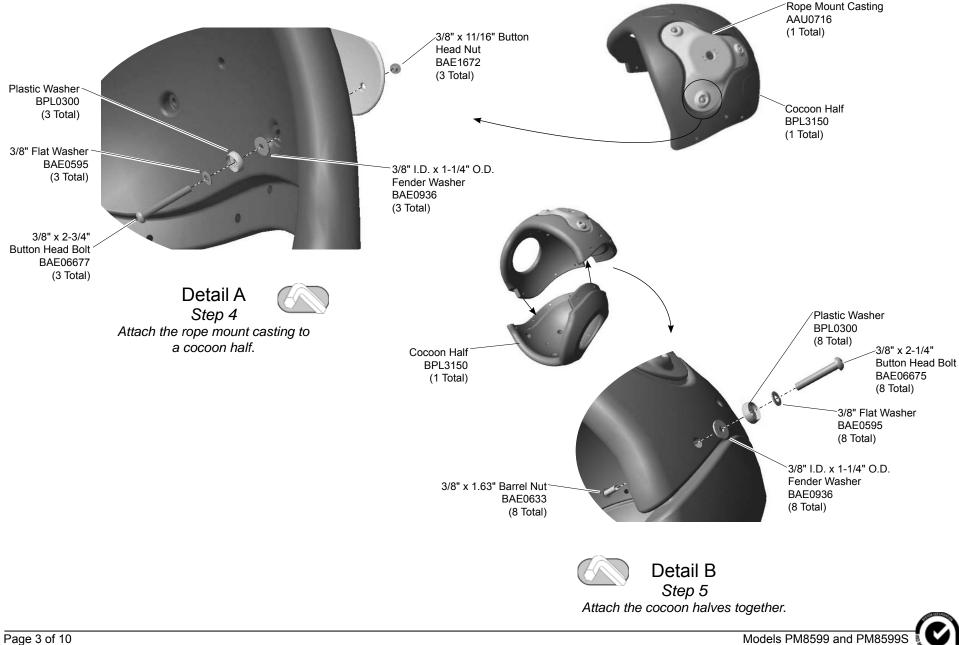


Assembly View (representative model)

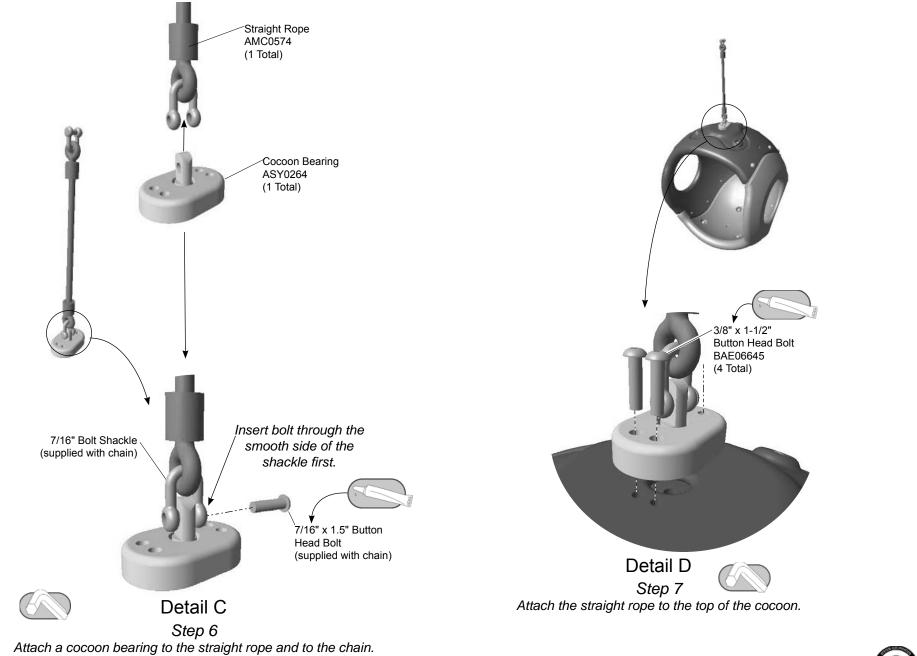


ECN2388

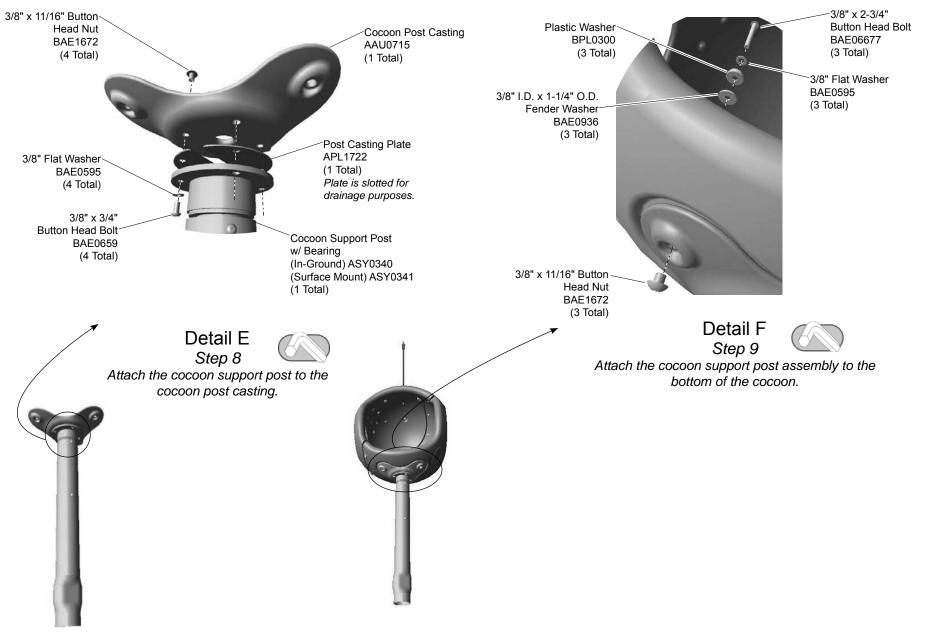
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.

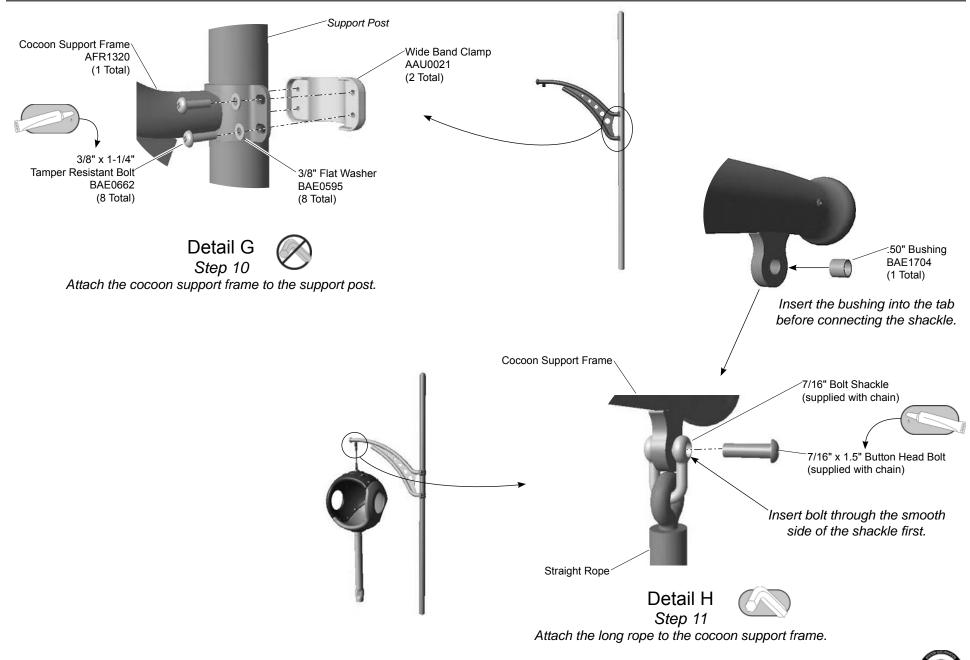


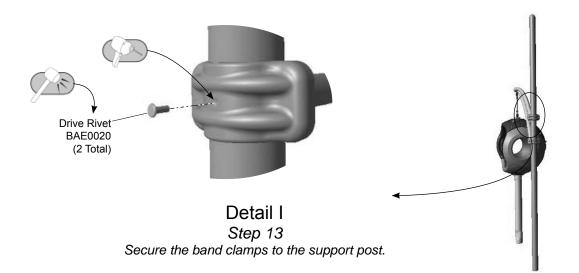
ECN2388

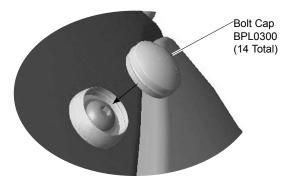




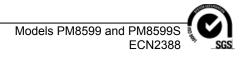








Detail J Step 14 Insert the bolt caps into the plastic washers.



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

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

Torque Specifications:

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

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

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

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

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

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

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

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

Final Details.

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

Torque Specifications:

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

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

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

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



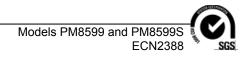
Step 13: Install drive rivets. See **Detail I**. After the equipment assembly is complete, install a drive rivet in each band clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of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

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

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

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

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



PM8599 - COZY COCOON

PM8599S - COZY COCOON SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	2	AAU0021	CLAMP - 5" WIDE ALUMINUM	2
AAU0715	COCOON MOUNT (POST/BEARING)	1	AAU0715	COCOON MOUNT (POST/BEARING)	1
AAU0716	COCOON MOUNT (ROPE)	1	AAU0716	COCOON MOUNT (ROPE)	1
AFR1320	FRAME - COCOON ARM (PM)	1	AFR1320	FRAME - COCOON ARM (PM)	1
AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1	AMC0574	16.53" STRAIGHT ROPE w/2 SHACKLES	1
APL1722	PLATE - 7.75" O.D. x 12 GA	1	APL1722	PLATE - 7.75" O.D. x 12 GA	1
ASY0264	COCOON BEARING	1	ASY0264	COCOON BEARING	1
ASY0340	ASSEMBLY - COCOON BEARING	1	ASY0341	ASSEMBLY - COCOON BEARING (SM) 5-12	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	26	BAE0595	WASHER - 3/8" SAE FLAT	26
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8	BAE0633	NUT - 3/8"-16 x 1.63 BARREL	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	4	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - S.S.	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	4	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - S.S.	4
BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	8	BAE06675	BOLT - 3/8"-16 x 2-1/4" BUTTON HEAD - S.S.	8
BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - S.S.	6	BAE06677	BOLT - 3/8"-16 x 2-3/4" BUTTON HEAD - S.S.	6
BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14	BAE0936	WASHER - 3/8" I.D. x 1-1/4" O.D. FENDER	14
BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10	BAE1672	NUT - 3/8"-16 x 11/16" BUTTON HEAD	10
BAE1704	BUSHING44" I.D. x .56" O.D. x .50"	1	BAE1704	BUSHING44" I.D. x .56" O.D. x .50"	1
BPL0300	CAP - 3/8" BOLT	14	BPL0300	CAP - 3/8" BOLT	14
BPL3150	COCOON	2	BPL3150	COCOON	2
ALB0025	LABEL - AGE APPROPRIATE SHEET	1	ALB0025	LABEL - AGE APPROPRIATE SHEET	1







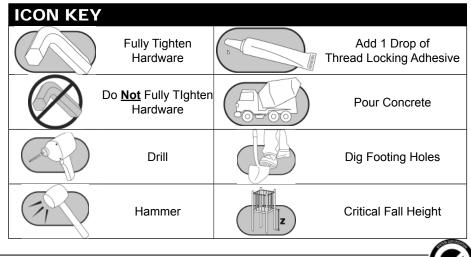
Assembly View (representative model)

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

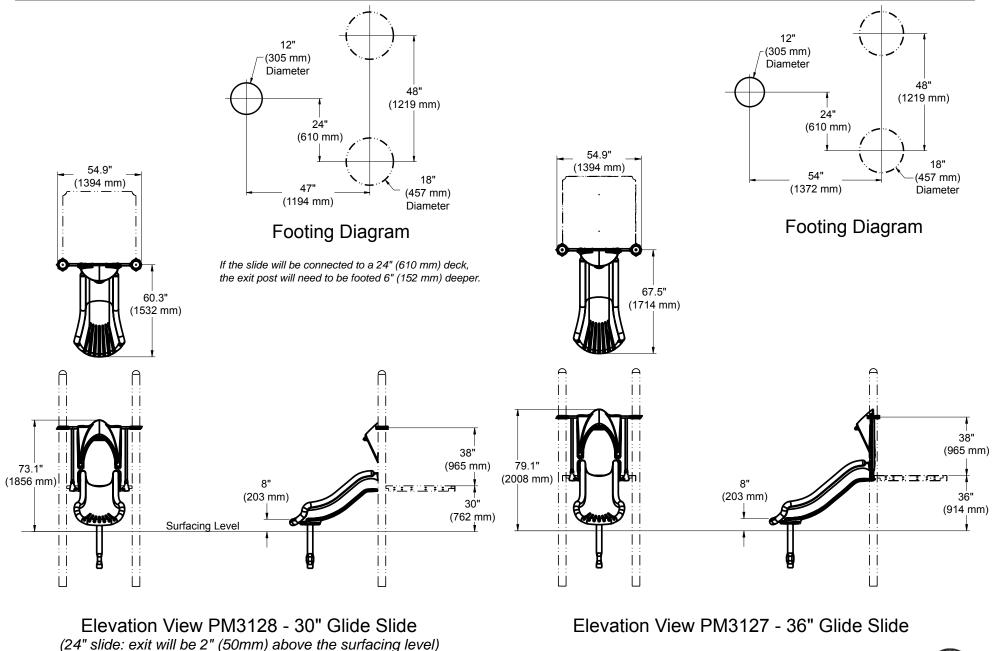
Playmakers[®] Models PM2658, PM2696, PM3126-PM3128 24"-72" (610-1829 mm) Glide Slides

Installation Preparation

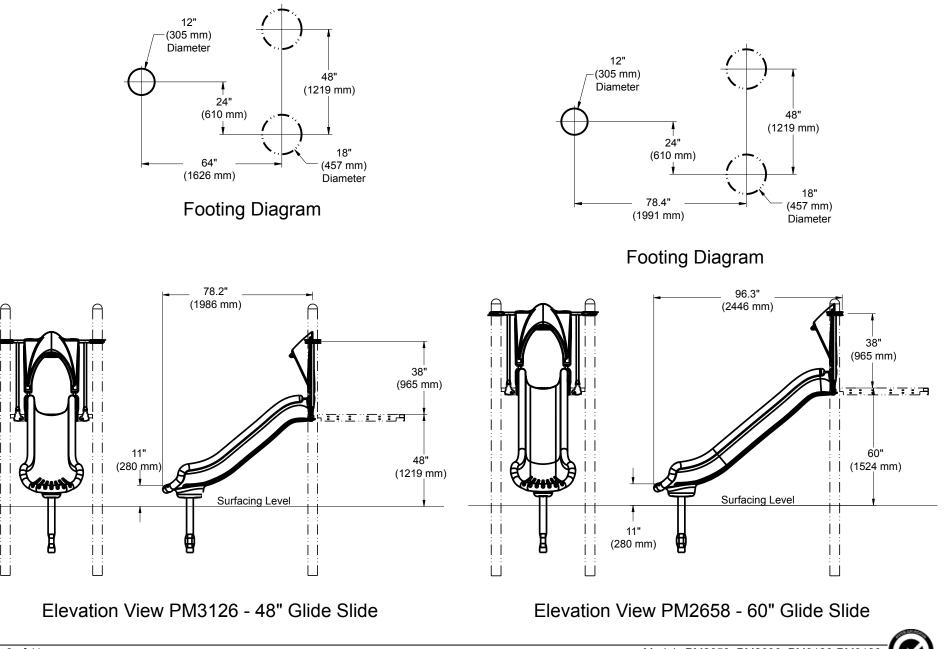
Recommended Crew:	Two (2) adults
Installation Time:	1.5 man-hours
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



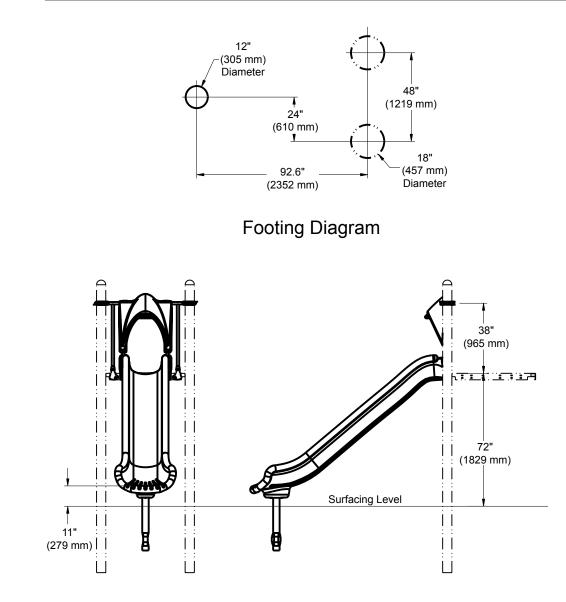








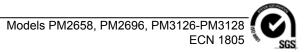


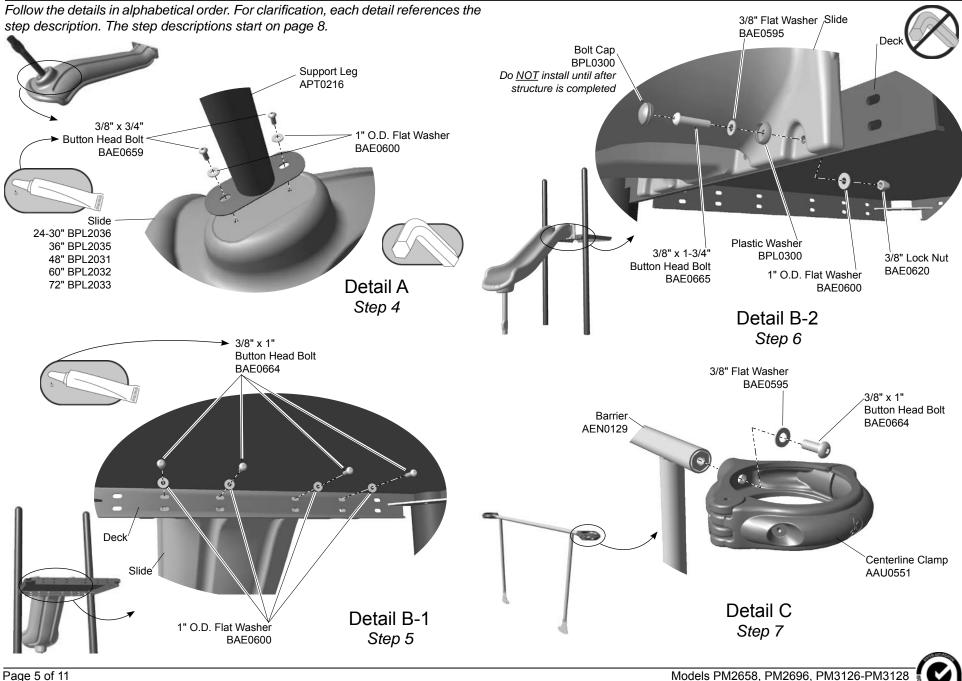


Elevation View PM2696 - 72" Glide Slide

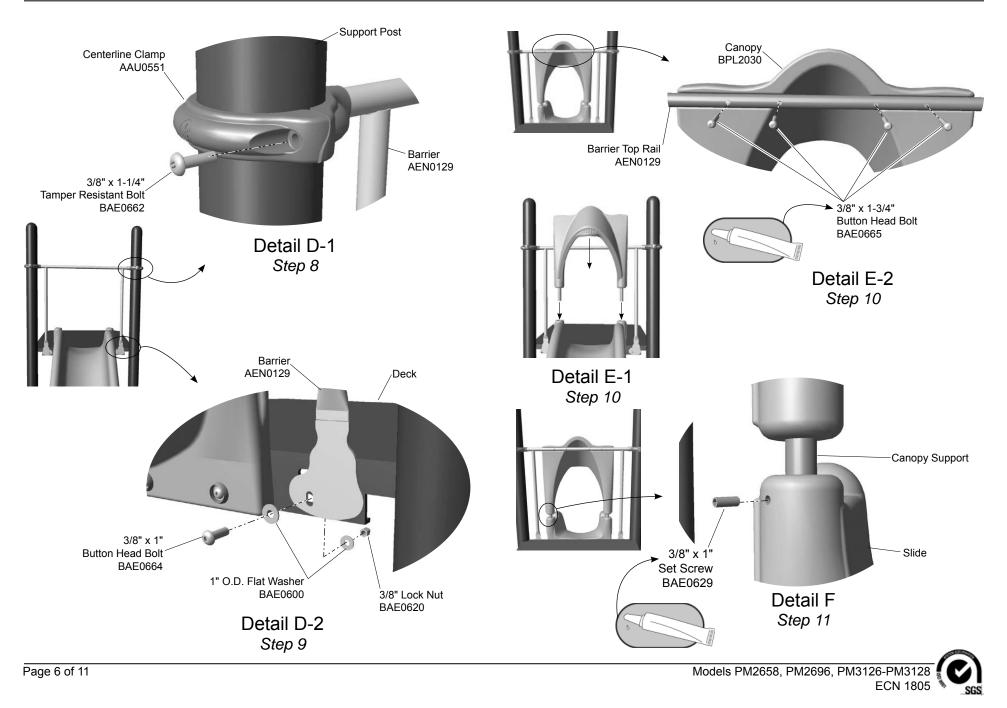


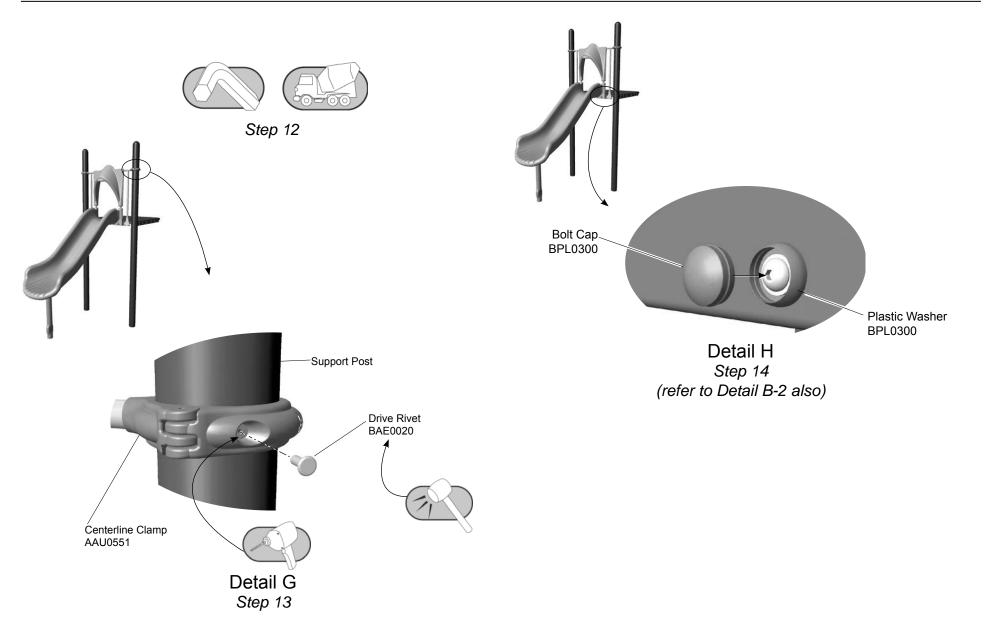
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

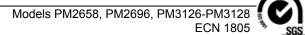




ECN 1805







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.

Models PM2658, PM2696, PM3126-PM3128

Torque specifications :

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

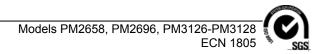


Step 13: Install drive rivets. See **Detail G.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the 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.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	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	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1	BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1	AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1	APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE
BAE0595	WASHER - 3/8" SAE FLAT	6	BAE0595	WASHER - 3/8" SAE FLAT
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0600	WASHER - 1" O.D. FLAT
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2	BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8	BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS
BPL0300	CAP - 3/8" BOLT	4	BPL0300	CAP - 3/8" BOLT
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1	BPL2030	CANOPY - SINGLE GLIDE SLIDE
BPL2033	SLIDE - 72" SINGLE GLIDE	1	BPL2035	SLIDE - 36" SINGLE GLIDE
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1	ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL



QTY.

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" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1









Assembly View (representative model)

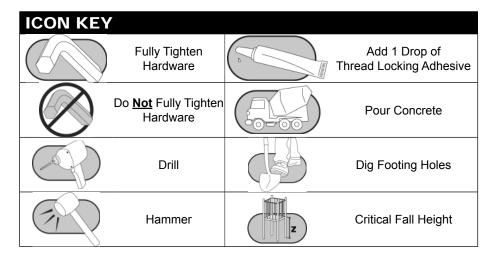
Model	Deck Height
ZZPM8060	36" (915 mm)
ZZPM8070	48" (1220 mm)
ZZPM8080	60" (1525 mm)
ZZPM8090	72" (1830 mm)

Installation Instructions

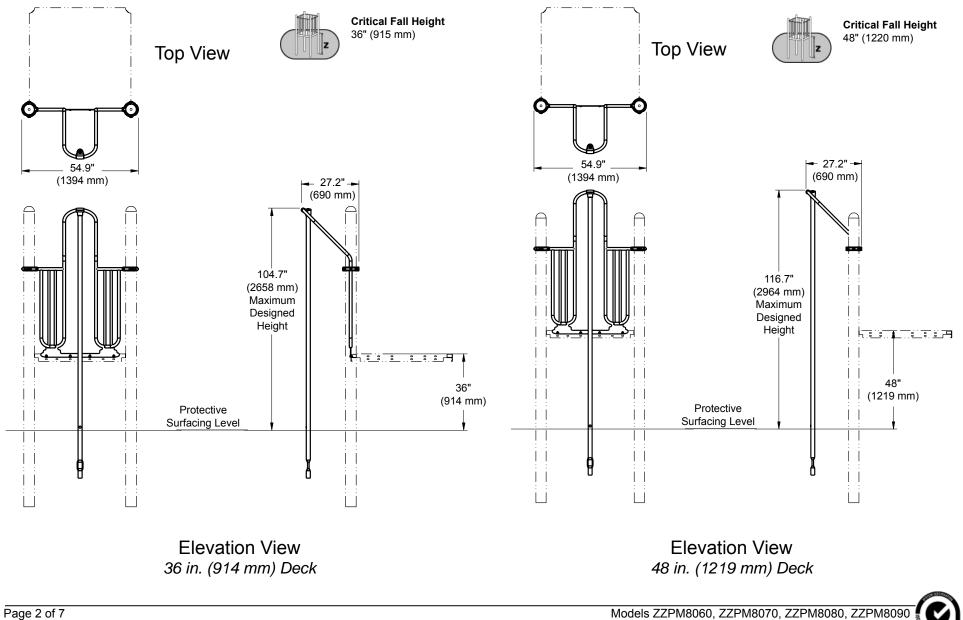
Playmakers[®] Model PM8060, PM8070, PM8080, and PM8090 Sliding Pole 36 in. (915 mm), 48 in. (1220 mm), 60 in. (1525 mm), and 72 in. (1830 mm) Decks

Installation Preparation

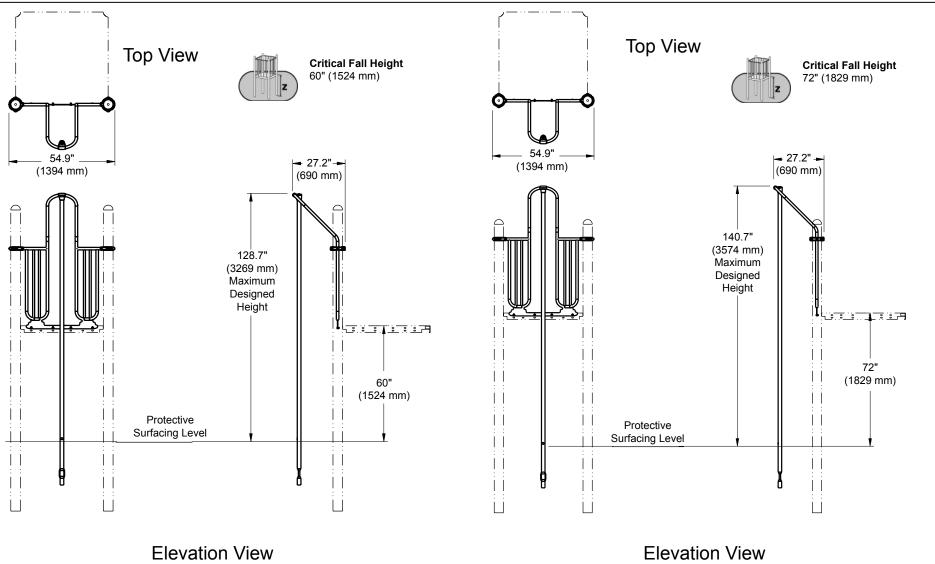
Recommended Crew:	Two (2) adults
Installation Time:	1.5 man-hours
Concrete Required:	0.03 cubic yard (0,02 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 5-12, EN: 6-14









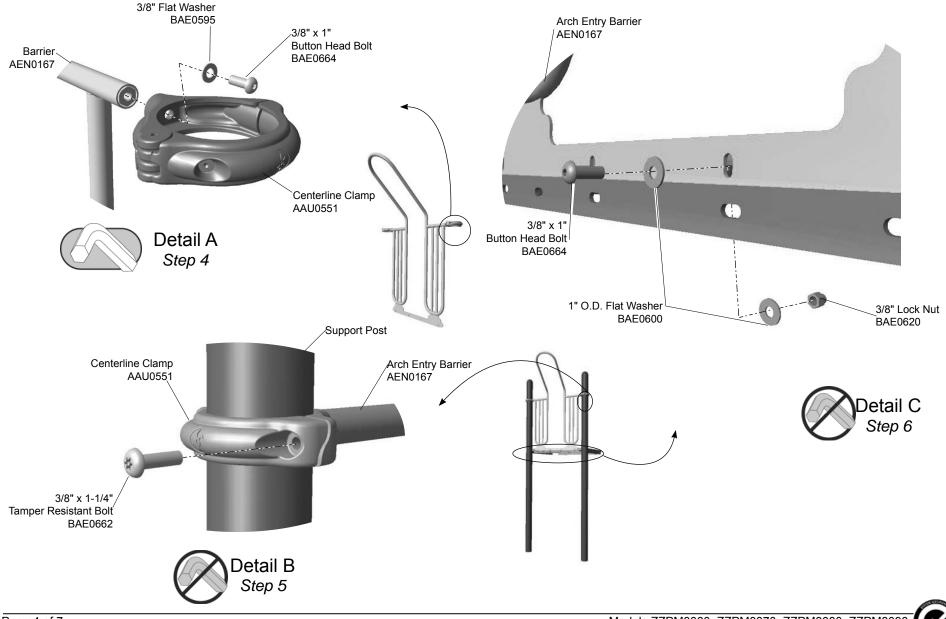


60 in. (1524 mm) Deck

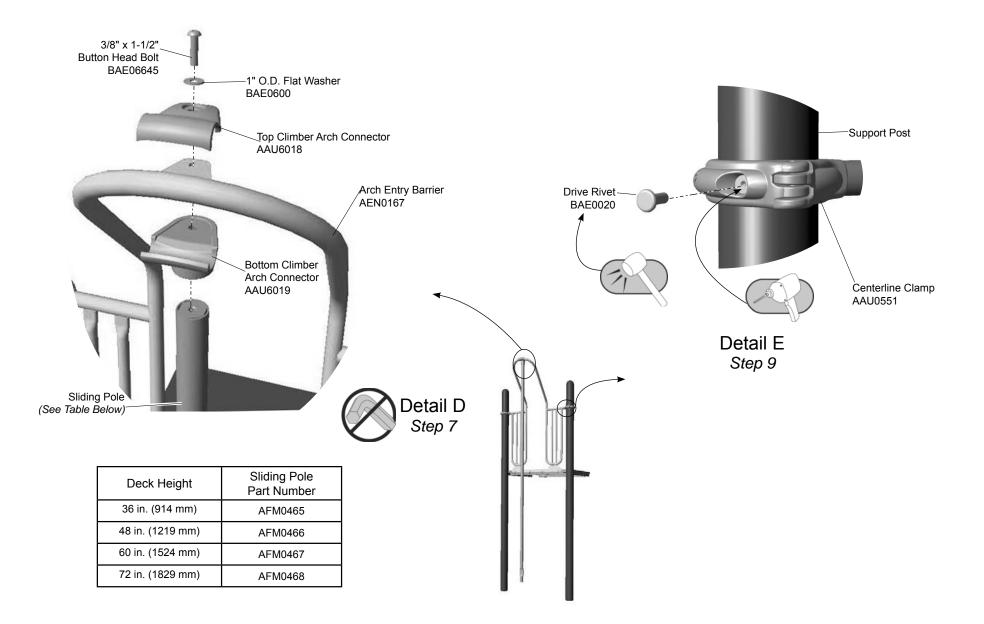
Elevation View 72 in. (1829 mm) Deck



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









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 holes as shown in the Footing Details.

Attach the clamps to the arch entry barrier.

Step 4: Attach the clamps to the barrier. See **Detail A**. Select the arch entry barrier, centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against an end of the barrier top rail and align holes. Attach as shown. Turn the clamp so that the hinge faces away from the entry, and fully tighten bolt.

Attach the clamps to the support posts.

Step 5: Attach the clamps to the posts. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the barrier into position against deck and close the clamps around the posts. Insert and thread each bolt into a clamp. Leave the clamp connection loose for deck connection adjustments.

Attach the barrier to the deck.

Step 6: Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. The barrier can be attached to either the *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Attach as shown.

Attach the sliding pole to the barrier.

Step 7: Attach the sliding pole to the barrier. See **Detail D**. Select the sliding pole, the top and bottom climber connectors, and the appropriate hardware. There is (1) one connection. Place the sliding pole into the excavated footing, and attach as shown.

Final Details.

Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

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

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head. **Note:** This step should be executed after structure has been assembled and properly footed.

Bill of Materials

PM - SLIDING POLE 36 in. (914 mm) DECK (ZZPM8060)

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1	AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1	AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1	AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0465	FAB METAL - 36" SLIDING POLE w/LABEL AT 24"	1	AFM0467	FAB METAL - 60" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9	BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4	BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 48 in. (1219 mm) DECK (ZZPM8070)

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1	AAU6018	CONNECTOR - CLIMBER ARCH TOP
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1	AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1	AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"
AFM0466	FAB METAL - 48" SLIDING POLE w/LABEL AT 24"	1	AFM0468	FAB METAL - 72" SLIDING POLE w/LABEL AT 24"
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT
BAE0600	WASHER - 1" O.D. FLAT	9	BAE0600	WASHER - 1" O.D. FLAT
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4	BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1	BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS





QTY. 2

> 1 1

2 6

1

PM - SLIDING POLE 60 in. (1524 mm) DECK (ZZPM8080)

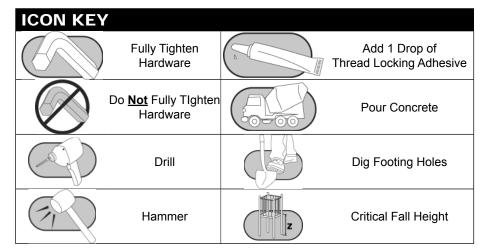
PM - SLIDING POLE 72 in. (1829 mm) DECK (ZZPM8090)

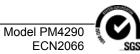


Playmakers[®] Model PM4290 Post Mounted Steering Wheel

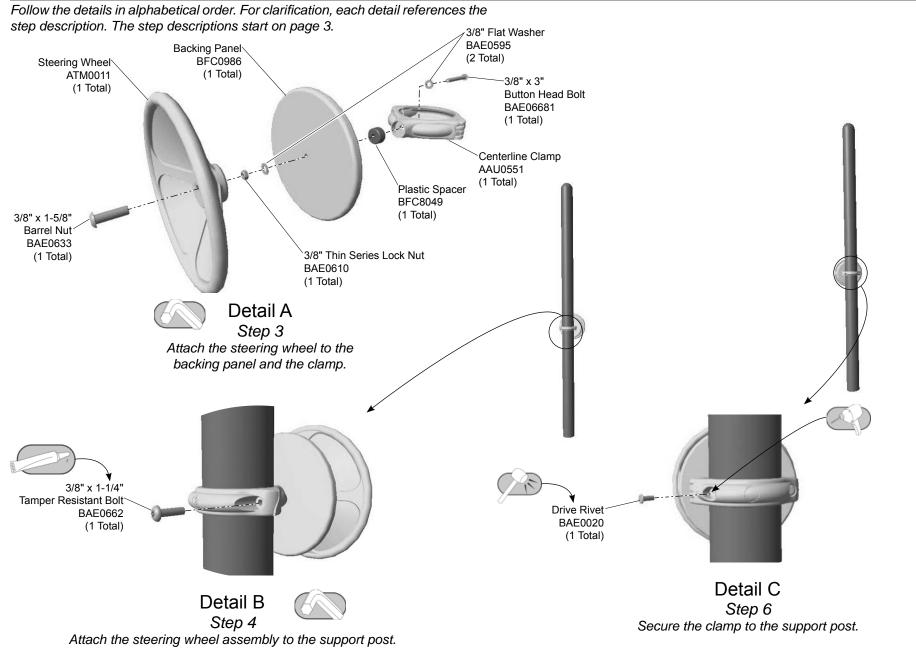
Installation Preparation

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





Assembly View



Model PM4290 ECN2066

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 CSAZ-614, apply the age appropriate label to the side panel at eye level.

PM4290 - POST MOUNTED STEERING WHEEL

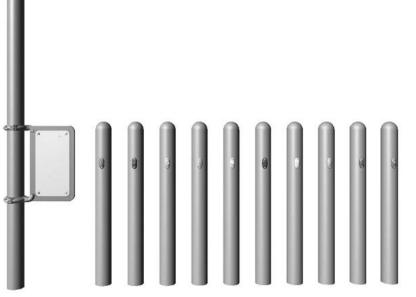
PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	1
ATM0011	WHEEL - STEERING w/ COUNTERBORE & 2 BEARINGS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0610	NUT - 3/8"-16 THIN LOCK	1
BAE0633	NUT - 3/8"-16 x 1.63 BARREL	1
BAE0662	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







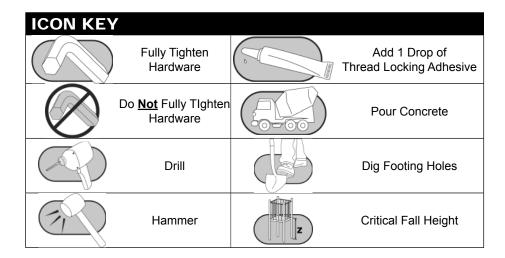
Playmakers[®] Model PM4648 Post Mount Scavenger Hunt

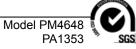


Assembly View

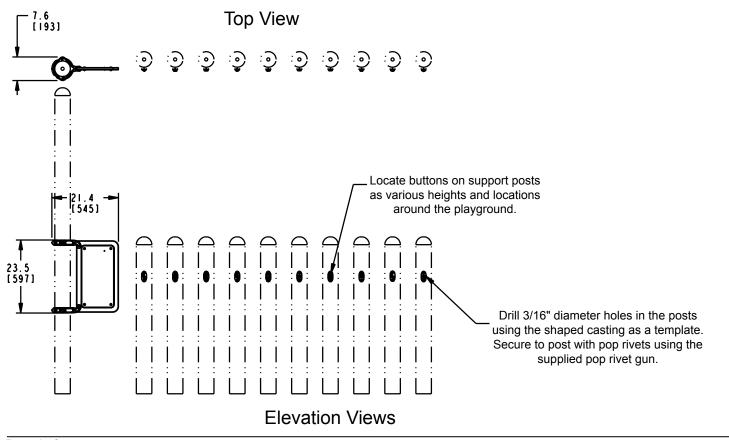
Installation Preparation

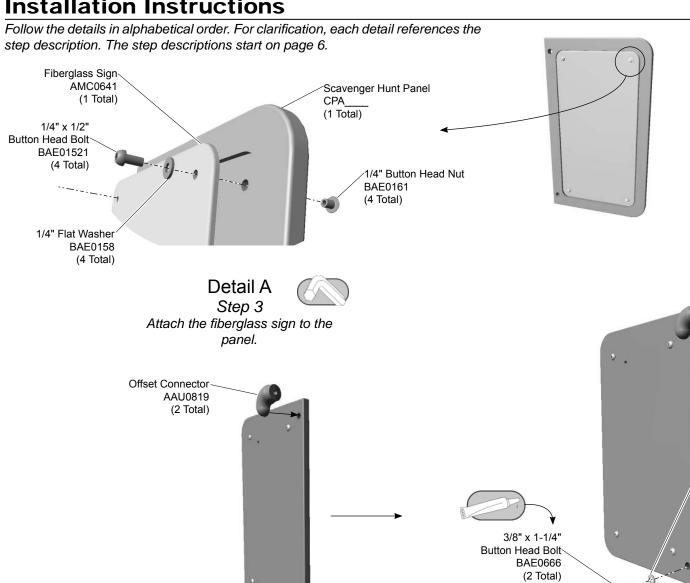
Recommended Crew:	. Two (2) adults
Installation Time:	. 2 man-hours
Use Zone:	. Refer to Master Drawing
User Group Age (years):	. ASTM/CSA: 2-12. EN: 2-14



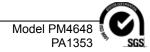


KEY			
Position	Unit of Measurement		
Top #	Inches		
Bottom #	[Millimeters]		

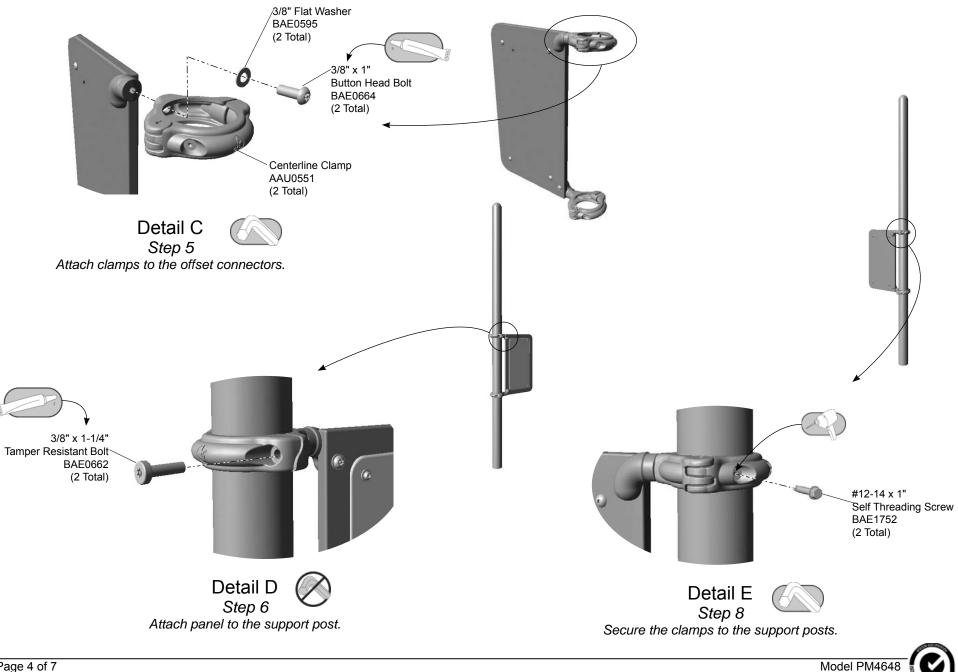




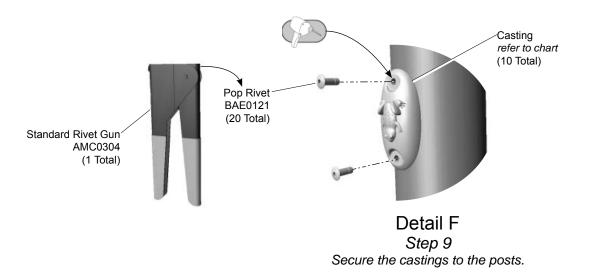
Detail B Step 4 Attach the offset connectors to the panel.



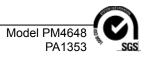
/3/8" Flat Washer BAE0595 (2 Total)



PA1353



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



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

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

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

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

Final Details.

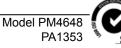
Step 7: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Step 8: Secure the clamps to the support posts. See **Detail E**. After the equipment assembly is complete, install a self threading screw in each clamp to permanently secure it to the support post. Using a 3/16" drill bit, drill through the clamp and support post. Thread each screw through the clamp and into the support post. Fully tighten all fasteners according to tightening torque specifications. **Note:** This step should be executed after structure has been assembled and properly footed.

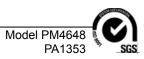
Step 9: Secure the castings to the posts. See **Detail F**. Locate the castings on posts as various heights and locations around the playground. Drill 3/16" diameter holes in the posts using the shaped casting as a template. Secure to post with pop rivets using the supplied pop rivet gun.



PM4648 - POST MOUNT SCAVENGER HUNT

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









Assembly View (representative model)

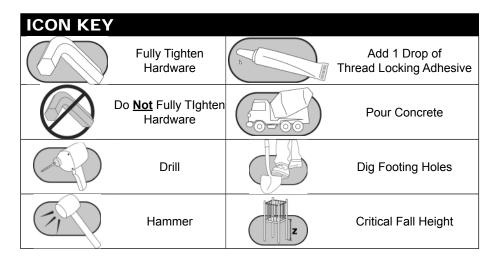
Model	Deck Height
ZZPM7006	48" (1219 mm)
ZZPM7006S	48" (1219 mm)
ZZPM7007	60" (1524 mm)
ZZPM7007S	60" (1524 mm)
ZZPM7008	72" (1829 mm)
ZZPM7008S	72" (1829 mm)

Installation Instructions

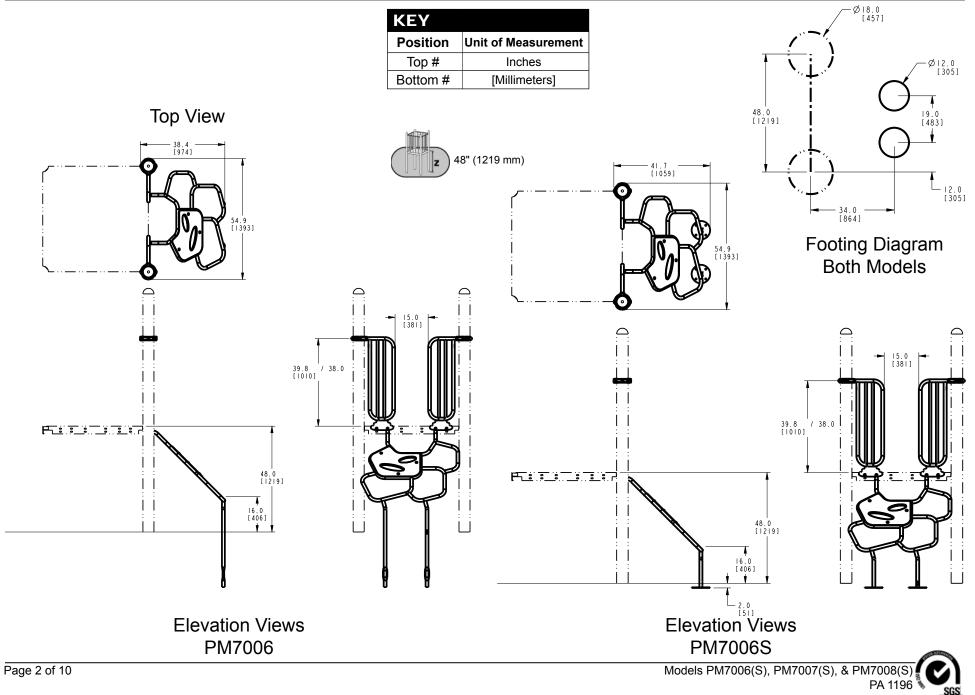
Playmakers[®] Models PM7006(S)-08(S) GEO Arch Climber 48 in. (1219 mm) to 72 in. (1829 mm) Deck Height In-Ground and Surface Mount

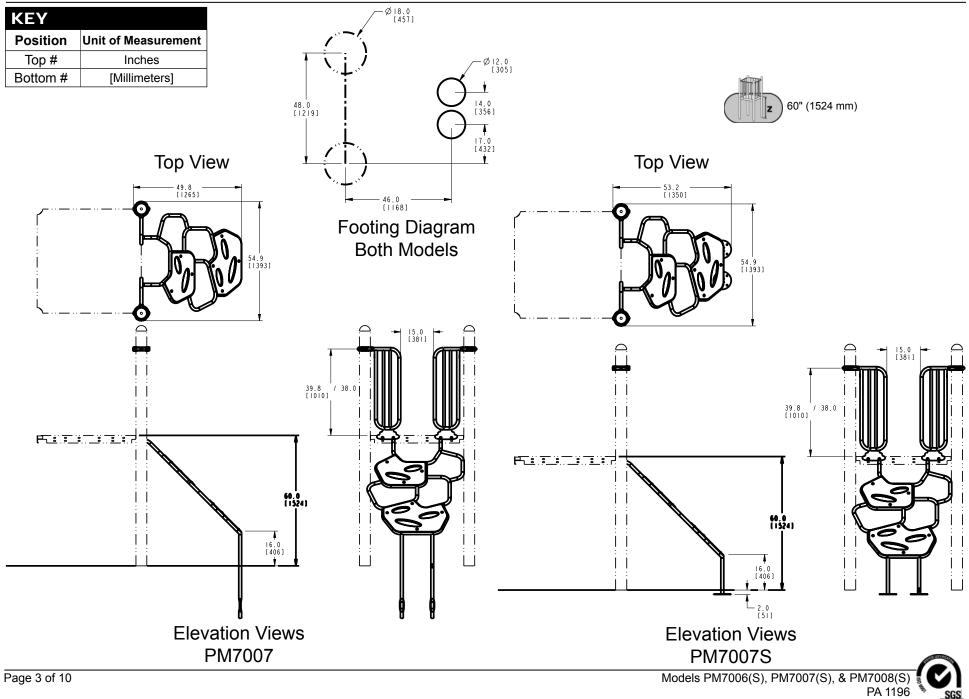
Installation Preparation

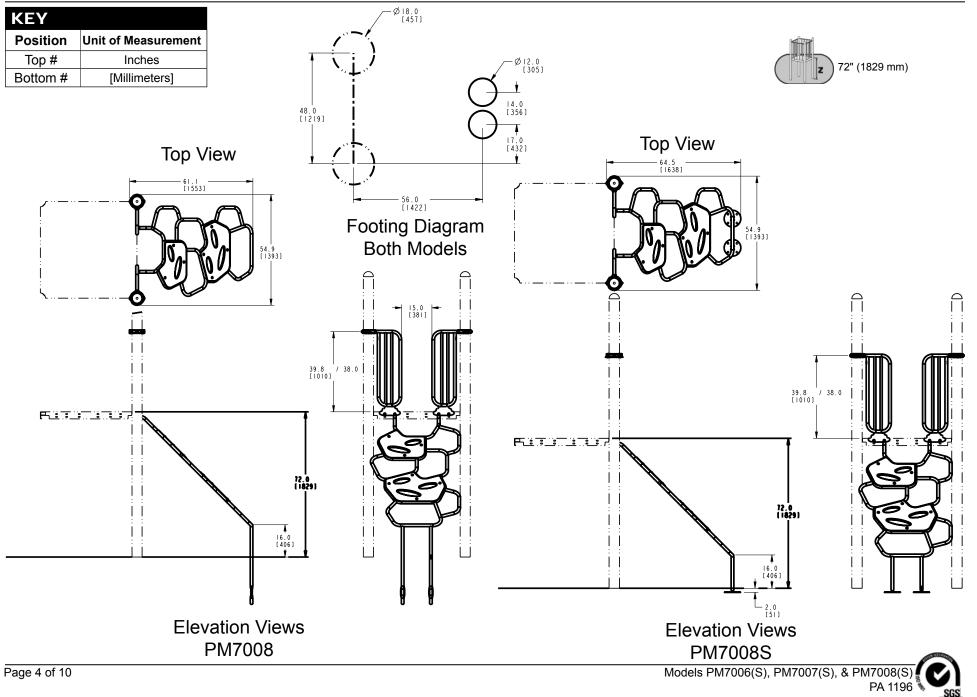
Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours (in-ground)
	1 man-hour (surface mount)
Concrete Required:	0.06 cubic yard (0,04 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	48"-60": ASTM/CSA: 2-12, EN: 2-14
	60"-72": ASTM/CSA: 5-12, EN: 6-14



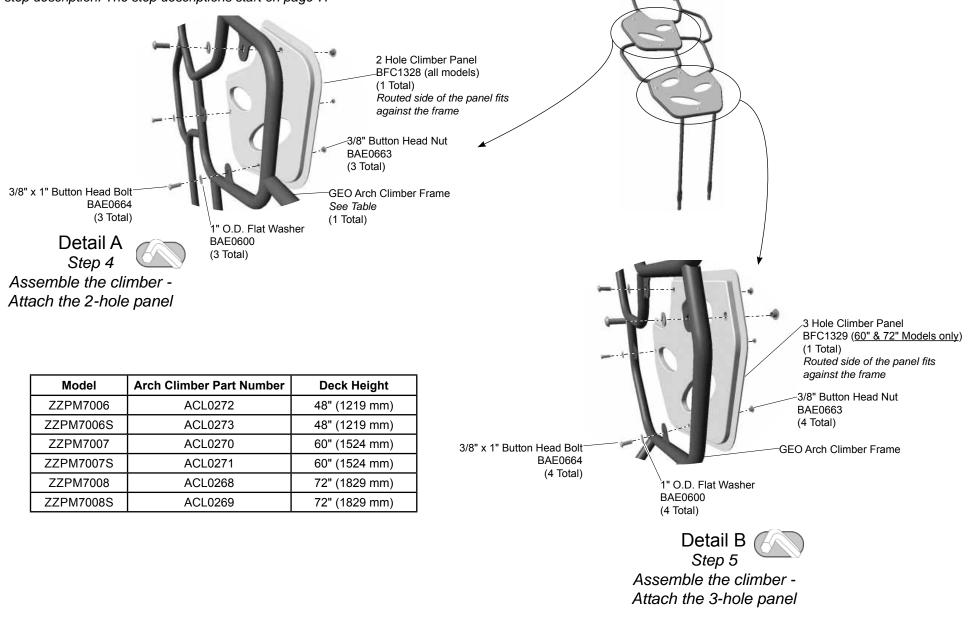


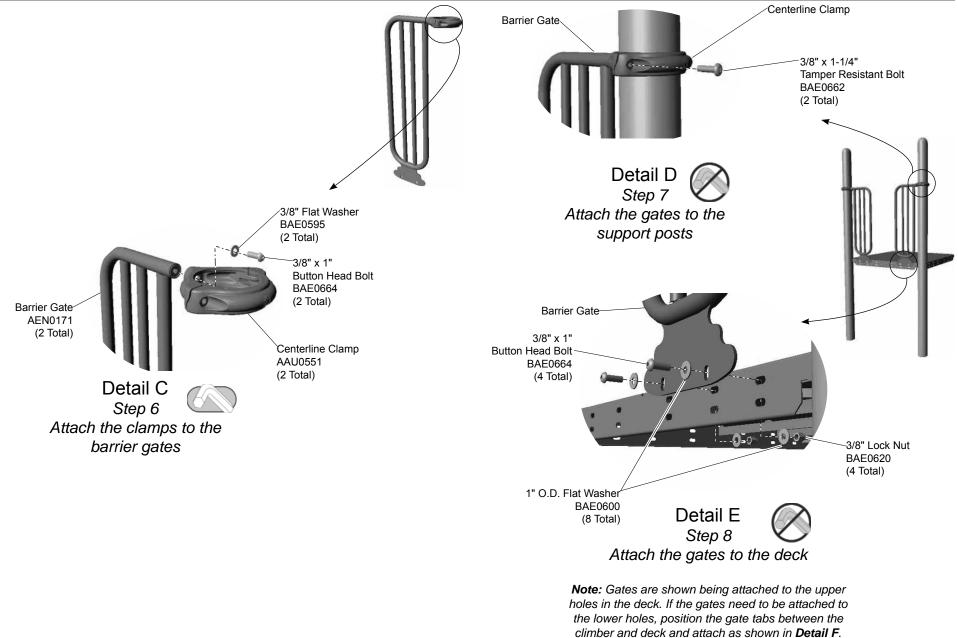


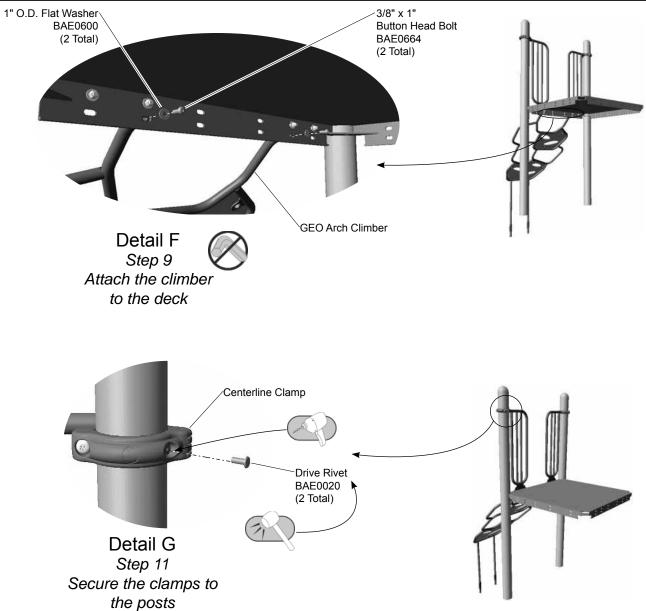


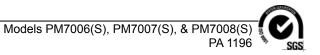


Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.









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** shown in the of this instruction booklet. Use the **Component Footing Details** for the in-ground model.

Assemble the climber.

Step 4: Attach the 2-hole panel to the climber. See **Detail A** and the appropriate **Elevation View**. Attach the panel to the climber as shown.

Step 5: Attach the 3-hole panel to the 60 in. (1524 mm) and 72 in. (1829 mm) climbers only. See **Detail B** and the appropriate **Elevation View**. Attach the panel to the climber as shown.

Attach the clamps to the barrier gates.

Step 6: 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 7: See Detail D. Attach the gates to the posts as shown.

Attach the gates to the deck.

Step 8: 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, position the gate tabs between the climber and the deck and then make the connections as shown in **Detail F**.

Attach the climber to the deck.

Step 9: See **Detail F**. Place the climber in, or on, the footing and attach to the deck 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.

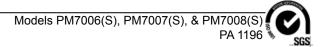
In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

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

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

Step 11: 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, 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.



PM7006 - GEO ARCH CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0272	CLIMBER - GEO ARCH 48" DECK	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	3
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	11
BFC1328	SHEET - 19.42" x 22.78" INFILL	1

PM7006S - SURFACE MOUNT GEO ARCH CLIMBER 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0273	CLIMBER - GEO ARCH 48" DECK (SM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	13
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	3
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	11
BFC1328	SHEET - 19.42" x 22.78" INFILL	1

PM7007 - GEO ARCH CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0270	CLIMBER - GEO ARCH 60" DECK	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" OD FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" MPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1328	SHEET - 19.42" x 22.78" INFILL	1
BFC1329	SHEET - 20.54" x 29.39" INFILL	1

PM7007S - SURFACE MOUNT GEO ARCH CLIMBER 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0271	CLIMBER - GEO ARCH 60" DECK (SM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" OD FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" MPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1328	SHEET - 19.42" x 22.78" INFILL	1
BFC1329	SHEET - 20.54" x 29.39" INFILL	1



PM7008 - GEO ARCH CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0268	CLIMBER - GEO ARCH 72" DECK	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1328	SHEET - 19.42" x 22.78" INFILL	1
BFC1329	SHEET - 20.54" x 29.39" INFILL	1

PM7008S - SURFACE MOUNT GEO ARCH CLIMBER 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0269	CLIMBER - GEO ARCH 72" DECK (SM)	1
AEN0171	BARRIER - 13.00" x 42.19" GATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	7
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	15
BFC1328	SHEET - 19.42" x 22.78" INFILL	1
BFC1329	SHEET - 20.54" x 29.39" INFILL	1





Assembly View (representative models)

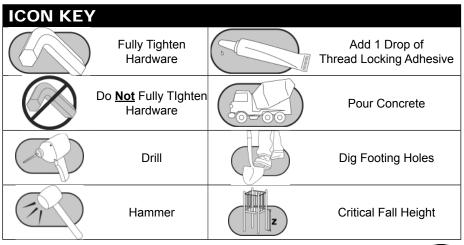
Deck Height	PM8289	PM8290	PM8300	PM8310
	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Weight	52 lbs	59.1 lbs.	63.4 lbs.	69 lbs.
	23.6 kilos	26.9 kilos	28.8 kilos	31.4 kilos

Installation Instructions

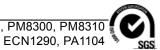
Playworld Systems Models PM8289, PM8290, PM8300, PM8310 Ribbon Climber 36 in. (914 mm), 48 in. (1219 mm), 60 in. (1524 mm), 72 in. (1829 mm)

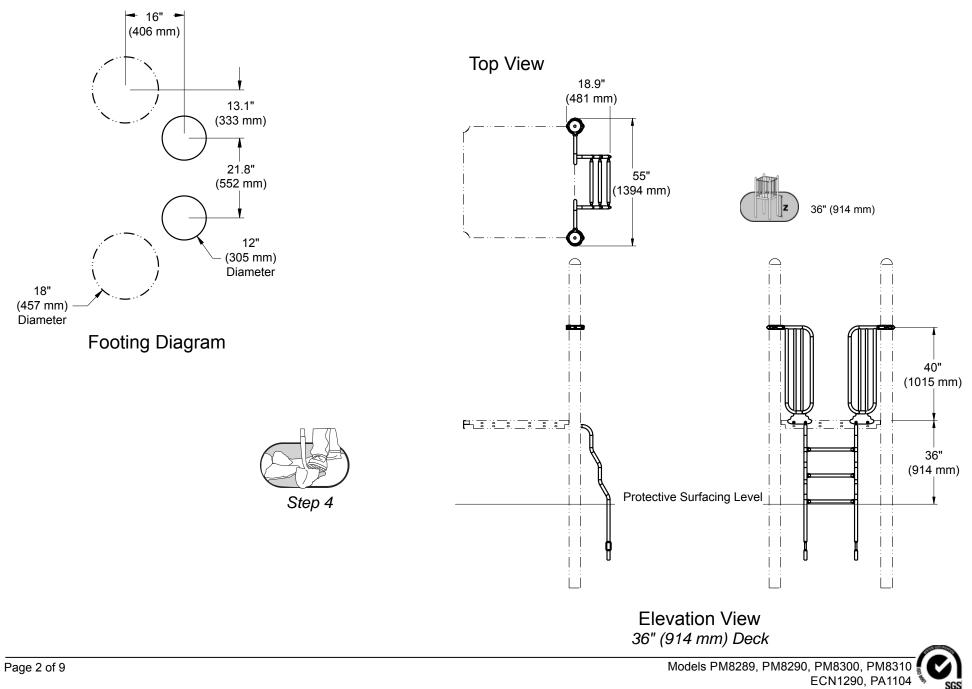
Installation Preparation

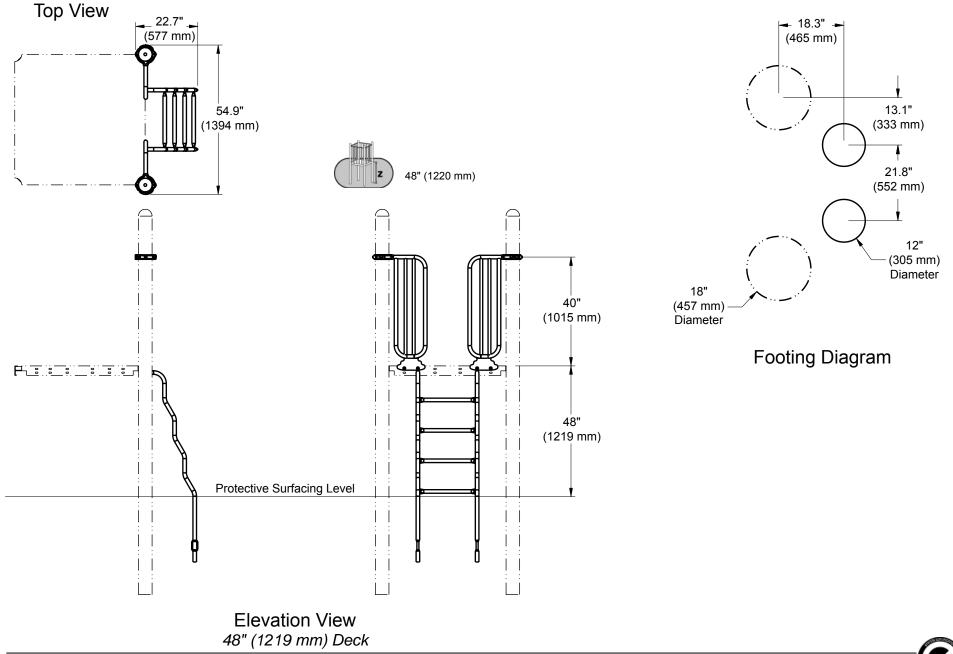
Recommended Crew:	One (1) adult
Installation Time:	1.5 hours
Weight:	See table at lower left
Concrete Required:	0.06 cubic yard (0,5 cubic meters)
Use Zone:	Refer to Use Zone on Master Drawing
User Group Age (years):	36"-60": ASTM/CSA: 2-12, EN: 2-14
	60"-72": ASTM/CSA: 5-12, EN: 6-14

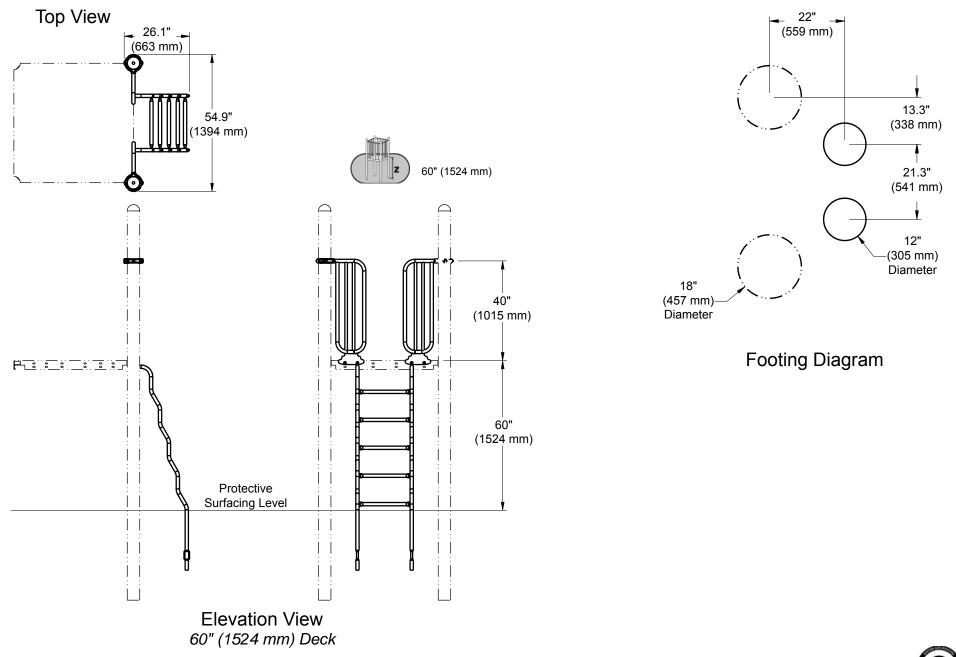


Models PM8289, PM8290, PM8300, PM8310

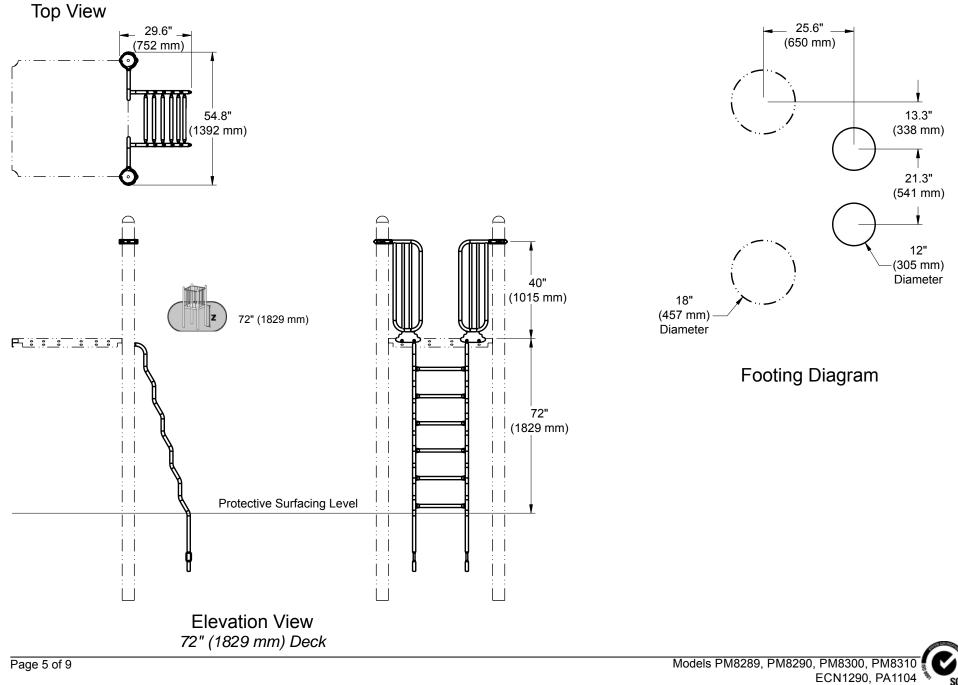




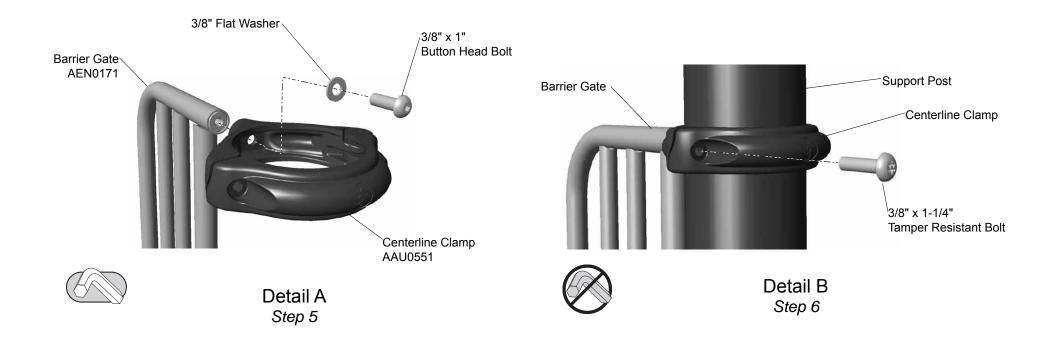


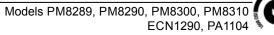


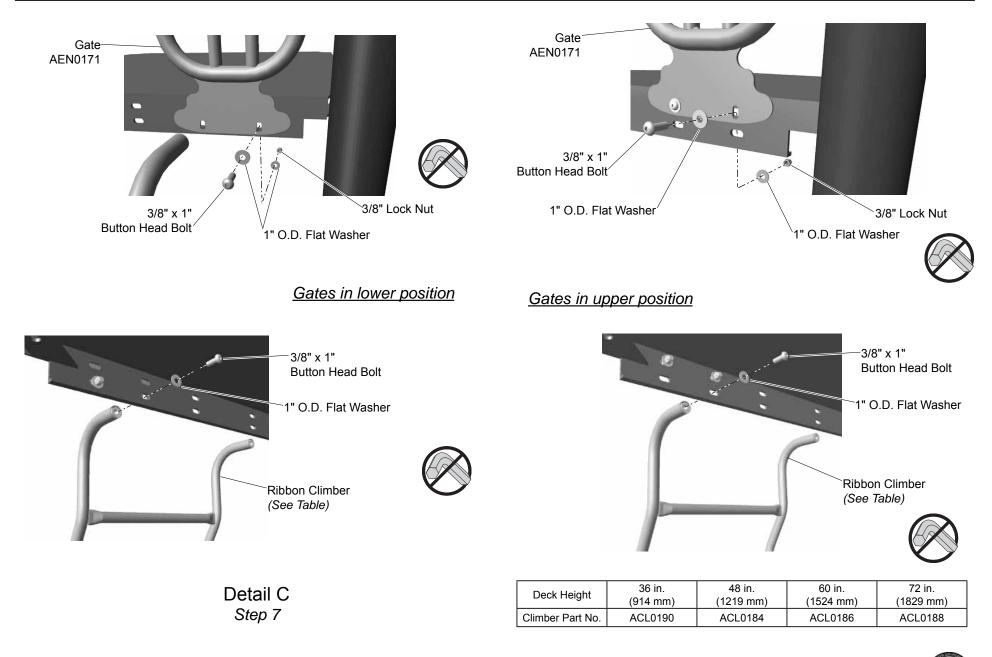
- 8,



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

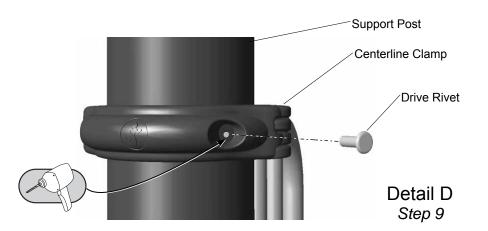








Step 8 Pour Concrete



INSTALLATION

_A Note Before You Begin:

Do not over tighten bolts during assembly, only snug tighten unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

___Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

___Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

___Step 3: Determine placement and orientation of the ribbon climber by referring to the composite master footing diagram and associated **Elevation View**.

___Step 4: Excavate the footings as shown in the Component Footing Details in the *Guidelines* at the beginning of this instruction booklet.

Attach the centerline clamps to the gates.

_____Step 5: Attach the centerline clamps to the gates. See **Detail A**. Select both gates, and (2) two clamps, and the appropriate hardware. Secure the clamp to the gate as shown. Ensure that the clamps are turned in the same direction and fully tighten the connections.

Attach the clamps to the support posts.

___Step 6: Attach the clamps to the support posts. See **Detail B**. Select the appropriate hardware. Lift each gate into position against the deck and secure the clamp to the post. Snug tighten the connection only.

Attach the gates and the ribbon climber to the deck.

____Step 7: Attach the gates and the ribbon climber to the deck. See **Detail C**. Select the ribbon climber and the appropriate hardware. Determine the connection position of the gates and ribbon climber, and follow the appropriate detail. Both gates should be mounted at the same height. Leave connections loose.

Final Details.

___Step 8: Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications indicated on **page 1**. Block and brace, and pour concrete. Allow 72 hours for concrete to completely cure.

___Step 9: Install a drive rivet in each clamp. See **Detail D**. Using a 1/4" drill bit, drill through a band and support post. Insert the drive rivet into drilled hole and drive the pin of the rivet until it is flush with the surface of the rivet head. **Note:** This step should be executed after structure has been assembled and properly footed.



PM - 36 in. (914 mm) RIBBON LADDER (ZZPM8289)

PM - 72 in. (1829 mm) RIBBON LADDER (ZZPM8310)

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0190	CLIMBER - 23.07" x 58.22" RIBBON	1	ACL0188	CLIMBER - 23.07" x 94.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2	AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2	BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10	BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	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	BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 48 in. (1219 mm) RIBBON LADDER (ZZPM8290)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0184	CLIMBER - 23.07" x 70.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 60 in. (1524 mm) RIBBON LADDER (ZZPM8300)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0186	CLIMBER - 23.07" x 82.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8







SUPERVISION INSTRUCTIONS PLAYWORLD SYSTEMS® HORIZONTAL LOOP RUNG LADDER



Attention Owner

The Horizontal Loop Rung Ladder is designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Horizontal Loop Rung Ladder can result in serious accidents. The following rules for the use of the Horizontal Loop Rung Ladder must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. Horizontal Loop Rung Ladder is designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of users.
- Do not crawl on, sit on, stand on or jump off of the top of the horizontal hand rung assembly.
- Users must move in same direction across the length of the Horizontal Loop Rung Ladder assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when

rungs are dry.

- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Horizontal Loop Rung Ladder in accordance with the applicable standard in your area, appropriate for the fall height of the Horizontal Loop Rung Ladder.
- Review and familiarize warning document supplied with each Horizontal Loop Rung Ladder shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it. Playworld Systems accepts <u>NO</u> responsibility for improper use.



SUPERVISION INSTRUCTIONS



Movement Must Be In Same Direction With Adequate Distance Between Users



Do Not Begin Movement From Opposite Directions



Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder



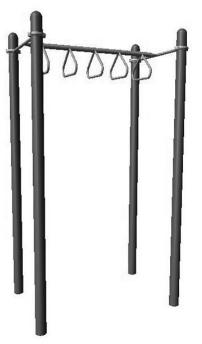
Hand Over Hand Ladder



Do Not Use When Hand Rungs Are Wet







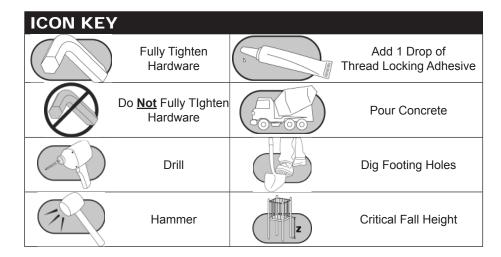
Assembly View

Installation Instructions

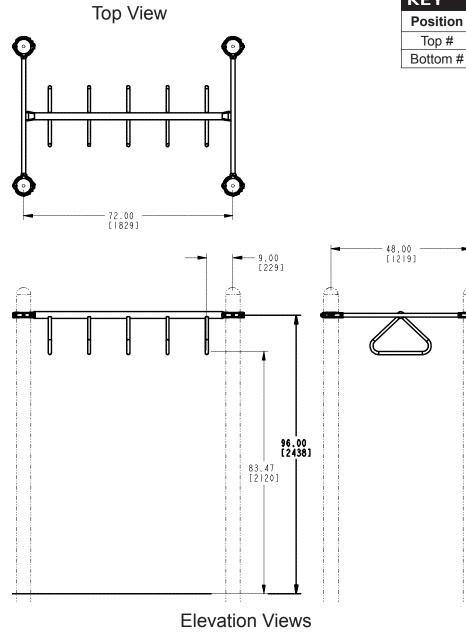
Playmakers[®] Model PM5780 6 ft. (1829 mm) Horizontal Loop Ladder

Installation Preparation

Recommended Crew:	. Three (3) adults
Installation Time:	. 1 man-hour
Use Zone:	. Refer to Master Drawing
User Group Age (years):	. ASTM/CSA: 5-12, EN: 6-14







KEYPositionUnit of MeasurementTop #InchesBottom #[Millimeters]

Notes:

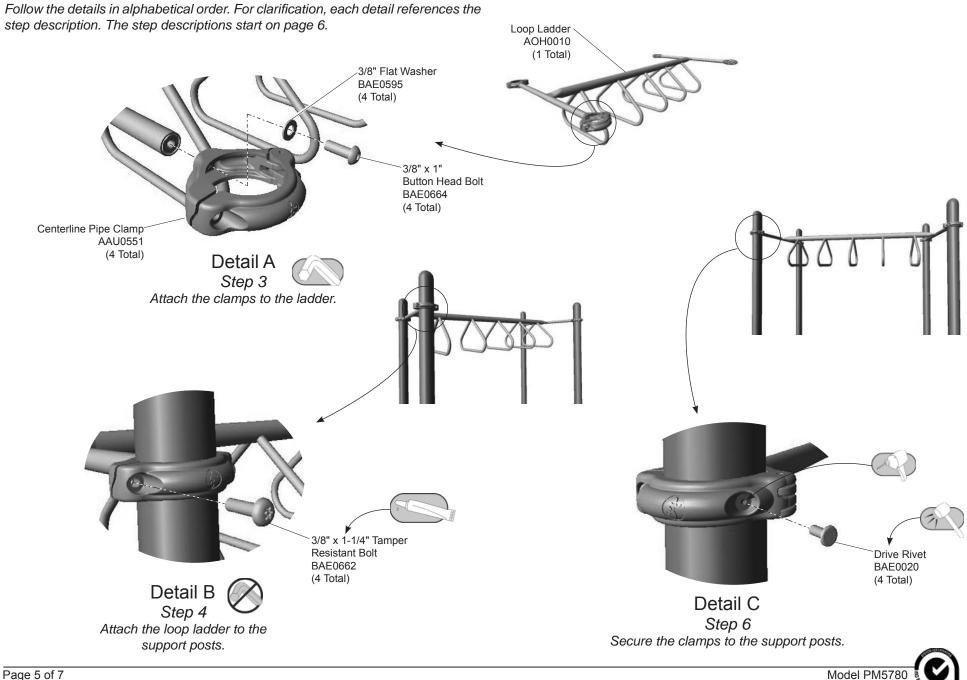
• Hand-gripping component bars should be a maximum of 84" (2135 mm) above the protective surfacing.

• Height of hand-gripping component bars may vary due to platform height.



83" (2110 mm) (Maximum 84" - 2135 mm)





ECN434

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach the clamps to the ladder. See **Detail A**. Position each clamp against an open end of the ladder rails with the hinges to the inside and attach as shown. Fully tighten all fasteners according to tightening torque specifications (See **Final Details**).

Step 4: Attach the loop ladder to the support posts. See **Detail B**. With adequate manpower, position the ladder between the supports posts, apply a drop of thread locking adhesive to the bolt threads and attach as shown at the height shown in the **Elevation View**.

Note: Make sure to reference the *Notes* on the Elevation View page.

Final Details.

Step 5: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

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

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

PM5780 - 6 ft. (1829 mm) HORIZONTAL LOOP LADDER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
AOH0010	LADDER - 41" x 72" LOOP	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4
BAD0085	THREAD LOCKING ADHESIVE	1





Page 7 of 7



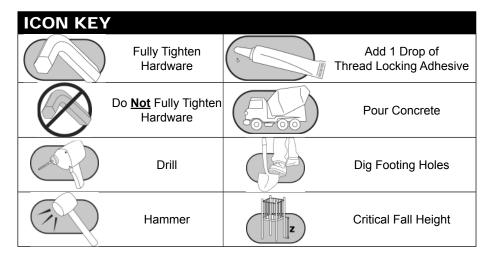
Playmakers® Models PM5950,

PM5960, and PM5970

1, 2, and 3 Rung Overhead Event Access Ladder 12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

Installation Preparation

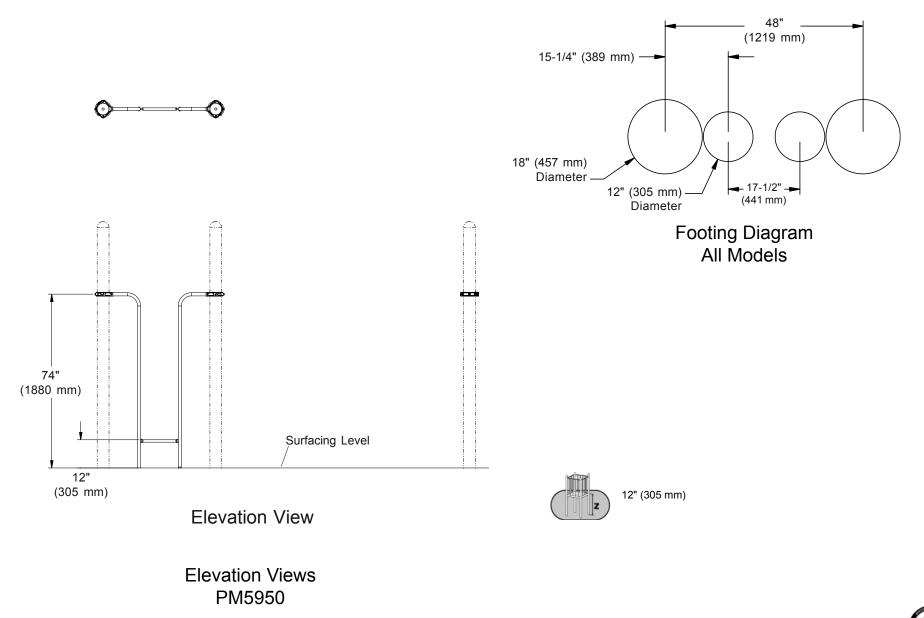
Recommended Crew:	One (1) adult
Installation Time:	1.5 hours
Concrete Required:	0.06 cubic yard (0,04 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 5-12, EN: 2-14

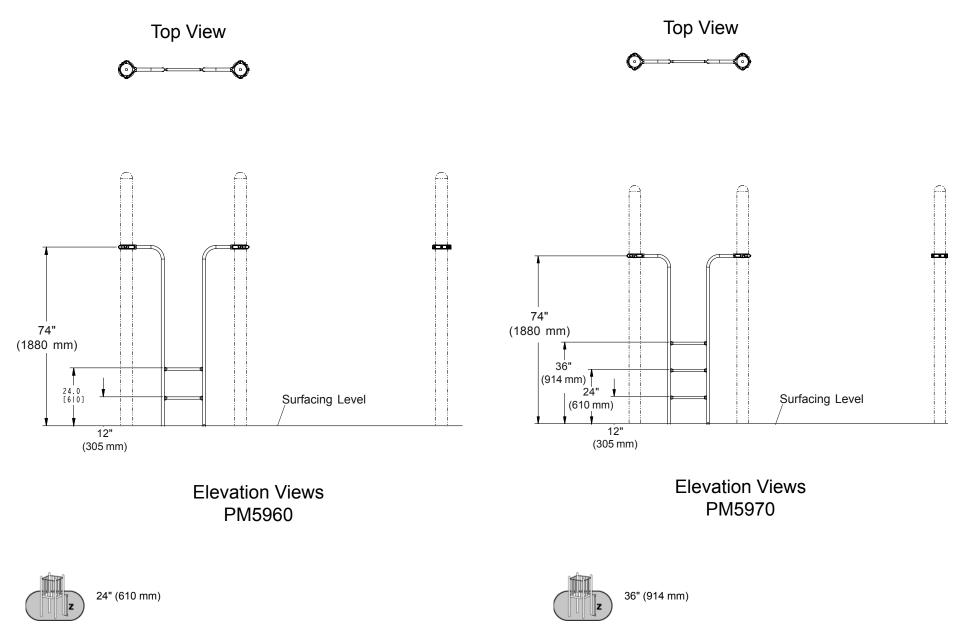




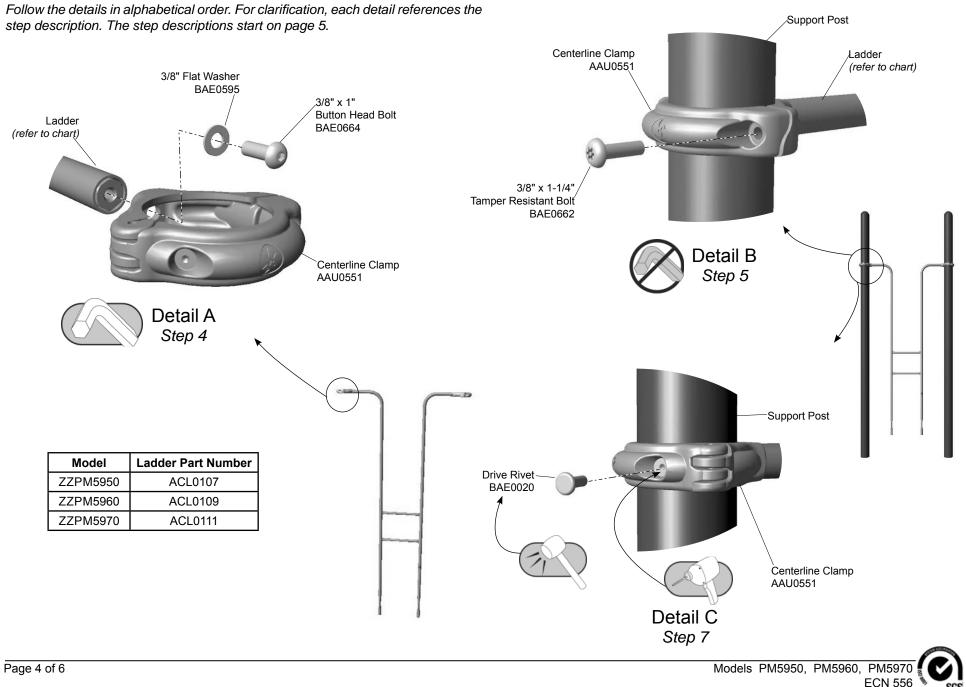
Model	Deck Height	
ZZPM5950	12" (305 mm)	
ZZPM5960	24" (610 mm)	
ZZPM5970	36" (915 mm)	

Assembly View (representative model)









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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Attach the clamps to the access ladder.

Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.

Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.

Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.

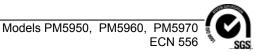
Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

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

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

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



PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2







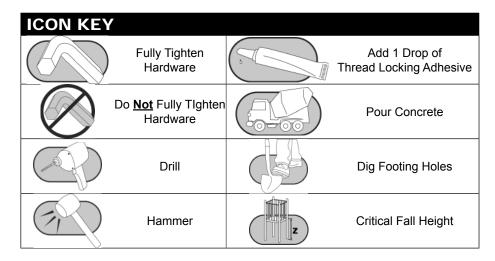
Assembly View

Installation Instructions

Playmakers[®] Model PM6590 6 ft. (1829 mm) Arch Bridge

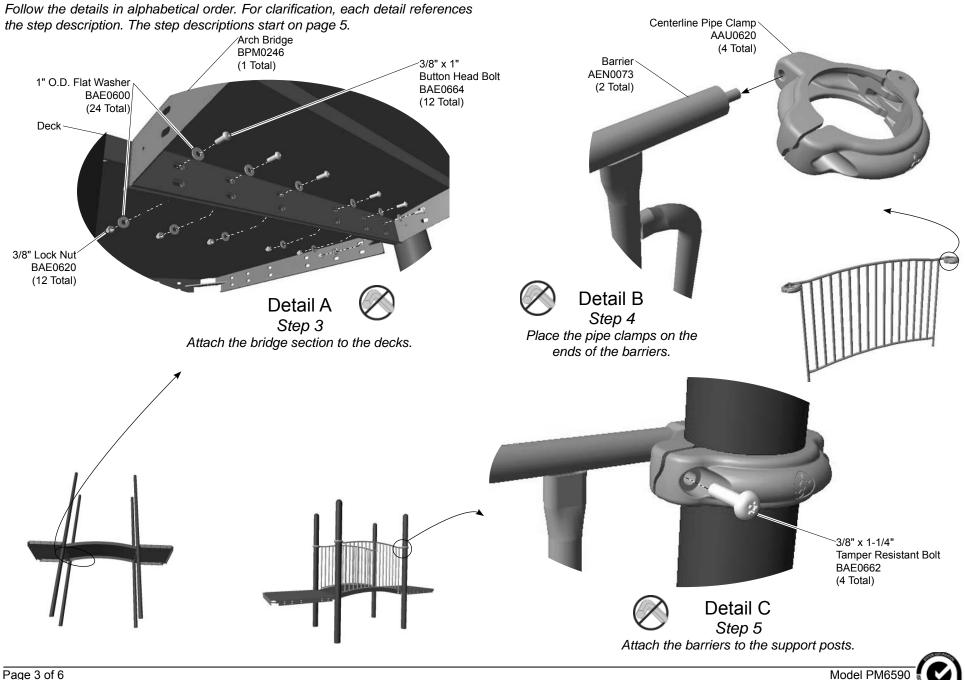
Installation Preparation

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

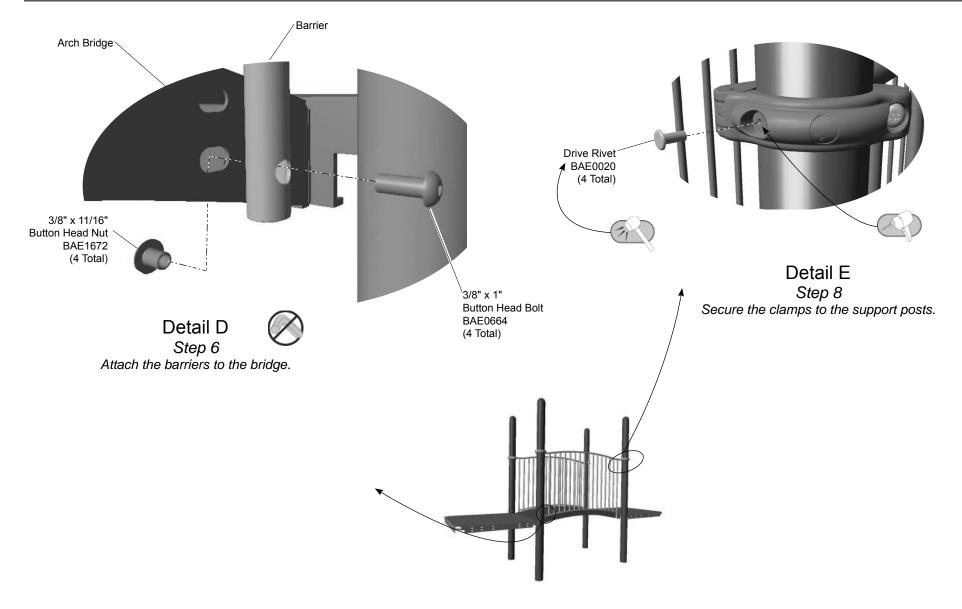


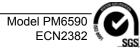


KEY Position Top # Bottom #	Unit of Measurement Inches [Millimeters]		Footing Diagram
Page 2 of 6		41.6 [1057] ••••••••••••••••••••••••••••••••••••	38.3 [972] Weight of the deck plus 8.5" (215 mm) Model PM6590 ECN2382



ECN2382





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 arch bridge to the decks. See **Detail A**. Due to the weight of the bridge, a minimum of three average size adults are necessary to position the bridge section between the decks. Position the bridge against the decks and attach as shown. Make the connections using the **top holes**. Leave the connections loose.

Step 4: Attach the clamps to arch bridge barrier. See **Detail B**. Thread a clamp onto each threaded stud of the arch bridge barriers. Position the clamps to the inside of each barrier.

Step 5: Attach arch bridge barrier to support posts. See **Detail C**. Lift a barrier with clamps into position. Secure the clamps to the support post as shown. Do not fully tighten bolt due to allow adjustment.

Step 6: Attach arch bridge barrier to arch bridge. See **Detail D**. Position the barrier against the side of the bridge. Attach as shown.

Note: There are upper and lower holes along the side of the arch bridge for barrier attachment, choose which hole will accommodate the position of the clamps at the posts to avoid adjacent component clamp interference.

Final Details.

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

Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each pipe 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.

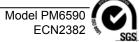
Step 9: For areas complying with ASTM standard F1487 or the CSAZ-614, apply the age appropriate label to the component at eye level.



PM6590 - 6 ft. (1829 mm) ARCH BRIDGE

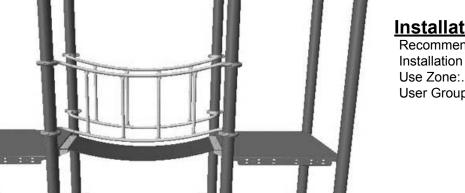
PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AEN0073	BARRIER - 6' ARCH BRIDGE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK W/ NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE1672	NUT - 3/8-16 x 11/16" BUTTON HEAD	4
BPM0246	ARCH- 71.75" x 8" x 39.13" x 8.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1







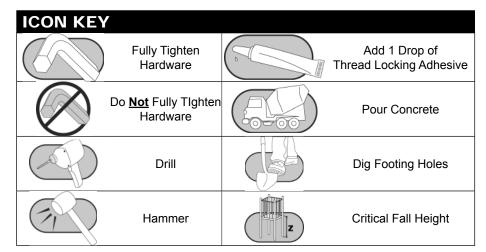
Playmakers[®] Models PM8480 and PM8486 6 ft. (1829 mm) and 10 ft. (3048 mm) Ripple Bridge



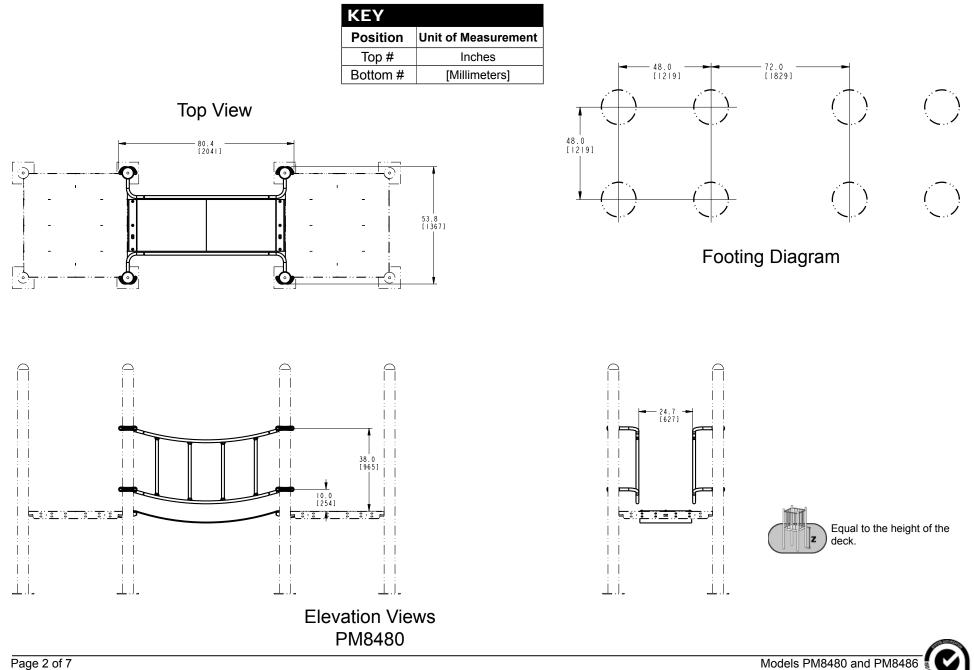
Assembly View (representative model)

Installation Preparation

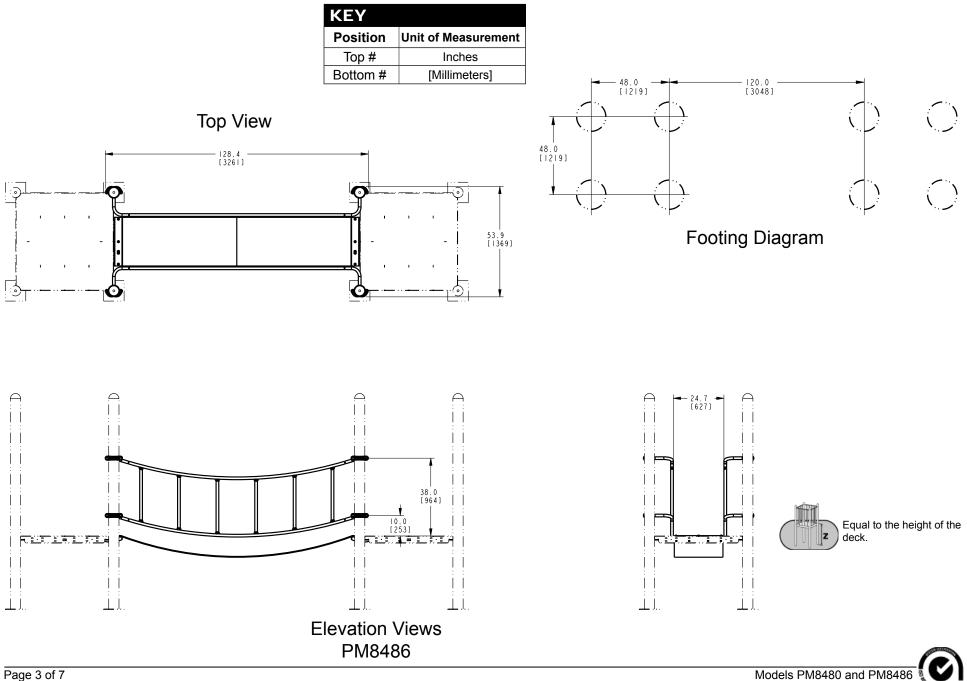
Recommended Crew:	Two (2) adults
	2 man-hours
Use Zone:	Refer to Master Drawing
User Group Age (years	s): ASTM/CSA: 2-12, EN: 2-14



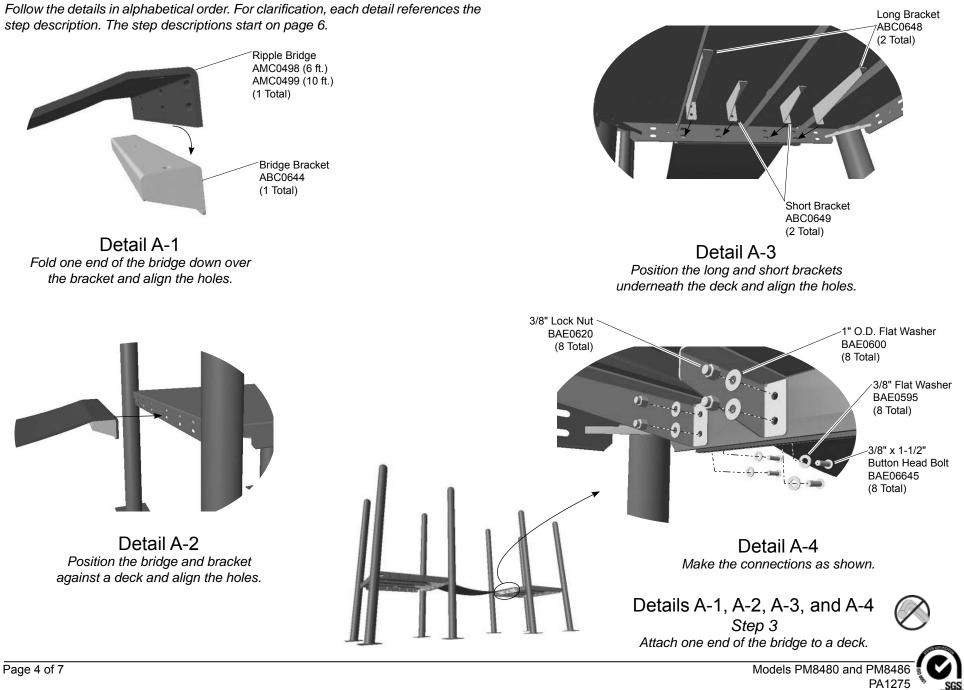


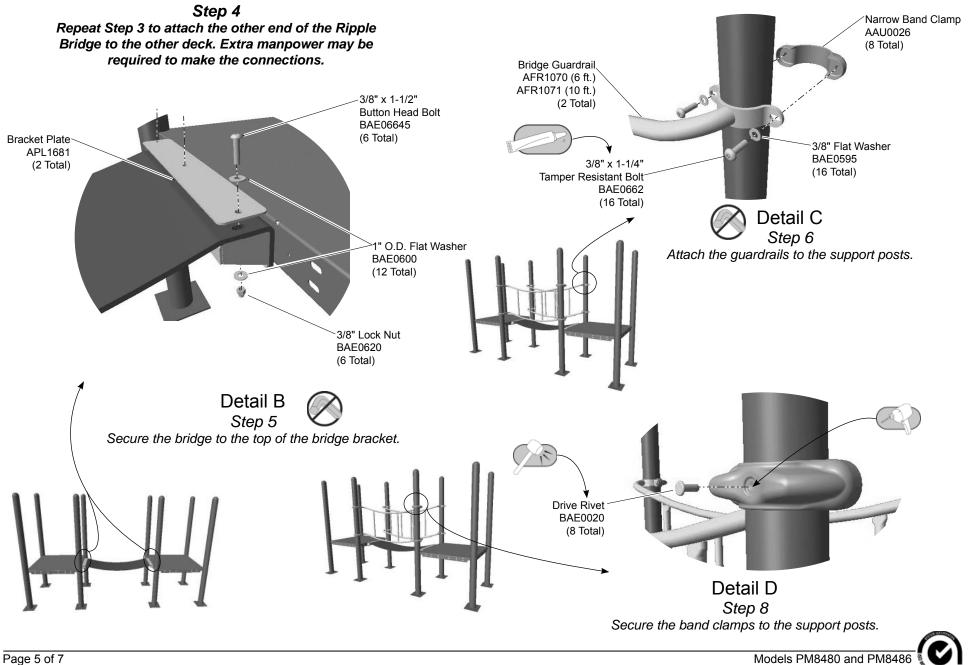


PA1275



PA1275





PA1275

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Attach one end of the bridge to a deck. See **Details A-1 thru A-4**. Fold one end of the bridge down over a bracket, position against a deck with the long and short brackets placed underneath the deck, align the holes, and attach as shown.

Step 4: Repeat the procedure in **Step 3** to attach the other end of the bridge to the other deck. Additional manpower may be needed to stretch the bridge out to make those connections.

Step 5: Secure the bridge to the top of the bridge bracket. See **Detail B**. Place the bridge plates on top of each end of the bridge, align the holes in the plate with the holes in the bridge, and attach as shown.

Step 6: Attach the guardrails to the support posts. **See Detail C**. Position each guardrail to the inside of the support posts at the height indicated on the **Elevation View**. Place the band clamps around the support posts and against the bands on the guardrail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.

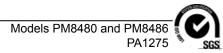
Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

Step 8: Install drive rivets. **See Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head. **Note:** This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.



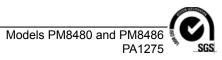
PM8480 - 6 ft. (1829 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1070	GUARDRAIL - 6' MAT BRIDGE (PM)	2
AMC0498	6' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8486 - 10 ft. (3048 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1071	GUARDRAIL - 10' MAT BRIDGE (PM)	2
AMC0499	10' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1









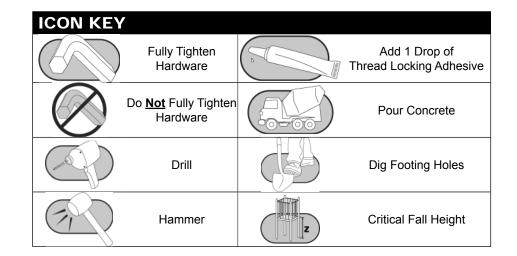
Assembly View

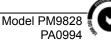
Installation Instructions

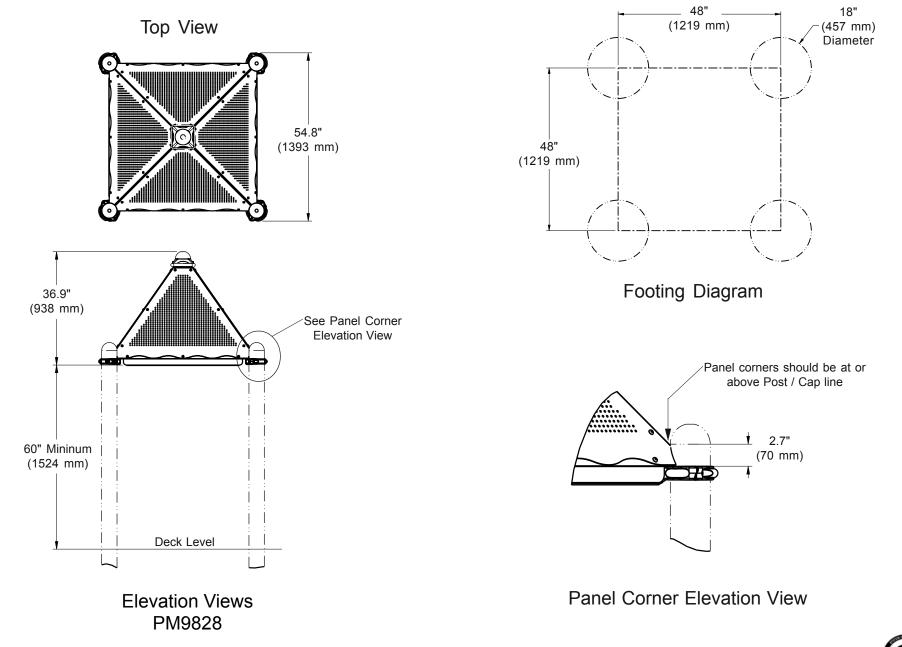
Playmakers® Model PM9828 Carnival Roof Small Perforated

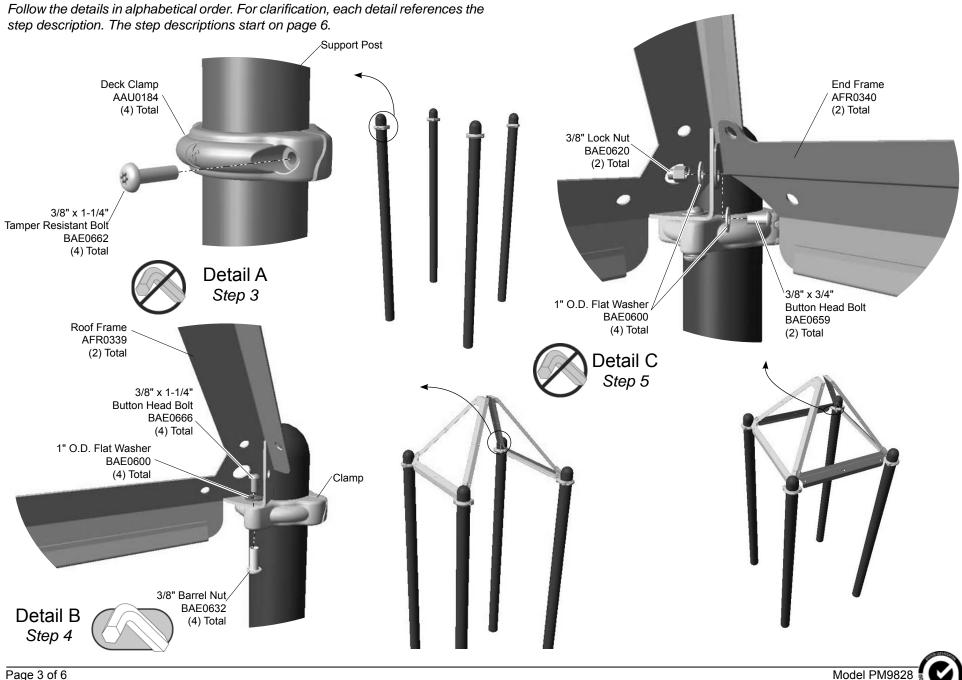
Installation Preparation

Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Use Zone:	Refer to Master Drawing





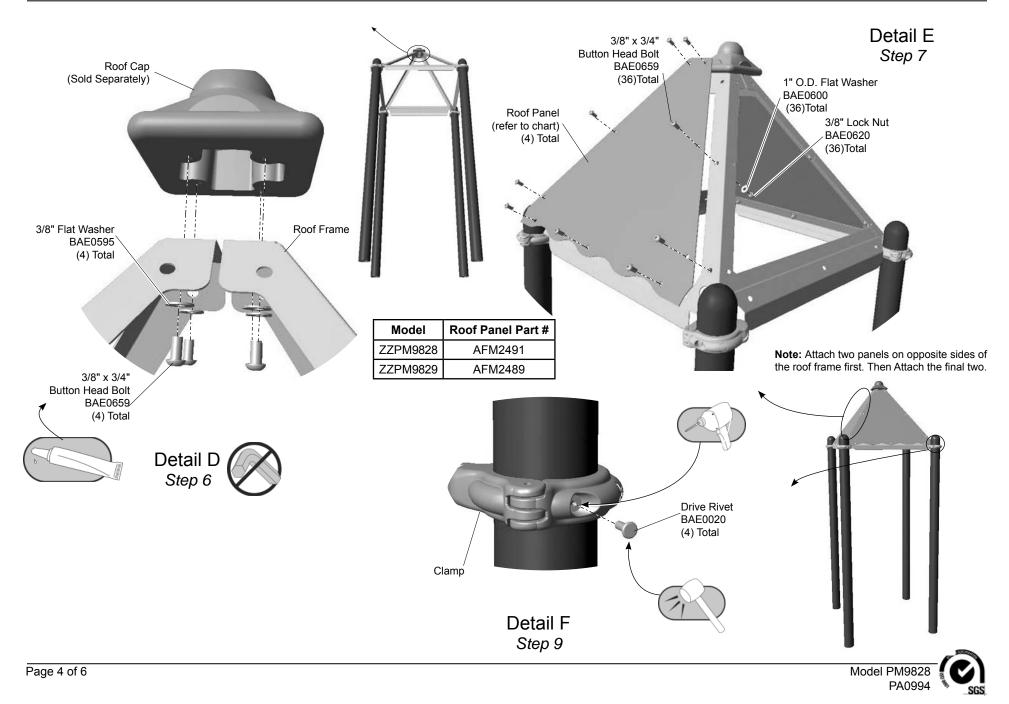




PA0994

SGS

Page 3 of 6



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 support posts.

Step 3: See **Detail A** and **Elevation Views**. Position the clamps so that the frame mounts face in towards the center of the deck. Do not fully tighten connections. Clamps may need to be rotated to attach the roof frames.

Attach the roof frames to the clamps.

Step 4: See **Detail B**. With the roof frames facing each other, position the bottom corners of each frame on top of the clamps. The top of the frames will rest against each other. The cutout sections of the frames should be flush against the support posts. Attach as shown. Fully tighten all connections.

Note: For ease of installation, the roof frame has an oversize hole to allow easy access with tools from above.

Attach the end frames to the roof frames.

Step 5: See **Detail C**. Position each end frame on an open side between the support posts. The mounting tabs should be flush against the bottom corner brackets of the roof frames. The bent portion of the end frame should be on the bottom and should angle in toward the deck. Attach as shown. Leave the connections loose.

Attach the square roof cap to the roof frames.

Step 6: See **Detail D**. Place the roof cap on top the roof frames and align the holes. Apply a drop of loctite to the bolt threads and attach as shown. **Note:** The square roof cap is sold separately.

Attach the roof panels to the roof frames.

Step 7: See **Detail E**. Position each panel, with the side containing the part number facing the frame, on opposite sides of the roof frame. Slide the top of each panel up against the roof cap and snap the bottom down over the post caps so that the panel cutouts are flush against the caps. See **Panel Corner Elevation View**. Align holes in the panel with the holes in the frame. Attach as shown.

Important Note: If the panel cutouts aren't flush against the post cap, loosen the roof frame and clamp, then rotate the clamp to pull the panel flush.

Note: Attach two panels on opposite side of the roof frame first. Then attach the second set of panels.

-Use of an alignment pin will aid in aligning the holes in the panels and the frame.

Final Details.

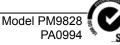
Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Step 9: Install drive rivets. See **Detail 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.



PM9828 - CARNIVAL ROOF - SMALL PERFORATED (SQUARE)

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
AFM2491	PANEL - 44.34" x 36.08" w/ SMALL HOLES	4
AFR0339	FRAME - 44.51" x 39.46" x 2.47" ROOF	2
AFR0340	FRAME - 44.21" x 7.72" x 1.79" END	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0600	WASHER - 1" O.D. FLAT	48
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	40
BAE0632	NUT - 3/8"-16 x 1-1/4" BARREL w/ PATCH	4
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	44
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/ TORX DRV	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4



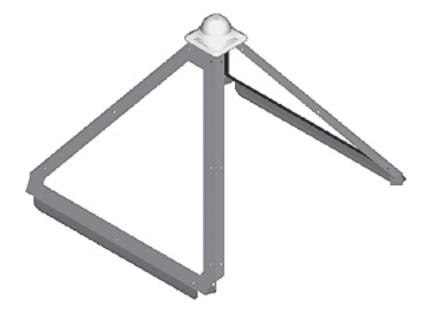




INSTALLATION INSTRUCTIONS

PLAYMAKERS® MODEL PM9856

CARNIVAL ROOF SQUARE CAP



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult Installation Time: 0.25 hour Weight: 6.1 Lbs. (2.8 Kilos)

Torque Specification:

Bolts & Nuts:Snug tighten and
tighten an additional one-half turn.Set Screws:Snug tighten and
tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS

INSTALLATION

✓Notes Before You Begin:

• Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

• If during the installation process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

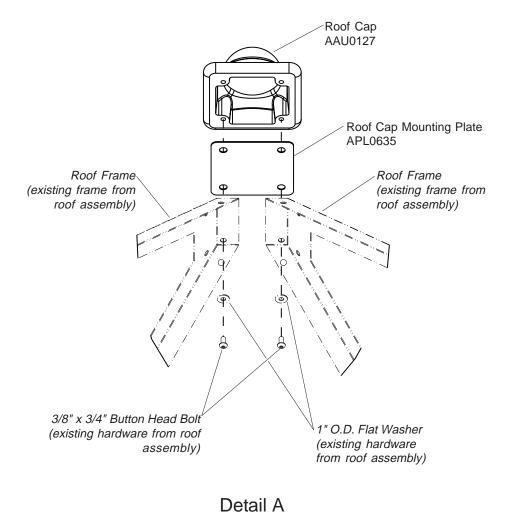
__Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

Attach the square roof cap to the roof frames.

___Step 3: Attach the square roof cap to the roof frames. **See Detail A**. Select the roof cap and the mounting plate. Using hardware that is included in the associated roof assembly, select (4) four of the following: 3/8" x 3/4" button head bolts and 1" O.D. flat washers. Place the roof cap mounting plate on top of the existing roof frames and align holes. Position the roof cap on top of the mounting plate and align holes. Apply a drop of loctite to the bolt threads and insert each bolt through a washer, up through the roof frame, through the mounting plate, and thread into the roof cap. Snug tighten connections.

Final Details.

___Step 4: Tighten **all** fasteners at completion of the roof assembly. See the associated roof assembly instructions for full details. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.



INSTALLATION INSTRUCTIONS

BILL OF MATERIAL

PM - CARNIVAL ROOF SQUARE CAP

PART NO.	DESCRIPTION	QTY.
AAU0127	CAP - 8.00" x 8.00" x 4.80"	1
APL0635	PLATE - 6.75" x 6.75" x 14 GA w/ 4 HOLES	1



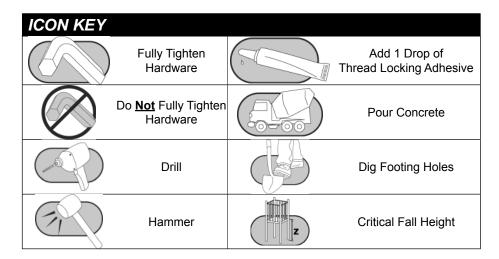




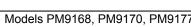
Playmakers[®] Models PM9168, PM9170 and PM9177 Deck to Deck Accessible Tiered Platform 12 in. (305 mm), 24 in. (610 mm) and 36" (914 mm) Rise Height

Installation Preparation

Recommended Crew:	- Two - Three (2-3) adults
Installation Time:	
Use Zone:	Refer to Master Drawing
User Group Age (year	s): ASTM/CSA: 2-12, EN: 2-14



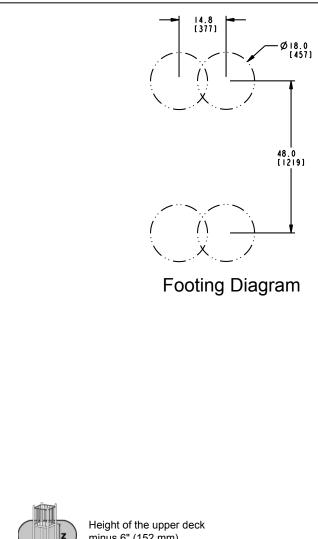


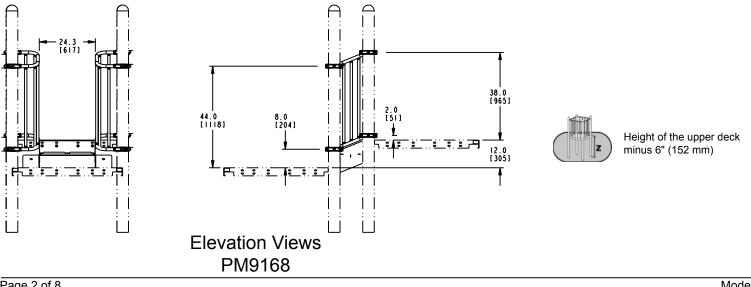




Assembly View (representative model)

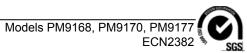
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



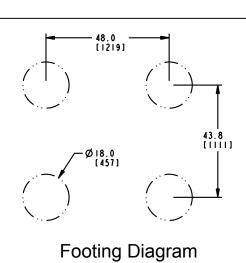


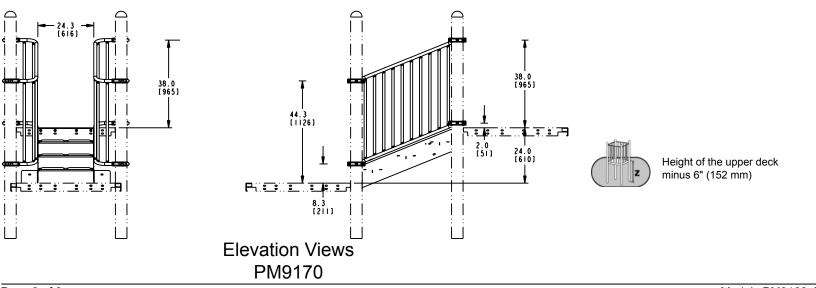
Top View

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



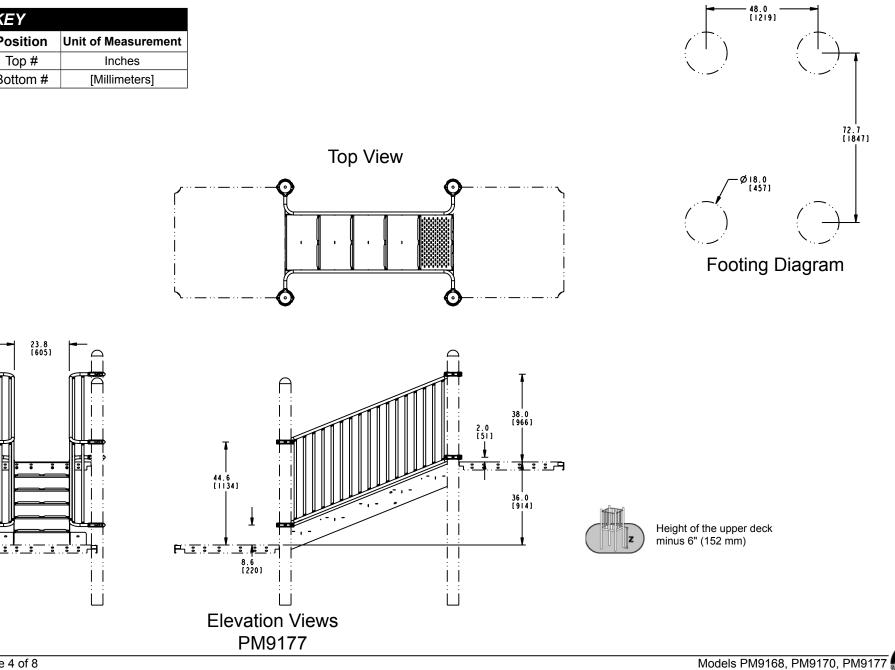


Top View

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SGS

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

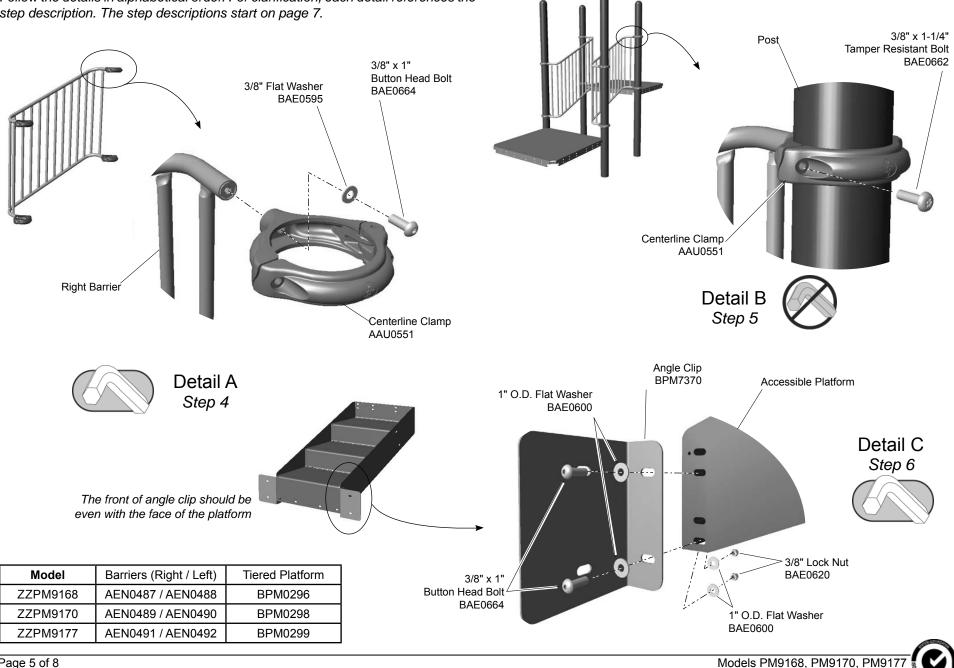


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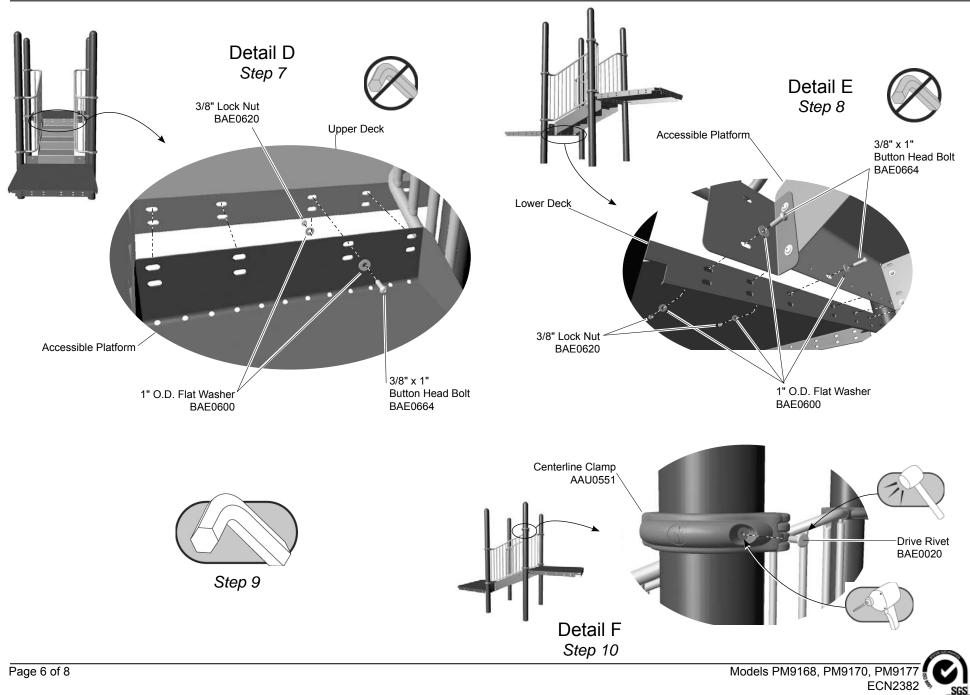
F

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



ECN2382

SGS



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 PLATFO

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8	AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1	AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (R1	ī) 1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1	AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT) 1
BAD0085	THREAD LOCKING ADHESIVE	1	BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8	BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8	BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28	BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14	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	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	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1	BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2	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



SGS





Assembly View

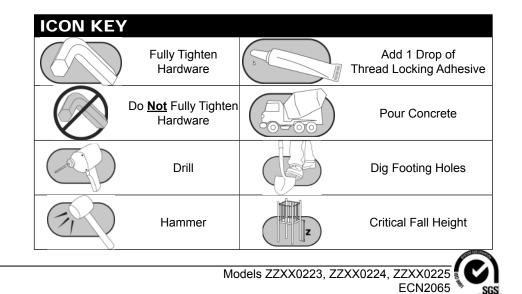
Model Number	Top Rail Height
ZZXX0223	7 ft. (2135 mm)
ZZXX0224	8 ft. (2440 mm)
ZZXX0225	10 ft. (3050 mm)

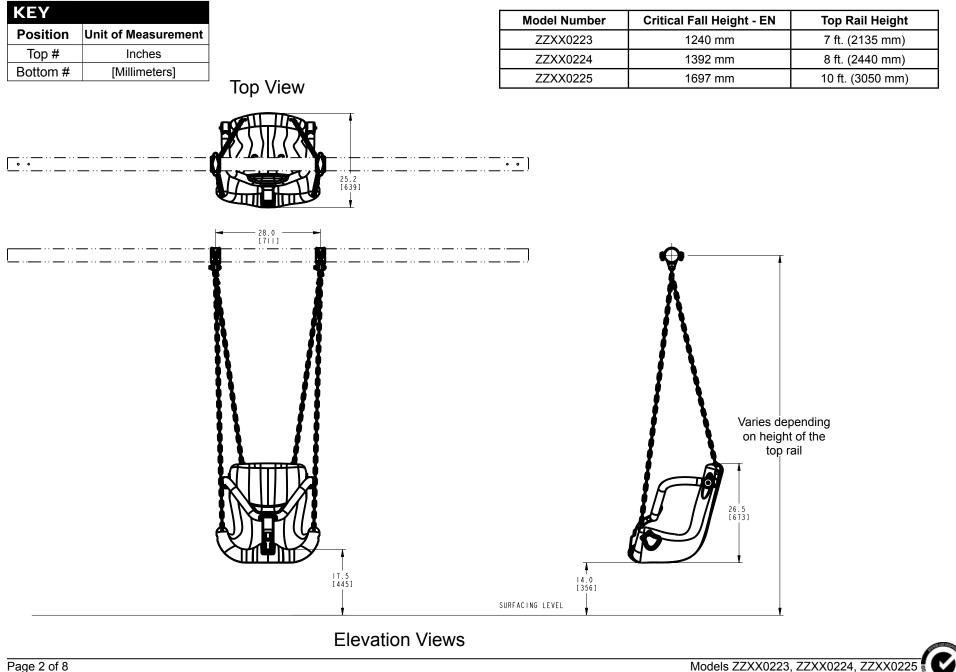
Installation Instructions

Playworld Systems® Models XX0223, XX0224, XX0225 Accessible Swing Seat w/ Galvanized Chain to 7 ft (2134 mm), 8 ft. (2438 mm), and 10 ft. (3048) Top Rail

Installation Preparation

Recommended Crew:	One (1) adult
	0.5 man hour
Use Zone:	
User Group Age (years	s): ASTM/CSA: 2-12, EN: 2-14

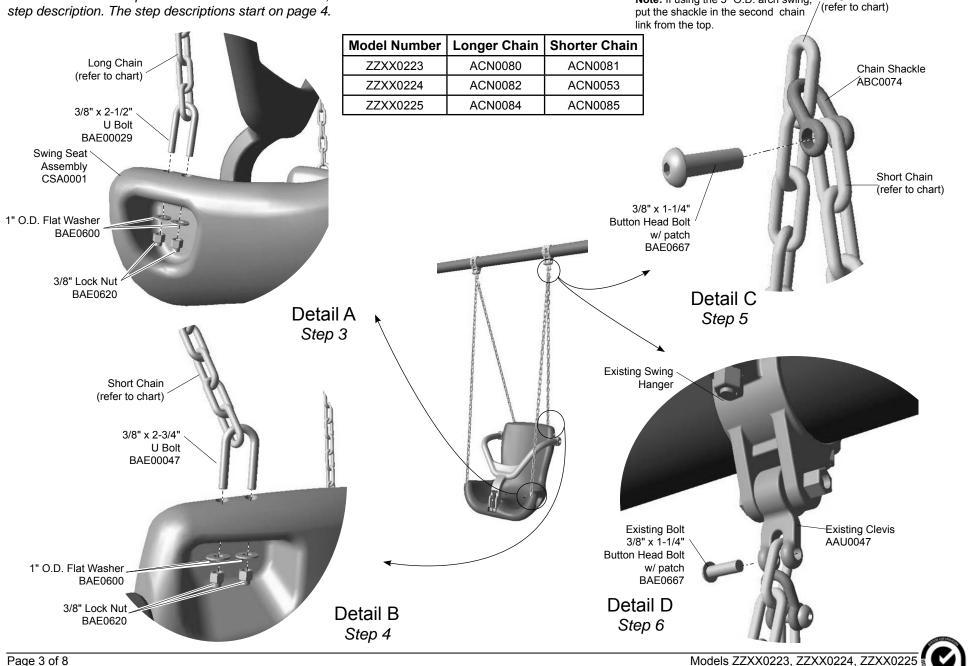




ECN2065

SGS

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



Long Chain

ECN2065

SGS

Note: If using the 5" O.D. arch swing,

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

Carefully read and understand these installation instructions before you begin.

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

_Step 2: Separate and identify all components and hardware.

Attach the longer chain assembly to the accessible swing seat.

____Step 3: See **Detail A**. Select the accessible swing seat, the longer chain, and the appropriate hardware. There is (1) one connection per chain, (2) two total connections. Insert a U-bolt through the chain and into the openings on the top of each arm rest. Attach as shown.

Attach the shorter chain assembly to the accessible swing seat.

___Step 4: See **Detail B**. Select the shorter chain, and the appropriate hardware. There is (1) one connection per chain, (2) two total connections. Insert a U-bolt through the chain and into the openings on the top of the seat back. Attach as shown.

Connect the chains.

___Step 5: See **Detail C**. Select the swing seat assembly, (2) two shackles, and the appropriate hardware. There are (2) two connections. Thread a shackle through the last link of one of the longer "front" chains. Insert the last link of the shorter chain into the open end of the shackle. Insert a bolt though the unthreaded side of the shackle, *through the last link* of the shorter chain, and thread into the opposite side of the shackle. Repeat for the other set of chains.

Attach the seat assembly to the swing hangers.

_____Step 6: See **Detail D**. There are (2) two connections. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex wrench. Select the swing seat and place the last link of the longer chain into the open end of the clevis. Reinsert the bolt through the unthreaded side of the clevis, *through* the chain link, and thread into the opposite side of the clevis.

Final Details.

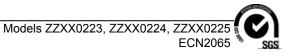
___Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

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

Important Note: The vertical distance between an occupied seat and the protective surface should be at least 14" (356 mm). Remove any excess chain.

Usage instructions: Place child in swing and pull the harness down around child. Pull the rubber latch up until the hole aligns with the protrusion on the harness. Press the rubber latch onto the harness to secure. To release the latch, pull the rubber up and out until the harness is released. Do **NOT** attempt to pull harness out of swing seat without disengaging the latch first.



ZZXX0223 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 7 ft. (2134 mm) TOP RAIL

ZZXX0225 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 10 ft. (3048 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2	ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0080	CHAIN - 57.00" 4/0 GALVANIZED	2	ACN0084	CHAIN - 93.00" 4/0 GALVANIZED	2
ACN0081	CHAIN - 40.00" 4/0 GALVANIZED	2	ACN0085	CHAIN - 75.00" 4/0 GALVANIZED	2
BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2	BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2
BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2	BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2
BAE0600	WASHER - 1" O.D. FLAT	8	BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2	BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
CSA0001	ASSY - ACCESSIBLE SWING SEAT	1	CSA0001	ASSY - ACCESSIBLE SWING SEAT	1

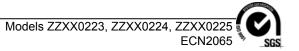
ZZXX0224 - ACCESSIBLE SWING SEAT w/ GALVANIZED CHAIN TO A 8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0053	CHAIN - 52" 4/0 GALVANIZED	2
ACN0082	CHAIN - 69.00" 4/0 GALVANIZED	2
BAE0029	BOLT - 3/8"-16 x 7/8" x 2-1/2" U	2
BAE0047	BOLT - 3/8"-16 x 7/8" x 2-3/4" U	2
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	8
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
CSA0001	ASSY - ACCESSIBLE SWING SEAT	1





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Fasteners

Inspect for loose fasteners.

Tightening torque specifications are:

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

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

Plastic Parts

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

Castings

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

Finish

· Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with colormatching paint and allow to dry. Recoat area with colormatching paint if required. Drying time is approximately 8 hours between coats.

To repair the coating, contact the Playworld Systems' Customer Service Department for a coating repair touchup kit.

Replacement Parts

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

Equipment Maintenance

Playworld Systems[®] Model XX0223, XX0224, XX0225 Accessable Swing Seat w/ Galvanized Chain to 7 ft (2134 mm), 8 ft. (2438 mm), and 10 ft. (3048) Top Rail







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	Inspe Code	ection Date	Date Repairs Completed	
Inspect plastic parts for damage.		Medium				Inspection Codes
Inspect clamps for tightness and damage.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
Inspect footing to insure support is secure and footing is not damage	d.	Low				
Inspect surfacing to insure proper depth and distribution.		High				
Inspector: Name (Please Print)	Signature:				Da	ate://

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date
Repairer: Name (Please Print)	Signature:	Date:/_	_/

ECN2065







Assembly View

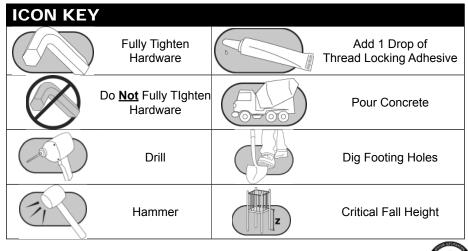
Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Instructions

Playworld Systems[®] Models XX0260, XX0261, & XX0324 Belt Seat with Swing Chain

Installation Preparation

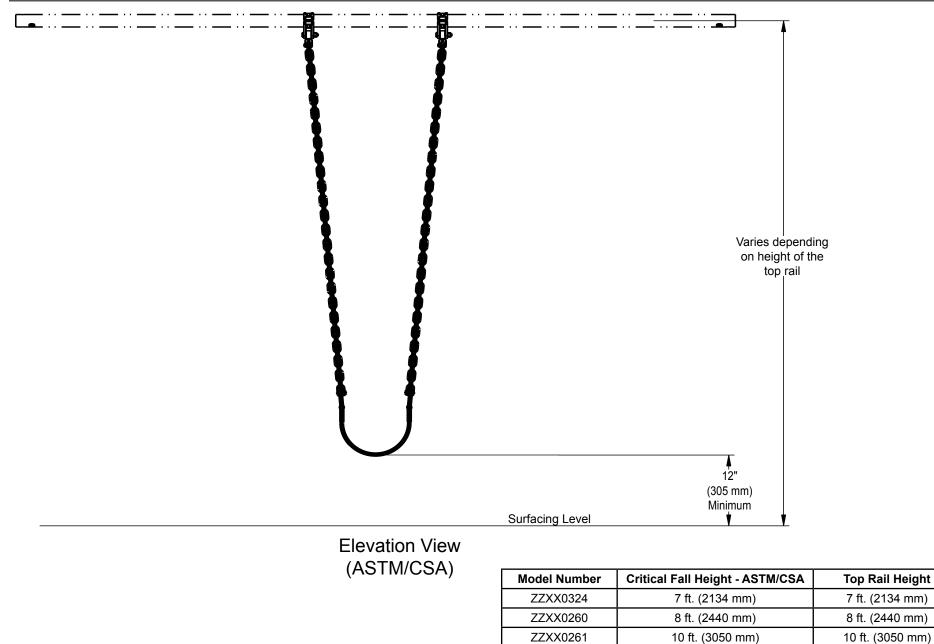
Recommended Crew:	One (1) adult
	0.25 hour
Use Zone:	
User Group Age (year	s):ASTM/CSA: 2-12, EN: 2-14



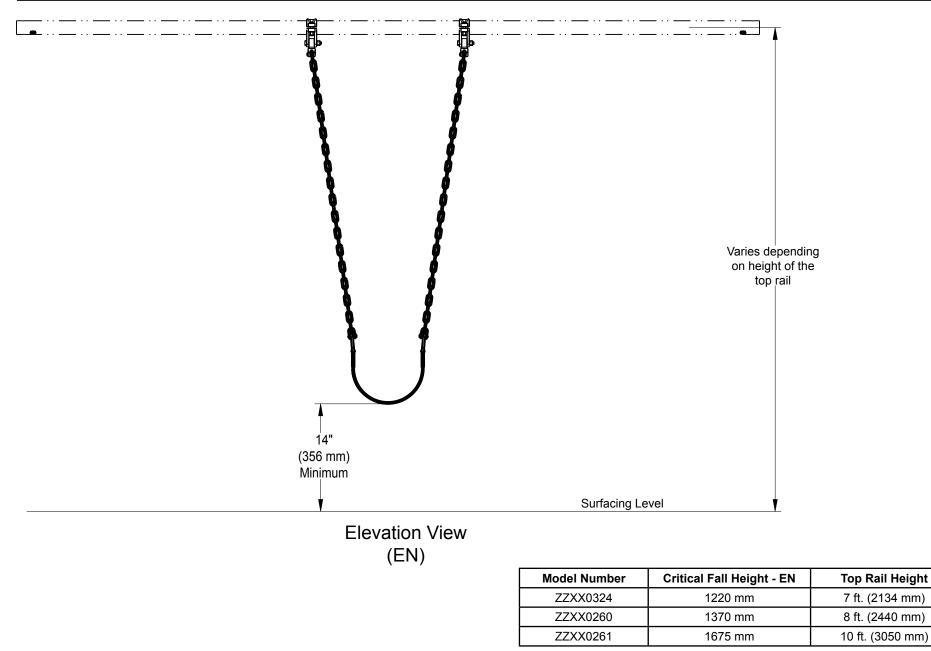
Models XX0260, XX0261, & XX0324



ECN2147

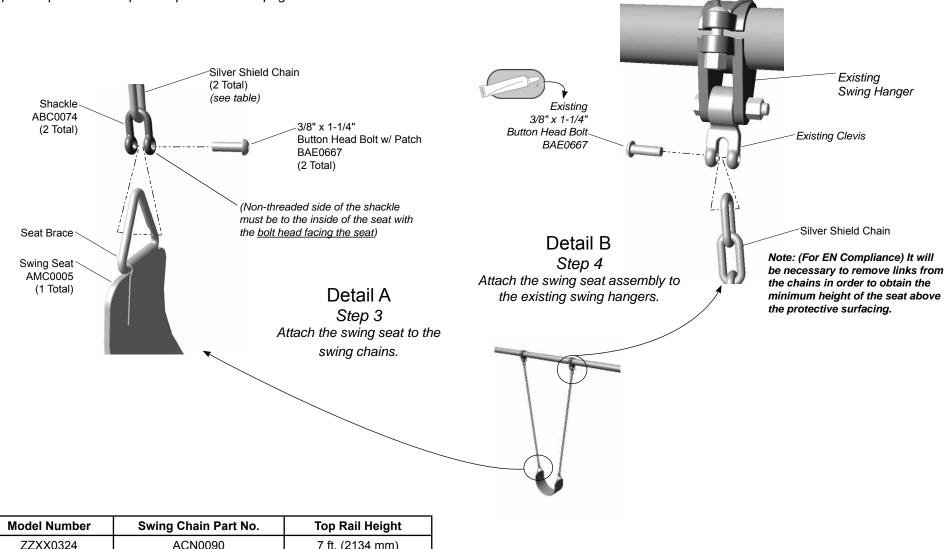








Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



incaci italiicoi	owing onain r art no.	rop Run Hoight
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

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

Carefully read and understand these installation instructions before you begin.

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

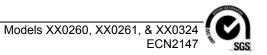
Step 2: Separate and identify all components and hardware.

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

Step 4: Attach the swing seat assembly to the existing swing hangers. See Detail B. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side. Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.

Step 5: Fully tighten all fasteners according to tightening torque specifications. **Torque specifications** - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.



ZZXX0324 - BELT SEAT WITH SWING CHAIN

- 7 ft. (2134 mm) TOP RAIL HEIGHT

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

ZZXX0260 - BELT SEAT WITH SWING CHAIN

- 8 ft. (2438 mm) TOP RAIL HEIGHT

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

ZZXX0261 - BELT SEAT WITH SWING CHAIN

- 10 ft. (3048 mm) TOP RAIL HEIGHT

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



SGS



Swing Seat

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

Fasteners

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

Finish

• Inspect metal parts for finish damage.

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance

Playworld Systems[®] Models XX0324, XX0260 & XX0261 Belt Seat with Swing Chain







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	Inspe Code	ection Date	Date Repairs Completed	
Inspect chain and swing seat for damage.		Medium				Inspection Codes
Inspect surfacing to insure proper depth and distribution.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
	Signature:				Da	ite: / /

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date
	Signature:	Date:	1 1





Playworld Systems[®] Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain

Installation Preparation

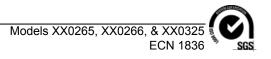
Recommended Crew:	One (1) adult
	0.25 hour
Use Zone:	
User Group:	Ages 2 - 5 years

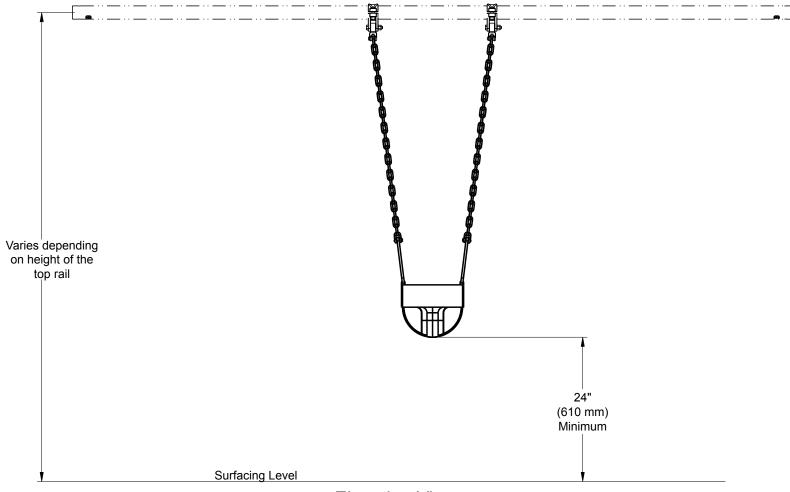
Assembly View

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

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





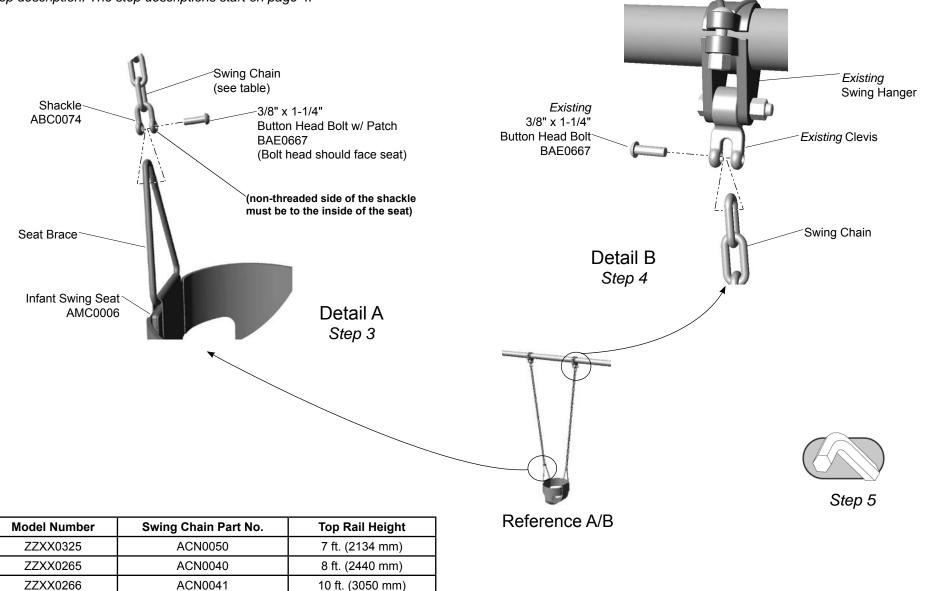


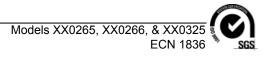
Elevation View

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

SGS

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





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

Carefully read and understand these installation instructions before you begin.

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

_Step 2: Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

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

Attach the swing seat assembly to the existing swing hangers.

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

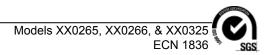
Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.

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

Final Details.

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

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



ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN

- 7 ft. (2134 mm) TOP RAIL HEIGHT

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

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

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

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN

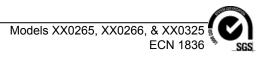
- 10 ft. (3048 mm) TOP RAIL HEIGHT

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





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Swing Seat

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

Fasteners

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

Finish

• Inspect metal parts for finish damage.

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

Surfacing

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

Replacement Parts

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

Equipment Maintenance

Playworld Systems[®] Models XX0265, XX0266, & XX0325 Infant Swing Seat with Swing Chain







Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST		Frequency	Inspe Code	ection Date	Date Repairs Completed	
Inspect chain and swing seat for damage.		Medium				Inspection Codes
Inspect surfacing to insure proper depth and distribution.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High]
]
				0]
Inspector: Name (Please Print)	Signature:	-	•	-	Da	ate: / /

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

 Repairer:
 Name (Please Print)
 Signature:

Date:



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

Installation Guidelines

• Identify all parts and thoroughly read the assembly instructions before beginning construction.

• Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and noencroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

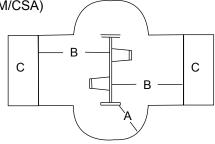
(ASTM / CSA)

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

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

Belt/Rigid Seat Swing Zones (ASTM/CSA)

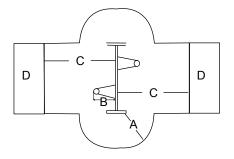
- **A** = Side Use Zone 72 in. (1829 mm)
- B = End Use Zone Height of Pivot Point from Surfacing x 2 Both Sides of Top Rail
- C = No-encroachment Zone 72 in. (1829 mm)



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

Infant Seat Swing Zones

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





(EN)

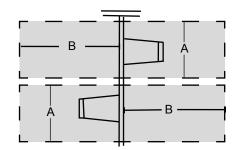
• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing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

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

Use Zones - EN Compliance

- A = Width of the corridor centered on the swing seat 1750 mm
- **B** = Length of the use zone on both sides of the top rail (8ft) Tot Seats: 3290 mm for unitary surfaced areas

or 3790 mm for areas covered with loose fill surfacing. Belt / Rigid Seats: 3510 mm for unitary surfaced areas or 4010 mm for areas covered with loose fill surfacing



• Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

• Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

• After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

• Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

• Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

• Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

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

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

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

Maintenance

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

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

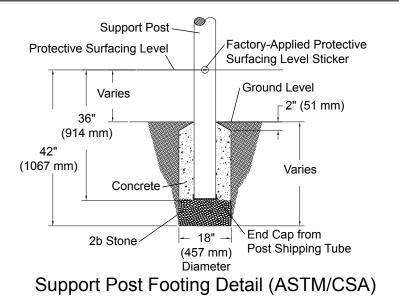
• Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.

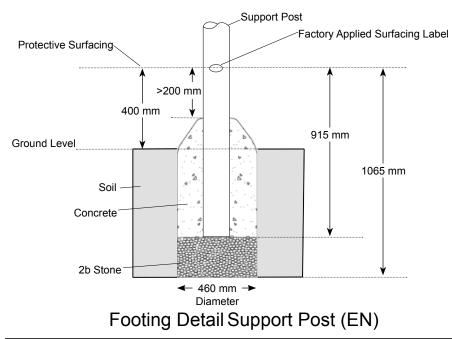
• It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.

• Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.

• Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.

• Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.





FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete. *Example:* If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
 For example:
 - If local soil is loose or unstable, a larger footing may be required.

- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- · Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

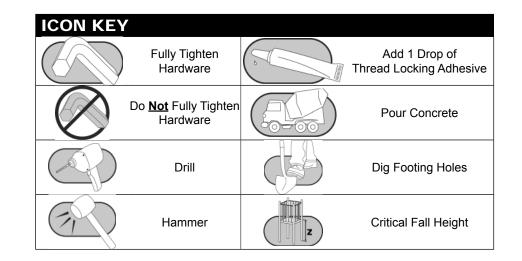




Playworld Systems[®] Model XX0287 5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing 8 ft. (2438 mm) Top Rail

Installation Preparation

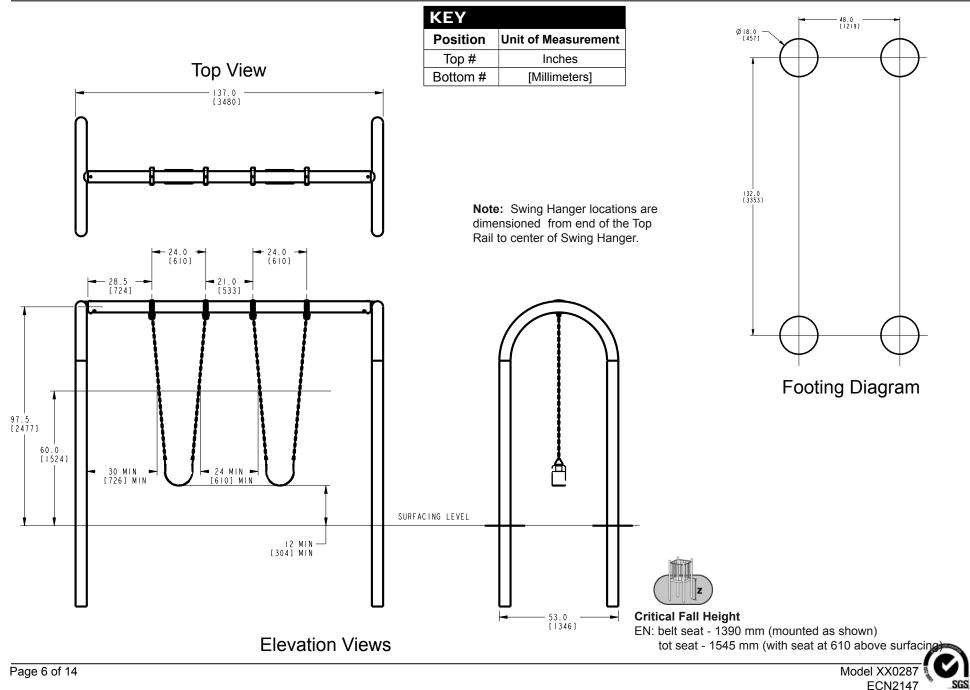
Recommended Crew:	Four (4) adults
Installation Time:	3 man-hours
Concrete Required:	0.48 cubic yard (0,37 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	

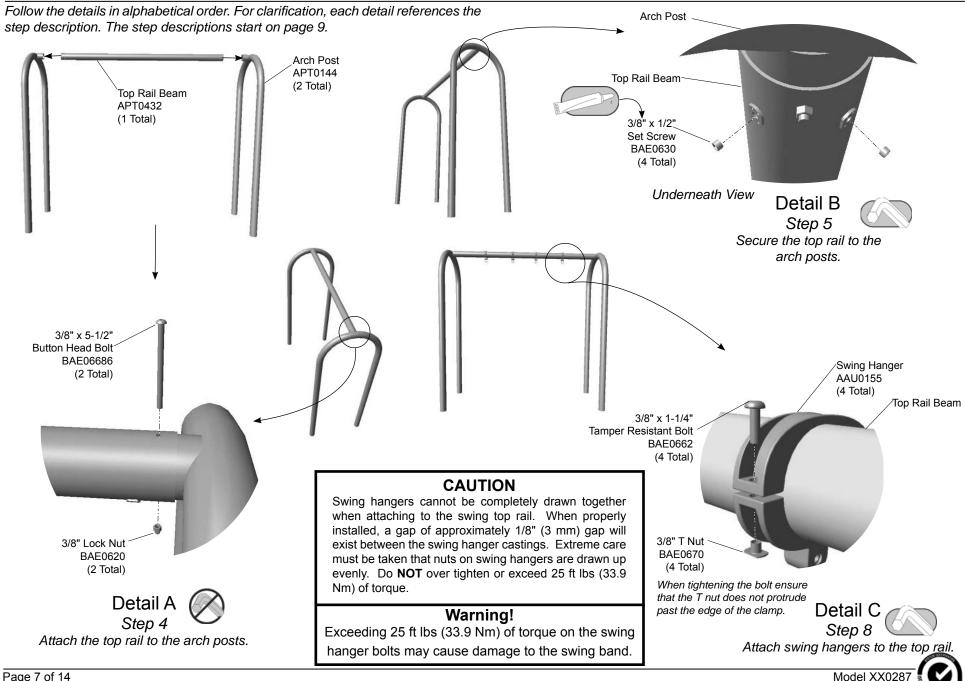




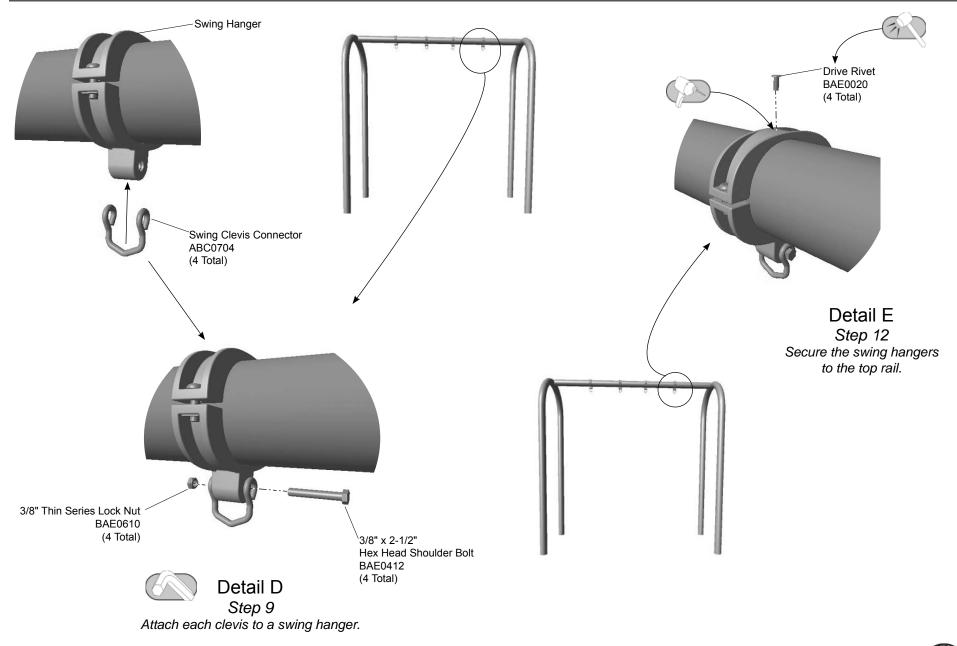


Assembly View (representative model)





ECN2147



Model XX0287 ECN2147

SGS

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Assemble the swing frame.

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

Position the swing frame.

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

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

Attach swing hangers to the top rail.

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

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

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

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

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

Final Details

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.



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

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

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



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

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





FINAL INSPECTION

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

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



Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls.



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Swing Hangers

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

Fasteners

Inspect for loose fasteners.

Tightening torque specifications are:

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

<u>Set Screws:</u> Snug tighten and tighten an additional full turn.

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

Welds

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

Finish

· Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with colormatching paint and allow to dry. Recoat area with colormatching paint if required. Drying time is approximately 8 hours between coats.

Footings

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

Surfacing

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

Replacement Parts

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

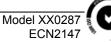
Equipment Maintenance

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



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





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	Inspe Code	ction Date	Date Repairs Completed	
Inspect surfacing to insure proper depth and distribution.		High				Inspection Codes
Inspect swing hangers for tightness and damage.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
Inspect footing to insure support is secure and footing is not damaged	1.	Low				
Inspector: Name (Please Print)	Signature:				Da	te://

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print)	Signature:	Date://
Page 14 of 14		Model XX0287 🛽 💟 🛛

GUIDELINES

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

Installation Guidelines

• Identify all parts and thoroughly read the assembly instructions before beginning construction.

• Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and noencroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

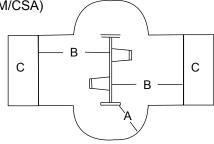
(ASTM / CSA)

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

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

Belt/Rigid Seat Swing Zones (ASTM/CSA)

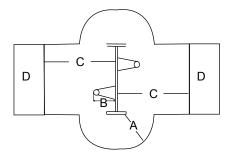
- **A** = Side Use Zone 72 in. (1829 mm)
- B = End Use Zone Height of Pivot Point from Surfacing x 2 Both Sides of Top Rail
- C = No-encroachment Zone 72 in. (1829 mm)

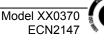


• The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

Infant Seat Swing Zones

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





(EN)

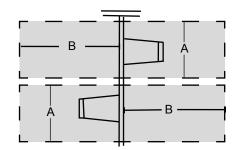
• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing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

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

Use Zones - EN Compliance

- A = Width of the corridor centered on the swing seat 1750 mm
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• Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

• Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

• After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

• Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

• Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.

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

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

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

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

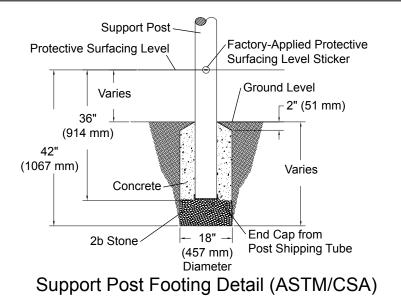
• Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.

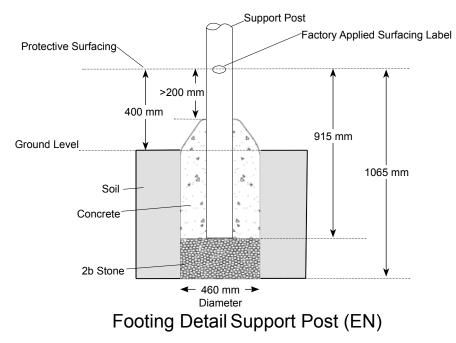
• It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.

• Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.

• Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.

• Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.





FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete. *Example:* If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
 For example:
 - If local soil is loose or unstable, a larger footing may be required.

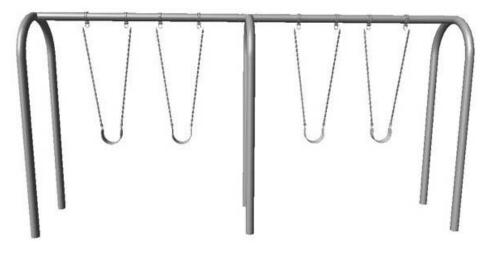
- If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- · Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.





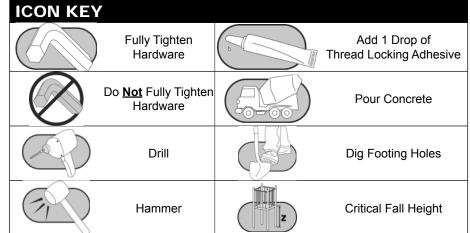
Playworld Systems[®] Model XX0370 5 in. (127 mm) O.D. Aluminum Arch Swing 2-Unit Add-A-Bay

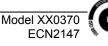


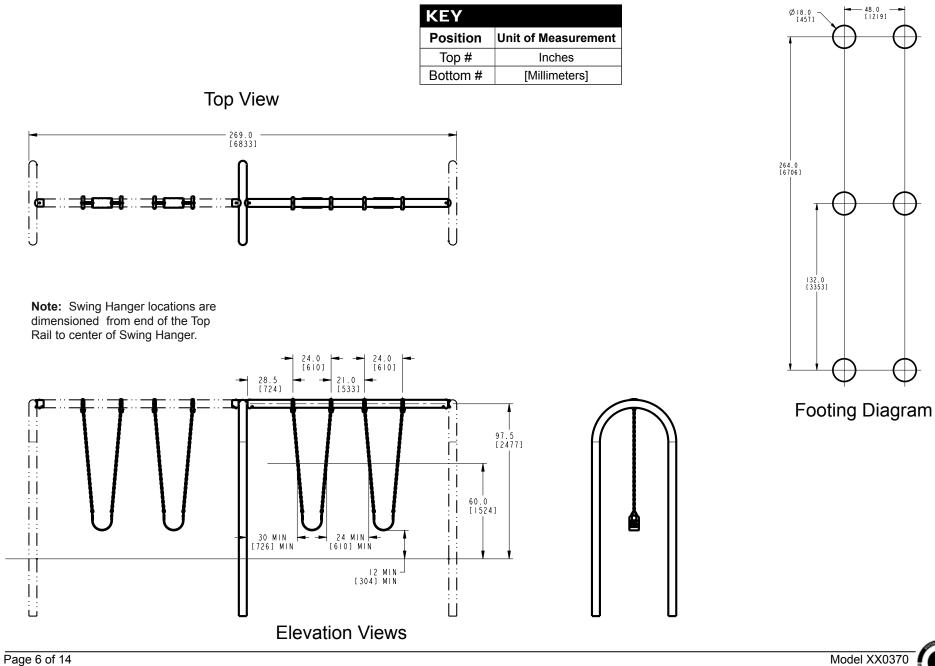
Assembly View

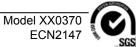
Installation Preparation

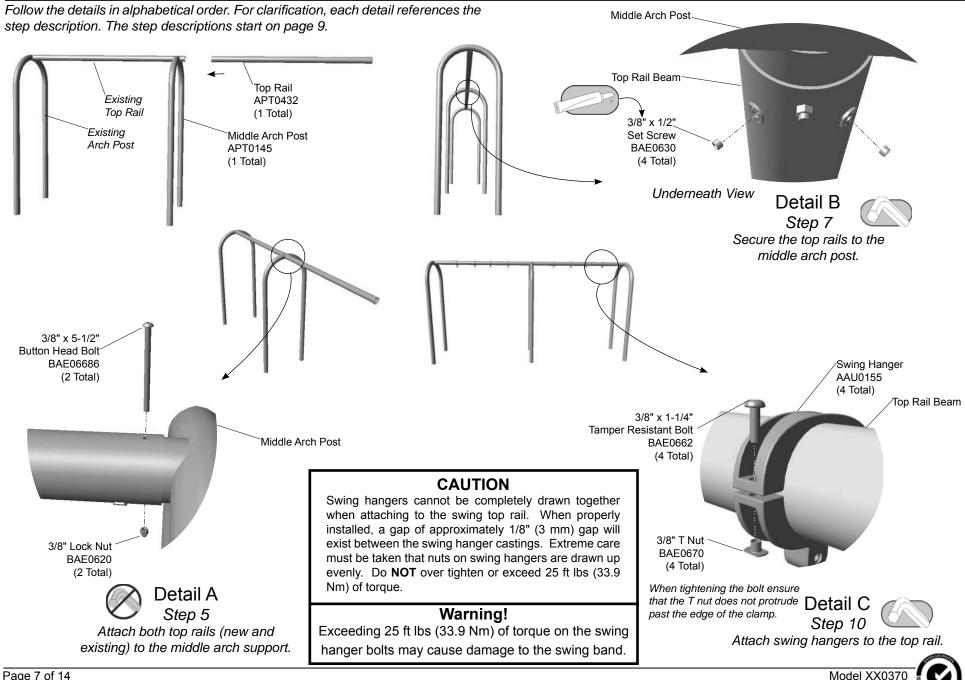
Recommended Crew:	Three (3) adults
Installation Time:	2 man-hours
Concrete Required:	0.24 cubic yard (0,18 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14



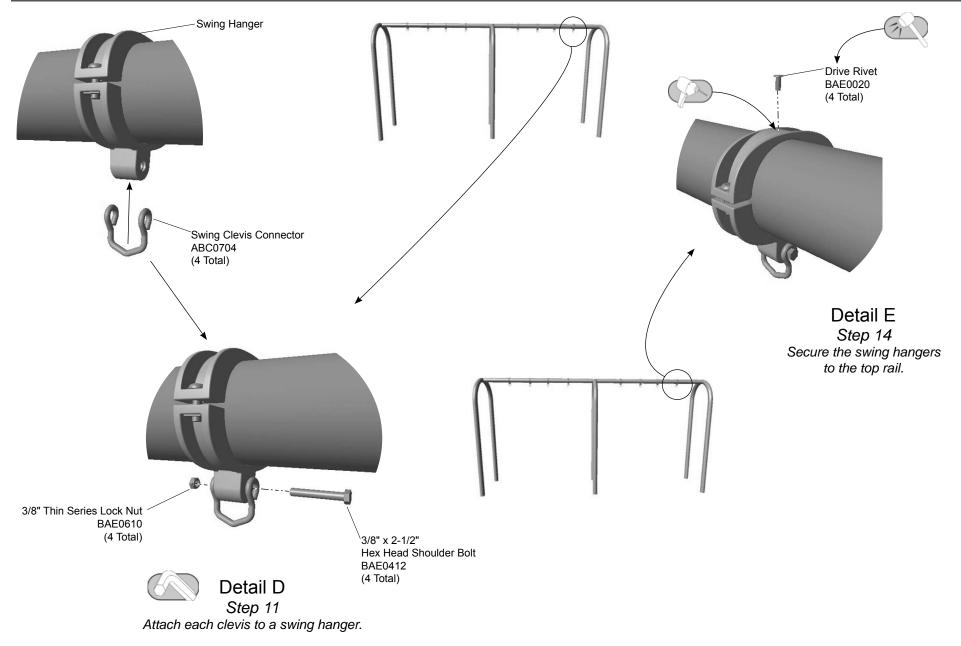








ECN2147



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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

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

Existing Swing

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

New Installation

Assemble the swing frame.

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

Re-Connect opposite end of frame.

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

Position the swing frame.

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

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

Attach swing hangers to the top rail.

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

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

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

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

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



Model XX03

Final Details

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

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

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn. *Set Screws* - Snug tighten and tighten an additional full turn.

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

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

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

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

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



FINAL INSPECTION

- Playworld Systems[®] insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems[®] strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
- Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
- Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
- Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
- Clean dried concrete off of components and any other affected surface.
- Touch-up any scratches or installation damage to powder coated finish with colormatched spray paint.
- Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.

• Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".

• Insure that hard surface warning/Playworld Systems[®] identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

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



Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls.



www.playworldsystems.com



Model XX03

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Swing Hangers

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

Fasteners

Inspect for loose fasteners.

Tightening torque specifications are:

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

<u>Set Screws:</u> Snug tighten and tighten an additional full turn.

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

Welds

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

Finish

· Inspect metal parts for finish damage.

To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with colormatching paint and allow to dry. Recoat area with colormatching paint if required. Drying time is approximately 8 hours between coats.

Footings

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

Surfacing

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

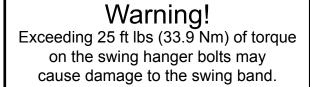
Replacement Parts

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

Equipment Maintenance

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











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	Inspe Code	ction Date	Date Repairs Completed	
Inspect surfacing to insure proper depth and distribution.		High				Inspection Codes
Inspect swing hangers for tightness and damage.		High				P = Pass F = Fail
Inspect metal parts for structural and finish damage.		Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken fasteners.		High				
Inspect footing to insure support is secure and footing is not damaged	J.	Low				
Inspector: Name (Please Print)	Signature:				Da	ite://

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print)	Signature:	Date:/
Page 14 of 14		Model XX0370



Tenney Park Installation Specs

Tenney Park Component List

Date: 03/22/2017	Rep Organization: Gerber Leisure Products
By: Dirk	Contact Person: Hollie Rickey

Project Title: Tenney Park

Location: Madison, WI

NOTE: All non-black core Permalene will be Custom after 12/31/2016.

PHAS	E-1 Direct E	Bury Mixed Material	U	IIT	TOTA
QTY	NO.	DESCRIPTION	WEIGHT (lb)		(lb)
PlayE Slides	Booster®				
1	124863F	SlideWinder2 72"Dk DB 1 Straight 2 Right			234.0
Climb	ers W/Perma	alene Handholds			
1 1	122570B 152907C	Cliff Climber 56"Dk DB Deck Link w/Barriers Steel end panels 3 Steps			137.0 236.0
Climb	ers Nature-Ir				
1 1 1	111812A 207581A 169318C	Headform Set The Ascent Rock ¹ Wood Plank Wiggle Ladder 48"Deck w/Recycled Wood-Grain Handholds DB			2.1 2892.0 79.0
Over	nead Events	,			
1	119430A	Overhead Parallel Bars/Horiz Lad Connected Between Decks			121.0
Bridg	es & Ramps				
1	193173C	TightRope Bridge w/o Deck Connections			57.0
Enclo	sures				
1	218172B	DigiFuse Barrier Panel w/Medallions Ground Level			46.0
1	169319A	Recycled Wood-Grain Lumber Panel			85.0
More					
1 1	120901A 120818A	Grab Bar Playstructure Seat			5.0 26.0
Decks			66.0		122.0
2	122197A 121948A	90* Triangular Tenderdeck Kick Plate 8"Rise	66.0		132.0 13.0
1 2	121948A 111228A	Square Tenderdeck	118.0		236.0
1	185852A	Transfer Step w/2 Handloops DB	11010		77.0
1	121949B	Tri-Deck Kick Plate 16"Rise			33.0
Posts					
1	111404G	100"Alum Post DB			26.0
4	111404E	116"Alum Post DB	29.0		116.0
2	111404D	124"Alum Post DB	30.0		60.0
2	111404C	132"Alum Post DB	31.0		62.0
1	111404B	140"Alum Post DB			34.0
1	111404A	148"Alum Post DB			36.0

Tenney Park Component List

Date: 03/22/2017	Rep Organization: Gerber Leisure Products
By: Dirk	Contact Person: Hollie Rickey

Project Title: Tenney Park

Location: Madison, WI

NOTE: All non-black core Permalene will be Custom after 12/31/2016.

PlayBooster [®] (5-12 years)							
PHASE-1 Direct Bury Mixed Material			UNIT	TOTAL			
QTY	NO.	DESCRIPTION	WEIGHT (lb)	WEIGHT (lb)			
2	111404M	148"Steel Post DB	88.0	176.0			
1	111404J	76"Alum Post DB		19.0			
1	111404H	92"Alum Post DB		23.0			
Non Standard Product Charges							
1	204847	Oak leaf wobble pod		285.0			
Freestanding Play							
Kids I	n Motion						
1	205800A	TopsyTurny Spinner 42"Bury DB Only ¹		397.0			
Swings							
1	221292A	5" Arch Swing Frame 8' Beam Height Only		204.0			
1	221293A	5" Arch Swing Frame Additional Bay 8' Beam Height Only		124.0			
2	174018A	Belt Seat ProGuard Chains for 8' Beam Height	8.0	16.0			
Signs							
1	182503C	Welcome Sign (LSI Provided) Ages 5-12 years Direct Bury		24.0			

SUMMARY		WEIGHT (lb)
years) PHASE-1	34	6,013.1
PlayBooster®	26	5,248.1
Freestanding Play	8	765.0
Total	34	6,013.1
	PlayBooster [®] Freestanding Play	PlayBooster®26Freestanding Play8





*Custom products are shown as conceptual only. *Custom product manufacturing time for this project will be approximately 4 weeks from the time of LSI order acceptance.



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*Custom products are shown as conceptual only. *Custom product manufacturing time for this project will be approximately 4 weeks from the time of LSI order acceptance.



Better playgrounds. Better world.®

Proudly presented by: Hollie Rickey 0 je.



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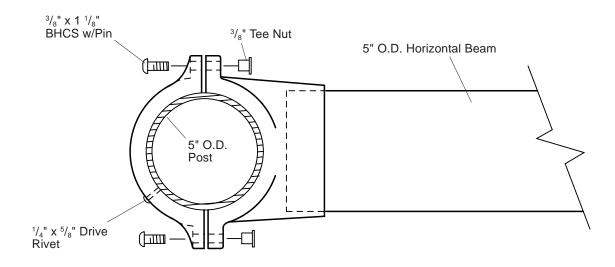
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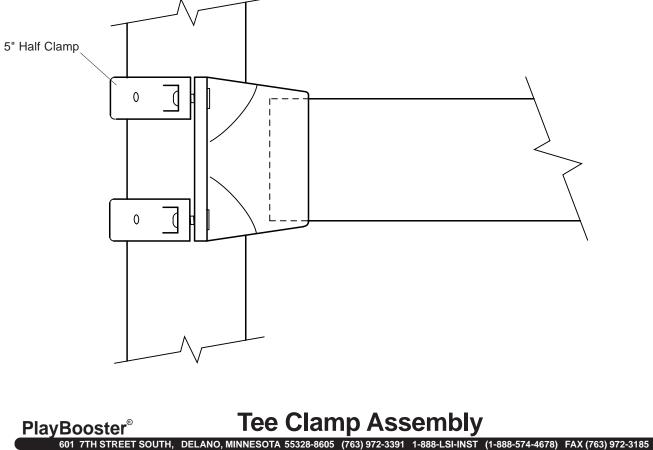




SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

> 3-1-94 11002200





Document #11002200

13



PlayBooster® Tee Clamp Assembly

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Parts List

Part#	Description	Qty
105327-01	5" Half Clamp, Specify Color	
100198-00	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	4
100351-00	³ / ₈ " Tee Nut, SST	4
100610-00	$^{1}\!/_{4}$ " x $^{5}\!/_{8}$ " Drive Rivet, SST	2

Specifications

Tee/Beam:	356 alloy treated to T-6 hardness and welded to 5" aluminum beams or mechanically fastened to 5" steel beams. Finish: Powdercoat, color specified.
Half Clamps:	Cast aluminum. Finish: Powdercoat, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific prod- uct installation/specifications).
Installation Time: Weight:	Approx. $1/2$ man hour 2 lbs.

Installation Instructions

- 1) Locate and mark center of clamp location on 5" pipe.
- 2) With beam in position, fasten 5" half clamps to tee clamp using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin and tee nuts as shown. Tighten cap screws evenly.
- 3) **IMPORTANT:** Install drive rivets in half clamps by drilling holes in clamps and into 5" pipe using a ¹/₄" or "F"(only) drill bit. Insert rivet in hole, and hammer rivet pin in until it is flush with head.

115176 is a hard surface label

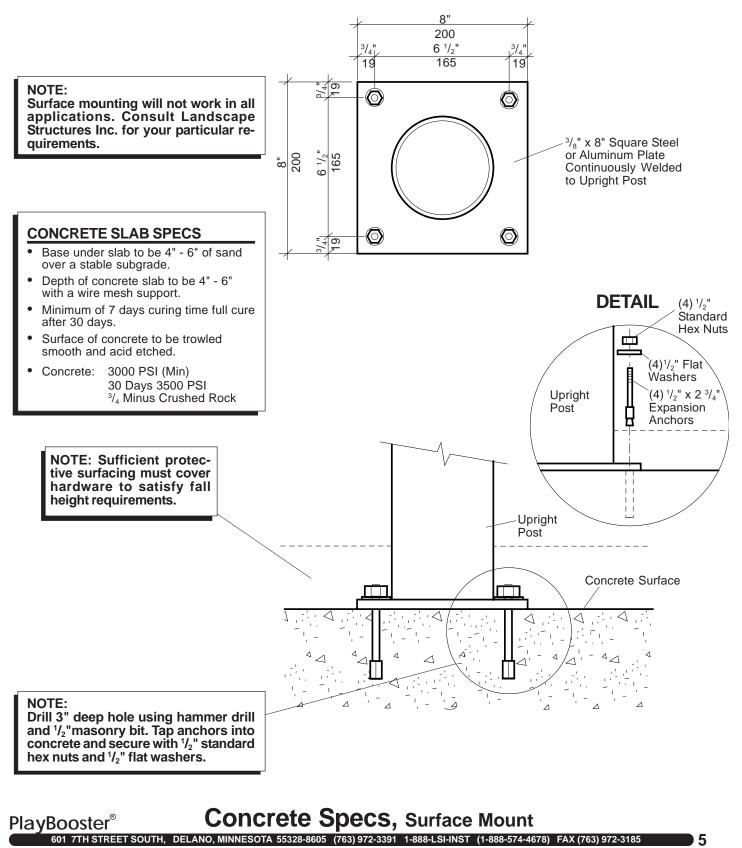
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M landscape structures®



SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487)

> 3-29-01 12194700



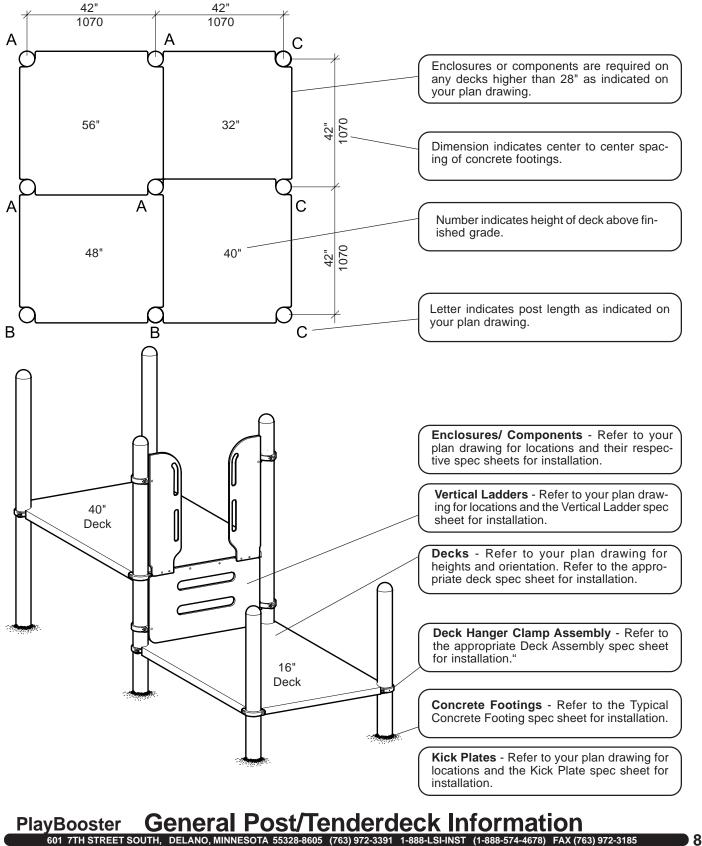
© 2001 by Landscape Structures. All rights reserved. 1-30-97 Document #12194700 replaces #10971000. Updated notes.

Document #12194700

M landscape structures™ SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487, SECTION 9.)



6-1-95



Document #10972201



Installation Instructions

Before Starting, Read the General Construction Guidelines, Installation Hints, All Typical Detail Sheets and Specific Installation Instructions for Each Component Labeled on Your Plan.

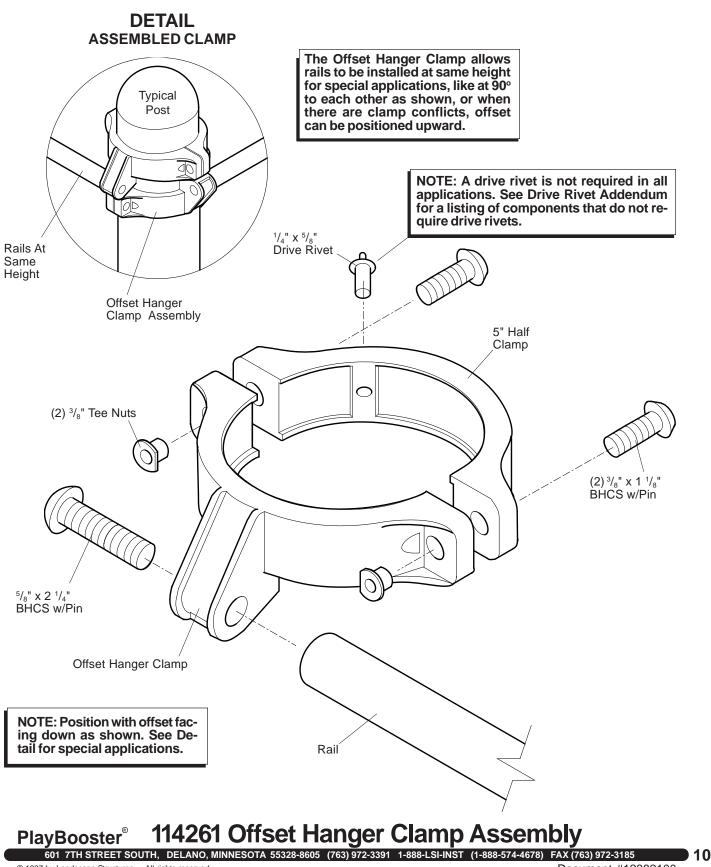
- 1) Dig footing holes spaced as shown on the plan and spec sheets. Refer to the Typical Concrete Footing Spec Sheet.
- 2) Note the post lengths as shown on the plan and set in their appropriate footing holes. The post length is indicated on the finished grade sticker on each post.
- 3) Mark the appropriate posts for the deck heights you are installing and attach decks to posts at marked height. Refer to the appropriate deck spec sheet for installation.
- After all the posts are at proper heights and plumb, and the decks are at proper height and level, pour the concrete footings per the Typical Concrete Footing Spec Sheet.
- 5) Continue installing enclosures and components and pour concrete footings as you progress, making sure everything is plumb and level.
- 6) When installation is complete, install Drive Rivets in all clamps per the Typical Offset Hanger Clamp Spec Sheet.
- 7) Install protective surfacing under and around all equipment before users are allowed to play on the structure.





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

> 10-3-97 12382100



Document #12382100



PlayBooster[®]114261 Offset Hanger Clamp Assembly

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Parts List

Part#	Description	Qty
100198-00	3/8" x 1 1/8" BHCS w/Pin, SST	2
100351-00	³ / ₈ " Tee Nut, SST	2
100610-00	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	1
105327-01	5" Half Clamp, Specify Color	1
113729-00	Offset Hanger Clamp, Specify Color	1
100203-00	⁵ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	1

Specifications

Clamp: Cast aluminum. Finish: Powdercoat, color specified.

- **Fasteners:** Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
- **Installation Time:** Approx. ¹/₄ man hour **Weight:** 3 lbs.

Installation Instructions

- 1) Locate and mark position of clamp on 5" post.
- 2) Position clamp in proper direction and assemble with ³/₈" x 1 ¹/₈" BHCS w/pin and ³/₈" tee nuts as shown and lightly tighten. Position rail against clamp and screw in ⁵/₈" x 2 ¹/₄" BHCS w/pin until rail bottoms out on clamp. Final tighten all fasteners.
- 3) IMPORTANT: Drill through hole in 5" half clamp and into 5" post with a ¹/₄" or "F" (only) drill bit, insert rivet in hole and hammer rivet pin in until it is flush with head.





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

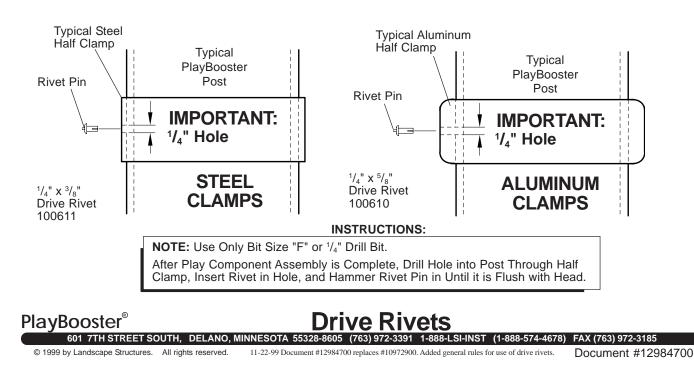
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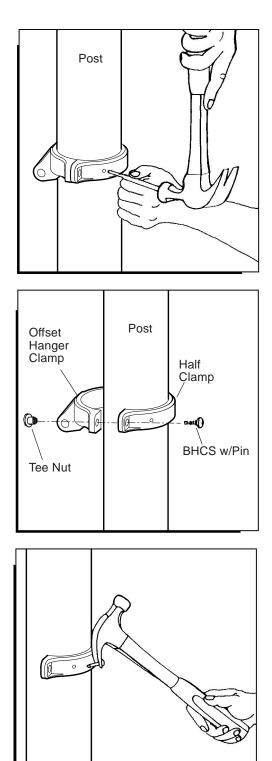
General Rules For Use Of Drive Rivets

- Rivets are used as "Insurance" to keep clamps from sliding down the posts. In many cases this "Insurance" is achieved in other ways; i.e. Panels that attach to the deck face.
- Refer to the Spec Sheet Parts List and follow Installation Instructions for each component.
- Decks and Overhead Events always need rivets.
- Any component fastened to the Deck does not need rivets.

Benefits of not installing unnecessary rivets: saves time, it makes clamp adjustments as well as the removal of clamps for replacement or adding phases much easier, and you will have fewer damaged clamps or posts due to poor installation techniques.



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1) Drive Center Pin of Rivet Straight into Post Using ¹/₈" Diameter Punch and Hammer.

2) Unbolt BHCS w/Pin and Tee Nuts from Clamp Using Tamperproof Hex Wrench. Remove Offset Hanger Clamp. Lightly Tap on Half Clamp with Hammer Until Head of Drive Rivet Pulls Away From Half Clamp.

3) Pull Out Drive Rivet Using Claw End of Hammer.



- Claw Hammer
- 1/8" Diameter Steel Punch
- Tamperproof Hex Wrench

Drive Rivet Removal

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

120688 is a danger keep off sign

Not an Install doc.

120688 is a danger keep off sign

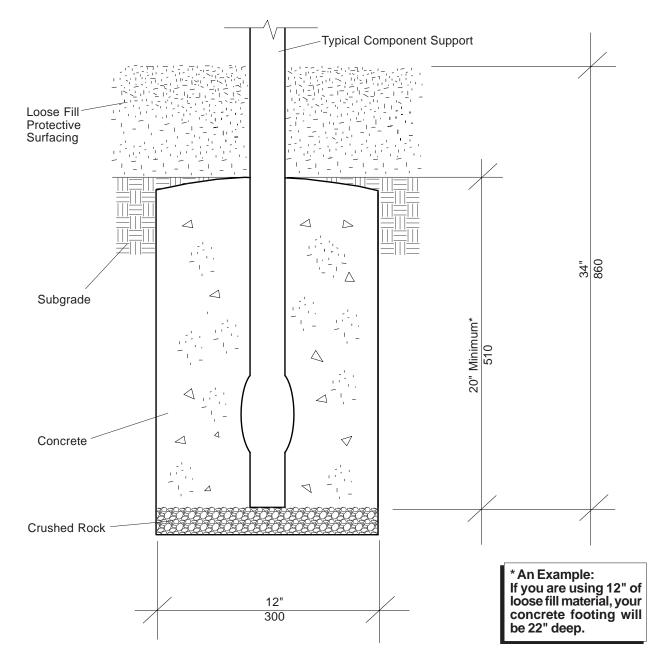
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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487)

> 8-25-00 10970900



Minimum 1.2 Cubic Feet of Concrete Required per Support.



landscape structures[®]



Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM

1-1-01

PlayBooster Installation

- 1) Before starting installation, study your *PlayBooster* plan drawing and all installation instructions carefully for location of posts, deck heights, components and safety enclosures. Make sure slides are oriented away from the afternoon sun and that the structure is visible (easily supervised) and accessible.
- Clear an area large enough for your *PlayBooster* and at least the required minimum use zone around it, as 2) shown on your plan drawing. The subsurface must be well drained. If the soil does not drain naturally it must be tiled or sloped at $\frac{1}{8}$ " to $\frac{1}{4}$ " per foot to a storm sewer or a "French Drain". If your *PlayBooster* is over 30' in length it is recommended to install more than one "French Drain" or similar system to allow drainage from the center of the play area and decrease the overall slope. If this is not possible, the structure may need to be "stepped" to take up the grade change.
- 3) Overhead Obstructions: 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 in. (2130 mm) above each designated play surface or 84 in. (2130 mm) above the pivot point of swings. All overhead utility line clearances above the use zone areas shall comply with all local, state, and national codes, such as the National Electical Safety Code.
- 4) Locate all mainstructure post footing holes according to the dimensions shown on your *PlayBooster* plan. This can be accomplished by laying a deck on the ground and measuring from it; by laying out a base line string grid or using a builders transit. This step is very important and worth taking extra time to be precise. Location of component footings such as slide supports can be done at a later time.
- 5) Refer to the Typical Concrete Footing installation sheet. Dig holes to the proper width and depth as shown. (Only dig enough holes for one day's construction. Do not leave holes open over night.) Pour crushed rock in each hole level with each other and at least 4" deep as shown. This can be easily accomplished either with a builders transit or by laying out hole locations with a string grid, leveling the grid, and measuring down from the grid for each footing. Tamp the crushed rock down until compacted and at proper level. This step is important to ensure all posts will be at the proper height relative to each other, and it greatly simplifies installation. If the soils are loose or unstable, larger diameter holes may be necessary. Check with a local engineer if in doubt.
- Start with the lowest deck and work your way to the highest deck following instructions on the installation 6) sheets for typical post/deck assembly. Install barriers and roofs as located on the plan for stability.
- 7) After the posts are at proper heights and plumb, and the decks are at proper height and level, pour the concrete footings per the Typical Concrete Footing Detail.
- 8) During construction, the site and all the material on it must be secured when unattended to prevent children from playing on them. Do not leave decks with unprotected openings when unattended-use temporary barricades if necessary.
- 9) Install all other play components per the installation instructions. After all components and enclosures are properly attached, pour the remaining concrete footings per the Typical Concrete Footing Detail.
- 10) Install protective surfacing material.
- 11) Attach play hardware such as 'D' rings and swing seats last, *after* protective surfacing is in place and footings have cured at least 3 days.
- 12) Carefully and thoroughly inspect the entire *PlayBooster* to be sure all fastening hardware is tight. According to ASTM F1487, section 6.2 sharp points, edges and protrusions; any exposed bolt ends should not protrude beyond the face of the nut more than two (2) threads. This condition is not planned, but may exist in some applications because materials and finishes will vary. To remedy this situation, add a second nut or washer(s), extras have been added to the spare parts kit. See illustrations on reverse side of this sheet. Children should not be allowed on the structure until this inspection is complete.
- 13) Before children are allowed on the structure, the site must be cleaned and free of all construction debris and packaging material. Do not burn on the site.



General Construction Guidelines

Sheet 1 of 2

7

landscape structures

Tools Required

Tools required for installation are an auger, or other equipment for digging 14" diameter footing holes; shovels, rubber mallet, drill (with 1/4", 7/16", 9/16", 11/16" and 3/8" drill bits), tape measure, hex keys or allen wrenches, level, 3/8" socket set, hammer, open end wrench set, screw driver, for surface mount a hammer drill, 3/8" and 1/2" masonry bits and transit or string line to aid in layout. Some washable felt tip pens are also useful for marking clamp locations.

Materials Required

All *PlayBooster* materials are supplied except concrete for footings, protective surfacing material, and curbing or edging material. With the exception of the special wrenches required (for the pinned hex fasteners) no other tools are supplied.

Recycling

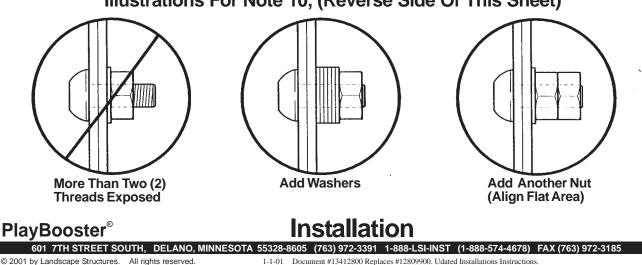
Many of our packaging materials can be recycled, please take the time to separate and deliver them to a recycler. Thank You.

Installation Times

Installation times, as noted on the back of the installation sheets, are *approximate* and will vary depending on soil conditions, installer's equipment and ability. Times indicated do not include unloading or unpacking equipment. The man hours given are for one person installing (unless otherwise noted). Cut time in half for two people.

Technical Services

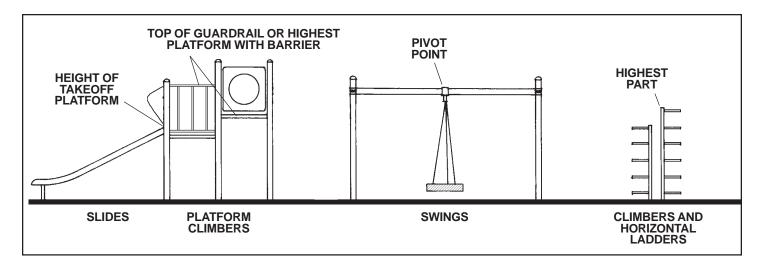
If you have any questions or concerns about the installation of your structure, call our Technical Services Department at: 1-800-328-0035 (7:30 - 5:30p.m. CST/M-F).



Illustrations For Note 10, (Reverse Side Of This Sheet)



F1487.)



- 1.) Determine the highest accessible part by definition.
- 2.) Determine the type of surfacing material desired:
 - Unitary Bound rubber type materials for the accessible areas.
 - *Loose-fill* Sand, wood chips, etc. for non-accessible areas.
- 3.) Select a material that has a Critical Height value of at least the height of the highest accessible part.
 - According to the CPSC, Critical Height is defined as the maximum height from which the instrumented metal headform, upon impact, yields both a peak deceleration of no more than 200 G's and a HIC value of no more than 1,000 when tested in accordance with the procedure described in the ASTM Test Method F1292.
 - Request independent laboratory test results showing the critical height of each product per the above procedures for commercially available products. The CPSC has tested some common loose-fill materials that are commonly not tested as a protective surfacing. (See back page.)
- 4.) Cover the designated use zone with the desired materials. If a different type of material is used for the accessible route of travel, make sure the surfaces are maintained flush.

Selecting Protective Surfacing for Your Playground Sheet 2 of 2 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

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Document #13412800

- SAFETY NOTE

Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



	Uncompressed Depth			Compressed Depth *
Material	6"	9"	12"	9"
* Wood Mulch	7'	10'	11'	10'
* Double Shredded Bark Mulch	6'	10'	11'	7'
* Uniform Wood Chips	6'	7'	12'	6'
* Fine Sand	5'	5'	9'	5'
* Coarse Sand	5'	5'	6'	4'
* Fine Gravel	6'	7'	10'	6'
* Medium Gravel	5'	5'	6'	5'

NA = Not Available

- * **NOTE:** Compressed depths most accurately depict conditions on a playground.
- * An approximation of the maximum fall height from which a life-threatening head injury would not be expected to occur, based on tests in which a headform yielded both a peak deceleration of less than 200 G's and a HIC of less than 1000 upon impact.
- * Handbook for *Public Playground Safety*, published by the U.S. Consumer Products Safety Commission, Section 10, Table 2, page 21.

Critical Heights

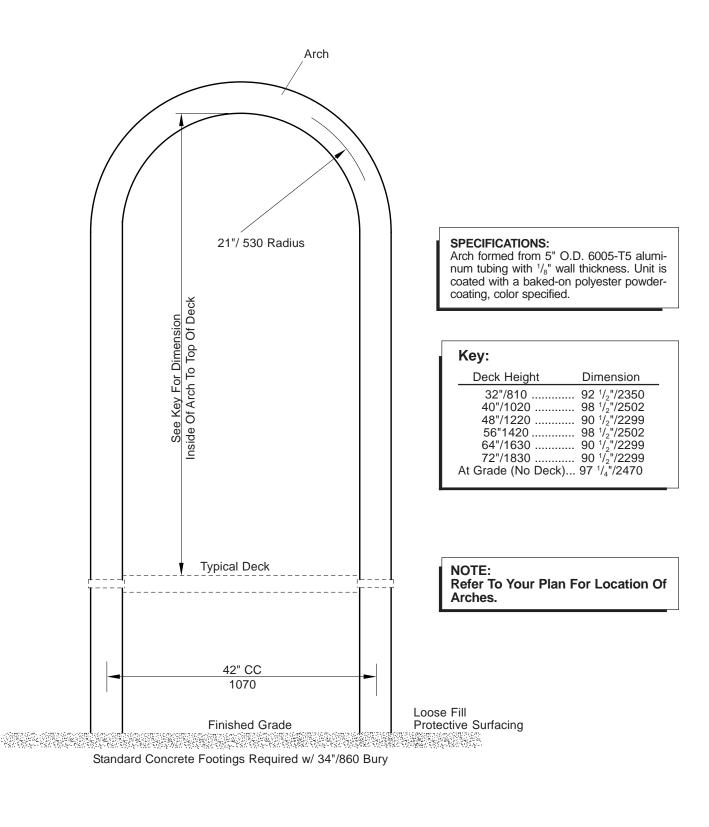
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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487)

> 3-14-01 12026200



PlayBooster[®]

Arches

1



"How to distribute your hardware Headache Free"

We have received feedback from you, our customers, that the most common delay in completing your playground installation is lost or misplaced hardware.

Some of our most successful installations have used a "checkout" system with one person appointed to distribute the various hardware packages. Installation sheets are provided for each component that indicate hardware packages/items required to assemble that component. Refer to these sheets to determine which hardware items to request from the designated "check-out" person.

HELPFUL HINTS:

Read installation sheets.

Be sure to use the correct length hardware as specified on the installation sheets.

Be sure to use clamps in the correct location as indicated on the installation sheets.



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landscape structures



Part Number Label

Example

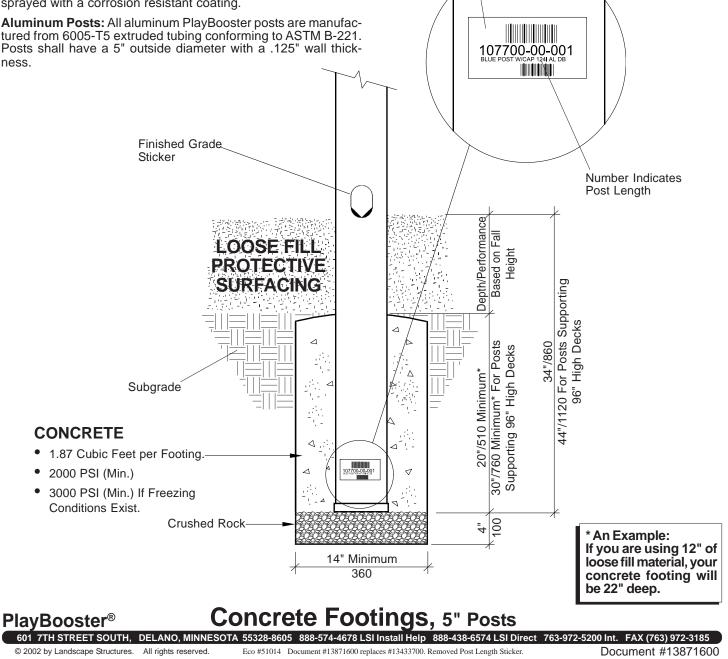
SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487)

13871600

Post Specifications: Post length shall vary depending upon the intended use and shall be a minimum of 42" above the deck height. All posts shall be powdercoated to specified color. All posts shall have a "finished grade marker" positioned on the post iden-tifying the 34" bury line (or 44" bury line for posts for 96" decks) required for correct installation and the top of the loose fill pro-tective surfacing. Top caps for posts shall be aluminum die cast from 369.1 alloy and powdercoated to match the post color. All caps shall be factory installed and secured in place with (3) self sealing rivets. A molded low density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the post to increase the footing area.

Steel Posts: All steel PlayBooster posts are manufactured from 5" O.D. tubing with a wall thickness of .120" and shall be galva-nized after rolling and shall have both the I.D.and the cut ends sprayed with a corrosion resistant coating.

tured from 6005-T5 extruded tubing conforming to ASTM B-221. Posts shall have a 5" outside diameter with a .125" wall thickness







Warning

Your playground may include equipment containing moving parts. Moving parts are more vulnerable to wear, mis-use and abuse than other non-moving parts. It is critical these parts be inspected and maintained according to our recommendations.

As the owner, it is your responsibility to perform preventative maintenance and record your findings. Failure to do so may create a hazard and cause serious injury or death.





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According to the U.S. Consumer Product Safety Commission (CPSC) nearly 70% of all playground injuries are caused by falls to the surface.

PLEASE INSTALL AND MAINTAIN ADEQUATE PROTECTIVE SURFACING UNDER AND AROUND YOUR PLAYSTRUCTURE!

Never let children play on the equipment before protective surfacing is installed.

Consult the CPSC's Handbook for Public Playground Safety, the ASTM F1487 Standard or your Landscape Structures representative for more information.



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7/12/2/6/5



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7/12/2/6/5

M landscape structures

Recycling of packaging materials

Did you know that most of the packaging materials you receive on a Landscape Structures order are recyclable? Do you reuse or recycle everything you can from your playground sites? We're making it easier for you to do the right thing and keep these materials out of landfills!

FOAM/SCRIM SHEETS

Landscape Structures has partnered with our supplier to recycle foam/scrim material, the grey and white sheets that are layered between the large painted parts. This material is not usually accepted at general recycling facilities but this supplier will re-use it in their manufacturing of new packaging materials. It's easy! Just put the foam/scrim from your installation site in a box and ship it to the facility closest to you.

Here is a list of participating facilities throughout the U.S.:

Foam/Scrim Products Only

Pregis Plant 159 N San Antonio Ave. Pomona, CA 91767

Pregis Plant 8201 W Elowin Ct. Visalia, CA 93291

Pregis Plant 7574 Presidents Dr. Orlando, FL 32809

Pregis Plant 1411 Pidco Dr. Plymouth, IN 46563

Pregis Plant 300 Harris Rd. Wurtland, KY 41144 Pregis Plant 3825 N Main St. Granite Falls, NC 28630

Pregis Plant 18 Peck Ave. Glens Falls, NY 12801

Pregis Plant 3500 S Highway 287 Corsicana, TX 75109

Pregis Plant 310 Old Station Rd. Wenatchee, WA 98801 Foam/Scrim, Plastic Banding, Shrink Wrap Anchor Facility 480 Broadway St. St Paul, MN 55101

Anchor Facility 1501 Swasey Rd. Hudson, WI 54016

Don't stop here! Most of the other packaging materials can also be recycled, reused or repurposed.

- CORRUGATED CARDBOARD: Boxes can be broken down and recycled at a local recycler, or reused for other storage.
- SHRINK WRAP: Contact your local plastic recycler and ask if they accept polyethylene plastic.
- PLASTIC BANDING: Contact your local plastic recycler and ask if they accept polypropylene.

If you have suggestions for recycling, reusing or repurposing other materials, please email them to: info@playlsi.com. Just one more way Landscape Structures is building healthy, sustainable communities.

182212 is an entanglement label

Not an Install doc.

182213 is a hot surface label

Not an Install doc.

landscape structures

Look for compliance to the following guidelines and standards whenever you install playground equipment. It's your assurance that the products you install meet the most rigorous safety and quality assurance standards.

Landscape Structures is a member in good standing of **IPEMA**, the International Play Equipment Manufacturers Association. IPEMA is a memberdriven, international trade organization that represents and promotes an open market for manufacturers of play equipment.



In the interest of playground safety, IPEMA provides a Third Party Certification Service whereby a designated independent laboratory validates a participant's certification of conformance to ASTM F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, except sections 7.1.1, 10 and 12.6.1; CAN/CSA Z614, Children's Playspaces and Equipment Standards, except clauses 9.8, 10 and 11; or both. The use of the corresponding logo in the Landscape Structures Inc. catalog signifies that Landscape Structures Inc. has received written validation from the independent laboratory that the product(s) associated with the use of the logo conforms with the requirements of the indicated standards. Check the IPEMA website (www.ipema.org) to confirm product certification. The use zone and fall height requirements in this publication are shown to ASTM standards. The requirements for other standards may be different. According to the CSA, playground maintenance and inspection is a continuous and integral part of budgetary costs. The cost of inspection and maintenance shall be considered and incorporated into the budget at the time of design, purchase equipment and installation (11.1.1 Budgeting).

International Play Equipment Manufacturers Association 4305 N. Sixth St. Suite A

The Consumer Product Safety Commission

(CPSC) is a governmental organization that provides technical safety guidelines for designing, constructing, operating and maintaining public playgrounds.

U.S. Consumer Product Safety Commission 4330 East West Hwy. Bethesda, MD 20814 www.cpsc.gov

The American Society for Testing and Materials (ASTM) is a scientific and technical organization that is a major developer of standards for testing different types of materials. In 1993, the ASTM published "Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use," designation F1487-93. ASTM is more technical than the CPSC. ASTM revised its old standard and published a new standard in 1995, 1998, 2001, 2005, 2007 and again in 2011.

American Society for Testing and Materials 100 Barr Harbor Dr. P.O. Box C700 West Conshohocken, PA 19428 www.astm.org



The Canadian Standards Association

Nearly all equipment developed by Landscape Structures is certified to meet CAN/CSA-Z614-07, the Children's Playspaces and Equipment Standard, through IPEMA.

The European Standard was developed by the European Committee for Standardization. The majority of Landscape Structures products have been designed to be TUV certified by a third-party validator to EN 1176: 2008, the European Standard for Playground Equipment.



ISO 9001:2008 has a process-orientated structure, is customer focused and emphasizes continuous improvement in quality.



ISO 14001:2004 drives us toward operating in a



Harrisburg, PA 17110 www.ipema.org manner that is environmentally conscious. elines & Standards Gi PS/PB/FP/Evos/Weevos 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 (763) 972-3391 1-888-LSI-INST (1-888-574-4678) FAX (763) 972-3185

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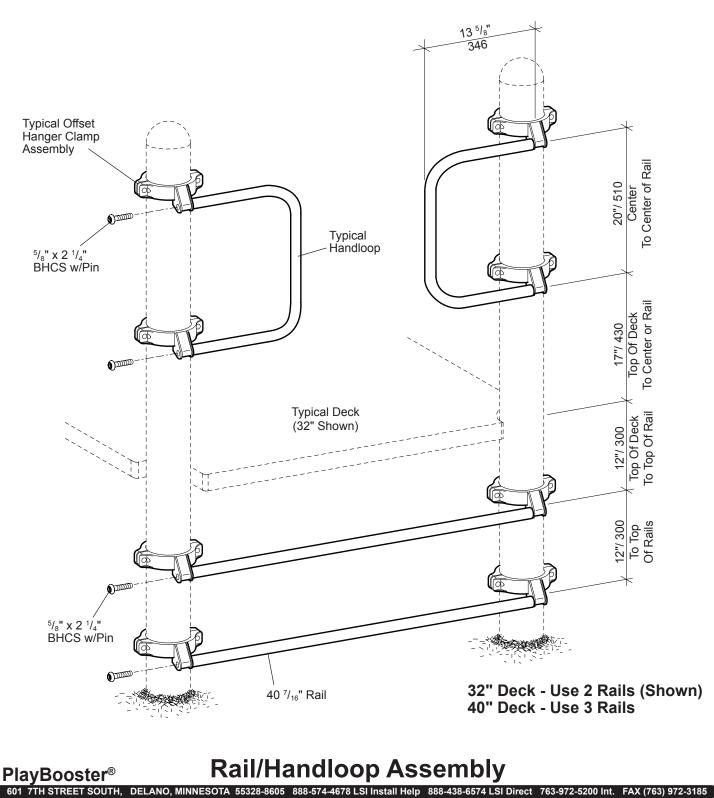
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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

10971300





PlayBooster[®] Rail/Handloop Assembly

Parts List

Part#	Description	Qty.
111275	Handloop Assembly	
108542	Handloop, Specify Color	
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100203	⁵ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	2
100351	³ / ₈ " Tee Nut, SST	
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, SST	2
105327	5" Half Clamp, Specify Color	2
113729	Offset Hanger Clamp, Specify Color	
111276	Rail Assembly	1
108569	Rail, Specify Color	1
100198	³ / ₈ " x 1 ⁻¹ / ₈ " BHCS w/Pin, SST	4
100203	⁵ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	2
100351	³ / ₈ " Tee Nut, SST	
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, SST	
105327	5" Half Clamp, Specify Color	

Specifications

Handloop:	Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with $\frac{5}{8}$ " internal thread. Finish: TenderTuff TM , color specified.
Rail:	Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with $\frac{5}{8}$ " internal thread. Finish: TenderTuff TM , color specified.
Offset Hanger	
Clamp Assembly:	Cast aluminum. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Weight:	Approx. ³ / ₄ man hour 111275-00 (One) 11 lbs. 111276-00 (One) 11 lbs.

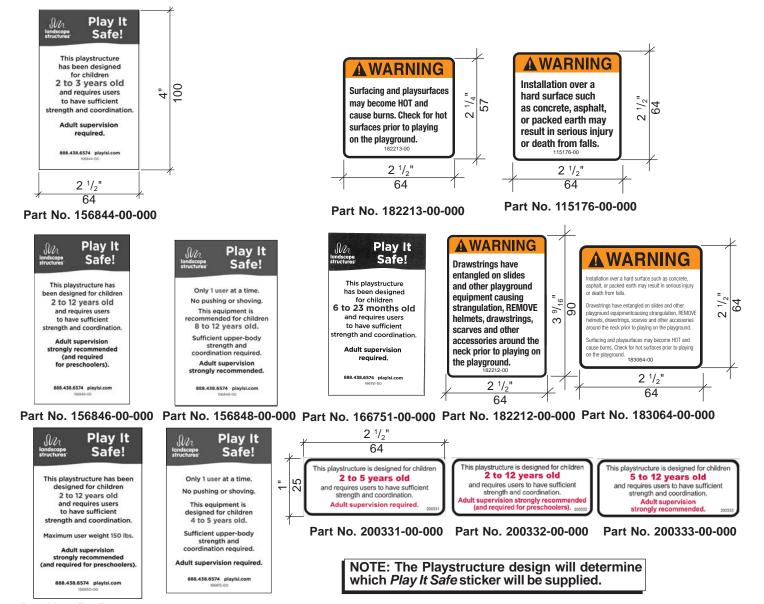
Installation Instructions

- 1) Mark locations of clamps on posts per dimensions on front of sheet.
- 2) Attach offset clamps to ends of rails/handloops using $\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/pin.
- Position rail/handloop on marked position on posts and attach using 5" half clamps and ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Assembly Sheet.
- 4) Install drive rivets in half clamps per the Typical Offset Hanger Clamp Assembly Sheet.
- 5) Install protective surfacing before users are allowed to play on the structure.





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



Part No. 156850-00-000 Part No. 166815-00-000



Part No. 156847-00-000

Part No. 156845-00-000

INSTRUCTIONS:

Surface must be clean and dry prior to applying sticker. Peel backing sheet away from back of sticker and place sticker in position. Using backing sheet, rub over face of sticker to burnish down into place. Choose a location visible to adults in a conspicuous location on product. Stickers work best on painted parts. Where possible, avoid placing on rotationally-molded plastic parts, TenderTuff-coated parts or where children may step and wear off sticker. This applies to both Freestanding Play items and Composite Playstructures. Apply sticker adjacent to or visible from the primary entrance to the structure. Apply 4'-5' above the surface. Apply at least (1) one to every structure and (2) two to large Composite Playstructures.

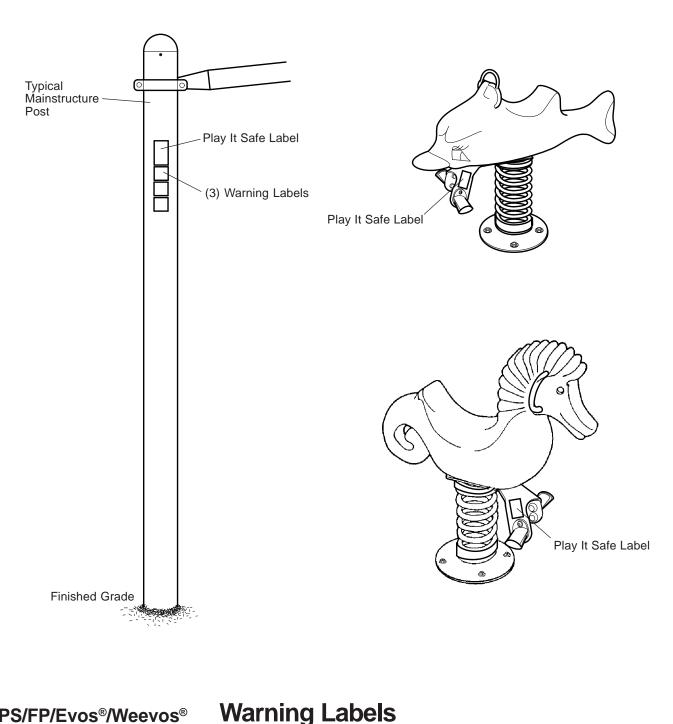


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Eco #0100082 Document #20151300 replaces #18306600. Added (3) warning labels.



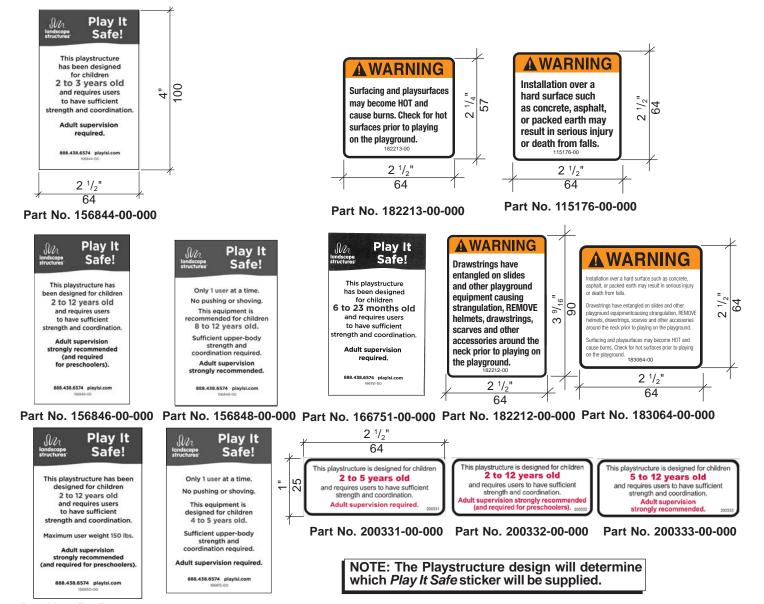


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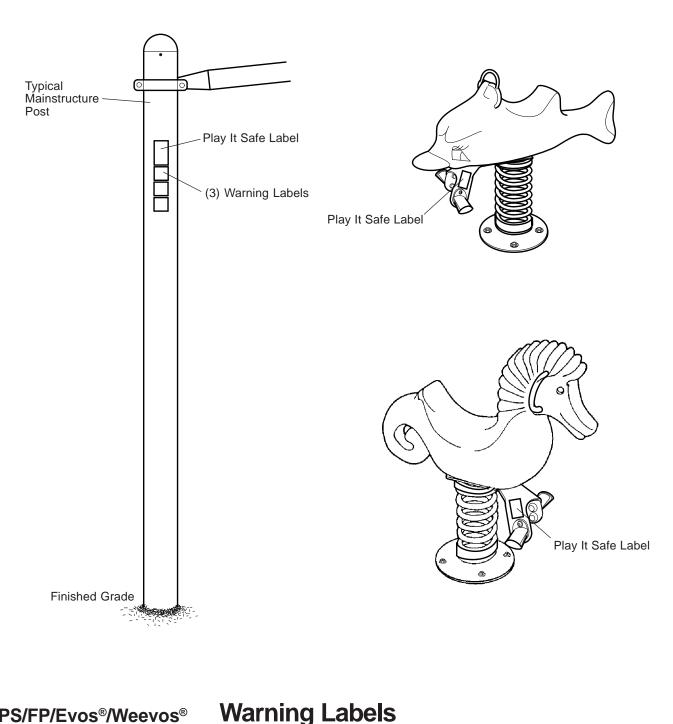


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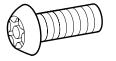




Common Parts & Fasteners

Button Head Cap Screws BHCS w/Pin

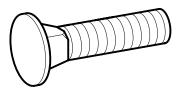
Carriage Bolts



		C •		ecomme	
Part #	Inches	Sizes mm	Mat'l or Grade	Torq Ft./lbs	
1 alt #	Inches	111111	of Graue	Ft./105	Kgiii
137277 131849 223807 132626 192071 100195 100196 100198 113027 100171 123224 100173 100199 100174 100175 100176 100168	1/4" x 3/8" 5/16" x 1/2" 5/16" x 3/4" 5/16" x 7/8" 3/8" x 5/8" 3/8" x 1 1/8" 3/8" x 1 1/8" 3/8" x 1 1/2" 3/8" x 2 1/2" 3/8" x 2 1/4" 3/8" x 2 3/4" 3/8" x 3 1/4"	(6,4 x 9,5 (7,9 x 19,0 (7,9 x 22,2 M 8 x 24 m (9,5 x 15 (9,5 x 22 (9,5 x 28 (9,5 x 38 (9,5 x 38 (9,5 x 50) (9,5 x 57 (9,5 x 63) (9,5 x 76) (9,5 x 82)	 SST-PAT 	10 10 10 10 15 15 15 15 15 15 15 15 15 15 15	Kgiii 1.4 1.4 1.4 1.4 2
100200 124460 100201	3/8" x 3 1/2" 3/8" x 3 3/4" 5/8" x 1 1/2"	(9,5 x 88) (9,5 x 95) (15 9 x 3)	2) SST-PAT	15 15 50	2 2 7
100201 127551	5/8" x 1 1/2" 5/8" x 1 1/2"	(15,9 x 3 (15,9 x 3 ANTI-SE		50 50	7 7
100203	5/8" x 2 1/4"	(15,9 x 5	7,2)SST-PAT	50	7

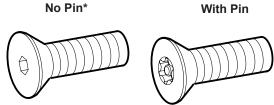
Hex Cap Screws

Part #	John S Inches	izes mm	Re Mat'l or Grade	Torq	iended jue lbs Kgm
100206 100208 100209 135682 135683 100214 121499 100216 131862	3/8" x 1" 3/8" x 1 1/2" 3/8" x 1 3/4" 3/8" x 3 1/8" 3/8" x 4 5/8" 3/8" x 5" 7/16" x 1 3/4" 1/2" x 1 1/4" 1/2" x 2 1/4"	(9,5 x 25,4) (9,5 x 38,1) (9,5 x 44,4) (9,5 x 79,3) (9,5 x 117,5) (9,5 x 127)	SST-PAT SST-PAT SST-PAT SST-PAT SST-PAT SST-PAT SST-PAT SST	15 15 15 15 15 15 15 15 15 20	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2.8



			R	lecomm	ended
	Si	zes	Mat'l	Torqu	ue
Part #	Inches	mm	or Grade	Ft./lbs	Kgm
100135 100147 116017 100148	5/16" x 1 1/4" 3/8" x 1 1/4" 3/8" x 1 1/2" 3/8" x 1 3/4"	(9,5 x 31,8 (9,5 x 38,1	8) SST-PAT 3) SST-PAT 1) SST-PAT 5) SST-PAT	5 15 15 15	0.7 2 2 2

Flat Head Cap Screws (FHCS)



			R	ecommended	L
	Si	zes	Mat'l	Torque	
Part #	Inches	mm o	or Grade	Ft./lbs Kgm	1
148686 100252* 151421 148765 130824*	3/8" x 3/4" 3/8" x 1 1/4" 3/8" x 1 1/2" 3/8" x 3 1/2" 1/2" x 2 1/4"	(9,5 x 19,05 (9,5 x 31,8) (9,5 x 38,1) (9,5 x 88,9) (12,5 x 57,2	SST-PAT SST-PAT SST-PAT	131.8131.8131.8131.8202.8	

NOTE: These are recommended torque applications per fastener size. When fasteners are used with plastic or wood products, the torque specifications will be excessive and we recommend that the installer apply some caution when tightening the fasteners. Plastic or wood products should begin to deform slightly. Fasteners indicated with -"Pat" includes a locking patch type material and should cure for 72 hours for maximum strength.

Common Parts/Torque Chart 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

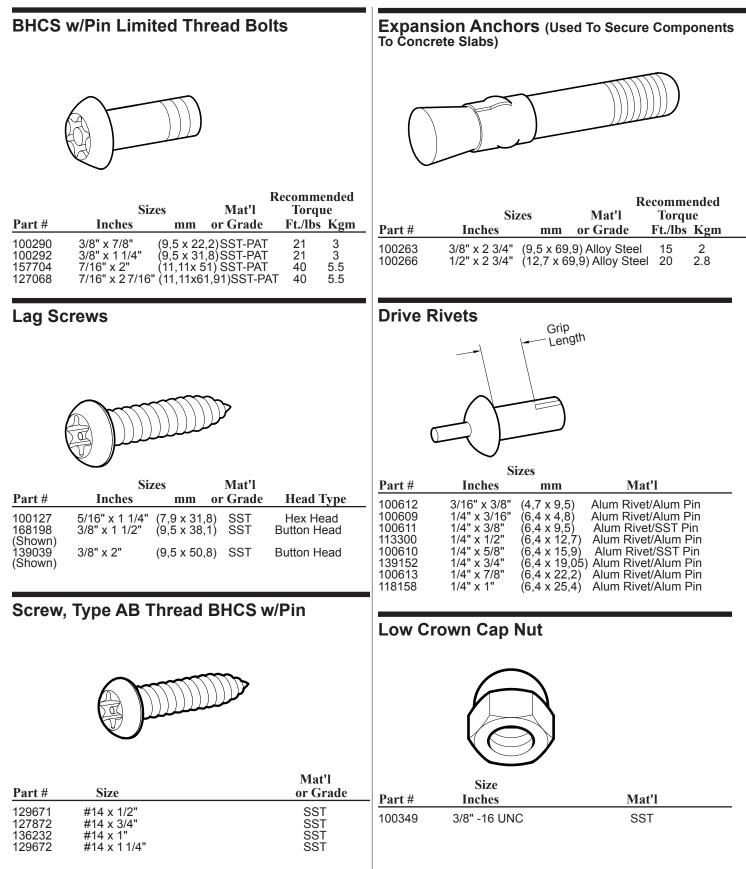
Sheet 1 of 3

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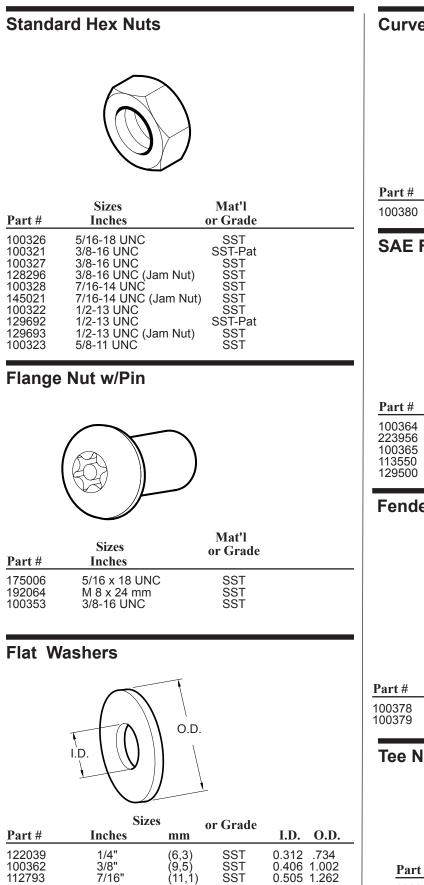
Document #22576000





M landscape structures





SST SST

SST

(12,7) (15,9)

(28,6)

1/2"

5/8"

1 1/8"

100363

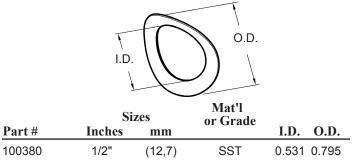
100366

123737

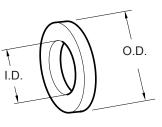
0.536 1.262 0.688 1.750

1.140 1.750

Curved Spring Washer

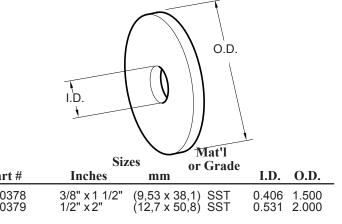


SAE Flat Washers

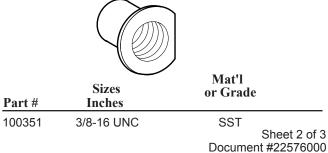


	Siz	zes	Mat'l or Grade		
Part #	Inches	mm	or Grude	I.D.	O.D.
100364 223956 100365 113550 129500	1/4" 5/16" 3/8" 1/2" 5/8"	(6,35) (7,92) (9,5) (12,7) (15,9)	SST SST SST SST SST	0.281 0.344 0.411 0.531 0.686	0.625 0.688 0.816 1.062 1.342

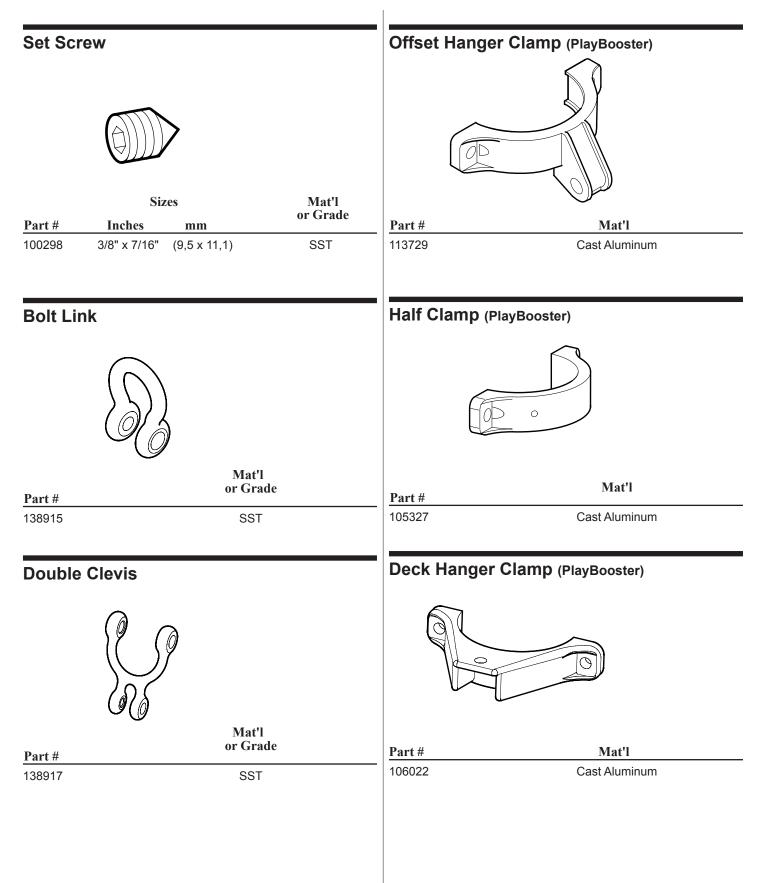
Fender Washers



Tee Nut (PlayBooster Clamps)

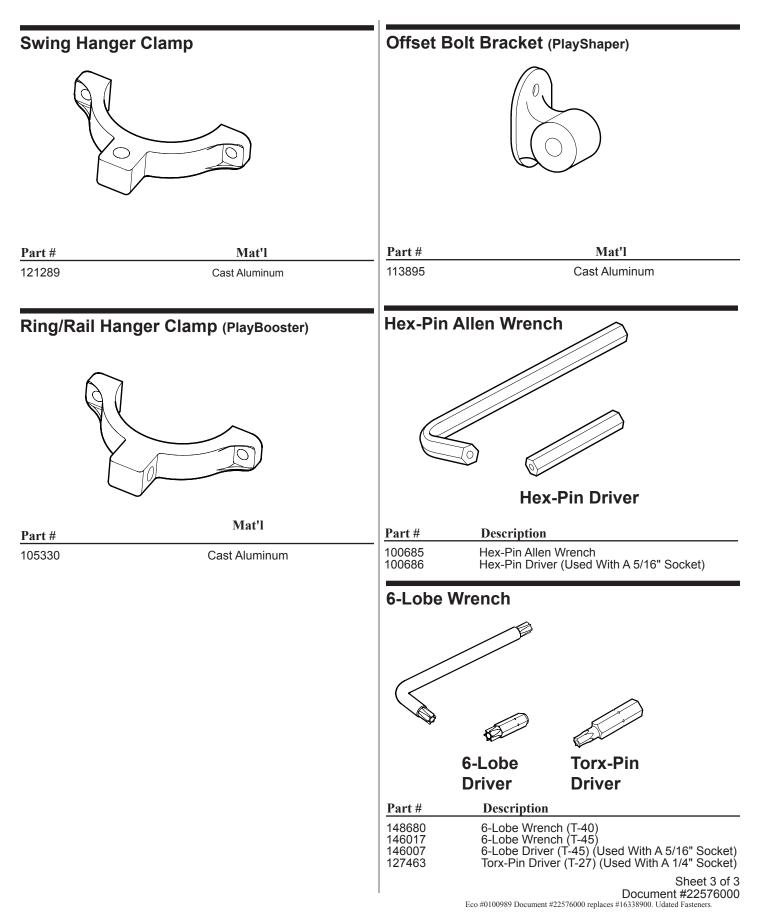






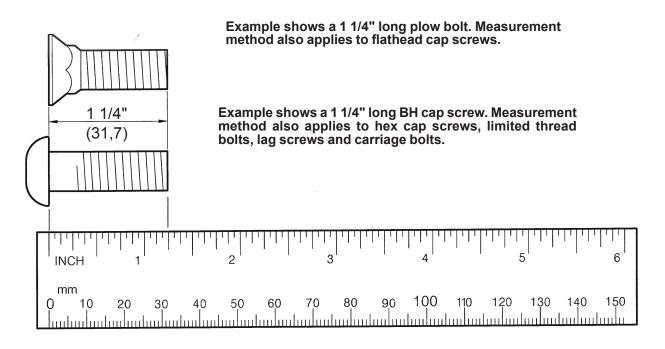








HOW TO DETERMINE BOLT LENGTHS



Rule: Measurements should be based on the part of the screw that penetrates the surface.

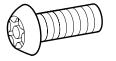




Common Parts & Fasteners

Button Head Cap Screws BHCS w/Pin

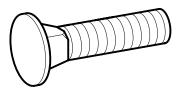
Carriage Bolts



		C •		ecomme	
Part #	Inches	Sizes mm	Mat'l or Grade	Torq Ft./lbs	
1 alt #	Inches	111111	of Graue	Ft./105	Kgiii
137277 131849 223807 132626 192071 100195 100196 100198 113027 100171 123224 100173 100199 100174 100175 100176 100168	1/4" x 3/8" 5/16" x 1/2" 5/16" x 3/4" 5/16" x 7/8" 3/8" x 5/8" 3/8" x 1 1/8" 3/8" x 1 1/8" 3/8" x 1 1/2" 3/8" x 2 1/2" 3/8" x 2 1/4" 3/8" x 2 3/4" 3/8" x 3 1/4"	(6,4 x 9,5 (7,9 x 19,0 (7,9 x 22,2 M 8 x 24 m (9,5 x 15 (9,5 x 22 (9,5 x 28 (9,5 x 38 (9,5 x 38 (9,5 x 50) (9,5 x 57 (9,5 x 63) (9,5 x 76) (9,5 x 82)	 SST-PAT 	10 10 10 10 15 15 15 15 15 15 15 15 15 15 15	Kgiii 1.4 1.4 1.4 1.4 2
100200 124460 100201	3/8" x 3 1/2" 3/8" x 3 3/4" 5/8" x 1 1/2"	(9,5 x 88) (9,5 x 95) (15 9 x 3)	2) SST-PAT	15 15 50	2 2 7
100201 127551	5/8" x 1 1/2" 5/8" x 1 1/2"	(15,9 x 3 (15,9 x 3 ANTI-SE		50 50	7 7
100203	5/8" x 2 1/4"	(15,9 x 5	7,2)SST-PAT	50	7

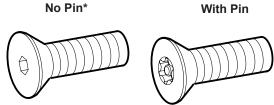
Hex Cap Screws

Part #	John S Inches	izes mm	Re Mat'l or Grade	Torq	iended jue lbs Kgm
100206 100208 100209 135682 135683 100214 121499 100216 131862	3/8" x 1" 3/8" x 1 1/2" 3/8" x 1 3/4" 3/8" x 3 1/8" 3/8" x 4 5/8" 3/8" x 5" 7/16" x 1 3/4" 1/2" x 1 1/4" 1/2" x 2 1/4"	(9,5 x 25,4) (9,5 x 38,1) (9,5 x 44,4) (9,5 x 79,3) (9,5 x 117,5) (9,5 x 127)	SST-PAT SST-PAT SST-PAT SST-PAT SST-PAT SST-PAT SST-PAT SST	15 15 15 15 15 15 15 15 15 20	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2.8



			R	lecomm	ended
	Si	zes	Mat'l	Torqu	ue
Part #	Inches	mm	or Grade	Ft./lbs	Kgm
100135 100147 116017 100148	5/16" x 1 1/4" 3/8" x 1 1/4" 3/8" x 1 1/2" 3/8" x 1 3/4"	(9,5 x 31,8 (9,5 x 38,1	8) SST-PAT 3) SST-PAT 1) SST-PAT 5) SST-PAT	5 15 15 15	0.7 2 2 2

Flat Head Cap Screws (FHCS)



			R	ecommended	L
	Si	zes	Mat'l	Torque	
Part #	Inches	mm o	or Grade	Ft./lbs Kgm	1
148686 100252* 151421 148765 130824*	3/8" x 3/4" 3/8" x 1 1/4" 3/8" x 1 1/2" 3/8" x 3 1/2" 1/2" x 2 1/4"	(9,5 x 19,05 (9,5 x 31,8) (9,5 x 38,1) (9,5 x 88,9) (12,5 x 57,2	SST-PAT SST-PAT SST-PAT	131.8131.8131.8131.8202.8	

NOTE: These are recommended torque applications per fastener size. When fasteners are used with plastic or wood products, the torque specifications will be excessive and we recommend that the installer apply some caution when tightening the fasteners. Plastic or wood products should begin to deform slightly. Fasteners indicated with -"Pat" includes a locking patch type material and should cure for 72 hours for maximum strength.

Common Parts/Torque Chart 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

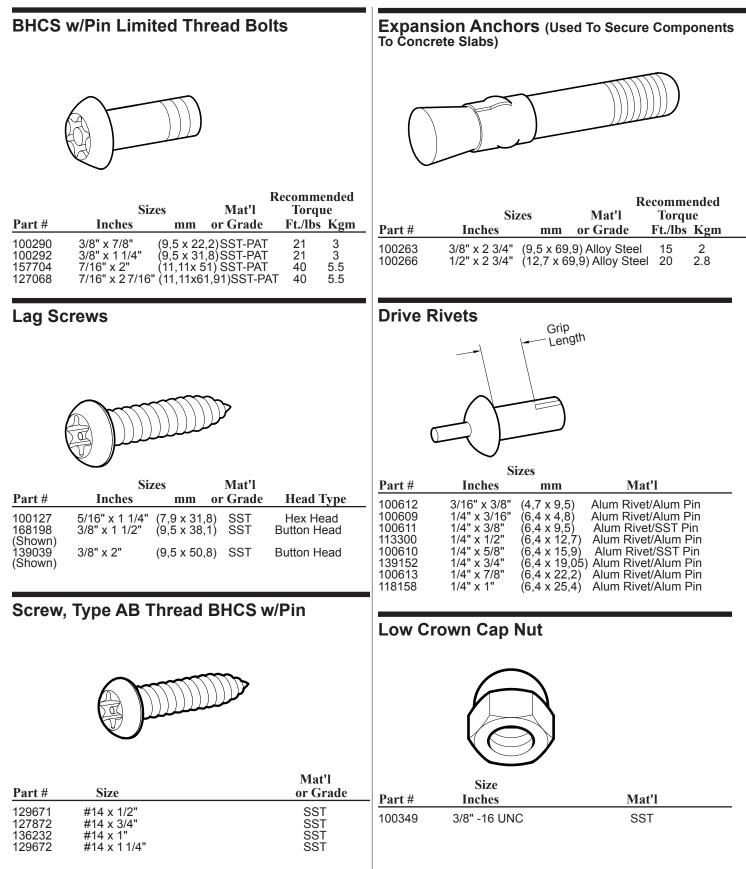
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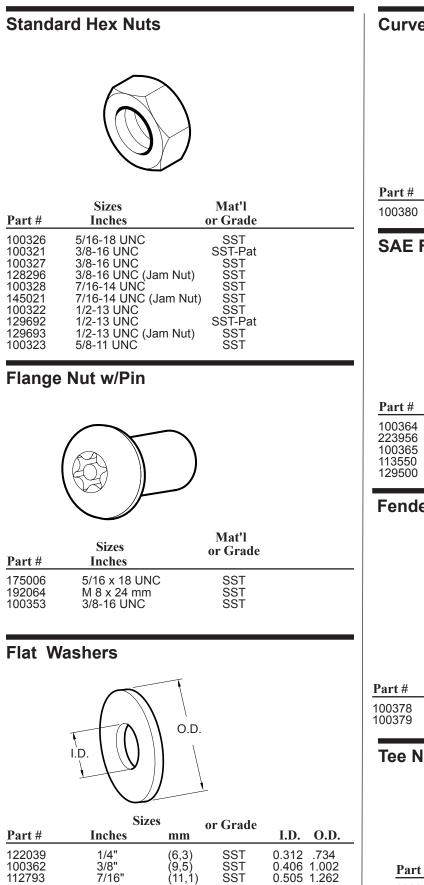
Document #22576000





M landscape structures





SST SST

SST

(12,7) (15,9)

(28,6)

1/2"

5/8"

1 1/8"

100363

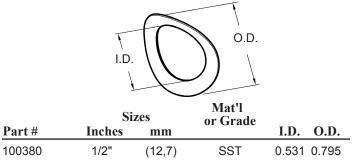
100366

123737

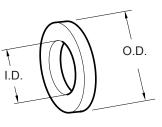
0.536 1.262 0.688 1.750

1.140 1.750

Curved Spring Washer

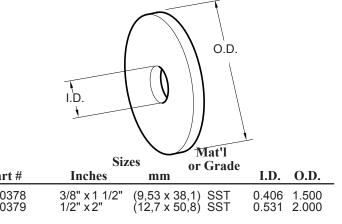


SAE Flat Washers

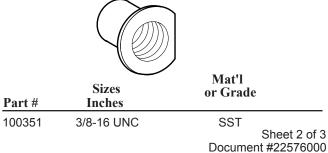


	Siz	zes	Mat'l or Grade		
Part #	Inches	mm	or Grude	I.D.	O.D.
100364 223956 100365 113550 129500	1/4" 5/16" 3/8" 1/2" 5/8"	(6,35) (7,92) (9,5) (12,7) (15,9)	SST SST SST SST SST	0.281 0.344 0.411 0.531 0.686	0.625 0.688 0.816 1.062 1.342

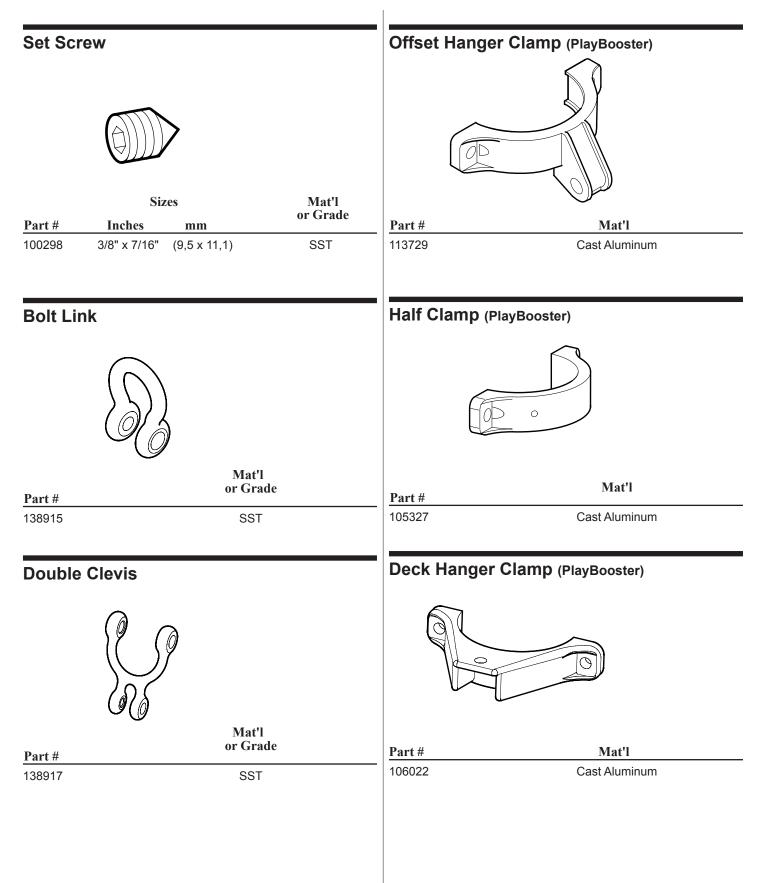
Fender Washers



Tee Nut (PlayBooster Clamps)

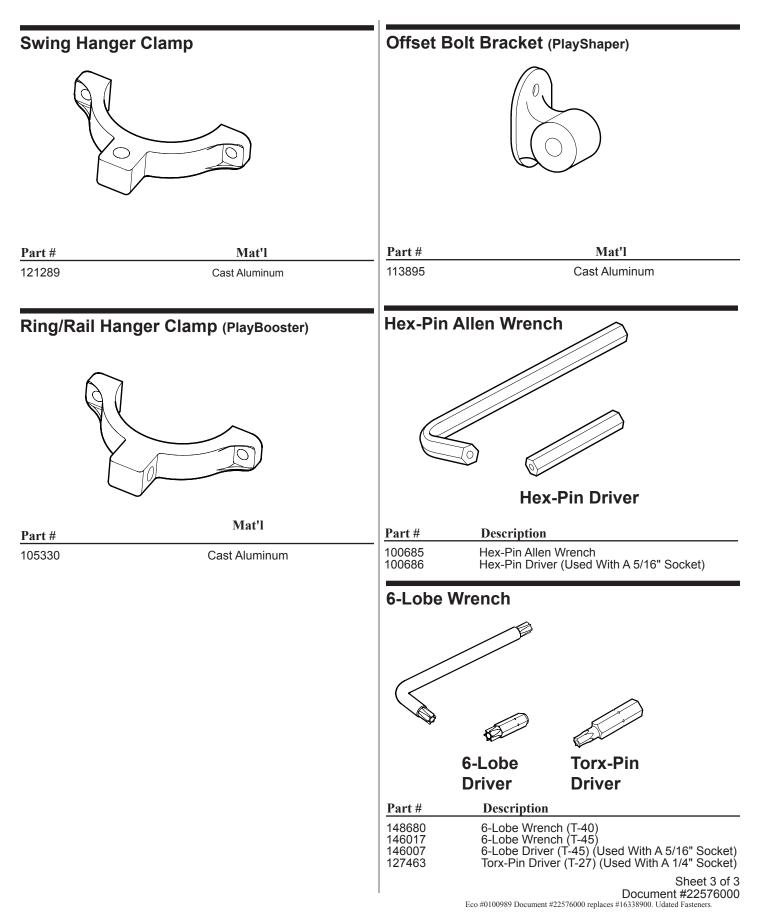






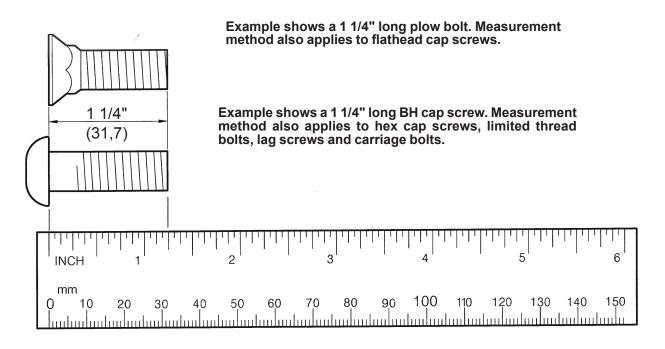




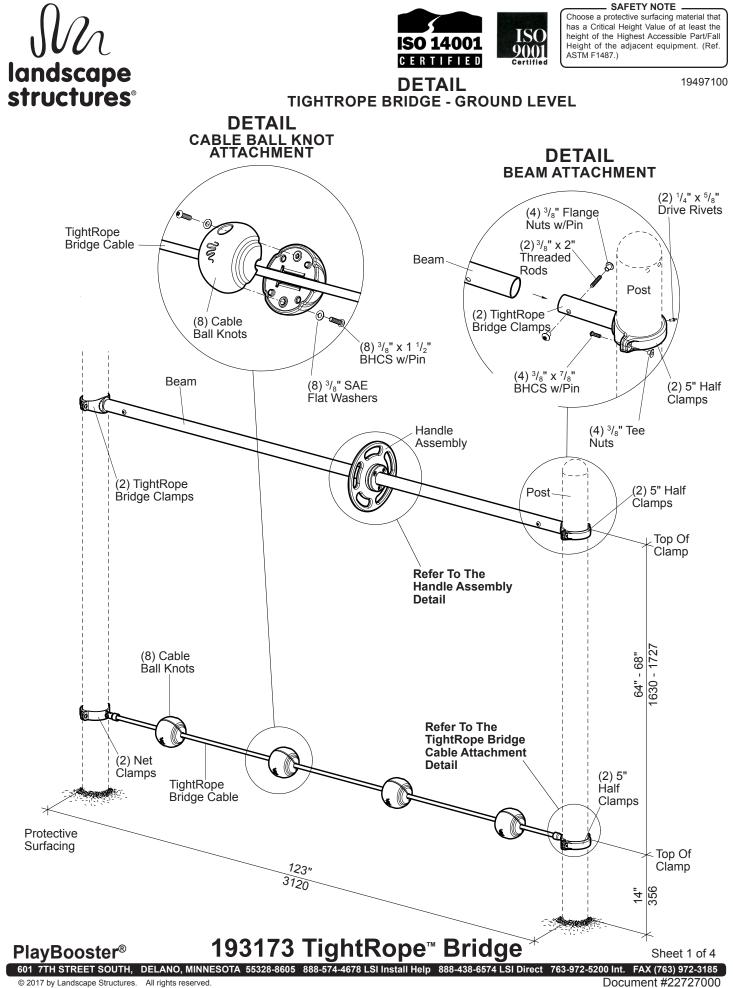




HOW TO DETERMINE BOLT LENGTHS



Rule: Measurements should be based on the part of the screw that penetrates the surface.





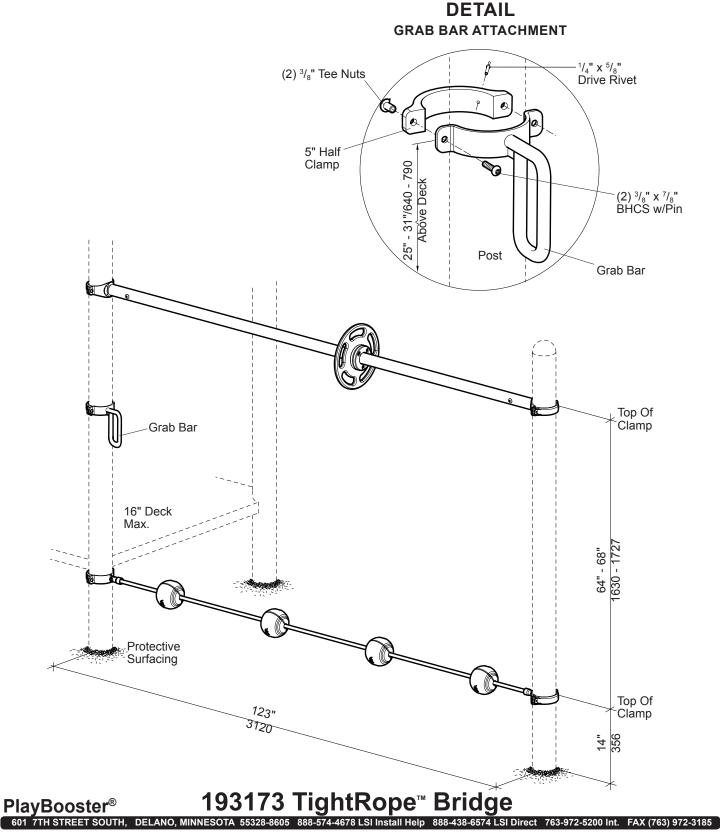


SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref.

ASTM F1487.)

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DETAIL TIGHTROPE BRIDGE - GROUND TO DECK



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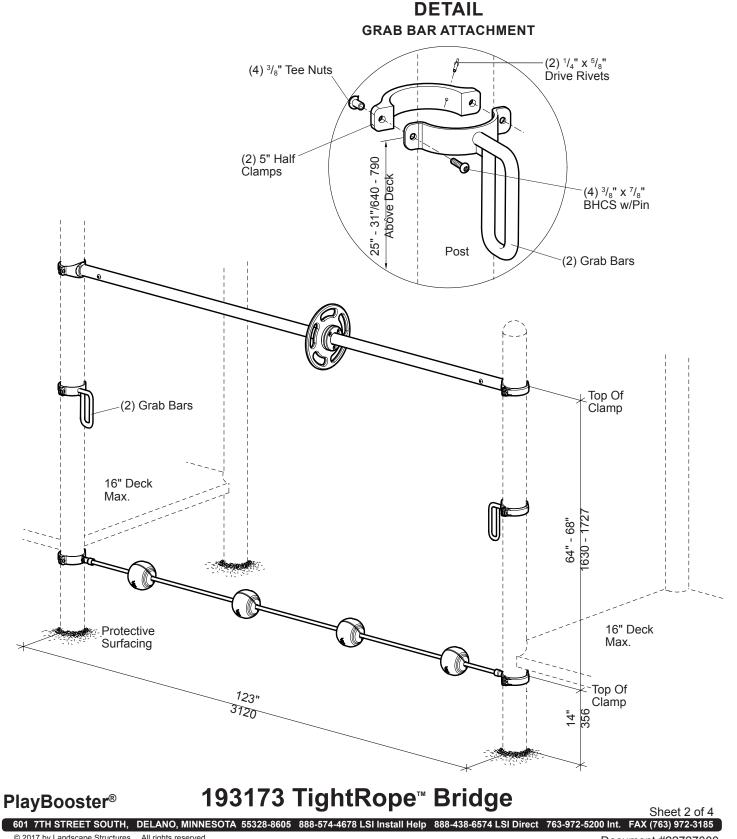




SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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DETAIL **TIGHTROPE BRIDGE - DECK TO DECK**



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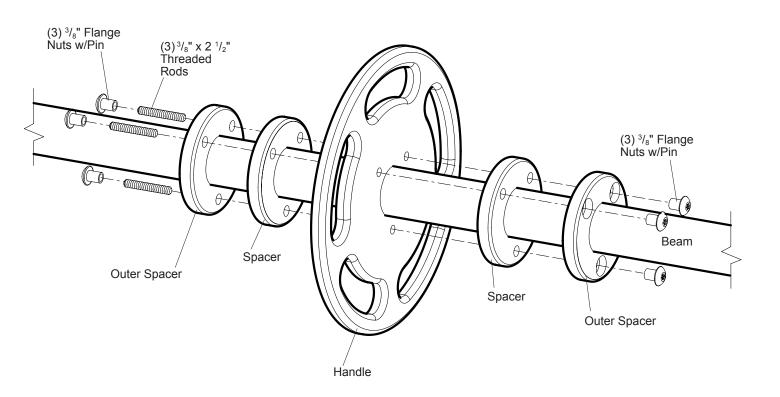




SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

194971a

DETAIL HANDLE ASSEMBLY





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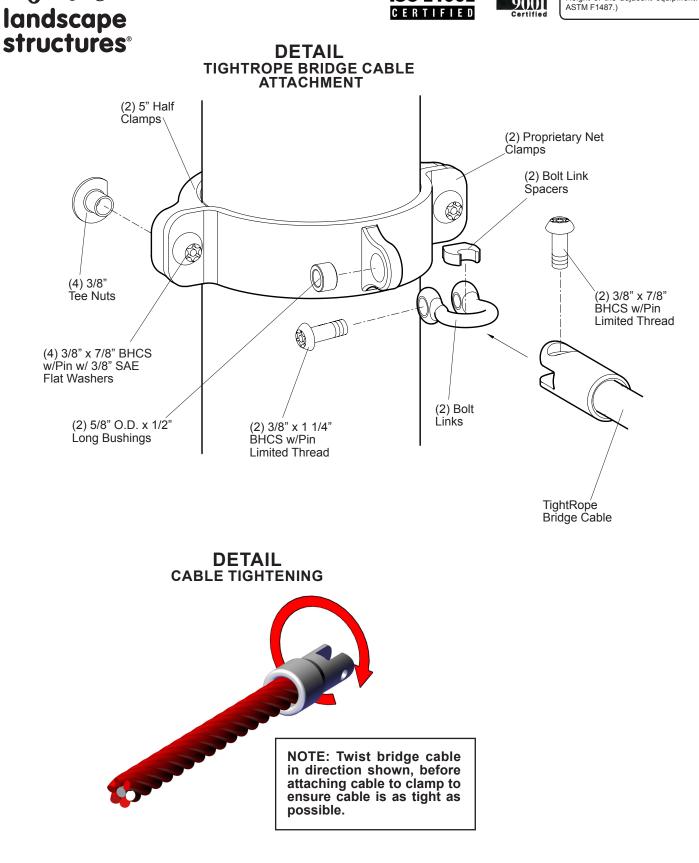
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PlayBooster®





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



193173 TightRope[™] Bridge 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

Sheet 3 of 4

PlayBooster[®]

Iandscape structures[®] Parts List

PlayBooster[®] 193173 TightRope[™] Bridge

Parts Li	st
Part#	Description Qty.
	Ground Level
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST 4
105327	5" Half Clamp, Specify Color 4
161898	Net Clamp, Specify Color
192748	Cable Ball Knot (Half), Specify Color
227673	Cable, Black
192784	Beam, Specify Color 1
192785	Clamp TightRope Bridge, Specify Color 2
192911	Handle, Black
193136	Spacer, Black
193717	Outer Spacer, Black
227271	TightRope Bridge Hardware Package1
100171	³ / ₈ " x 1 ¹ / ₂ " BHCS w/Pin, SST
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST
100351	³ / ₈ " Tee Nut, SST
100353	3/8" Flange Nut w/Pin, SST
100365	³ / ₈ " SAE Flat Washer, SST
100642	$^{3}/_{8}$ " x 2 $^{1}/_{2}$ " Threaded Rod, SST
116942	$^{3}_{8}$ " x 2" Threaded Rod, SST
128296	$^{3}_{8}$ " Jam Nut, SST
120290	$\frac{5}{8}$ " O.D. x $\frac{3}{8}$ " Bushing, SST
100290	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin Limited Thread, SST
138915	Bolt Link, SST
100292	$^{3}_{8}$ " x 1 $^{1}_{4}$ BHCS, 6 Lobe Pin Limited Thread, SST2
196319	Bolt Link Spacer, AL
100610 105327 161898	Ground To Deck ¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST
192748	Cable Ball Knot, Specify Color
227673	Cable, Black
192784	Beam, Specify Color
192785	Clamp TightRope Bridge, Specify Color
192911	Handle, Black 1
193136	Spacer, Black
193717	Outer Spacer, Black
141541	Grab Bar, Specify Color 1
227271	TightRope Bridge Hardware Package
100171	3_{8} " x 1 1_{2} " BHCS w/Pin, SST
100196	$3_{8}^{*} \times 7_{8}^{*}$ BHCS w/Pin, SST
100198	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST
100351	$\frac{3}{8}$ Tee Nut, SST
100353	³ / ₈ " Flange Nut w/Pin, SST
100365	$^{3}_{8}$ " SAE Flat Washer, SST
100642	$^{3}_{8}$ " x 2 $^{1}_{2}$ " Threaded Rod, SST
116942	$\frac{3}{8}$ x 2" Threaded Rod, SST
128296	$^{3}_{8}$ " Jam Nut, SST
120270	$\frac{5}{8}$ " O.D. x $\frac{3}{8}$ " Bushing, SST
100290	$\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin Limited Thread, SST
138915	Bolt Link, SST
100292	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ BHCS, 6 Lobe Pin Limited Thread, SST2
196319	Bolt Link Spacer, AL
190519	Grab Bar Hardware Package
100318	$3/8" \times 7/8"$ BHCS w/Pin, SST
100190	3_{8}^{7} Tee Nut, SST
100551	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST
100010	14 A 18 DIVERIVE, HE/001
	Deck To Deck
100610	1/." x 5/." Drive Rivet AL/SST

	Deex IV Deex	
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	4
105327	5" Half Clamp, Specify Color	6
161898	Net Clamp, Specify Color	2
192748	Cable Ball Knot, Specify Color	8
227271	Cable, Black	1

192784	Beam, Specify Color 1
192785	Clamp TightRope Bridge, Specify Color 2
192911	Handle, Black 1
193136	Spacer, Black
193717	Outer Spacer, Black
141541	Grab Bar, Specify Color
227271	TightRope Bridge Hardware Package 1
100171	³ / ₈ " x 1 ¹ / ₂ " BHCS w/Pin, SST
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST
100351	³ / ₈ " Tee Nut, SST
100353	³ / ₈ " Flange Nut w/Pin, SST
100365	³ / ₈ " SAE Flat Washer, SST
100642	³ / ₈ " x 2 ¹ / ₂ " Threaded Rod, SST
116942	³ / ₈ " x 2" Threaded Rod, SST
128296	³ / ₈ " Jam Nut, SST
127179	⁵ / ₈ " O.D. x ³ / ₈ " Bushing, SST
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST
138915	Bolt Link, SST 2
100292	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ BHCS, 6 Lobe Pin Limited Thread, SST2
196319	Bolt Link Spacer, AL
106518	Grab Bar Hardware Package2
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST
100351	³ / ₈ " Tee Nut, SST
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST

Specifications

Cable Assembly:	(Cable) Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypro- pylene core. (Cable Connectors) 6063-T6 alumi- num.
Beam:	Fabricated from 2.375" (60,33 mm) O.D. RS40 (.130"140") (3,30 mm-3,55 mm) wall galvanized steel tubing. Finish: ProShield [®] , color specified.
TightRope Clamp:	Weldment comprised of 2" (50,8 mm) O.D. 11 GA. (.120") (3,05 mm) wall HRPO galvanized steel tube and $\frac{1}{4}$ " HRPO flat steel. Finish: ProShield, color specified.
Net Clamp:	Weldment comprised of $1/4$ x 1 $3/4$ HRPO flat steel and .375" stainless steel sheet. Finish: ProShield, color specified.
Spacers:	Solid color Permalene®, black in color.
Handle:	Solid color Permalene, black in color.
Grab Bar:	Weldment comprised of formed $\frac{7}{8}$ " O.D. 11 GA (.120") and $\frac{1}{4}$ " x 1 $\frac{3}{4}$ " stainless steel half clamp. Finish: TenderTuff TM , color specified.
Cable Ball Knot:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Half Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Weight:	Approx. 3 man hours 57 lbs. Ground Level 62 lbs. Ground To Deck 67 lbs. Deck To Deck 70 Berly (2006 me 210 m)
Fall Height:	79" - 83" (2,06 m - 2,10 m)

PlayBooster[®] 193173 TightRope[™] Bridge



Installation Instructions

- 1) (Direct Bury) Refer to the Site Plan for footing locations.
- Attach net clamps to posts at height shown. Refer to the TightRope Bridge Cable Attachment Detail.
- 3) Attach TightRope bridge clamps to posts at height shown. Refer to the Beam Attachment Detail.
- 4) Slide spacers and handle onto beam. Fasten spacers to handle. Refer to the Beam Attachment Detail.
- 5) Slide beam onto TightRope bridge clamps. Attach beam to TightRope bridge clamps. Refer to the Beam Attachment Detail.
- 6) Insert $\frac{5}{8}$ " O.D. x $\frac{3}{8}$ " bushings into net clamp tabs. Attach balance cable to net clamp tabs. Refer to the Balance Cable Attachment Detail.
- 7) Attach cable ball knots to balance cable. Refer to the Cable Ball Knot Attachment Detail.
- 8) (Ground To Deck & Deck To Deck) Attach grab bars to posts at dimension shown, using 5" half clamps and ³/₈" x ⁷/₈" BHCS w/pin with ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Assembly Sheet.
- 9) Install ¹/₄" x ⁵/₈" drive rivets in all 5" half clamps. Drill through hole in 5" half clamps and into 5" post with a ¹/₄" or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 10) Install protective surfacing before users are allowed to play on the structure.

Specifications are subject to change without notice.

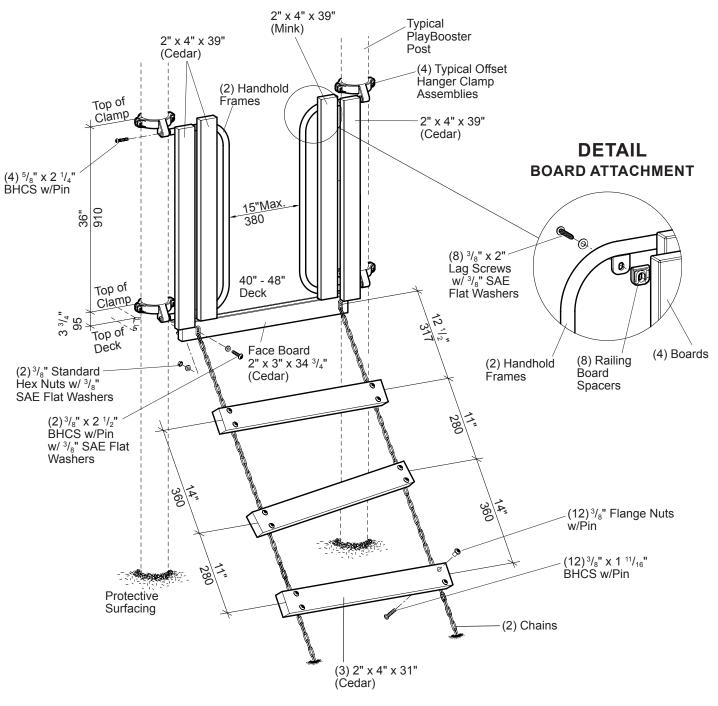
Sheet 4 of 4 Document #22727000





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

21582400



Play Naturally[™]





Parts List

Part#	Description	Qty.
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	
118029	Support (DB)	
168211	Handhold Frame, Tan	2
168467	2" x 4" x 39" Board, Cedar or Mink	4
175267	2" x 3" x 34 ³ / ₄ " Deck Face Board, Cedar	1
169120	2" x 4" x 31" Wiggle Ladder Board, Cedar	
175251	³ / ₁₆ " x 57 ⁷ / ₁₆ " Chain (40" Deck)	2
174404	$\frac{3}{16}$ " x 67 $\frac{7}{8}$ " Chain (48" Deck)	
215870	Wiggle Ladder Hardware Package	1
100174	³ / ₈ " x 2 ¹ / ₂ " BHCS w/Pin, SST	2
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	2
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	8
100203	⁵ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	4
100327	³ / ₈ " Standard Hex Nut, SST	4
100351	³ / ₈ " Tee Nut, SST	8
100353	³ / ₈ " Flange Nut w/Pin,SST	12
100365	³ / ₈ " SAE Flat Washer, SST	12
123224	³ / ₈ " x 1 ¹¹ / ₁₆ " BHCS w/Pin, SST	12
139039	³ / ₈ " x 2" Lag Screw, SST	8
207485	Railing Board Spacer, Tan	8
DB = Direct B	Bury	

Specifications

Support (DB):	Fabricated from 1.315" O.D. RS-20 (.080"090") galvanized steel tubing.
Chain/Uncoated:	Steel ³ / ₁₆ " straight link chain, 800 lb. working load limit. Finish: ProGuard [®] .
Poly Board:	Recycled high-density polyethylene, cedar or mink in color.
Handhold Frame:	Weldment comprised of 1.125" O.D. 11 GA. (.120") steel tubing with 203 or 303 stainless steel inserts, with $3/_8$ " internal thread and $1/_4$ " HRPO steel plate. Finish: ProShield [®] , tan in color.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Concrete: Weight: Fall Height:	Approx. 3.5 man hours Approx. 2.6 cu. ft. 79 lbs. (40" Deck) 79 lbs. (48" Deck) Deck Height

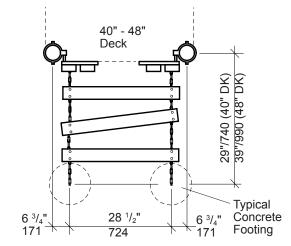
Installation Instructions

- Drill ⁷/₁₆" holes thru face board, using pilot holes as a guide. Attach chains and deck face board to the face of deck, using ³/₈" x 2 ¹/₂" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers.
- 2) Attach offset hanger clamps to posts at heights shown using 5" half clamps, ³/₈" x 1 ¹/₈" BHCS w/pin and ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 3) Attach handhold frames to offset hanger clamps, using $\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/Pin.
- 4) Line up pilot holes in boards with spacers and handhold frame tabs and attach, using ³/₈" x 2" lag screws with ³/₈" SAE flat washers. Refer to the Board Attachment Detail.
- 5) Attach boards to chains, using ${}^{3}/{}_{8}$ " x 1 ${}^{11}/{}_{16}$ " BHCS w/pin and ${}^{3}/{}_{8}$ " flange nuts w/pin.
- 6) Determine footing locations by pulling chains tight and laying end on subgrade. Dig footing holes where chains meet subgrade to the width and depth shown.
- 7) Fasten chains to the supports using $3/8" \times 7/8"$ BHCS w/pin and 3/8" standard hex nuts.
- 8) Pour concrete into footing holes. Push supports into concrete until chain is tight and top of support is positioned 1 ³/₄" above subgrade. Temporarily brace supports into position until concrete has cured. Refer to the Direct Bury Detail.
- 9) After concrete has cured a minimum of 72 hours, remove support brace and install protective surfacing before users are allowed to play on the structure.

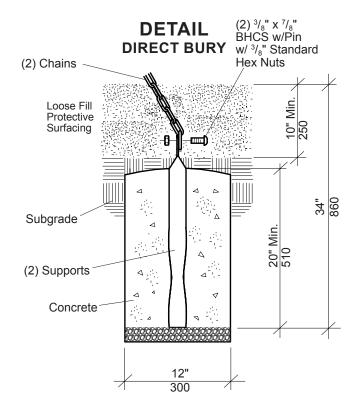
SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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PLAN VIEW/FOOTING LAYOUT



PlayBooster® 169318 Wood Wiggle Ladder, 40"-48" Deck Sheet 2 of 2 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

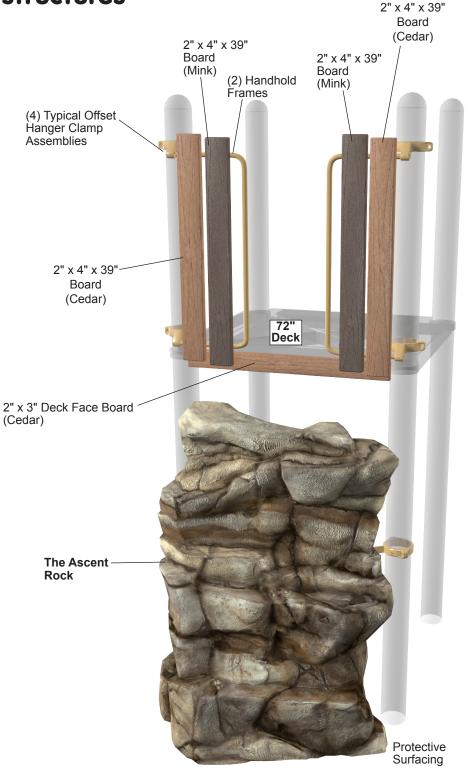




SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref.

ASTM F1487.)

207581



NOTE: Deck and posts sold separately.

Play Naturally[™]



207581 The Ascent[™] Rock

Sheet 1 of 4

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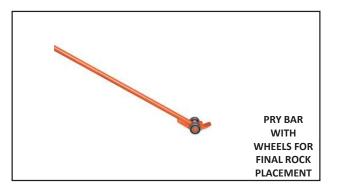
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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

RECOMMENDED INSTALLATION TOOLS (NOT INCLUDED)







PADDING FOR PROTECTION. ONLY NEEDED IF USING LIFTING STRAPS





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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)





LINING UP THE ROCK WITH POSTS



INSTALL THE ROCKS WITH A TELEHANDLER. IN THE BASE OF EACH ROCK, THERE ARE ALIGNMENT CUT OUTS FOR EASE OF PLACING THE ROCKS. THE CUT OUTS ARE DESIGNED TO HELP LINE UP THE ROCKS WITH THE POSTS. USE THE CUT OUTS AS GUIDANCE FOR PROPER ROCK PLACEMENT.

STRAP LOCATIONS FOR LIFTING

THE ASCENT ROCK

USING THE PRY BAR FOR FINAL ROCK PLACEMENT



Correct

NOTE: When using pry bar, always use the steel baseplate as a contact point. Using the concrete only could damage the product.

Incorrect



ALWAYS USE FORK POCKETS FOR INSTALL. STRAPS SHOULD ONLY BE USED IF ROCKS ARE UNABLE TO BE PLACED USING THE FORK POCKETS. ALWAYS USE PADDING BETWEEN THE STRAPS AND ROCK FOR PROTECTION



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Sheet 2 of 4

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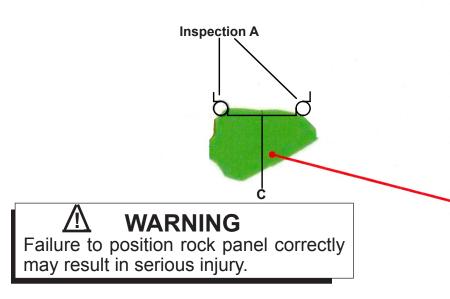




Ascent Rock

SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

POSITIONING INSPECTION PERFORM THE INSPECTION TYPE IN THE AREAS IDENTIFIED BELOW. SEE POSITIONING INSPECTION DESCRIPTION FOR DETAILS



POSITIONING INSPECTION DESCRIPTION PRIOR TO SURFACING BEING INSTALLED, INSPECT OPENINGS TO VERIFY ROCKS ARE POSITIONED CORRECTLY





INSPECTION A Place torso template between post and rock. Template should be perpendicular to the opening. Torso template shall <u>not</u> pass between post and rock.

INSPECTION C Place head template between deck and rock. Template should be perpendicular to the opening. Head template shall pass between deck and rock.

207581 The Ascent[™] Rock

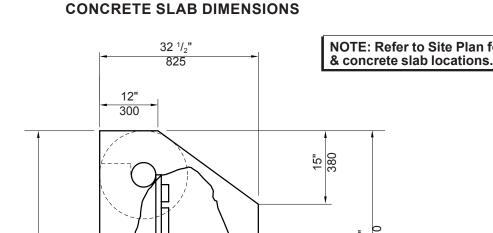
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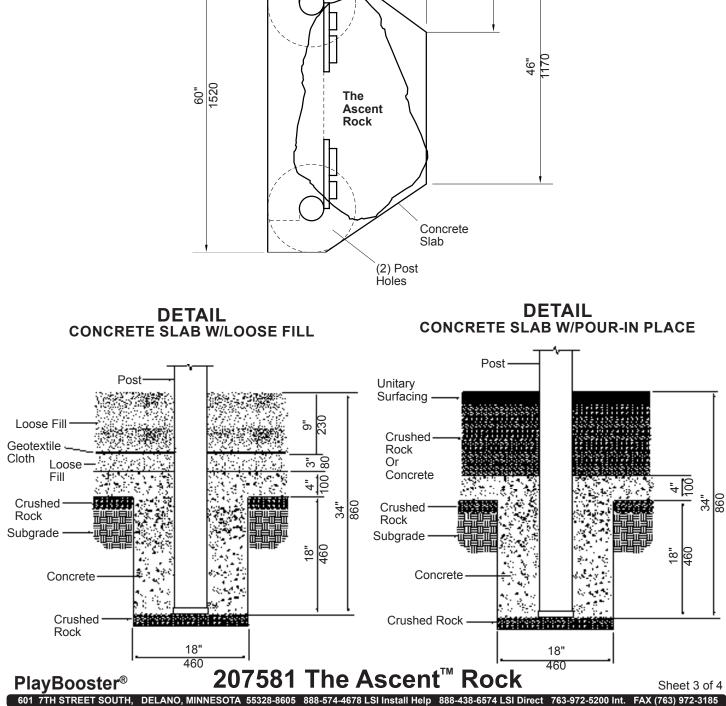
SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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DETAIL

NOTE: Refer to Site Plan for footing



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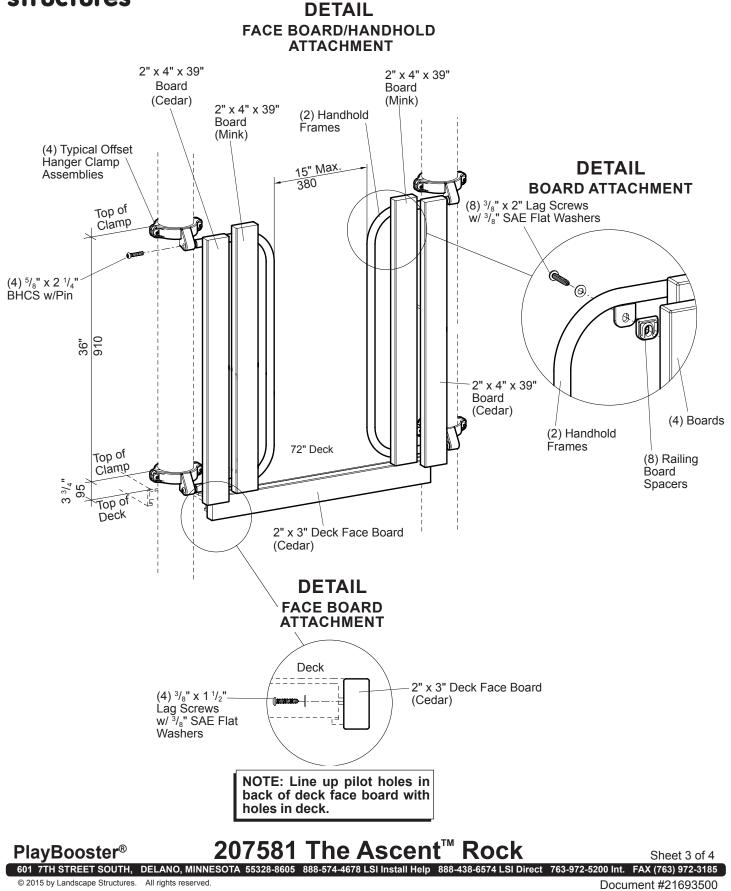




SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref.

ASTM F1487.)

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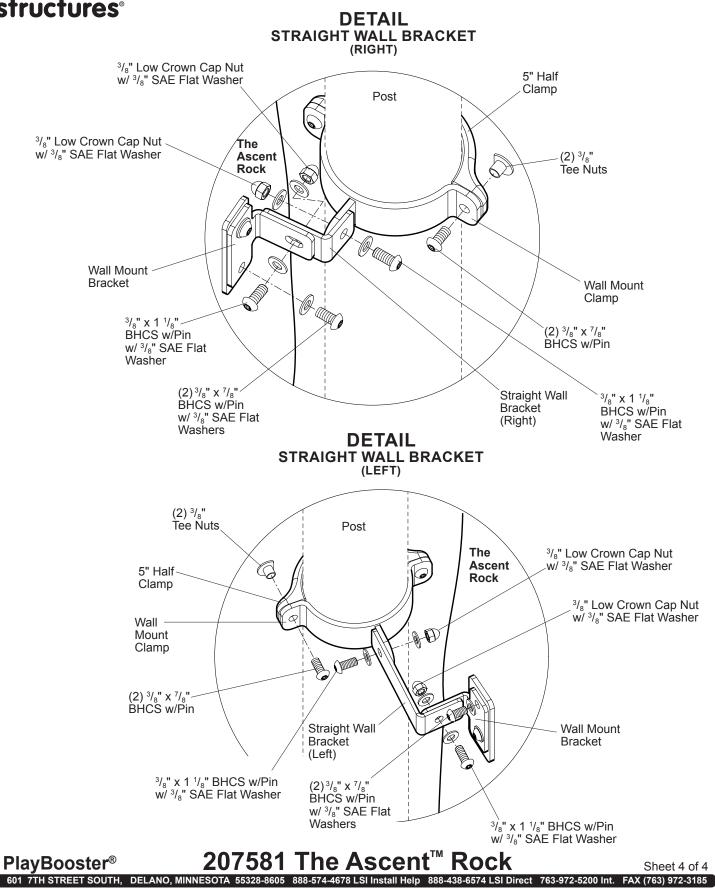






SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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PlayBooster[®] 207581 The Ascent[™] Rock



Parts List

Part#	Description	Qty
216289	The Ascent Rock, Natural Tree Color	
105327	5" Half Clamp, Specify Color	6
113729	Offset Hanger Clamp, Specify Color	4
175267	2" x 3" Recycled Deck Face Board, Cedar	1
207485	Railing Board Spacer, Tan	8
206535	Wall Mount Bracket, Specify Color	
206536	Wall Mount Clamp, Specify Color	2
207512	Straight Wall Bracket Left, Specify Color	1
207514	Straight Wall Bracket Right, Specify Color	1
168211	Handhold Frame, Tan	2
168467	2" x 4" x 39" Recycled Board, Cedar	2
168467	2" x 4" x 39" Recycled Board, Mink	2
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL./SST	6
169651	Recycled Deck/Kick Board Hardware Pkge	1
100365	³ / ₈ " SAE Flat Washer, SST	4
168198	$3/_8$ " x 1 $1/_2$ " BH Lag Screw, SST	4
207877	Ascent Rock Clamp (Pair) Hardware Packag	e 1
100196	3/8" x 7/8" BHCS w/Pin, SST	8
100351	³ / ₈ " Tee Nut, SST	4
100365	³ / ₈ " SAE Flat Washer, SST	12
100349	3/8" Low Crown Cap Nut, SST	4
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL./SST	
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	4
175287	Tree House Handhold (Pair) Hardware Pkg.	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8
100203	5/8" x 2 1/4" BHCS w/Pin, SST	4
100351	³ / ₈ " Tee Nut, SST	8
100365	³ / ₈ " SAE Flat Washer, SST	16
139039	³ / ₈ " x 2" BH Lag Screw, SST	8

Specifications

Rock Panel:	Weldment comprised of ${}^{5}/_{8}$ " (15,87 mm) & ${}^{3}/_{4}$ " (19,06 mm) rebar, ${}^{1}/_{4}$ " (6,35 mm) HRPO steel sheet and 7 GA. (.179") (4,55 mm) thick HRPO steel plate. Finish: ProShield [®] . (Rock-fully assembled) Wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.	
Poly Board:	Recycled high-density polyethylene, cedar or mink in color.	(
Handhold Frame:	Weldment comprised of 1.125" (28,58 mm) O.D. 11 GA. (.120") (3,05 mm) steel tubing with 203 or 303 stainless steel inserts, with $\frac{5}{8}$ " (15,87 mm) internal threads, and $\frac{1}{4}$ " (6,35 mm) HRPO steel sheet. Finish: ProShield [®] , tan in color.	
Spacer Tube:	Made from 1 ¹ / ₈ " (28,57 mm) O.D. 6061-T6 aluminum tube. Finish: ProShield, tan in color.	
Wall Mount Brkt.:	Fabricated from 7 GA. (.179") (4,55 mm) thick HRPO steel plate. Finish: ProShield [®] , color specified.	
Straight Wall Brkt.:	Fabricated from 7 GA. (.179") (4,55 mm) thick HRPO steel plate. Finish: ProShield [®] , color specified.	
Wall Mount Clamp:	Weldment comprised of $^{1}/_{4}$ " (6,35 mm) HRPO steel plate. Finish: ProShield [®] , color specified.	
Clamp:	Cast aluminum. Finish: ProShield®, color specified.	

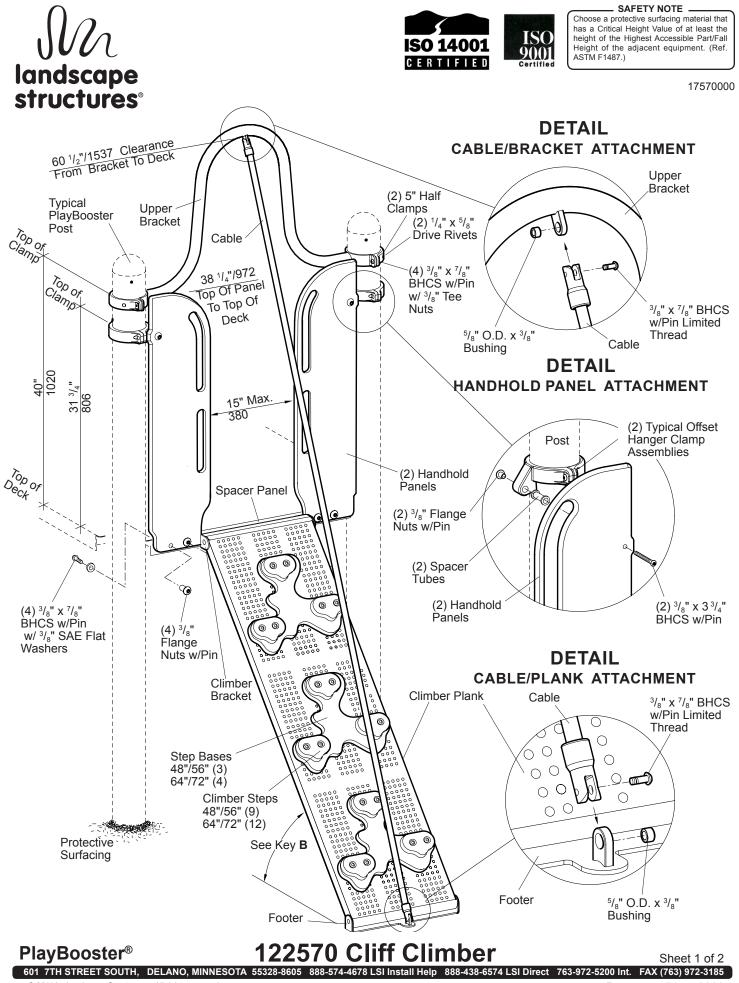
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
	Approx. 8 man hours 72" (1,83 m) Approx. 9.12 cu. ft. 2892 lbs.

Installation Instructions

 (Direct Bury) Dig footing holes and build frame for concrete slab. Refer to Direct Bury Detail and Site Plan.

Warning: Never crawl under any part of the Rock Panels - especially when it is only supported by a forklift.

- 2) With posts plumb and deck level, pour concrete footings and slab. **NOTE:** *Concrete slab must be level.*
- 3) Allow concrete to cure a minimum of 24 hours before placing Rock Panel on concrete slab.
- 4) To unload a Rock Panel a "Lull" type material handler with at least an 8000 lb. capacity is recommended. NOTE: At least 2 people are recommended for Rock Panel installation. One person to operate the material handling equipment and one person to spot for the operator.
- 5) Pick up the Rock Panel by inserting the material handling forks into the forklift pockets. Be very careful to keep the Rock Panel level to the ground when raising or lowering. Do not tip the Rock Panel on a corner or edge. Do not contact the concrete face of the Rock Panel with material handler forks, chipping can occur. Refer to the Site Plan for proper orientation.
- 6) Attach Rock Panel to posts. Refer to the Wall Bracket Details.
- 7) Attach offset hanger clamps to posts at heights shown using 5" half clamps, ³/₈" x 1 ¹/₈" BHCS w/pin and ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 8) Attach handhold frames to offset hanger clamps, using $\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/pin.
- 9) Line up pilot holes in boards with spacers and handhold frame tabs and attach, using ³/₈" x 2" lag screws with ³/₈" SAE flat washers. Refer to the Board Attachment Detail.
- 10) Line up pilot holes in deck face board with holes in deck and attach, using ³/₈" x 1 ¹/₂" lag screws with ³/₈" SAE flat washers. Refer to the Face Board Attachment Detail.
- 11) Install $\frac{1}{4}$ x $\frac{5}{8}$ drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- Install protective surfacing before users are allowed to play on the structure.
- 13) NOTE: After installation if Touch-up/Repairs are needed, contact Landscape Structures at 1-888-574-4678.



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PlayBooster® 122570 Cliff Climber

Parts List

Part#	Description	Qty.
152391	Climber Deals 18"/56" Specify Color	Q_1
122130	Climber Plank 48"/56", Specify Color Climber Plank 64"/72", Specify Color	1
165144	Unner Preaket Specify Color	1
139563	Upper Bracket, Specify Color	1
122122	Climbar Preaket Specify Color	2
113729	Climber Bracket, Specify Color Offset Hanger Clamp, Specify Color	1
105327	5" Half Clamp, Specify Color	2
122776	5" Half Clamp, Specify Color Spacer Panel, Specify Color 121 ¹ / ₄ " Cable, (48" Deck)	
165147	$121^{1/2}$ (48" Deck)	1
165148	125" Cable, (56" Deck)	1
165149	140" Cable, (64" Deck)	1
165150	143" Cable, (72" Deck)	1
165145	Footer (DB), Specify Color	1
165146		
113468	Spacer Tube Specify Color	2
Multiple *	Climber Assembly 48"/56"	1
122204	Climber Step Specify Color	0
122595	Sten Base Specify Color	3
175695	48"/56" Cliff Hardware Package	
123224	Footer (SM), Specify Color Spacer Tube, Specify Color. Climber Assembly 48"/56" Climber Step, Specify Color	2
100198	$\frac{3}{2}$ x 1 $\frac{1}{16}$ BHCS w/Pin SST	2
113027	$\frac{3}{3}$ x 1 $\frac{3}{3}$ BHCS w/Pin SST	18
100327	³ / ₈ " Standard Hex Nut, SST	6
100353	³ / ₈ " Flange Nut w/Pin_SST	18
100365	³ / ₈ " SAE Flat Washer SST	28
Multiple *	3 's" Standard Hex Nut, SST 3 's" Flange Nut w/Pin, SST 3 's" SAE Flat Washer, SST Climber Assembly 64"/72" Climber Step, Specify Color Step Base, Specify Color 64"/72" Cliff Hardware Package 3 's" x 1 11 '16" BHCS w/Pin, SST 3 's" x 1 11 's" BHCS w/Pin, SST 3 's" x 1 16 " BHCS w/Pin, SST 3 's" x 1 3 's" BHCS w/Pin, SST 3 's" x 1 3 's" BHCS w/Pin, SST 3 's" x 1 3 s" BHCS w/Pin, SST	1
122204	Climber Step Specify Color	12
122595	Step Base Specify Color	4
175696	64"/72" Cliff Hardware Package	1
123224	³ / ₈ " x 1 ¹¹ / ₁₄ " BHCS w/Pin SST	2
100198	$3/_{\circ}$ " x 1 $1/_{\circ}$ " BHCS w/Pin_SST	4
113027	³ / _o " x 1 ³ / _o " BHCS w/Pin SST	24
100327	3/8" Standard Hex Nut, SST	
100353	³ / ₈ " Flange Nut w/Pin. SST	
100365		
175697	 ⁷/₈ SAE Flat Washer, SS1. Cliff Climber Hardware Package ³/₈" x 1 ¹/₈" BHCS w/Pin, SST. ³/₈" x ⁷/₈" BHCS w/Pin Ltd. Thread Bolt, SST ⁵/₈" x 3 ³/₄" BHCS w/Pin, SST. ³/₈" x 3 ³/₄" BHCS w/Pin, SST. ³/₈" x ⁷/₈" BHCS w/Pin, SST. ³/₈" x ⁷/₈" BHCS w/Pin, SST. ³/₈" tee Nut, SST. ³/₈" Tee Nut, SST. 	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	4
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Ltd. Thread Bolt, SST	2
127179	⁵ / ₈ " O.D. x ³ / ₈ " Bushing, SST	2
124460	³ / ₈ " x 3 ³ / ₄ " BHCS w/Pin, SST	2
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	8
100351	³ / ₈ " Tee Nut, SST	8
100353	³ / ₈ " Flange Nut w/Pin, SST	6
100365	³ / ₈ " SAE Flat Washer, SST	4
100610	⁷ / ₈ " Flange Nut w/Pin, SST. ³ / ₈ " SAE Flat Washer, SST. ¹ / ₄ " x ⁵ / ₈ " Drive Rivet AL/SST.	4
111392	1/4 1/8 2 Hole (SM) Hardware Package 1/2" x 2 3/4" Expansion Anchor 1/2" Standard Hex Nut, SST 1/2" Standard Hex Nut, SST	1
100266	¹ / ₂ " x 2 ³ / ₄ " Expansion Anchor	2
100322	1/2" Standard Hex Nut, SST	2
100363	¹ / ₂ " Flat Washer, SST	2
* = See Your L.S DB=Direct Bury	.I. Representative For Part Number	

DB=Direct Bury SM=Surface Mount

Specifications

opeemeations		
Climber Bracket:	Fabricated from formed $\frac{3}{16}$ " x 2" HR flat steel. Finish: ProShield [®] , color specified.	
Climber Plank:	Flange formed from 11 GA (.120") sheet steel con- forming to ASTM A1011. Standing surface is per- forated with $\frac{5}{16}$ "diameter holes. Finish: TenderTuff, color specified.	
Footer:	Weldment comprised of 1.660" O.D. RS-20 (.085"095") galvanized steel tubing and ${}^{3/}_{16}$ " x 2" HR flat steel. Finish: ProShield, color specified.	
Upper Bracket:	Weldment comprised of formed 1.660" O.D. RS-20 (.085"095"') galvanized steel tubing and $\frac{1}{4}$ " x 1 $\frac{3}{4}$ " wide steel half clamps. Finish: ProShield, color specified.	
Climber Step/		
Step Base/Panels:	Solid color Permalene [®] , color specified.	1
Cable:	Made of tightly woven, polyester-wrapped, six stranded galvanized-steel cable with a polypropylene core. Connector fabricated from 1.250" O.D. 6061-T6 aluminum.	

Specifications are subject to change without notice

Offset Hanger Clamp Assembly:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners are socketed and pinned tamper- proof in design, either stainless steel (SST) or carbon steel plated with zinc/nickel and iridescent chromate finish.
Installation Time:	SM - Approx. 2 man hours DB - Approx. $2^{1/2}$ man hours
Concrete Reg •	DB - Approx. $2^{1}/_{2}$ man nours
Concrete Req.: Area Req.:	Approx. 2 cu. ft.
Area Req.:	Approx. 2 cu. ft.
Concrete Req.: Area Req.: Weight:	Approx. 2 cu. ft. 6'/1,83 m minimum use zone at exit

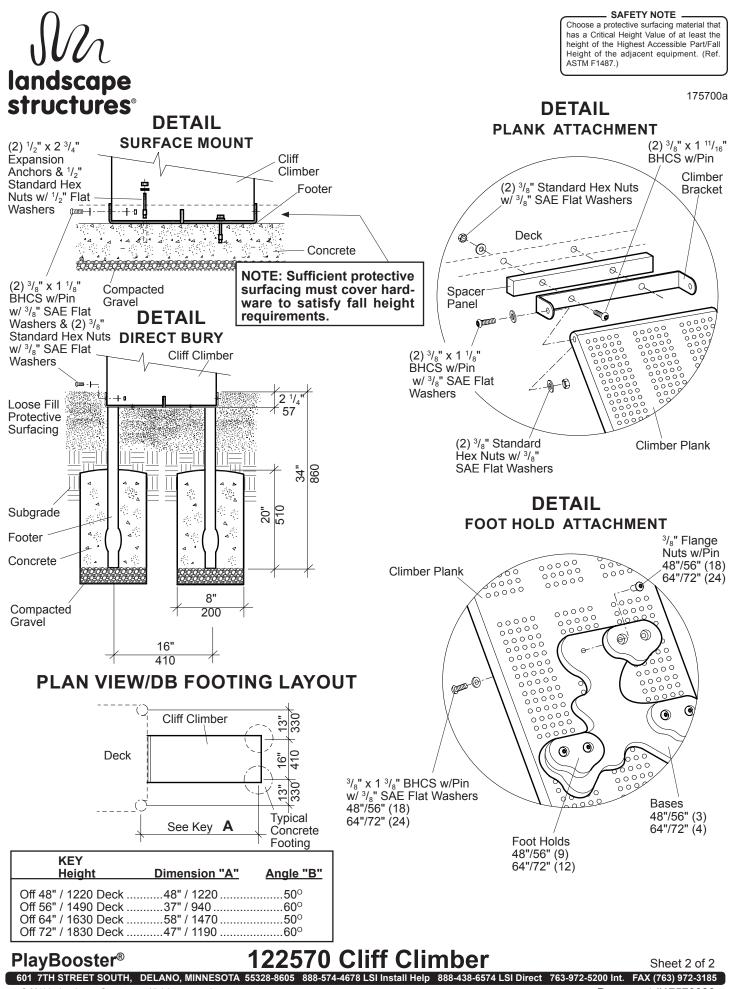
Installation Instructions

- 1) Dig footing holes spaced as shown.
- Attach upper bracket to posts at height shown using 5" half clamps, ³/₈" x ⁷/₈" BHCS w/pin and ³/₈" tee nuts.
- 3) Attach handhold panel to the face of the deck using $3/8" \times 7/8"$ BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. See Detail.
- 4) Attach offset hanger clamp assemblies to posts at height shown. Using half clamps and 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.
- Attach handhold panel to offset hanger clamp assemblies using ³/₈" x 3 ³/₄" BHCS w/pin, spacer tubes and ³/₈" flange nuts w/pin. See Panel Attachment Detail.
- 6) Attach step base and climber steps to the climber plank using ³/₈" x 1 ³/₈" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" flange nuts w/pin. Refer to the Step Attachment Detail.
- 7) Attach footer to climber plank and climber plank to climber bracket using 3/8" x $1 \frac{1}{8}"$ BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to the Plank Attachment Detail.
- Attach climber bracket to the face of the deck using spacer panel, 3/8" x 1 ¹¹/₁₆" BHCS w/pin and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to the Plank Attachment Detail.
- 9) Attach cable to upper bracket, using ${}^{5}/{}_{8}$ " O.D. x ${}^{3}/{}_{8}$ " bushing and ${}^{3}/{}_{8}$ " BHCS w/pin limited thread. Refer to the Cable/Bracket Attachment Detail.
- 10) Attach cable to the bottom of the climber plank, using ⁵/₈" O.D. x ³/₈" bushing and ³/₈" x ⁷/₈" BHCS w/pin limited thread. Refer to the Cable/Plank Attachment Detail.
- (Direct Bury) With cliff climber in final position, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) Mark anchor bolt locations on concrete slab through holes in footer and remove challenge climber from climber bracket. Drill $1/2^{"}$ x 3" deep holes on marks into concrete using hammer drill and $1/2^{"}$ masonry bit. Tap expansion anchors into drilled holes. Reposition challenge climber and reattach to the climber bracket. Fasten footer to expansion anchors using $1/2^{"}$ standard hex nuts with $1/2^{"}$ flat washers.

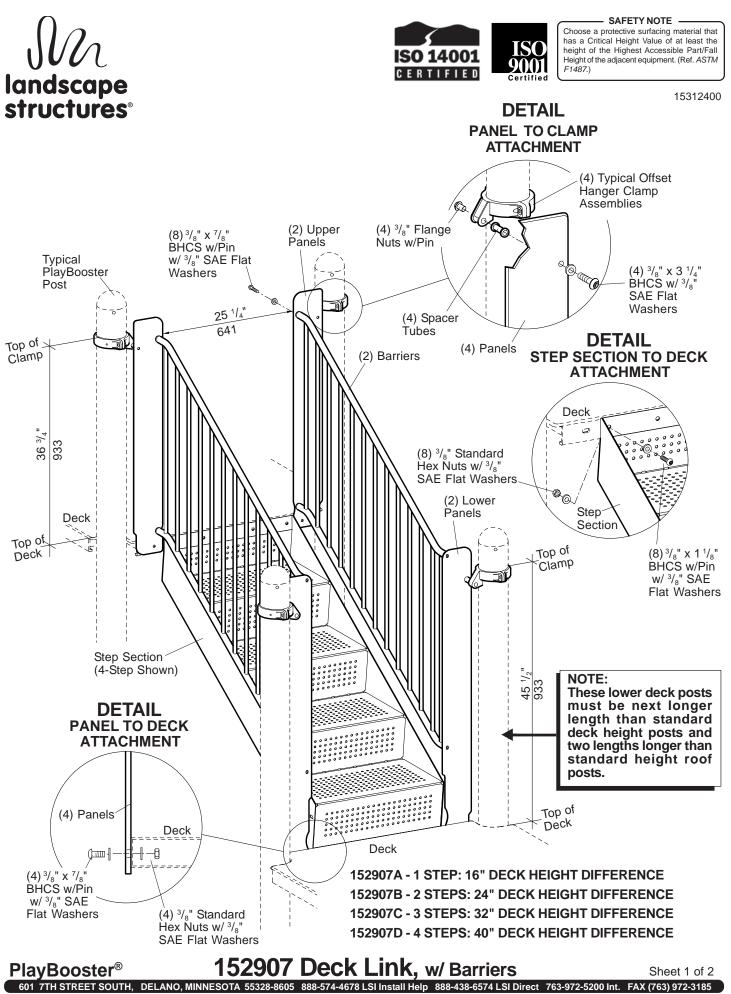
- 2) Install ${}^{1}_{4}$ " x ${}^{5}_{8}$ " drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 3) Install protective surfacing before users are allowed to play on the structure.

Eco #54167 Document #17570000 replaces #15969600. Replaced chain, upper bracket and footer.



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Document #17570000



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PlayBooster® 152907 Deck Link, w/ Barriers

Parts List

Part#	Description Qty.
144696	1-Step Section, Specify Color 1
144698	2-Step Section, Specify Color 1
144700	3-Step Section, Specify Color 1
144702	4-Step Section, Specify Color 1
144703	1-Step Barrier, Specify Color 2
144705	2-Step Barrier, Specify Color 2
144707	3-Step Barrier, Specify Color 2
144709	4-Step Barrier, Specify Color 2
153896	Lower Panel, Specify Color 2
153895	Upper Panel, Specify Color 2
113468	Spacer Tube, Specify Color 4
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST 4
105327	5" Half Clamp, Specify Color 4
113729	Offset Hanger Clamp, Specify Color 4
156283	Deck Link Barr/Hrail Hardware Package 1
100168	³ / ₈ " x 3 ¹ / ₄ " BHCS, SST 4
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST 12
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST 16
100327	3/8" Standard Hex Nut, SST 12
100351	³ / ₈ " Tee Nut, SST
100353	3/8" Flange Nut w/Pin, SST 4
100365	³ / ₈ " SAE Flat Washer, SST

Specifications

Panels:	Zinc plated 7 GA. (.179") HR flat steel. Finish: ProShield [®] , color specified.
Step Section:	Formed from 12 GA (.105) sheet steel conforming to ASTM A1011. Standing surface is $24 \frac{3}{8}$ wide x 14" deep and is perforated with $\frac{5}{16}$ diameter holes. Finish: TenderTuff, color specified.
Barrier:	Weldment comprised of 1.125" O.D. x 11 Ga. (.120" wall) steel tubing, $\frac{5}{8}$ " O.D. steel bar with 203 or 303 stainless steel inserts with $\frac{3}{8}$ " internal threads. Finish: TenderTuff, color specified.
Spacer Tube:	Made from 6061-T6 aluminum $^{7}\!/_{8}"$ O.D. x 1 $^{11}\!/_{16}".$ Finish: ProShield, color specified.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific prod- uct installation/specifications).
Installation Time: Weight:	2-Step - 182 lbs. 3-Step - 236 lbs.
Fall Height:	4-Step - 296 lbs. Deck Height

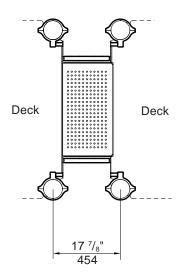
Installation Instructions

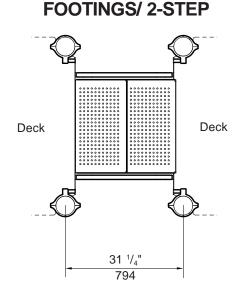
- Attach step section to decks using ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers, as shown. Refer to the Step Section To Deck Attachment Detail.
- Attach upper and lower panels to the face of the deck using ³/₈" x ⁷/₈" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers. Refer to the Panel to Deck Attachment Detail.
- 3) Attach offset hanger clamps to posts at heights shown using 5" half clamps, ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- Attach upper and lower panels to offset hanger clamps using ³/₈" x 3 ¹/₄" BHCS with ³/₈" SAE flat washers, spacer tubes and ³/₈" flange nuts w/pin. Refer to the Panel To Clamp Attachment Detail.
- 5) Attach barriers to upper and lower panels using $3/8" \times 7/8"$ BHCS w/pin and 3/8" SAE flat washers, as shown.
- Install ¹/₄" x ⁵/₈" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 7) Install protective surfacing before users are allowed to play on the structure.



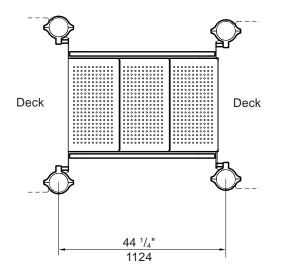
PLAN VIEW/FOOTING LAYOUTS

FOOTINGS/ 1-STEP

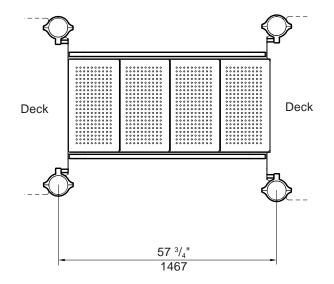




FOOTINGS/ 3-STEP



FOOTINGS/ 4-STEP





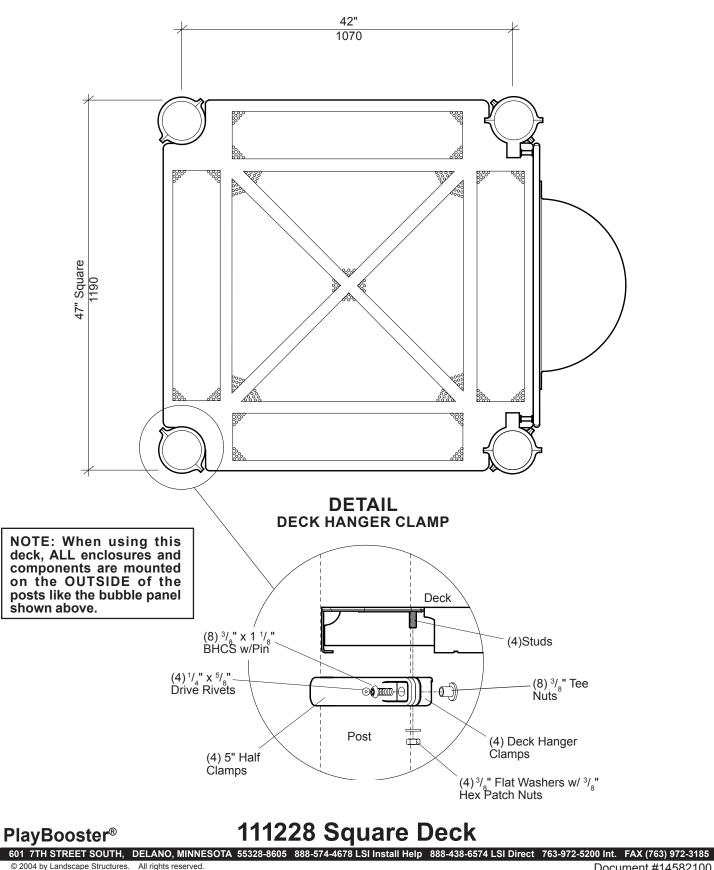
Sheet 2 of 2





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

14582100



landscape structures

PlayBooster® 111228 Square Deck

Parts List

Part#	Description	Qty.
145656	Tenderdeck, Specify Color	1
105327	5" Half Clamp, Specify Color	4
106022	5" Deck Hanger Clamp, Specify Color	4
119491	Hardware Package	1
100198	³ / _o " x 1 ¹ / _o " BHCS w/Pin, SST	8
100321	3/°," Hex Patch Nut, SST	
100351	³ /°," Tee Nut, SST	
100362	³ / ₈ " Flat Washer, SST	4
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, SST	

Specifications

Square Deck:	Flange formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is perforated with $\frac{5}{16}$ diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures $2\frac{5}{8}$ x 47" x 47". Finish: TenderTuff TM , color specified.
Deck Hanger Clamp Assembly:	Cast aluminum. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 1 man hour

Weight: 119 lbs.

Installation Instructions

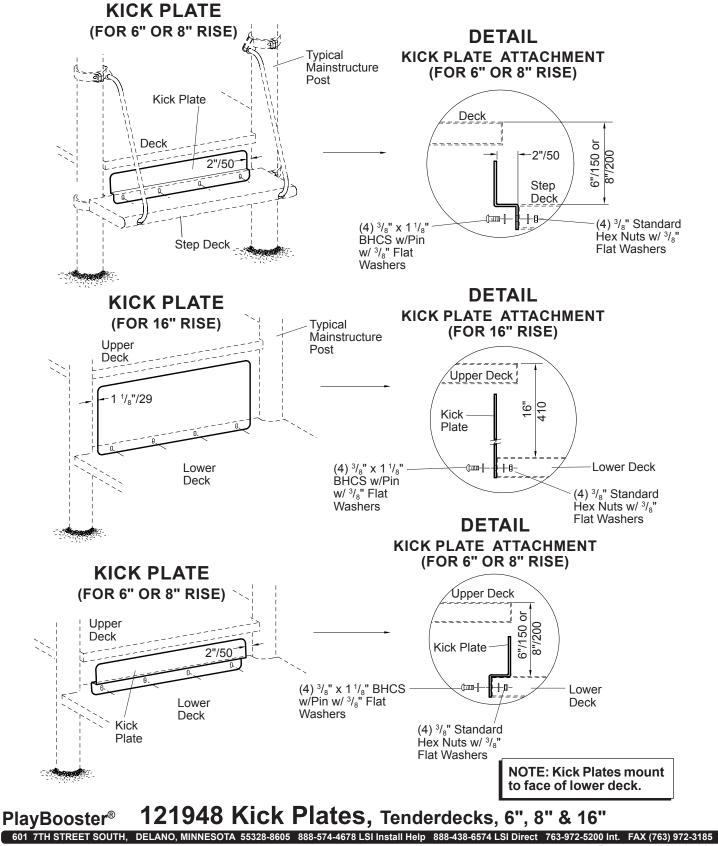
- 1) Mark posts for the appropriate height of the deck you are installing.
- 2) Fasten hanger clamps to marked position on posts. See Detail on front of sheet.
- Lift deck into position, lining up studs underneath deck with deck hanger clamp as shown. Attach with ³/₈" flat washers and ³/₈" hex patch nuts.
- 4) Level deck and plumb posts. Install the drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 5) After all enclosures/components are installed, pour concrete footings per the Typical Concrete Footing Detail Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.

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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

16574300





Parts List

Part#	Description Qty.
121819	Kick Plate (For 6" or 8" Rise), Specify Color1
121818	Kick Plate (For 16" Rise), Specify Color1
156058	Kick Plate Tenderdeck Hardware Package1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST
100327	³ / ₈ " Standard Hex Nut, SST
100362	³ / ₈ " Flat Washer, SST

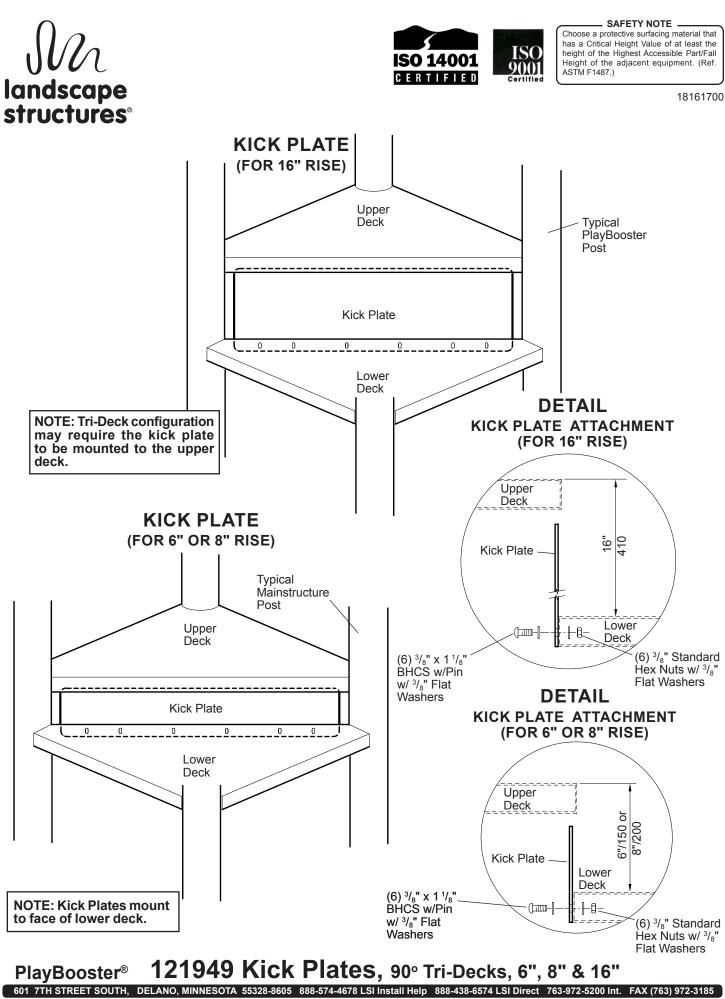
Specifications

Kick Plate:	Fabricated from 11 GA (.120") HR flat steel. Finish: TenderTuff TM , brown or gray in color.	
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).	
Installation Time: Weight:	Approx. ${}^{1}_{/_{4}}$ man hour Kick Plate (For 6" or 8" Rise) 13 lbs. Kick Plate (For 16" Rise) 23 lbs.	

Specifications are subject to change without notice

Installation Instructions

- 1) Locate kick plates as labeled on your plan drawing.
- Attach kick plate using ³/₈" x 1¹/₈" BHCS w/pin with ³/₈" flat washers and ³/₈" standard hex nuts with ³/₈" flat washers, as shown. NOTE: *Kick plates mount to face of lower deck.*
- 3) Install protective surfacing before users are allowed to play on the structure.





Parts List

Part#	Description (Qty.
121820	Kick Plate (For 6" or 8" Rise), Specify Color	1
121822	Kick Plate (For 16" Rise), Specify Color	1
156059 100198 100327 100362	Kick Plate Tenderdeck Hardware Package	6 6

Specifications

Kick Plate:	Fabricated from 11 GA (.120") HR flat steel. Finish: TenderTuff TM , color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Weight:	Approx. $\frac{1}{4}$ man hour Kick Plate (For 6" or 8" Rise) 13 lbs. Kick Plate (For 16" Rise) 33 lbs.

Specifications are subject to change without notice

Installation Instructions

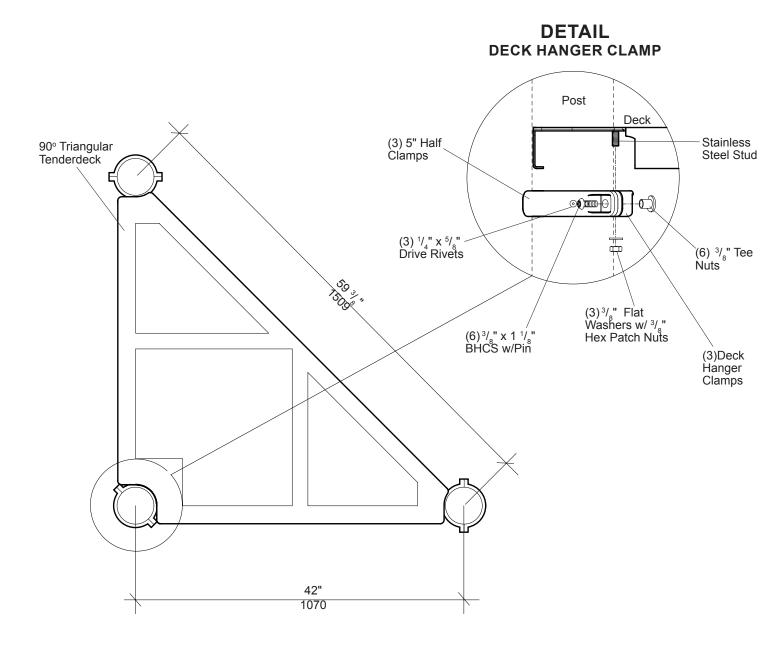
- 1) Locate kick plates as labeled on your plan drawing.
- Attach kick plate using ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" flat washers and ³/₈" standard hex nuts with ³/₈" flat washers, as shown. NOTE: *Kick plates mount to face of lower deck.*
- 3) Install protective surfacing before users are allowed to play on the structure.





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

14582500



122197 90° Triangular Tenderdeck

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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PlayBooster®

structures

PlayBooster[®] 122197 90° Triangular Tenderdeck

Parts List

Part#	Description	Qty.
145658	90° Tri-Deck, Specify Color	
105327	5" Half Clamp, Specify Color	3
106022	Deck Hanger Clamp, Specify Color	
120203	Triangular Deck Hardware Package	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	6
100321	³ / ₈ " Hex Patch Nut, SST	
100351	³ / ₈ " Tee Nut, SST	6
100362	³ / ₈ " Flat Washer, SST	
100610	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	

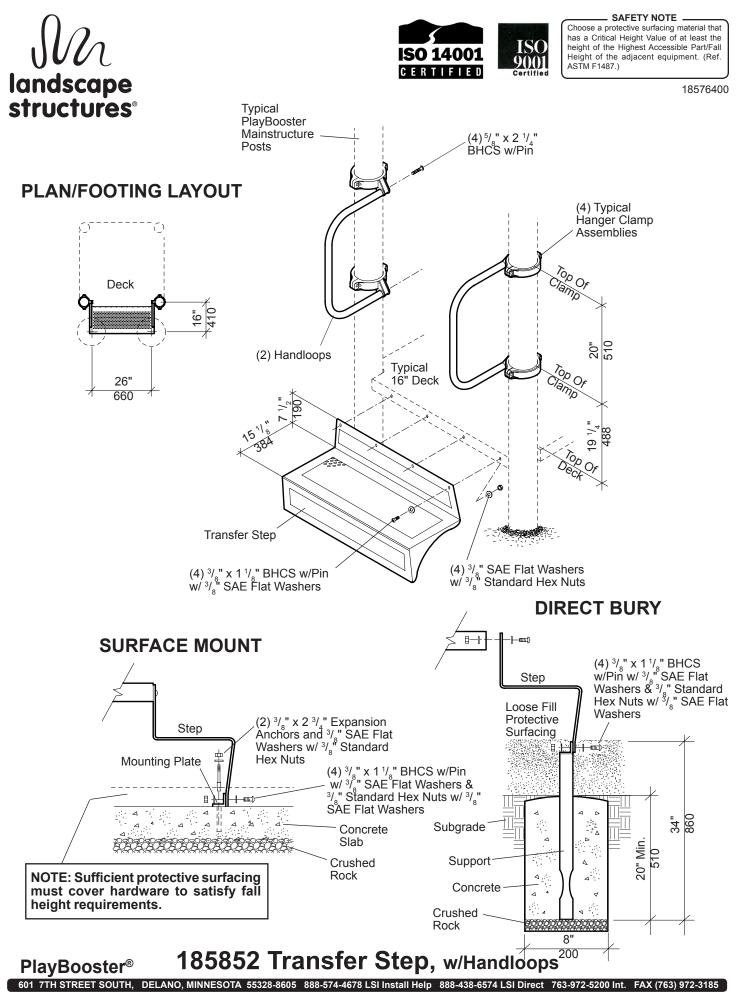
Specifications

- Triangular Deck:Flange formed from 12 GA (.105") sheet steel
conforming to ASTM A1011. Standing surface is
perforated with ${}^{5}\!\!/_{16}$ " diameter holes. Deck face has
(4) slotted holes for face mounting components.
The finished size measures 2 ${}^{5}\!\!/_8$ " x 37 ${}^{3}\!/_4$ ". Finish:
TenderTuffTM, color specified.Deck Hanger
Clamp Assembly:Cast aluminum. Finish: ProShield®, color specified.
 - **Fasteners:** Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
- **Installation Time:** Approx. ¹/₂ man hour **Weight:** 67 lbs.

Installation Instructions

6)

- 1) Mark posts for the appropriate height of the deck you are installing.
- 2) Fasten deck hanger clamps to marked position on posts. See Detail on front of sheet.
- 3) Lift deck assembly into position, lining up stud underneath deck with deck hanger clamp as shown. Attach using $\frac{3}{8}$ " hex patch nuts with $\frac{3}{8}$ " flat washers. With deck level and posts plumb, final tighten all hardware.
- 4) Install $\frac{1}{4}$ x $\frac{5}{8}$ drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 5) After attachment of enclosures and components is complete, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.
 - Install protective surfacing before users are allowed to play on the structure.



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Document #18576400

PlayBooster[®] 185852 Transfer Step, w/Handloops

Parts List

149024 Transfer Step, Specify Color 181342 Transfer Step, Support (DB), Specify Color 181343 Transfer Step, Mounting Plate (SM), Specify Color 105327 5" Half Clamp, Specify Color 105327 5" Half Clamp, Specify Color 113729 Offset Hanger Clamp, Specify Color 108542 Handloop, Specify Color 100198 $3/_8$ " x 1 $1/_8$ " BHCS w/Pin, SST 100327 $3/_8$ " Standard Hex Nut, SST 100365 $3/_8$ " X A E Flat Washer, SST 100198 $3/_8$ " x 1 $1/_8$ " BHCS w/Pin, SST 100198 $3/_8$ " x 1 $1/_8$ " BHCS w/Pin, SST 100198 $3/_8$ " x 2 $3/_4$ " Expansion Anchor 100263 $3/_8$ " x 2 $3/_4$ " Expansion Anchor 100327 $3/_8$ " Standard Hex Nut, SST	Qty.
181343 Transfer Step, Mounting Plate (SM), Specify Color 105327 5" Half Clamp, Specify Color 113729 Offset Hanger Clamp, Specify Color 108542 Handloop, Specify Color 100198 $3'_8$ " x 1 $1'_8$ " BHCS w/Pin, SST 100327 $3'_8$ " Standard Hex Nut, SST 100365 $3'_8$ " SAE Flat Washer, SST 100198 $3'_8$ " x 1 $1'_8$ " BHCS w/Pin, SST 100365 $3'_8$ " sAE Flat Washer, SST 100198 $3'_8$ " x 1 $1'_8$ " BHCS w/Pin, SST 100198 $3'_8$ " x 2 $3'_4$ " Expansion Anchor	. 1
105327 5" Half Clamp, Specify Color 113729 Offset Hanger Clamp, Specify Color 108542 Handloop, Specify Color 100198 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST 100327 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST 100365 $\frac{3}{8}$ " Standard Hex Nut, SST 100365 $\frac{3}{8}$ " SAE Flat Washer, SST 125740 Transfer Step Leg Hardware Package (SM) 100198 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST 100198 $\frac{3}{8}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	. 1
113729 Offset Hanger Clamp, Specify Color 108542 Handloop, Specify Color 108542 Transfer Step Leg Hardware Package (DB) 100198 $3'_{g}$ " x 1 $1'_{g}$ " BHCS w/Pin, SST 100327 $3'_{g}$ " Standard Hex Nut, SST 100365 $3'_{g}$ " SAE Flat Washer, SST 125740 Transfer Step Leg Hardware Package (SM) 100198 $3'_{g}$ " x 1 $1'_{g}$ " BHCS w/Pin, SST 100198 $3'_{g}$ " x 2 $3'_{4}$ " Expansion Anchor	. 1
108542 Handloop, Specify Color	4
125741 Transfer Step Leg Hardware Package (DB) 100198 $3'_8$ " x 1 $1'_8$ " BHCS w/Pin, SST	.4
100198 $3'_8$ " x 1 $1'_8$ " BHCS w/Pin, SST 100327 $3'_8$ " Standard Hex Nut, SST 100365 $3'_8$ " SAE Flat Washer, SST 125740 Transfer Step Leg Hardware Package (SM) 100198 $3'_8$ " x 1 $1'_8$ " BHCS w/Pin, SST 100263 $3'_8$ " x 2 $3'_4$ " Expansion Anchor	2
100198 $3'_8$ " x 1 $1'_8$ " BHCS w/Pin, SST 100327 $3'_8$ " Standard Hex Nut, SST 100365 $3'_8$ " SAE Flat Washer, SST 125740 Transfer Step Leg Hardware Package (SM) 100198 $3'_8$ " x 1 $1'_8$ " BHCS w/Pin, SST 100263 $3'_8$ " x 2 $3'_4$ " Expansion Anchor	1
100327 3/8" Standard Hex Nut, SST 100365 3/8" SAE Flat Washer, SST 125740 Transfer Step Leg Hardware Package (SM) 100198 3/8" x 1 1/8" BHCS w/Pin, SST 100263 3/8" x 2 3/4" Expansion Anchor	
100365 3/8" SAE Flat Washer, SST 125740 Transfer Step Leg Hardware Package (SM) 100198 3/8" x 1 1/8" BHCS w/Pin, SST 100263 3/8" x 2 3/4" Expansion Anchor	.4
100198 $3/8$ " x 1 $1/8$ " BHCS w/Pin, SST 100263 $3/8$ " x 2 $3/4$ " Expansion Anchor	8
100263 $3_{8}'' \ge 2_{4}''$ Expansion Anchor	. 1
100263 $3_{8}'' \ge 2_{4}''$ Expansion Anchor	4
100327 3/ "Standard Hay Nut SST	2
100527 r_8 Standard flex Nut, SS1	6
100365 $3\sqrt[3]{_8}$ " SAE Flat Washer, SST	10
127148 Transfer Step Hardware Package	1
100198 ³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	4
100365 $3/_{8}^{"}$ SAE Flat Washer, SST	8
100327 $3/_{8}$ " Standard Hex Nut, SST	
114309 Handloop/Rail Hardware Package	2
100198 ³ / _o " x 1 ¹ / _o " BHCS w/Pin, SST	. 8
100203 $5/8'' \ge 21/4''$ BHCS w/Pin, SST	.4
100351 ³ / _o " Tee Nut, SST	8
100610 $\frac{1}{4}$ x $\frac{5}{8}$ Drive Rivet, SST	.4
DB = Direct Bury ⁴ SM = Surface Mount	

Specifications

Step:	Formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Finish: TenderTuff TM , color specified.
Step Support:	Weldment comprised of 1.660 O.D. RS20 (.080"095) and $1 \frac{3}{4}$ " x $1 \frac{3}{4}$ " x $\frac{1}{8}$ " HR angle. Finish: ProShield [®] , color specified.
Handloop:	Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with $\frac{5}{8}$ internal thread. Finish: TenderTuff, color specified.
Clamps:	Cast aluminum. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Concrete Req.: Weight:	Approx. $1^{1/2}$ man hours DB - 1.16 cu. ft. SM - 69 lbs. DB - 77 lbs.

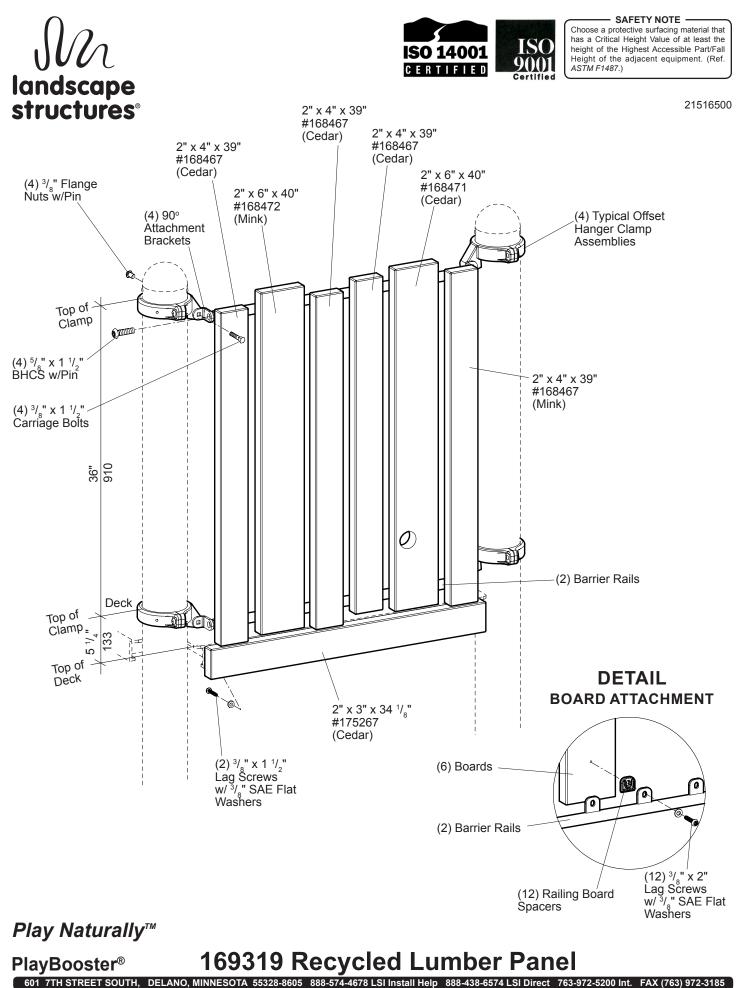
Installation Instructions

Direct Bury

- 1) Dig footings spaced as shown.
- 2) Mark locations of clamps on posts per dimensions on front of sheet.
- 3) Attach offset hanger clamps to ends of handloops using $\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/pin.
- 4) Position handloops with offset hanger clamps on marked positions on posts and attach using 5" half clamps and ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Assembly Sheet.
- 5) Install drive rivets in half clamps per the Typical Offset Hanger Clamp Assembly Sheet.
- 6) Attach transfer step support to transfer step using $\frac{3}{8}$ " x 1¹/₈" BHCS w/ pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- 7) Attach transfer step to deck using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers as shown.
- 8) With deck and steps in level position, pour concrete footings. Allow concrete to cure for a minimum of 72 hours before users are allowed to play on the structure.
- Install protective surfacing before users are allowed to play on the structure.

Surface Mount

- 1) Mark locations of clamps on posts per dimensions on front of sheet.
- 2) Attach offset hanger clamps to ends of handloops using $\frac{5}{8}$ " x 2 $\frac{1}{4}$ " BHCS w/pin.
- 3) Position handloops with offset hanger clamps on marked positions on posts and attach using 5" half clamps and ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Assembly Sheet.
- 4) Install drive rivets in half clamps per the Typical Offset Hanger Clamp Assembly Sheet.
- 5) Attach transfer step mounting plate to transfer step using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
 - Attach transfer step to deck using ${}^{3}/{}_{8}$ " x 1 ${}^{1}/{}_{8}$ " BHCS w/pin with ${}^{3}/{}_{8}$ " SAE flat washers and ${}^{3}/{}_{8}$ " standard hex nuts with ${}^{3}/{}_{8}$ " SAE flat washers as shown.
- 7) Mark holes for expansion anchors on concrete slab through step mounting plate.
- Detach step from deck and drill ³/₈" x 3" deep holes into concrete on marks using ³/₈" masonry bit and hammer drill.
- 9) Reattach transfer step to deck.
- 10) With step over drilled holes, tap expansion anchors into drilled holes. Secure using $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- 11) Install protective surfacing before users are allowed to play on the structure.



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PlayBooster[®] 169319 Recycled Lumber Panel

Parts List

Part#	Description	Qty.
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	4
105327	5" Half Clamp, Specify Color	
113729	Offset Hanger Clamp, Specify Color	4
174605	Barrier Rail, Tan	2
168467	2" x 4" x 39" Board, Cedar	3
168467	2" x 4" x 39" Board, Mink	1
168471	2" x 6" x 40" Board, Cedar	
168472	2" x 6" x 40" Board, Mink	1
175267	2" x 3" x 34 $\frac{1}{8}$ " Deck Face Board, Cedar	1
174606	90º Attachment Bracket, Tan	
215164	Lumber Hardware Package	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	
100201	⁵ / ₈ " x 1 ¹ / ₂ " BHCS w/Pin, SST	4
100351	³ / ₈ " Tee Nut, SST	
100365	³ / ₈ " SAE Flat Washer, SST	14
139039	³ / ₈ " x 2" Lag Screw, SST	12
168198	³ / ₈ " x 1 ¹ / ₂ " Lag Screw, SST	2
116017	$\frac{3}{8}^{8}$ " x 1 $\frac{1}{2}^{2}$ " Carriage Bolt w/Patch, SST	4
100353	³ / ₈ " Flange Nuts w/Pin, SST	4
207485	Railing Board Spacer, Tan	

Specifications

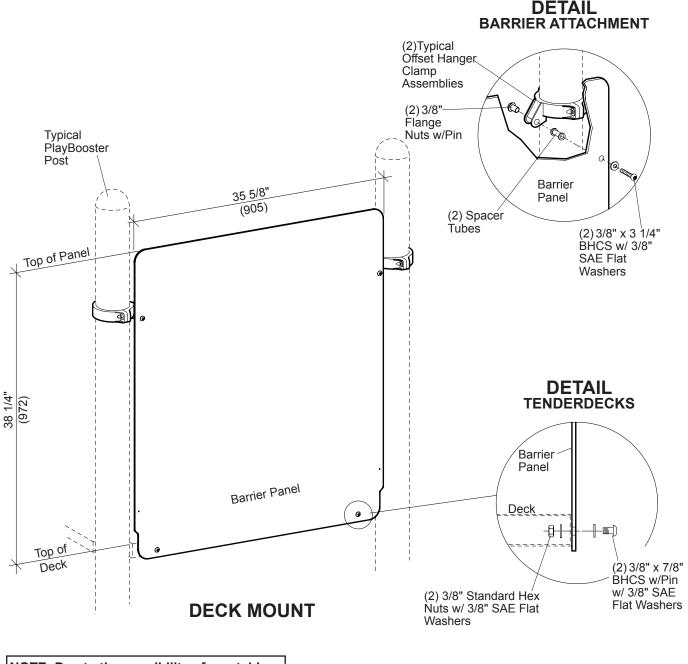
Poly Board:	Recycled high-density polyethylene, cedar or mink in color.
Barrier Rail:	Weldment comprised of 1.125" (28,57 mm) O.D. 11 GA. (.120") (3,05 mm) steel tubing with 203 or 303 stainless steel inserts, with $\frac{5}{8}$ " (15,87 mm)internal threads and $\frac{1}{4}$ " (6,57 mm) HRPO steel plate. Finish: ProShield [®] , tan in color.
90º Bracket:	Formed from $\frac{1}{4}$ (6,57 mm) x 1 $\frac{1}{4}$ (32,12 mm) HRPO flat steel. Finish: ProShield, tan in color.
Clamps:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Weight: Fall Height:	Approx. 1 ¹ / ₄ man hours 85 lbs. Deck Height

Installation Instructions

- Attach offset hanger clamps to posts at heights shown using 5" half clamps, ³/₈" x 1 ¹/₈" BHCS w/pin and ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 2) Attach the 90° attachment brackets to barrier rails, using $\frac{5}{8}$ " x 1 $\frac{1}{2}$ " BHCS w/pin.
- 3) Attach the 90° attachment brackets to the offset hanger clamps using $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " carriage bolts and $\frac{3}{8}$ " flange nuts w/pin.
- 4) Line up pilot holes in barrier boards with spacers and barrier rail tabs, and attach using ³/₈" x 2" lag screws with ³/₈" SAE flat washers. Refer to the Board Attachment Detail.
- 5) Line up pilot holes in deck face board with slots in deck and attach, using $\frac{3}{8}$ x 1 $\frac{1}{2}$ lag screws with $\frac{3}{8}$ SAE flat washers.
- 6) Install protective surfacing before users are allowed to play on the structure.







NOTE: Due to the possibility of scratching, it is important to leave packaging on barrier panel until immediately prior to installation.

218172 Digifuse Barrier w/Medallions PlayBooster[®] 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

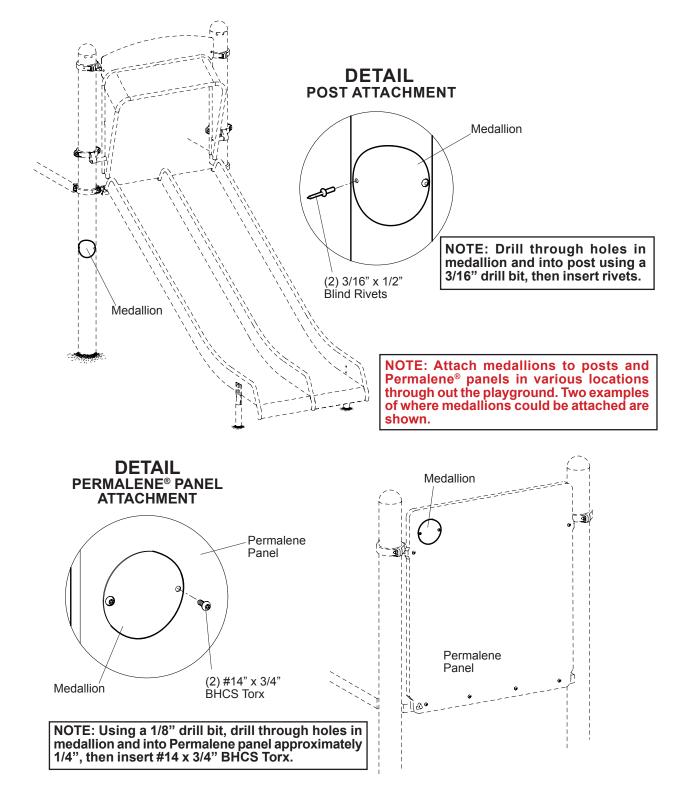
Sheet 1 of 5

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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



Medallion Placement 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

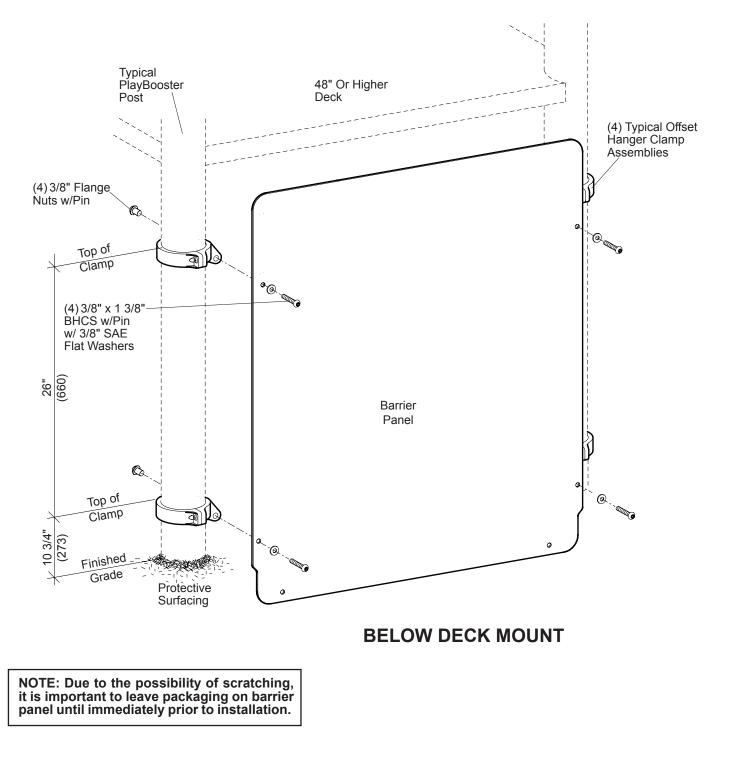
Sheet 2 of 5

PlayBooster[®]





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



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Sheet 3 of 5

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PlayBooster® 218172 Digifuse Barrier w/Medallions

Parts List

Part#	Description Qty.
	ABOVE DECK
100610	1/4" x 5/8" Drive Rivet, AL/SST
105327	5" Half Clamp, Specify Color
113468	Spacer Tube, Specify Color2
113729	Offset Hanger Clamp, Specify Color2
218151	Animal Tracks Digifuse Barrier Panel w/Medallions *
218158	Insects Digifuse Barrier Panel w/Medallions*
218165	Camping Digifuse Barrier Panel w/Medallions*
220945	Animal Tracks Medallion Set*
218152	1 Gray Wolf Digifuse Medallion 1
218153	2 Deer Digifuse Medallion1
218154	3 Coyote Digifuse Medallion1
218155	4 Beaver Digifuse Medallion1
218156	5 Wild Turkey Digifuse Medallion1
218157	6 Black Bear Digifuse Medallion1
220946	Insects Medallion Set*
218159	1 Dragonfly Digifuse Medallion1
218160	2 Butterfly Digifuse Medallion1
218161	3 Bee Digifuse Medallion1
218162	4 Ladybug Digifuse Medallion1
218163	5 Spider Digifuse Medallion1
218164	6 Caterpillar Digifuse Medallion1
220947	Camping Medallion Set*
218166	1 Sightsee Digifuse Medallion1
218167	2 Canoe Digifuse Medallion1
218168	3 Forest Digifuse Medallion1
218169	4 Fish Digifuse Medallion1
218170	5 Picnic Digifuse Medallion1
218171	6 Camper Digifuse Medallion1
218176	Above Deck Hardware Package1
100168	3/8" x 3 1/4" BHCS, SST2
100196	3/8" x 7/8" BHCS w/Pin, SST2
100198	3/8" x 1 1/8" BHCS w/Pin, SST
100327	3/8" Standard Hex Nut, SST
100351	3/8" Tee Nut, SST
100353	3/8" Flange Nut w/Pin, SST2
100365	3/8" SAE Flat Washer, SST6
220909	Digifuse Medallions Hardware Package*
100607	3/16" x 1/2" Blind Rivet, SST
127463	5/10 x 1/2 Bind River, 551
216760	#14 x 3/4" BHCS Torx, SST
	#14 x 5/4 Bries 101x, 551

* = Quantity Based On Your Order

Parts List

Parts List		
Part#	Description	Qty.
	BELOW DECK	
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
105327	5" Half Clamp, Specify Color	
113729	Offset Hanger Clamp, Specify Color	
218151	Animal Tracks Digifuse Barrier Panel w/Medallior	
218158	Insects Digifuse Barrier Panel w/Medallions	*
218165	Camping Digifuse Barrier Panel w/Medallions	*
220945	Animal Tracks Medallion Set	*
218152	1 Gray Wolf Digifuse Medallion	
218153	2 Deer Digifuse Medallion	
218154	3 Coyote Digifuse Medallion	
218155	4 Beaver Digifuse Medallion	
218156	5 Wild Turkey Digifuse Medallion	1
218157	6 Black Bear Digifuse Medallion	
220046	Insects Medallion Set	*
220946		
218159	1 Dragonfly Digifuse Medallion	
218160	2 Butterfly Digifuse Medallion	
218161	3 Bee Digifuse Medallion	
218162	4 Ladybug Digifuse Medallion	
218163	5 Spider Digifuse Medallion	
218164	6 Caterpillar Digifuse Medallion	I
220947	Camping Medallion Set	*
218166	1 Sightsee Digifuse Medallion	
218167	2 Canoe Digifuse Medallion	1
218168	3 Forest Digifuse Medallion	
218169	4 Fish Digifuse Medallion	
218170	5 Picnic Digifuse Medallion	
218171	6 Camper Digifuse Medallion	
139528	Below Deck Hardware Package	
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8
100351	3/8" Tee Nut, SST	
100353	3/8" Flange Nut w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	
113027	3/8" x 1 3/8" BHCS w/Pin, SST	
220909	Digifuse Medallions Hardware Package	*
100607	3/16" x 1/2" Blind Rivet, SST	6
127463	T-27 TPP Hex Bit (Torx)	
216760	#14 x 3/4" BHCS Torx, SST	6
* = Quantity Bas	ed On Your Order	



Specifications

DigiFuse	
Barrier Panel:	Made from 1/4" (6,35 mm) thick aluminum sheet. Dye sublimation printed digital artwork is fused onto the powdercoated substrate.
Medallion Plate:	Made from .063" (1,60 mm) thick aluminum plate, 4" (101 mm) in diameter. Finish: ProShield [®] , white in color with a clear coat finish.
Spacer Tube:	Made from 6061-T6 aluminum 7/8" (22,22 mm) O.D. x 1 11/16" (42,84 mm). Finish: ProShield, color specified.
Clamp:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Above Deck Approx. 1 1/4 man hours
Weight:	Below Deck Approx. 1 1/2 man hours Above Deck 43 lbs. Below Deck 46 lbs.

Installation Instructions

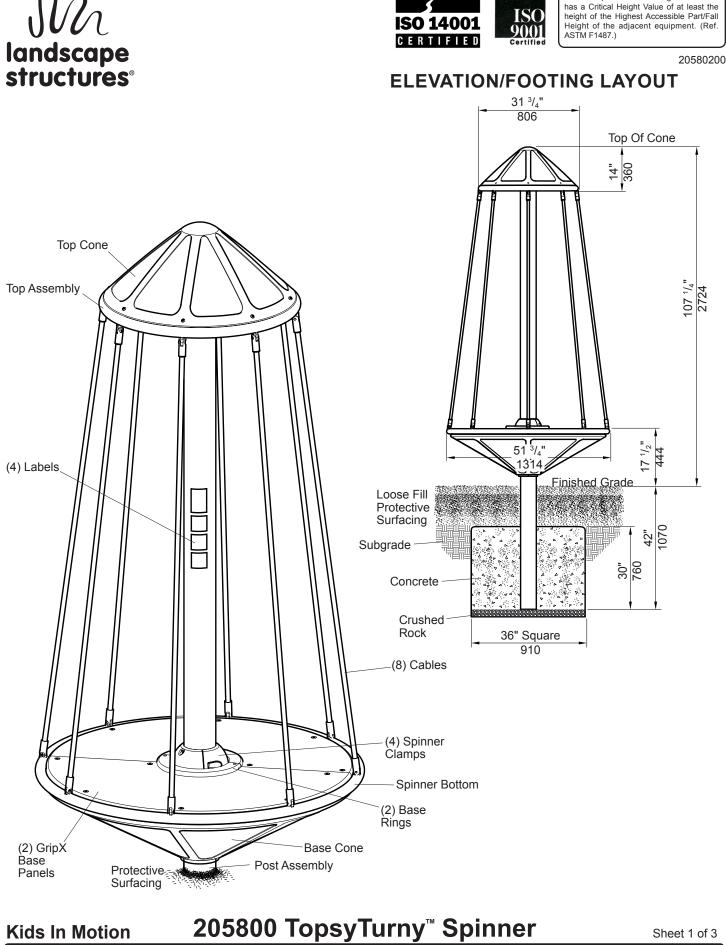
ABOVE DECK (See Sheet 1)

- 1) Attach barrier panel to the face of the deck. Refer to the Tenderdeck Detail on sheet 1.
- 2) Attach offset hanger clamps to barrier panel. See Barrier Attachment Detail.
- Attach offset hanger clamps to posts, using half clamps and 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 4) Attach medallions to posts and Permalene panels in various locations through out the playground. Refer to Attachment Details on sheet 2.
- 5) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.

BELOW DECK (See Sheet 3)

- 1) Attach offset hanger clamps to posts at heights shown, using half clamps and 3/8" x 1 1/8" BHCS w/pin with 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 2) Drill out the lower two pilot holes in barrier panel to 7/16" diameter. Spray holes with touch-up paint provided to avoid corrosion.
- 3) Attach barrier panel to offset hanger clamp assemblies. See Panel Attachment Detail.
- 4) Attach medallions to posts and Permalene[®] panels in various locations through out the playground. Refer to Attachment Details on sheet 2.
- 5) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.

Specifications are subject to change without notice.



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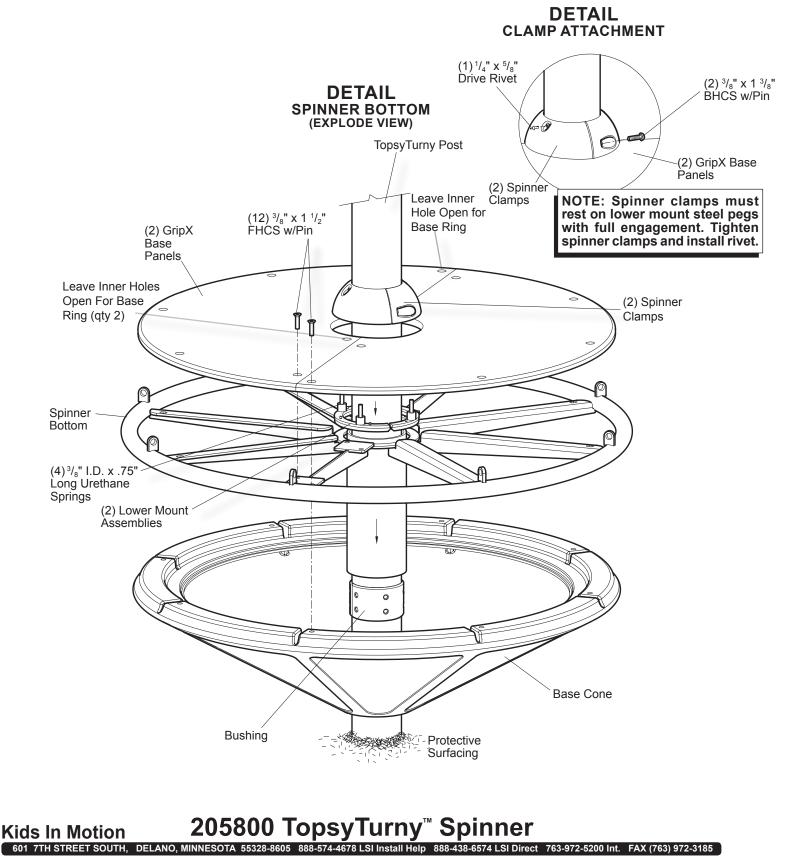
Choose a protective surfacing material that

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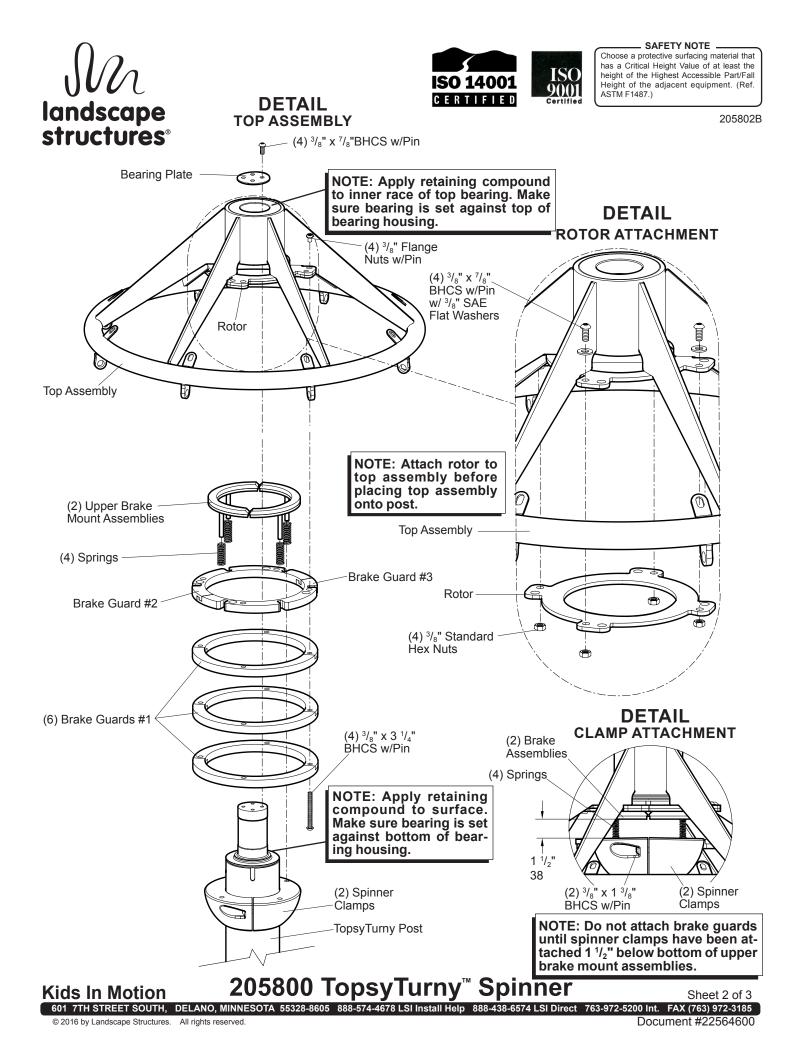


SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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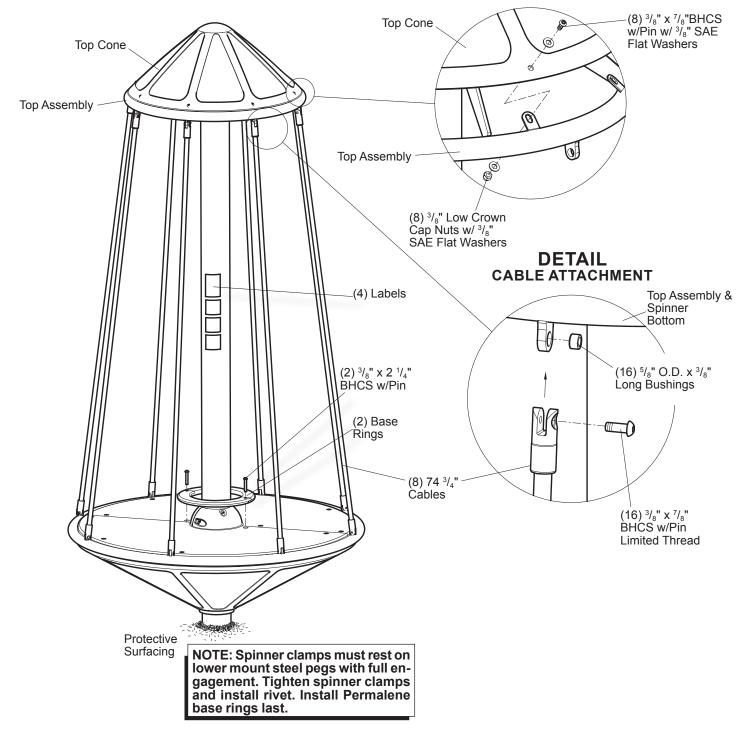


Choose a protective surfacing material that

has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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205800 TopsyTurny[™] Spinner

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Kids In Motion

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Kids In Motion 205800 TopsyTurny[™] Spinner

Parts List

182212

182213

Part#	Description Qty.
201673	Spinner Bottom, Specify Color 1
211291	GripX Base Panel, Black2
208351	Top Assembly, Specify Color 1
202710	74 ³ / ₄ " Cable, Specify Color
201484	Base Cone, Specify Color1
201494	Top Cone, Specify Color1
207513	Brake Guard #1, Black
207515	Brake Guard #2, Black 1
208477	Brake Guard #3, Black 1
207541	Spinner Clamp, Specify Color4
207924	Post Assembly, Specify Color 1
207925	Upper Brake Mount Assembly, Specify Color
207923	Lower Mount Assembly, Specify Color2
188876	Retaining Compound .02 Ounce 1
207315	Base Ring, Black
204688	Rotor, SST 1
225647	TopsyTurny Hardware Package1
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST
100168	³ / ₈ " x 3 ¹ / ₄ " BHCS w/Pin, SST
100365	³ / ₈ " SAE Flat Washer, SST20
151421	³ / ₈ " x 1 ¹ / ₂ " FHCS w/Pin, SST
100349	³ / ₈ " Low Crown Cap Nut, SST
127179	⁵ / ₈ " O.D. x ³ / ₈ " Long Bushing, SST
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST16
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST
100353	³ / ₈ " Flange Nut w/Pin, SST
100327	³ / ₈ " Standard Hex Nut, SST
207921	Spring, SST4
207922	³ / ₈ " I.D. x .75" Long Urethane Spring
205703	Bearing Plate1
100199	³ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST2
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL./SST
100198	³ / ₈ " x1 1/8i" BHCS, SST8
182693	5-12 Yrs. Labels Hardware Package1
115176	Hard Surface Warning Label 1
156847	Play Safe 5-12 Yrs. Label 1
192212	Enter along out Warning Labol

Entanglement Warning Label-

Hot Surface Warning Label-

1

1

Specifications

opecification	
Post Assembly:	Weldment comprised of 5" (127 mm) O.D. x 7 GA. (.179") (4,54 mm) galvanized steel tubing and steel bearing shaft. Finish: ProShield [®] , color specified. (Bushing) .209" (5,30 mm) thick oil filled UHMW PE.
Spinner Bottom:	Weldment comprised of 1.660" (42,16 mm) O.D. RS40 (.111"121" (2,81 mm-3,07 mm) wall galanized steel tubing, 6.000" (152 mm) O.D. x 7 GA. (.179") (4,54 mm) wall stainless steel tube, ${}^{3}/_{8}$ " (9,52 mm) HRPO steel sheet, ${}^{1}/_{4}$ " (6,35 mm) HRPO steel sheet. Finish: ProShield, color specified.
Top Assembly:	Weldment comprised of 1.660" (42,16 mm) O.D. RS20 (.085"095" (2,16 mm-2,41 mm) wall galanized steel tubing, $\frac{1}{4}$ " (6,35 mm) HRPO steel sheet, $\frac{3}{8}$ " (9,52 mm) HRPO steel sheet, 11 GA. (.120") (3,05 mm) HRPO sheet steel and 4.56" (115,82 mm) I.D. x 5.500" (139,7 mm) O.D. steel bar. (Bearings) Deep groove ball bearings, single row seal on both sides. Finish: ProShield, color specified.
GripX Base Panel:	Recycled Permalene, black in color.
Brake Guards:	Recycled Permalene®, black in color.
Rotor:	Fabricated from $^{1}/_{4}$ " (6,35 mm) stainless steel sheet.
Cable Assembly:	(Cable) Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypro- pylene core, red or black in color. (Cable Connec- tors) 6063-T6 aluminum.
Spinner Clamp:	Cast from 356-T6 aluminum. Finish: ProShield [®] , color specified.
Top Cone:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Base Ring:	Recycled Permalene, black in color.
Brake Mount Assy.:	Comprised of $1/4$ " (6,35 mm) HRPO steel sheet, $3/8$ " (9,52 mm) O.D. steel rod. Finish: ProShield, color specified. (Brake) .375" (9,52 mm) thick UHMW PE.
Base Cone:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Area Required: Concrete Req.: Weight: Fall Height:	10 man hours 22'-3" (6,78 m) Diameter Approx. 22.5 cu. ft. 397 lbs. 18" (460 mm)

Sheet 3 of 3 Document #22564600

Kids In Motion 205800 TopsyTurny[™] Spinner



Installation Instructions

- 1) **(Direct Bury)** Dig footing as shown. Refer to the Elevation/Footing Layout Detail.
- 2) Place post assembly in footing hole. With post assembly propped in plumb position, pour concrete footing. Allow concrete footing to cure a minimum of 72 hours before completing rope spinner assembly.
- 3) Place base cone and spinner bottom onto post. Assemble as shown. Refer to the Spinner Bottom Assembly Detail. **NOTE:** *Make sure to place urethane springs onto lower mount assembly pins before completing bottom assembly.*
- Apply retaining compound to bearing and post shaft, as shown. Attach rotor to top assembly. Place top assembly onto post assembly. Refer to the Rotor Attachment Detail.
- 5) Attach bearing plate. Refer to the Top Assembly Detail.
- 6) Place springs onto top brake assembly pins. Line brake assembly pins up with holes in spinner clamps. Attach spinner clamps to post assembly to dimension shown. Refer to the Clamp Attachment Detail.
- 7) Attach brake guards #1, #2 and #3 to top assembly using 3/8" x 3 1/4" BHCS w/Pin and 3/8" flange nuts with pin. Refer to the Top Assembly Detail.
- 8) Attach cables to top assembly and spinner bottom. Refer to the Cable Attachment Detail.
- 9) Attach top cone to top assembly. Refer to the Top Cone Attachment found on the back of sheet two.
- 10) Attach spinner clamps to Topsy Turny Post. Drill through hole in (1) spinner clamp and into TopsyTurny Post, with a ¹/₄" or "F" (only) drill bit. Insert ¹/₄" x ⁵/₈" rivet in hole and hammer rivet pin in until it is flush with head. Refer to the Clamp Attachment Detail. NOTE: Spinner clamps must rest on lower mount steel pegs with full engagement. Tighten spinner clamps and install rivet. Install Permalene base rings last.
- 11) Apply Warning labels, as shown.
- 12) Install protective surfacing before users are allowed to play on the structure.

Specifications are subject to change without notice.

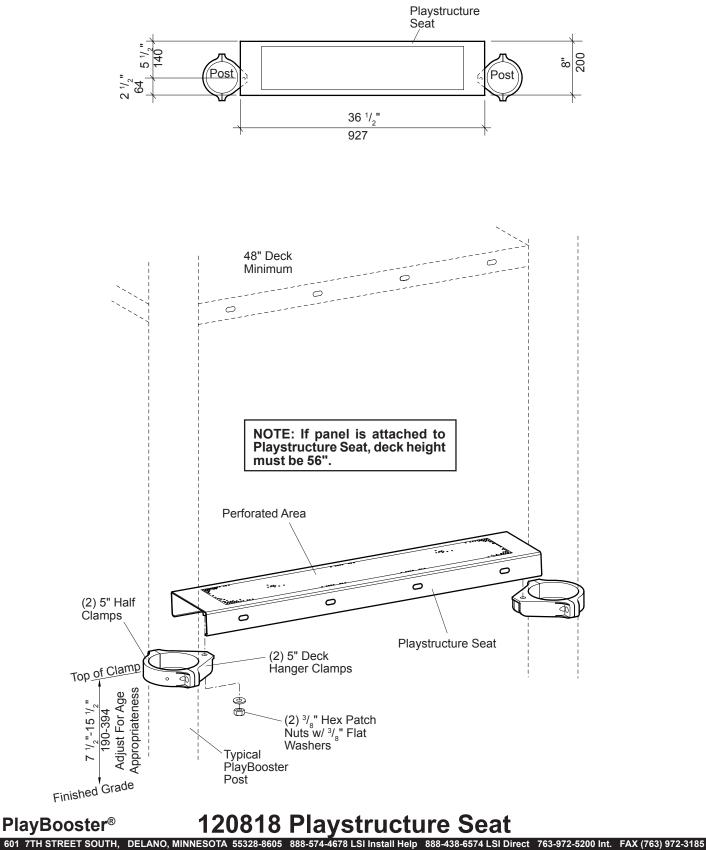
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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

12498000

Top View



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PlayBooster® 120818 Playstructure Seat

Parts List

Part#	Description	Qty.
153952	Playstructure Seat, Specify Color	
105327	5" Half Clamp, Specify Color	2
106022	5" Deck Hanger Clamp, Specify Color	2
106676	Seat Hardware Package	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	4
100321	³ / ₈ " Hex Patch Nut, SST	2
100351	³ / ₈ " Tee Nut, SST	
100362	³ / ₈ " Flat Washer, SST	
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	

Specifications

Seat:	Flange formed from 11 GA (.120") sheet steel. Seating surface is perforated with $\frac{5}{46}$ "diameter holes. Finish: TenderTuff TM , color specified.
Deck Hanger Clamp Assembly:	Cast aluminum. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Weight:	Approx. 1 man hour 26 lbs.

Installation Instructions

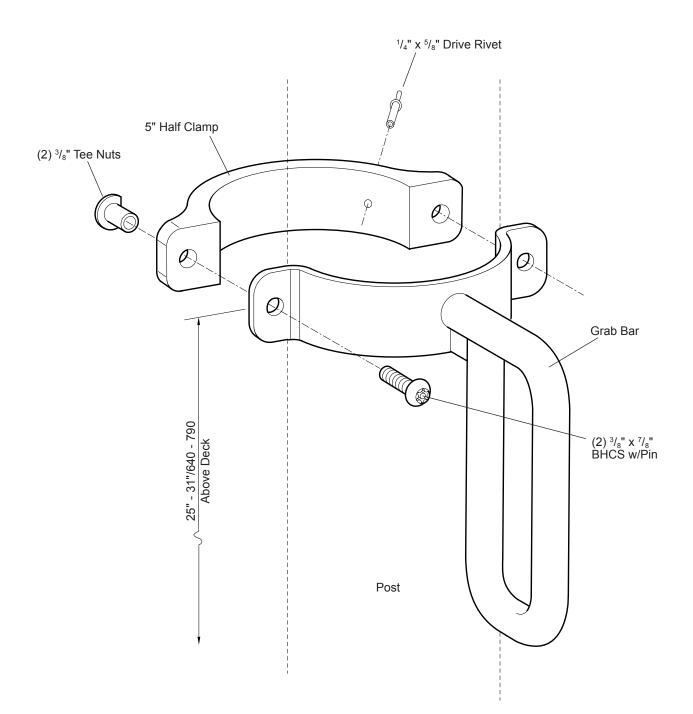
- Playstructure seat attaches offset to posts. Refer to your site layout for where and which direction the playstructure seat needs to be installed. NOTE: If panel is attached to Playstructure Seat, deck height must be 56".
- 2) Mark posts for the appropriate height of the playstructure seat you are installing. **NOTE:** *Height is adjustable 8"-16"*.
- 3) Fasten 5"deck hanger clamps to the marked position on posts using 5" half clamps and ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 4) Position seat over 5" deck hanger clamps and attach using $\frac{3}{8}$ " hex patch nuts with $\frac{3}{8}$ " flat washers, as shown.
- 5) Install $\frac{1}{4}$ x $\frac{5}{8}$ drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 6) Install protective surfacing before users are allowed to play on the structure.





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

12125200





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PlayBooster®

Document #14161500

landscape structures

PlayBooster® 120901 Grab Bar

Parts List

Description	Qty.
5" Half Clamp, Specify Color	
Grab Bar, Specify Color	
Grab Bar Hardware Package	1
³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	2
³ / ₈ " Tee Nut, SST	2
¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	
	5" Half Ĉlamp, Specify Color Grab Bar, Specify Color Grab Bar Hardware Package ³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST ³ / ₈ " Tee Nut, SST

Specifications

Grab Bar:	Weldment comprised of formed $^{7}/_{8}$ " O.D. 11 GA (.120") and $^{1}/_{4}$ " x 1 $^{3}/_{4}$ " stainless steel half clamp. Finish: TenderTuff TM , color specified.
Half Clamp:	Cast aluminum. Finish: ProShield®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Weight:	

Installation Instructions

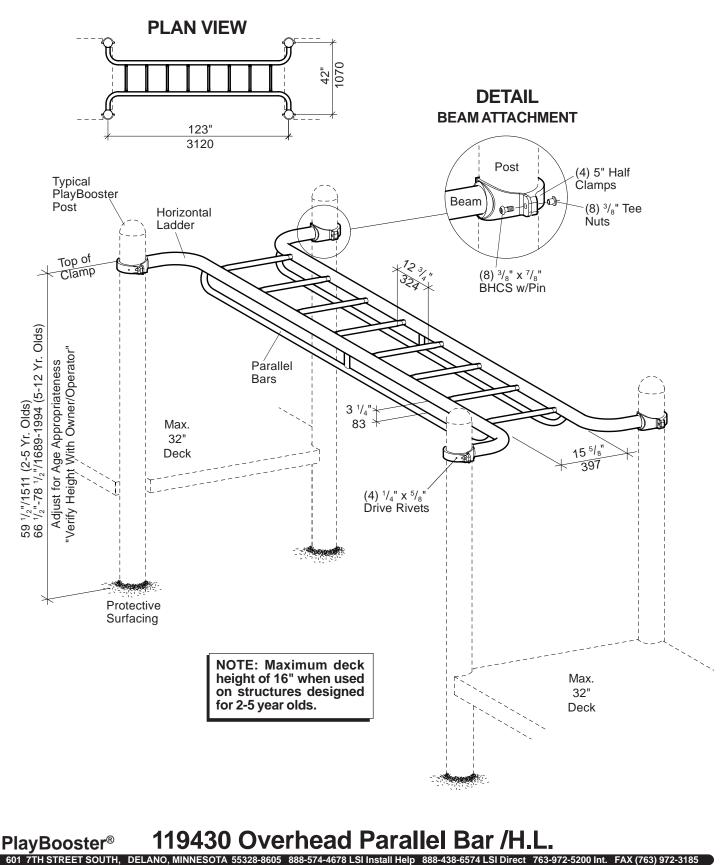
- 1) Attach grab bar to post at height shown, using a 5" half clamp, $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts.
- 2) Install ¹/₄" x ⁵/₈" drive rivet in 5" half clamp. Refer to the Offset Hanger Clamp Spec Sheet.
- 3) Install protective surfacing before users are allowed to play on the structure.

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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

14925200



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Document #14925200

landscape structures[®]

PlayBooster[®] 119430 Overhead Parallel Bar/H.L.

Parts List

Part#	Description Qty	
145939	Overhead Parallel Bars, Specify Color 1	
105327	5" Half Clamp, Specify Color 4	
100610	$^{1}/_{4}$ " x $^{5}/_{8}$ " Drive Rivet, AL/SST 4	
149233	Horizontal Ladder, Hardware Package 1	
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	
100351	³ / ₈ " Tee Nut, SST	

Specifications

Overhead Parallel Bars:	Weldment comprised of 2.375" O.D. RS-40 (.130"140") galvanized steel tubing 1.315" O.D. x RS-20 (.080"090") galvanized steel tubing and $^{1}_{4}$ " HRPO flat steel. Finish: ProShield, color specified.
Clamp:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Area Req.: Weight: Max. Fall Height:	Approx. 1 man hour 6' (1,83 m) minimum use zone 115 lbs. 60" (1,52 m) 2-5 Yr. Olds. 67"-79" (1,70 m - 2,10 m) 5-12 Yr. Olds.

Installation Instructions

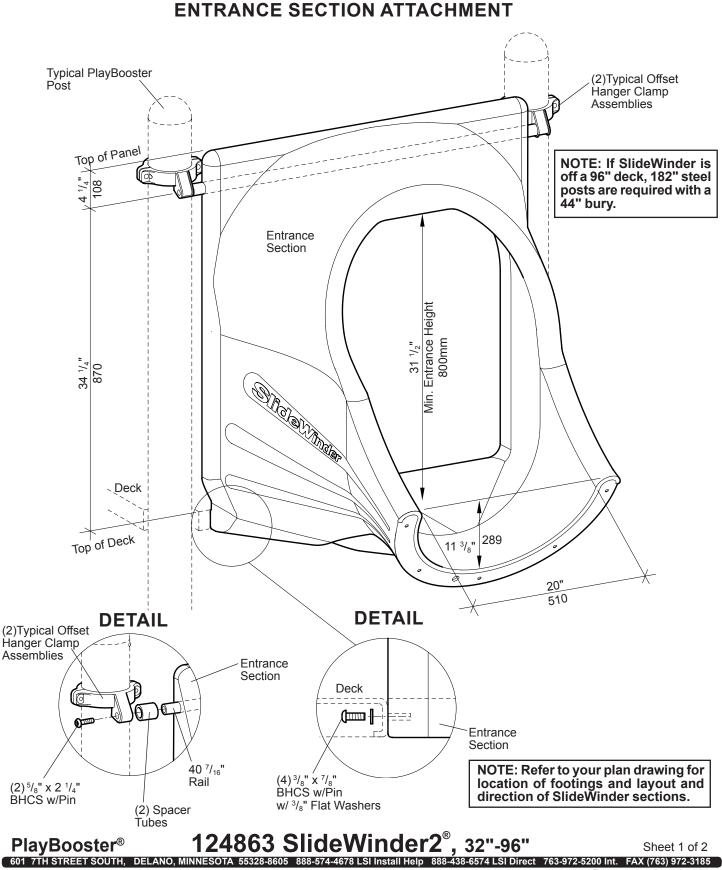
- 1) Mark posts for the appropriate height of the overhead parallel bar. Adjust height for age appropriateness.
- 2) Lift overhead parallel bar into position and attach to posts using 5" half clamps with $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts.
- 3) Be sure overhead parallel bar is level, if not, adjust clamps to do so.
- 4) Install ¹/₄" x ⁵/₈" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 5) Install protective surfacing before users are allowed to play on the structure.





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

17787300

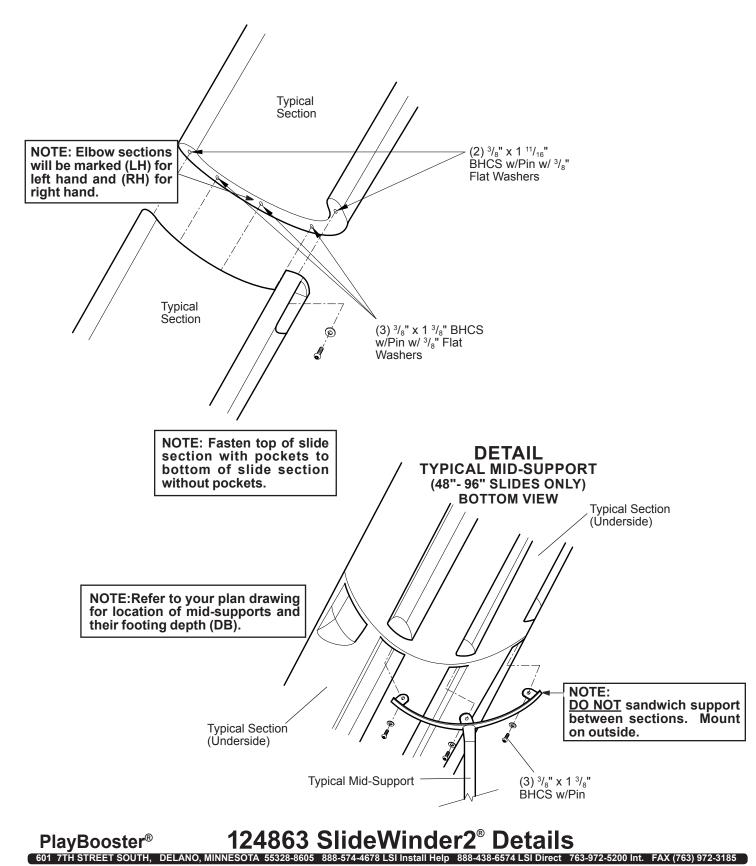


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Document #17787300



DETAIL TYPICAL SLIDE SECTION



has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.) landscape 128348b0 structures[®] DETAIL DETAIL **DIRECT BURY / EXIT SECTION DIRECT BURY / MID-SUPPORTS** Mid-Support Top Of Exit Section Loose Fill Sliding Protective Surface Surfacing 9" 30" or 38" 760 or 970 (2)³/₈" Flat Washers Minimum (2) Rubber Bushings ł 4 Loose Fill 4 Þ Protective 1 (2) 3/8" Flat Washers Δ Surfacing Subgrade 20" | 510 (2) ³/₈" x 1 ¹/₄" BHCS w/Pin ⊲ $\overline{\nabla}$ Concrete Limited Thread ⊿ Footing Bolts 20" Minimum 510 34["] 360 Y Λ Crushed 12" Subgrade Rock 300 Exit 4 .:-Footer 4 ∇ 4 DETAIL Concrete SURFACE MOUNT / MID-SUPPORTS Footing **Crushed Rock** 12" ³/₈" x 1 ¹/₂" 300 Mid-Support Threaded Rod NOTE: Attach bolts in the center of the (2)¹/₂" x 2 ³/₄" ᠿ (2) 3/8" Flange footer slots to allow for expansion and Nuts w/Pin Expansion Anchors contraction. Snug bolts down only, do w/ 1/2" Flat Washers & 1/2" not overtighten! 曲 Standard Hex Nuts Leg Base Unitary DETAIL Protective Surfacing SURFACE MOUNT / EXIT SECTION ₽ NOTE: Thickness of unitary protective surfacing depends upon the slide deck height. Concrete Slab Exit AAAAAA Section Crushed Rock (2) 3/8" Flat Washers 260 1 **NOTE: Exit Heights may** (2) Rubber Bushings \Box Support vary if the protective sur-(2)³/₈" Flat Washers ₫ facing is not level. Do not (2) 3/8" x 1 1/4" BHCS w/Pin put pressure/tension on the Limited Thread Bolts entrance section when ad-۷. 4 Concrete Slab justing the exit height. ", 4 $(2) \frac{1}{2} \times 2 \frac{3}{4}$ Л **NOTE: Sufficient protective** Expansion surfacing must cover hard-Anchors & 1/2" ware to satisfy fall height Flat Washers requirements. w/ ¹/₂" Standard Hex Nuts Crushed Rock 124863 SlideWinder2 PlayBooster[®] Details Sheet 2 of 2 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #17787300

SAFETY NOTE Choose a protective surfacing material that

PlayBooster® 124863 SlideWinder2[®], 32"-96"



Parts List

Part#	Description	Qty.
124867	Right Elbow Section, Specify Color	*
124868	Left Elbow Section, Specify Color	*
125655	Straight Section (15 ¹ / ₄ " Long), Specify Color Straight Section (30 ¹ / ₂ " Long), Specify Color	*
124864	Straight Section (30 ¹ / ₂ " Long). Specify Color	*
100583	40 ⁷ / ₁₆ " Rail, Specify Color	1
105327	5" Half Clamp. Specify Color	
113729	Offset Hanger Clamp, Specify Color	2
100610	Offset Hanger Clamp, Specify Color ¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	2
125562	Support Base (SM). Specify Color	*
128434	66" Mid-Support (DB) Specify Color	*
128077	82" Mid-Support (DB). Specify Color	*
128078	106" Mid-Support (DB). Specify Color	*
128079	20 ³ / ₄ " Mid-Support (SM) Specify Color	*
128080	29" Mid-Support (SM). Specify Color	*
128081	37 ¹ / ₈ " Mid-Support (SM) Specify Color	*
128082	45 ¹ / ₄ " Mid-Support (SM), Specify Color	*
128261	Exit Footer (DB), Specify Color	1
128262	Exit Footer (SM), Specify Color	
124876	Entrance Section. Specify Color	1
124877	Exit Section, Specify Color	
132443	Spacer Tube, Specify Color	2
121371	Entrance/Deck Mounting Hardware Package	
100196	³ / _o " x ⁷ / _o " BHCS w/Pin_SST	4
100362	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST ³ / ₈ " Flat Washer, SST	4
154942	SlideWinder Section Hardware Package	*
100362	³ / ₆ " Flat Washer, SST	*
113027	³ / _o " x 1 ³ / _o " BHCS w/Pin_SST	*
123224	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST ³ / ₈ " x 1 ¹¹ / ₁₆ " BHCS w/Pin, SST	*
124342	Rail Hardware Package	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	4
100203	⁵ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	2
100351	³ / _o " Tee Nut_SST	4
125670	Mid-Support Hardware Package (SM) ¹ / ₂ " x 2 ³ / ₄ " Expansion Anchor	*
100266	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	*
100322	¹ / ₂ " Standard Hex Nut, SST	*
100353	³ / _o " Flange Nut w/Pin_SST	*
100363	¹ / ₂ " Flat Washer, SST	*
115813	¹ / ₂ " Flat Washer, SST ³ / ₈ " x 1 ¹ / ₂ " Threaded Rod, SST	*
128373	Exit Support Hardware Package (DB)	1
100290	³ / ₈ " x 1 ¹ / ₄ " BHCS w/Pin Limited Thread Bolt, SST.	2
100362	³ / ₈ " Flat Washer, SST	4
111442	Rubber Bushing	2
128343	Exit Support Hardware Package (SM)	1
100266	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	2
100292	$\frac{1}{2}$ " x 2 $\frac{3}{4}$ " Expansion Anchor	2
100322	¹ / ₂ " Standard Hex Nut, SST	2
100362	³ / ₈ " Flat Washer, SST	4
100363	¹ / ₂ " Flat Washer, SST	2
111442	Rubber Bushing	2
DB = Direct B		
SM = Surface		
	Varies Per Deck Height	

* = Quantity Varies Per Deck Height

Specifications

Slide Sections:	Rotationally molded from U.V. stabilized linear low	
	density polyethylene, color specified.	7)
Rail:	1 $\frac{1}{8}$ O.D. 6005-T5 aluminum extrusion with $\frac{5}{16}$ walls. Finish: ProShield [®] , color specified.	8)
Mid-Support:	Weldment comprised of 1.900" O.D. RS-20 (.090"100") galvanized steel tubing and ${}^{3}/{}_{16}$ " x 1 ${}^{1}/{}_{4}$ " zinc plated steel strap. Finish: ProShield, color specified.	
Support Base (SM):	Weldment comprised of 1.660" O.D. RS-20 (.085"095") galvanized steel tubing and $\frac{1}{4}$ " x 3" x 8" mounting plate. Finish: ProShield, color specified.	9)
Spacer Tube:	Fabricated from 1.3125 O.D. x 16 Ga. (.065) steel tubing. Finish: ProShield, color specified.	
Exit Footer:	Weldment comprised of 2.375" O.D. RS-20 (.095"105") galvanized steel tubing and $\frac{1}{4}$ " x 3" x 7 $\frac{1}{2}$ " mounting plate. Finish: ProShield, color specified.	
Offset Hanger Clamp Assy.:	Cast aluminum. Finish: ProShield, color specified.	1(

Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	32" - 48" Approx. 3 man hours 56" - 72" Approx. 4 man hours
Concrete Req.:	32" - 48" Approx. 3 man hours 56" - 72" Approx. 4 man hours 96" Approx. 5 man hours 30" Depth - Approx. 1.3 cu. ft. 34" Depth - Approx. 1.5 cu. ft. 38" Depth - Approx. 1.8 cu. ft. 32" - 134 lbs.
Weight:	38" Depth - Approx. 1.8 cu. ft. 32" - 134 lbs. 40" - 146 lbs. 48" - 172 lbs. 56" - 184 lbs.
	64" - 197 lbs. 72" - 247 lbs. 96" - 265 lbs.
Fall Height:	Deck Height

Installation Instructions

- 1) Refer to your plan drawing for location of footings and direction of SlideWinder sections.
- 2) (Direct Bury) Dig footing holes spaced as shown, depending upon slide. Refer to the Direct Bury Exit Section and Direct Bury Mid-Support Details.
- Place 40⁷/₁₆" rail in entrance section, place spacer tubes over each end 3) of the 40 $\frac{7}{16}$ rail, attach offset hanger clamps using $\frac{5}{8}$ x 2 $\frac{1}{4}$ BHCS w/Pin.
- 4) Fasten SlideWinder sections together loosely starting in the middle and working your way to the outside of each section, using $3/8" \times 1.3/8"$ BHCS w/Pin with 3/8" flat washers on the 3 inside holes and $3/8" \times 1.11/16"$ BHCS w/pin with 3/8" flat washers on the 2 outside holes. When all bolts are started, pull the tops flush with each other and tighten. The left elbow section reads (LH) and the right elbow section reads (RH). Attach entrance and exit section last. Refer to the Typical Slide Section Detail.
- 5) (Direct Bury) If required attach mid-supports, refer to your plan drawing for locations. Attach mid-supports to slide using $\frac{3}{8}$ " x 1 $\frac{3}{8}$ ' BHCS w/Pin. Refer to the Typical Mid-Support Detail.

(Surface Mount) If required attach mid-supports, refer to your plan drawing for locations. Assemble mid-supports by placing support base inside mid-support and attach using $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " threaded rod and $\frac{3}{8}$ " flange nuts w/pin. Refer to the Surface Mount/Mid-Support Detail. Attach mid-supports to slide using 3/8" x 1 3/8" BHCS w/Pin. Refer to the Typical Mid-Support Detail.

- Attach exit footer to base of slide using $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/Pin limited thread bolts, $\frac{3}{8}$ " flat washers, rubber bushings and $\frac{3}{8}$ " flat washers. 6) **NOTE:** Attach bolts in the center of the slots to allow for expansion and contraction. Snug bolts down only, do not overtighten. See Direct Bury/Exit Section Detail.
 - With SlideWinder fully assembled, attach entrance section to the face of the deck using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin and $\frac{3}{8}$ " flat washers.
 - Attach offset hanger clamps to posts using 5" half clamps, $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
 - (Direct Bury) With supports plumb pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) Mark anchor bolt locations on concrete slab through holes in anchor plates. Drill $\frac{1}{2}$ " x 3" deep holes on marks into concrete using a hammer drill and $\frac{1}{2}$ " masonry bit. Tap $\frac{1}{2}$ " x 2 $\frac{3}{4}$ " expansion anchors into drilled holes and fasten using $\frac{1}{2}$ " standard hex nuts with 1/2" flat washers.

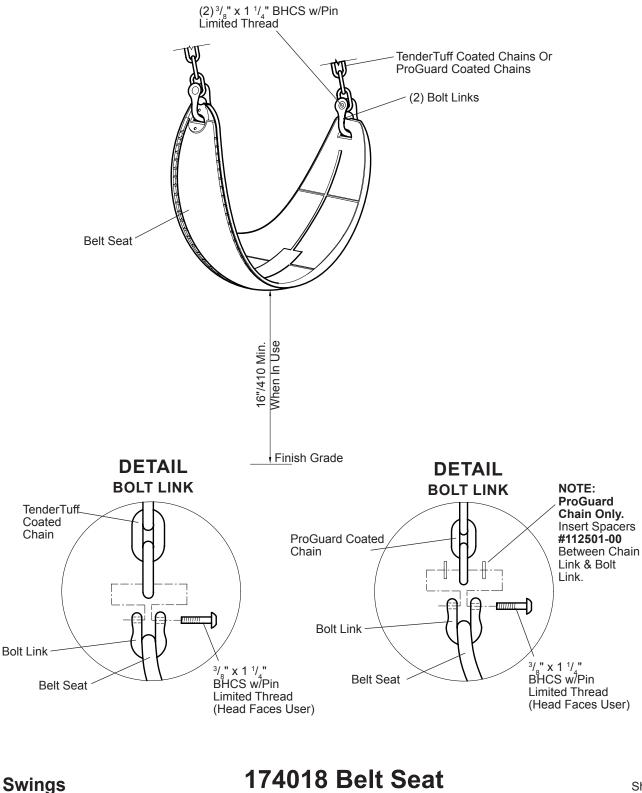
)) Install protective surfacing before users are allowed to play on the structure.





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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 Swings
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 Sheet 1 of 2

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Document #21059100

structures

Swings 174018 Belt Seat

Parts List

Part #	Description	Qty.
128842 178679 175251	7 Ft. High Beam Belt Swing Seat, Black $57 \frac{7}{16}$ Chain, TenderTuff, Specify Color $57 \frac{7}{16}$ Chain, ProGuard	1 2 2
132672 100292 138915 112501	Bolt Link w/Bolt & Spacers	2 2
132635 100292-00 138915	Bolt Link w/Bolt Hardware Package	2
128842 152050 174404	8 Ft. High Beam Belt Swing Seat, Black 67 ⁷ / ₈ " Chain, TenderTuff, Specify Color 67 ⁷ / ₈ " Chain, ProGuard	2
132672 100292 138915 112501	Bolt Link w/Bolt & Spacers	2 2
132635 100292 138915	Bolt Link w/Bolt Hardware Package	2
128842 152052 174884	<u>10 Ft. High Beam</u> Belt Swing Seat, Black 90 ¹¹ / ₁₆ " Chain, TenderTuff, Specify Color 90 ¹¹ / ₁₆ " Chain, ProGuard	2
132672 100292 138915 112501	Bolt Link w/Bolt & Spacers ³ / ₈ " x 1 ¹ / ₄ " BHCS w/Pin Ltd. Thread, SST Bolt Link, SST Chain Spacer	2 2
132635 100292 138915	Bolt Link w/Bolt Hardware Package	2

Specifications

Chain Spacer:	Made from white nylon measuring .080" x .785" O.D.
Chain/ProGuard:	Steel $\frac{3}{16}$ straight link chain, 800 lb. working load limit. Finish: ProGuard.
Chain/Coated:	Steel ³ / ₁₆ " straight link chain, 800 lb. working load limit. Finish: TenderTuff [®] , color specified.
Belt Seats:	Molded from U.V. stabilized black EPDM rubber encapsulating a weldment comprised of a 22 GA (.029") spring stainless steel sheet, and (4) .105" thick stainless steel washers. The belt seat elliptical shape measures 7" wide x 26" long x .700" thick.
Bolt Link:	Stainless Steel.

Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	$\frac{1}{4}$ man hour per seat
Weight:	8 lbs. (7 Ft. Beam w/ProGuard Chains)
	9 lbs. (7 Ft. Beam w/TenderTuff Chains
	8 lbs. (8 Ft. Beam w/ProGuard Chains)
	9 lbs. (8 Ft. Beam w/TenderTuff Chains)
	10 lbs. (10 Ft. Beam w/ProGuard Chains)
	11 lbs. (10 Ft. Beam w/TenderTuff Chains)

Installation

Swing Hangers With Double Clevis

- 1) Attach chains to double clevis using ${}^{3}/{}_{8}$ " x 1 ${}^{1}/{}_{4}$ " BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with ³/₈ x 1 ¹/₄ "BHCS w/ pin limited thread. Be sure bolt heads face user. NOTE: Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

Anti-wrap Swing Hangers

- 1) Attach chains to aluminum clevis using $\frac{3}{8}$ x $\frac{7}{8}$ BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with ³/₈" x 1 ¹/₄" BHCS w/ pin limited thread. Be sure bolt heads face user. NOTE: Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

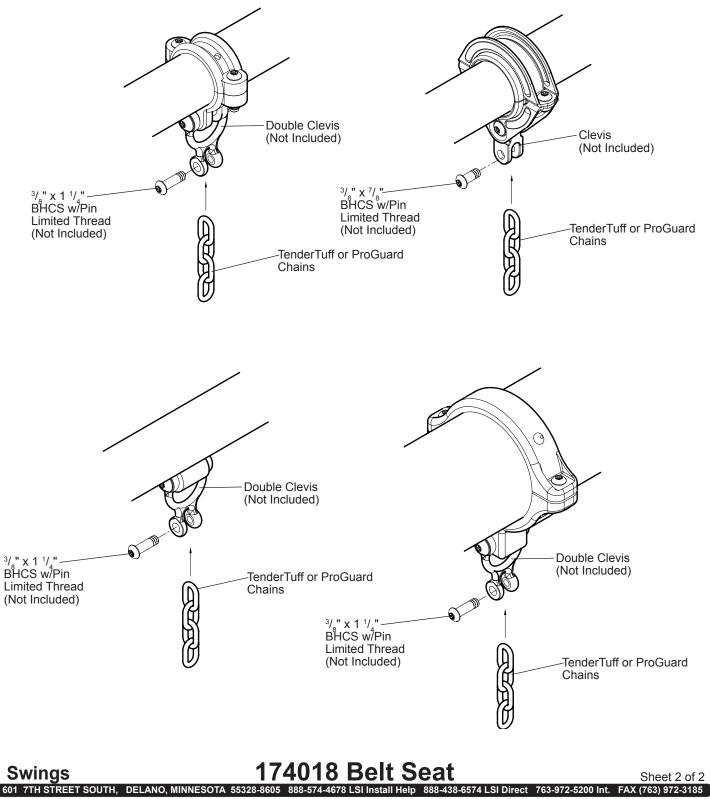




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref.

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SWING HANGER OPTIONS



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landscape structures



Part Number Label

Example

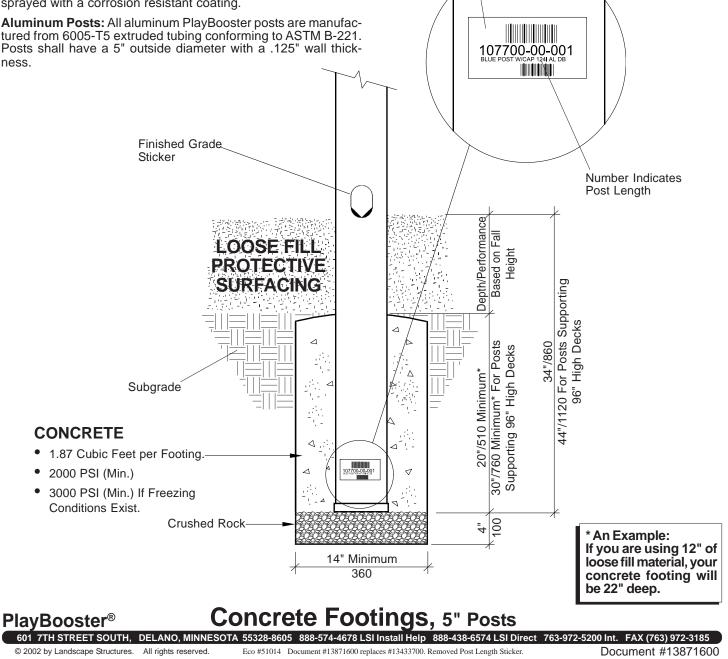
SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487)

13871600

Post Specifications: Post length shall vary depending upon the intended use and shall be a minimum of 42" above the deck height. All posts shall be powdercoated to specified color. All posts shall have a "finished grade marker" positioned on the post iden-tifying the 34" bury line (or 44" bury line for posts for 96" decks) required for correct installation and the top of the loose fill pro-tective surfacing. Top caps for posts shall be aluminum die cast from 369.1 alloy and powdercoated to match the post color. All caps shall be factory installed and secured in place with (3) self sealing rivets. A molded low density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the post to increase the footing area.

Steel Posts: All steel PlayBooster posts are manufactured from 5" O.D. tubing with a wall thickness of .120" and shall be galva-nized after rolling and shall have both the I.D.and the cut ends sprayed with a corrosion resistant coating.

tured from 6005-T5 extruded tubing conforming to ASTM B-221. Posts shall have a 5" outside diameter with a .125" wall thickness

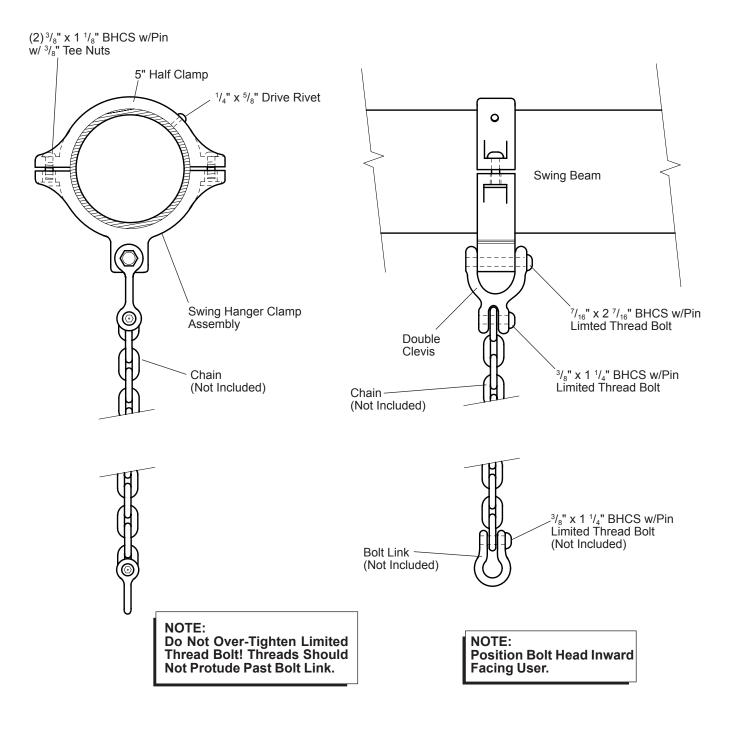






SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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111418 Swing Hanger, Belt Swing 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Swings



Swings 111418 Swing Hanger, Belt Swing

Parts List

Part#	Description	Qty.
105327-01	5" Half Clamp, Specify Color	1
100198-00	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	
100351-00	³ / ₈ " Tee Nut, SST	2
100610-00	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	
100292-00	$3/_8$ " x 1 $1/_4$ " BHCS w/Pin Ltd. Thread Bolt, SST	
121291-00	Swing Hanger Clamp Assy. Specify Color	1
121289-00	Swing Hanger Clamp, Specify Color	1
127068-00	⁷ / ₁₆ " x 2 ⁷ / ₁₆ " BHCS w/Pin Ltd. Thread Bolt, SST	1
138917-00	Swing Hanger Double Clevis SST	1
100667-00	Oilite Bushing	

Specifications

Hanger Clamp Assembly:	Cast aluminum. Finish: ProShield®, color specified.
Double Clevis:	Stainless Steel.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Weight:	Approx. $1/_2$ man hour 6 lbs.

Installation Instructions

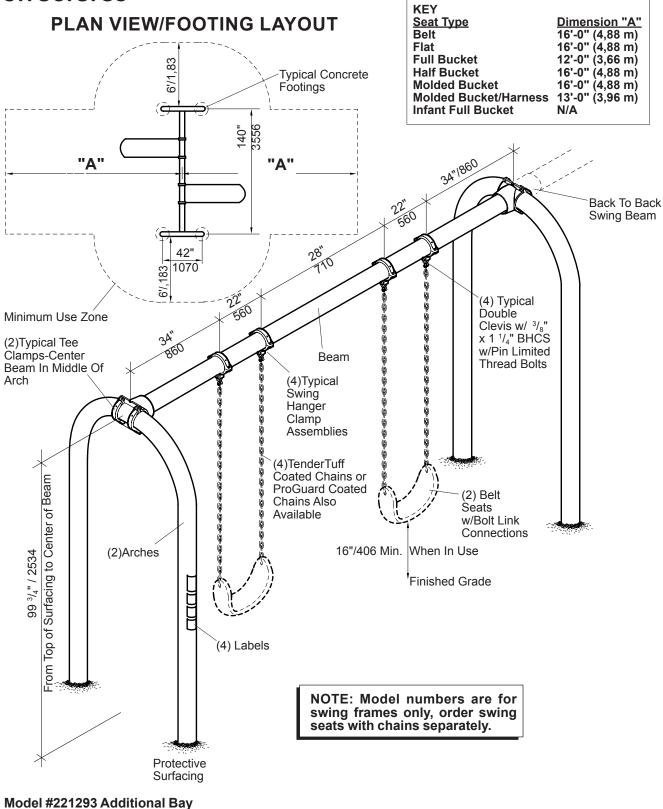
- 1) Locate and mark location of clamp on beam.
- 2) Attach 5" half clamp and swing hanger clamp to beam using 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. *Tighten evenly*.
- 3) IMPORTANT: Drill through holes in 5" half clamps and into 5" pipe with a ¹/₄" or "F" (only) drill bit, tap ¹/₄" x ⁵/₈" drive rivets through 5" half clamps and into pipe, to ensure that clamps remain secure.
- 4) Attach swing chain to double clevis using ³/₈" x 1 ¹/₄" BHCS w/pin limited thread bolts.
- 5) Attach swing seat to chains using bolt links with ³/₈" x 1 ¹/₄" BHCS w/pin limited thread bolts. **NOTE:** *Do not over-tighten limited thread bolt. Threads should not protrude past bolt link. Position bolt head inward facing user.*

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SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

18448000







Swings 221292/221293 Arch Swing Frame

Parts List

Part#	Description	Qty.
		2 PI Add. Bay
126749	Swing Arch, Specify Color	2 1
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	
105327	5" Half Clamp, Specify Color	8 4*
216492	140" Swing Beam, Specify Color	
121291	Swing Hanger Clamp Assy. Specify Color	4 4
121289	Swing Hanger Clamp, Specify Color	
127068	⁷ / ₁₆ " x 2 ⁷ / ₁₆ " BHCS w/Pin Ltd. Thread, SST	4 4
138917	Swing Hanger Double Clevis	4 4
100667	Oilite Bushing	4 4
184227	Arch Swing 5" O.D. Beam Hardware Pkg	1 1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	8 8
113027	3/8" x 1 3/8" BHCS w/Pin, SST	8 8
100292	³ / ₈ " x 1 ¹ / ₄ "BHCS w/Pin Ltd. Thread, SST	4 4
100351	³ / ₈ " Tee Nut, SST	16 16
156846	Play Safe Label, 2-12 Yrs	1 1
128296	³ / ₈ " Hex Jam Nut, SST	8 8
182213	Hot Surface Warning Label	1
182212	Entanglement Warning Label	1
115176	Hard Surface Warning Label	1

* = 5" Half Clamps From 2 PL. End Of Beam Need To Be Used.

Specifications

Arch Posts:	See PlayBooster [®] (PB) General Specifications.
Swing Beam:	Weldment comprised of tee clamps and 5" O.D. extruded 6005-T5 aluminum alloy tube with a .125" wall. Finish: ProShield [®] , color specified.
Clamp:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 8 man hours Additional Bay 4 man hours
Concrete Req.:	Approx. 7.5 cu. ft.
Area Req.:	Additional Bay 3.75 cu. ft. 24'-2 ³ / ₄ " x 32' (7,39 m x 9,75 m) Additional Bay 11'-8" x 32' (3,55 m x 9,75 m)
Weight:	204 lbs.
Fall Height:	Additional Bay 124 lbs. 96" (2,43 m)

Installation Instructions

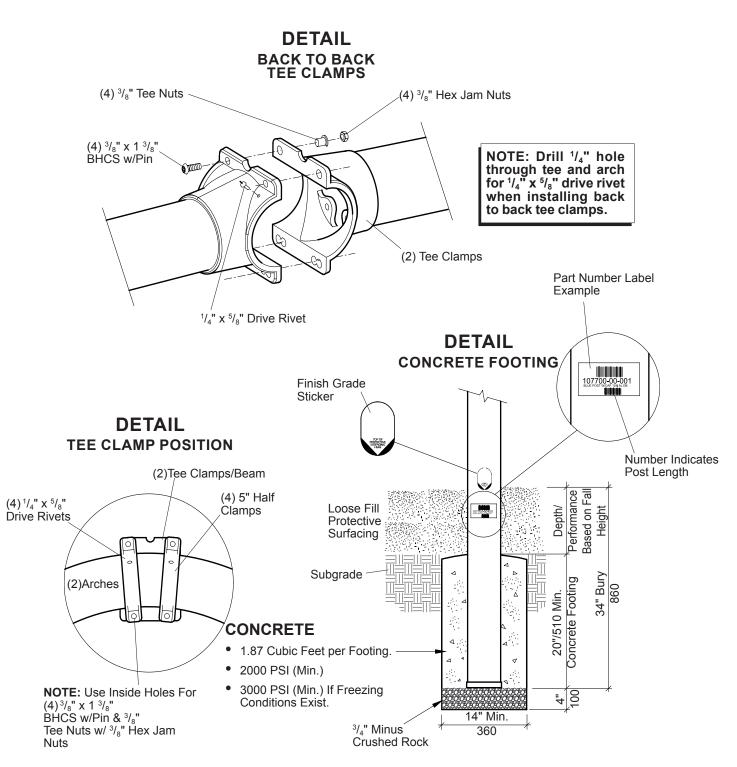
- 1) Dig footings, spaced as shown. Refer to the Concrete Footing Detail.
- 2) Set arches in footing holes and attach swing beam to center of arches using 5" half clamps with 3_8 " x 1 3_8 " BHCS w/pin and 3_8 " tee nuts with 3_8 " hex jam nuts. Refer to the Tee Clamp Position Detail. Center of beam should be 99 3_4 " above finished grade. When installing back to back swing beams refer to the Back To Back Tee Clamps Detail.
- 3) Level beam and plumb arches and temporarily prop in position. Pour concrete footings and let cure for 72 hours before proceeding.
- Locate, mark and attach swing hanger clamps to beam in locations shown. Refer to the Typical Swing Hanger Clamp Spec Sheet.
- 5) **NOTE:** *Refer to specific swing seat installation document for attaching chains and seats.*
- Install ¹/₄" x ⁵/₈" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet. Refer to the Back To Back Tee Clamps Detail.
- 7) Apply Play Safe and Warning Labels, as shown.
- Install protective surfacing before users are allowed to play on the swing.





SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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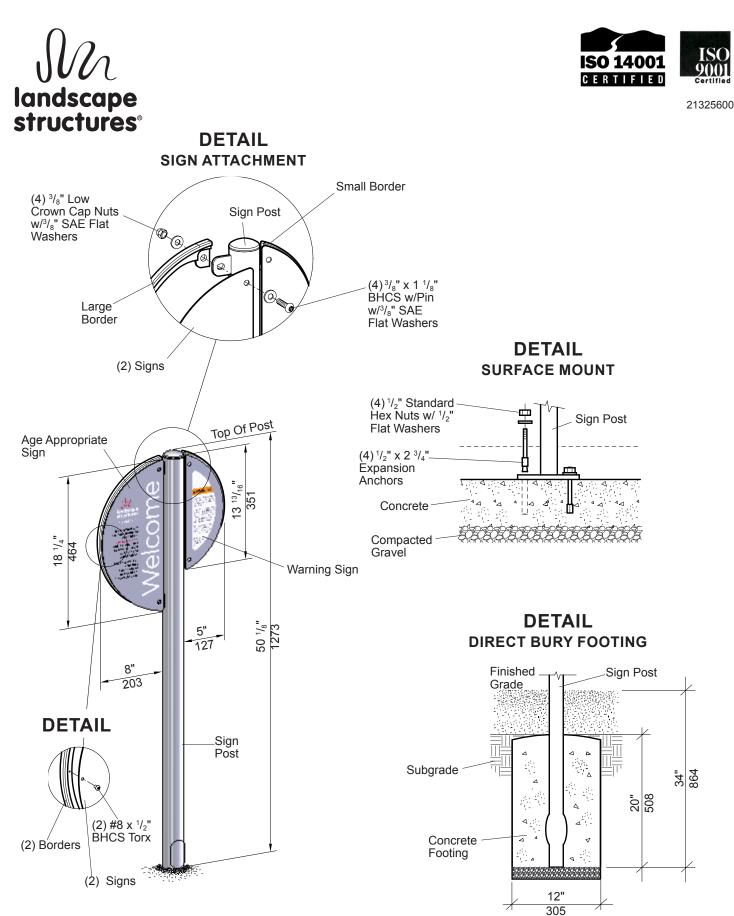


221292/221293 Arch Swing Frame

Sheet 2 of 2

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Swings



Model 182503 - Landscape Structures Provided Welcome Sign Model 182504 - Welcome Sign

Welcome Sign Signs 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185 © 2016 by Landscape Structures. All rights reserved. Document #22074200

Welcome Sign

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Parts List

		1
Part#	Description	Qty.
219911	Warning Sign,Gray	1
219912	Age Appropriate Sign, 2-12 Years, Gray	*
219913	Age Appropriate Sign, 2-5 Years, Gray	*
219914	Age Appropriate Sign, 5-12 Years, Gray	*
219915	Age Appropriate Sign, 1 1/2-5 Years, Gray	*
219916	Age Appropriate Sign, 1 1/2-12 Years, Gray	*
219918	Age Appropriate Sign, 6-23 Months, Gray	*
180598	Sign Post (DB), Specify Color	*
181119	Sign Post (SM), Specify Color	*
193782	Large Border, Black	1
193783	Small Border, Black	
213258	Age/Warning Sign Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	
100349	3/8" Low Crown Cap Nut, SST	4
100365	3/8" SAE Flat Washer, SST	
168323	#8 x 1/2" BHCS Torx, SST	2
169413	1/4-6 Lobe T-15 Tamp. Bit	
121348	4 Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor	
100322	1/2" Standard Hex Nut, SST	4
100363	1/2" Flat Washer, SST.	
DB = Direct Bury		
SM = Surface Mount		
* = Quantity Determined By Your Order		
- •	•	

Specifications

Sign Panel:	Panel is fabricated from $\frac{1}{8}$ " (.125")(3,17 mm) alumi- num plate. Finish: ProShield [®] , gray in color. (Sign) Digital image is transfered to a $\frac{1}{8}$ " (.125")(3,17 mm) ProShield coated aluminum plate, then infused into the ProShield.
Border:	Permalene, black in color.
Post:	Weldment comprised 2.375" (60,33 mm) O.D. RS20 (.095105) (2,41 mm-2,67 mm) wall galvanized tube, $1/4$ " (6,35 mm) HRPO steel sheet and aluminum post cap. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tam- perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time: Concrete Req: Weight:	(DB) Approx. 1 man hour (SM) Approx. ¹ / ₂ man hour Approx. 1.31 cu. ft. (DB) - 24 lbs. (SM) - 27 lbs.

Installation Instructions

Direct Bury

- 1) Dig footing hole to depth and diameter shown.
- 2) Attach sign panels and borders to post as shown, using ³/₈" x 1¹/₈" BHCS with ³/₈" SAE flat washers and ³/₈" low crown cap nuts with ³/₈" SAE flat washers. Attach signs to borders using #8 x ¹/₂" BHCS Torx.
- 3) Set sign assembly in footing hole and temporarily brace in plumb position.
- 4) Pour concrete footing. After concrete has cured, remove bracing.

Surface Mount

- Attach sign panels and borders to post as shown, using ³/₈" x 1¹/₈" BHCS with ³/₈" SAE flat washers and ³/₈" low crown cap nuts with ³/₈" SAE flat washers. Attach signs to borders using #8 x ¹/₂" BHCS Torx.
- 2) With sign in proper position, using a 1/2" masonry bit and hammer drill, drill 3" deep holes into concrete slab through holes in post plate. Tap 1/2" x 2 3/4" expansion anchors into holes and secure using 1/2" standard hex nuts with 1/2" flat washers.