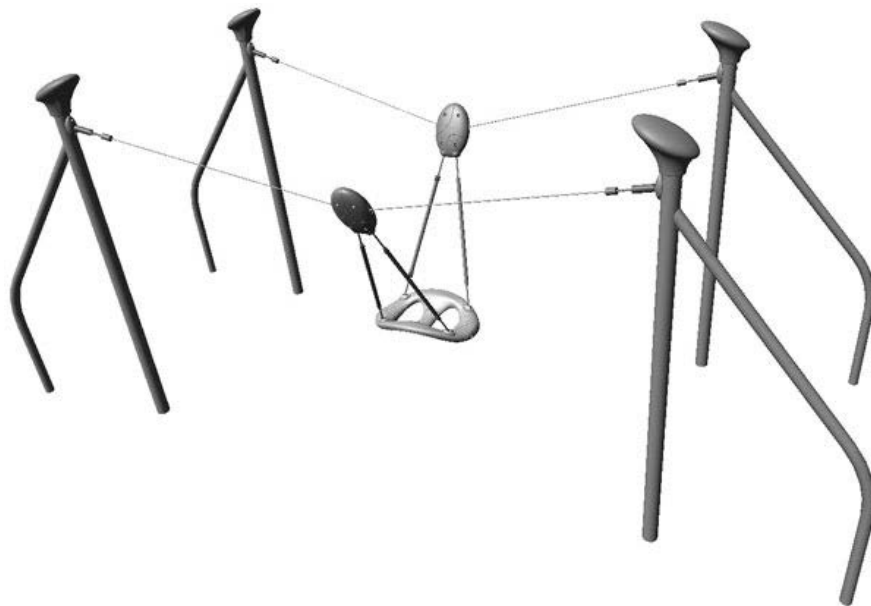
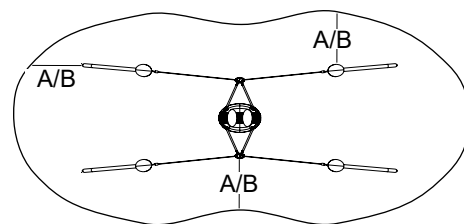


Installation Instructions

Playworld Systems® Model XX0355
Cruise Line



Assembly View


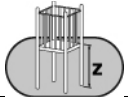

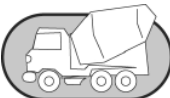





Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
(EN) 1500 mm
B - (CSA) 1800 mm

Installation Preparation

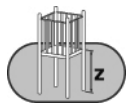
Recommended Crew: Four (4) adults
Installation Time: 18 man-hours
Concrete Required: 6.65 cubic yards (5,06 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY

	Fully Tighten Hardware		Critical Fall Height
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		

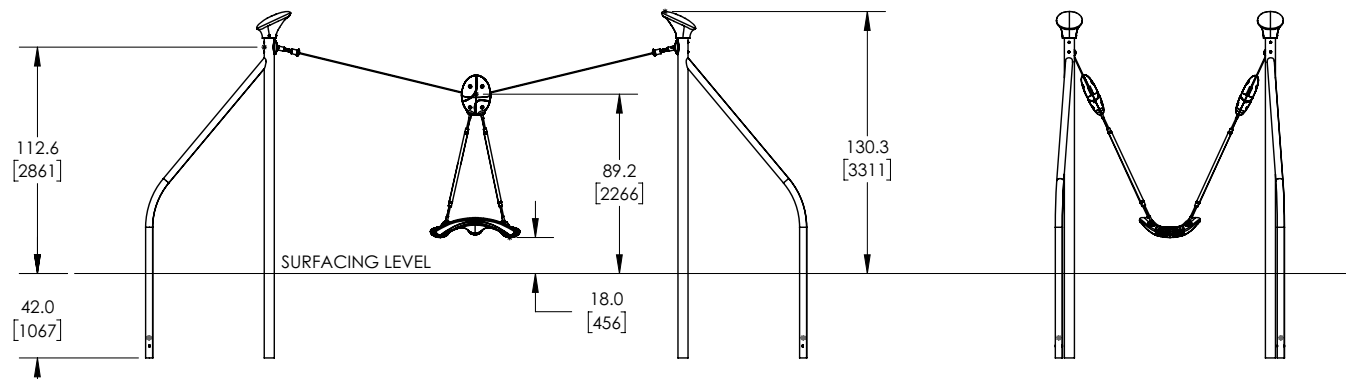
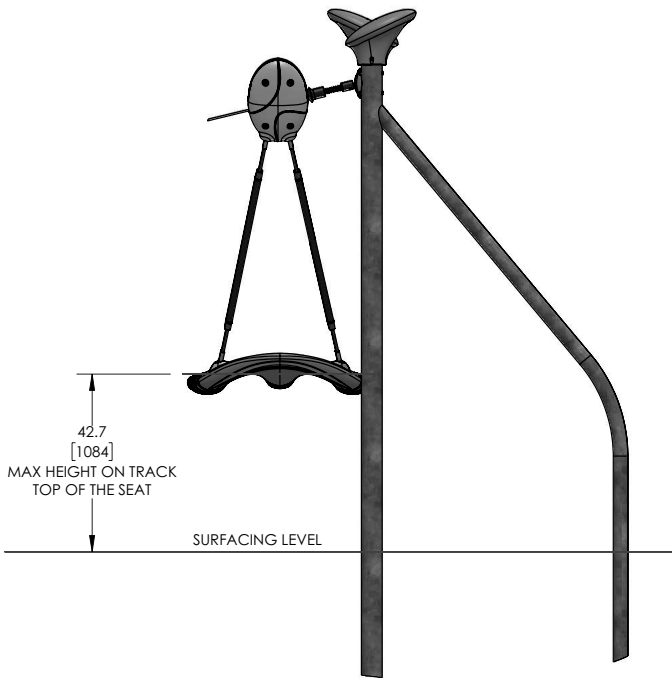
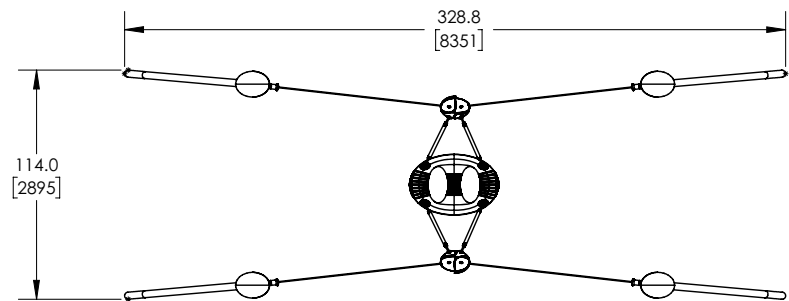
Installation Instructions

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



Critical Fall Height:
ASTM F1487: 106.7" (2710 mm)
CSA-Z614: 686 mm
EN1176: 686 mm

Top View



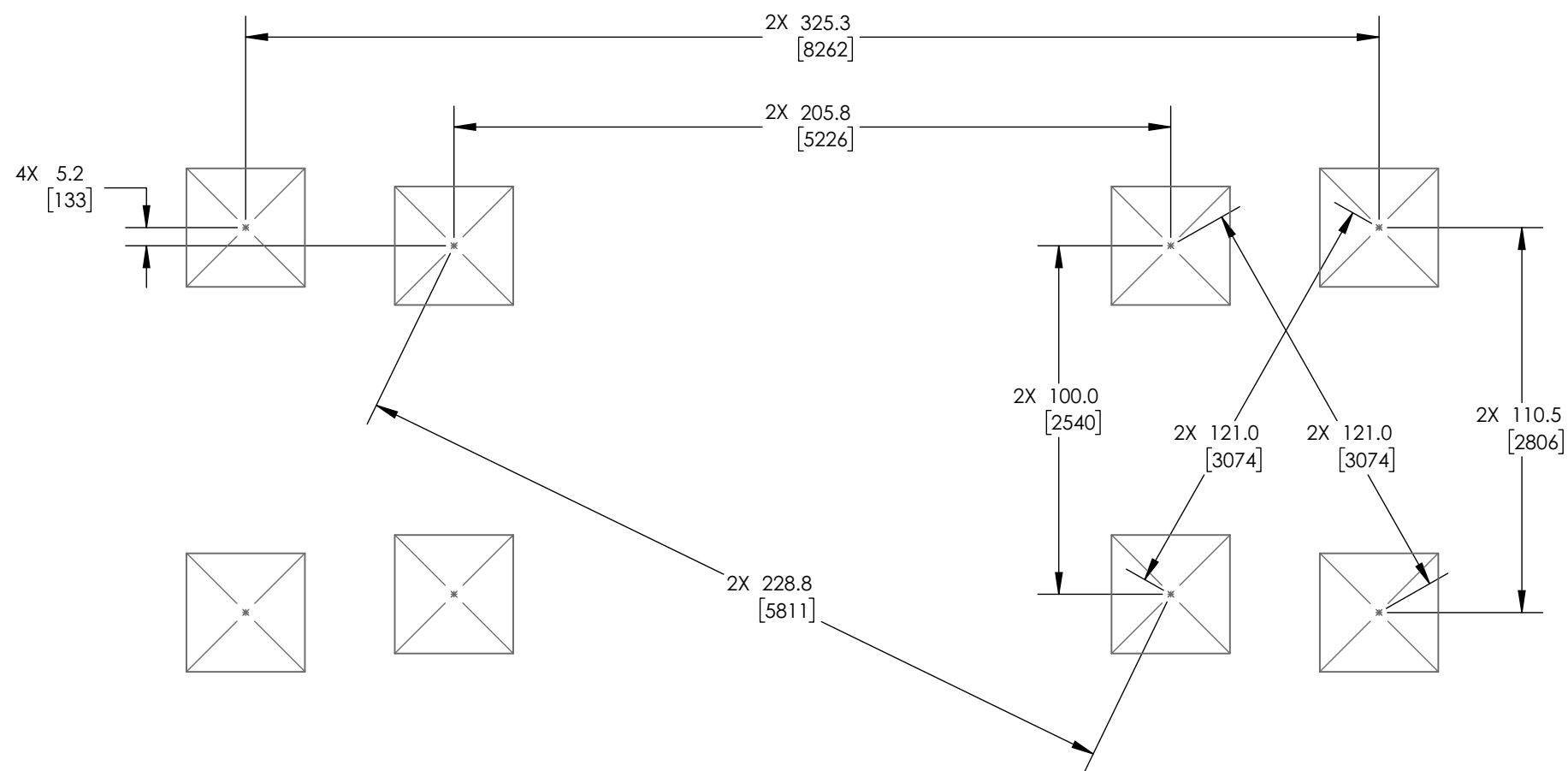
Elevation Views



Installation Instructions

Important Note: Make sure the footings are laid out and spaced as shown in this **Footing Diagram**.

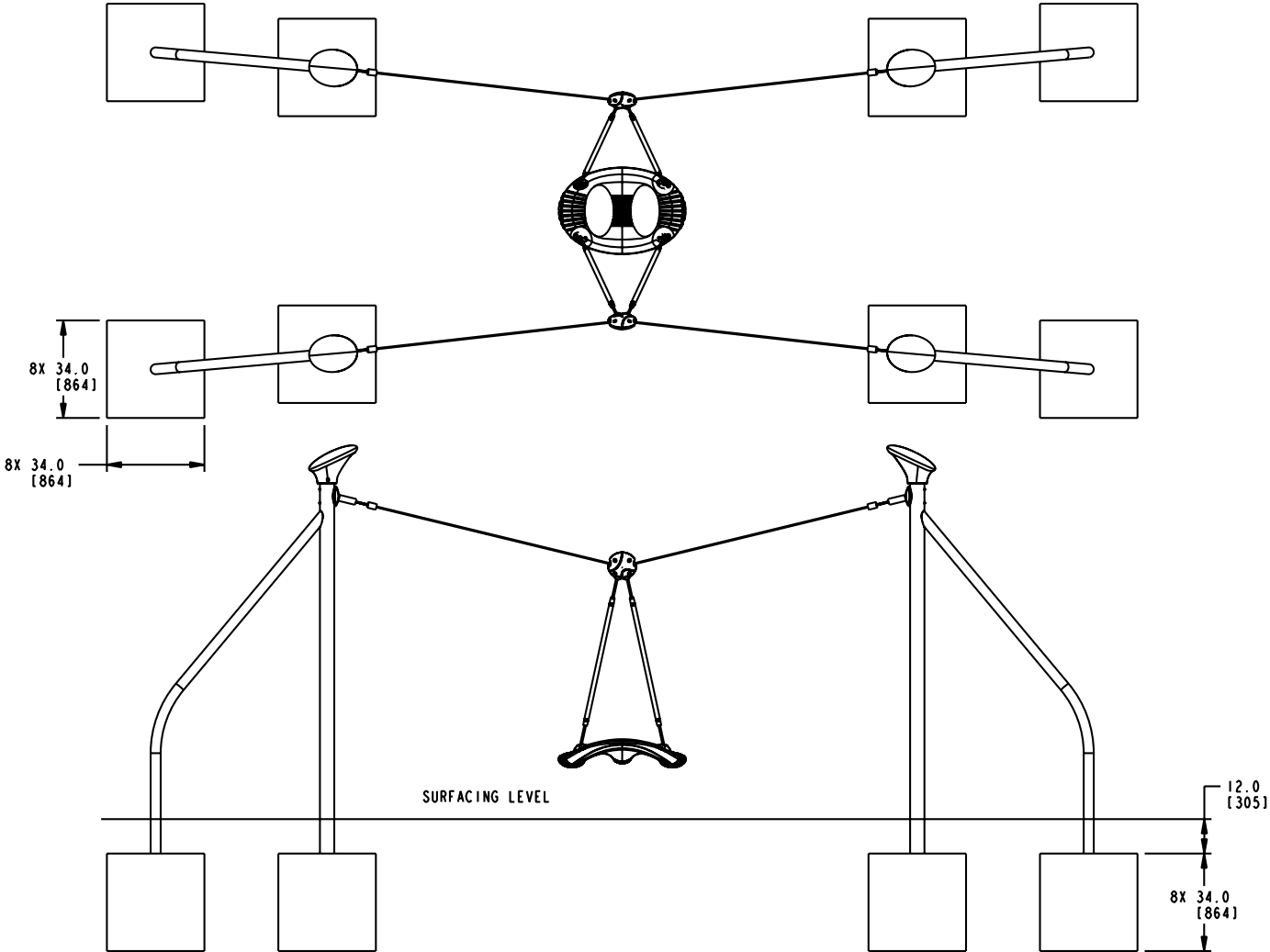
KEY	
Position	Unit of Measurement
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram #1 - Top View

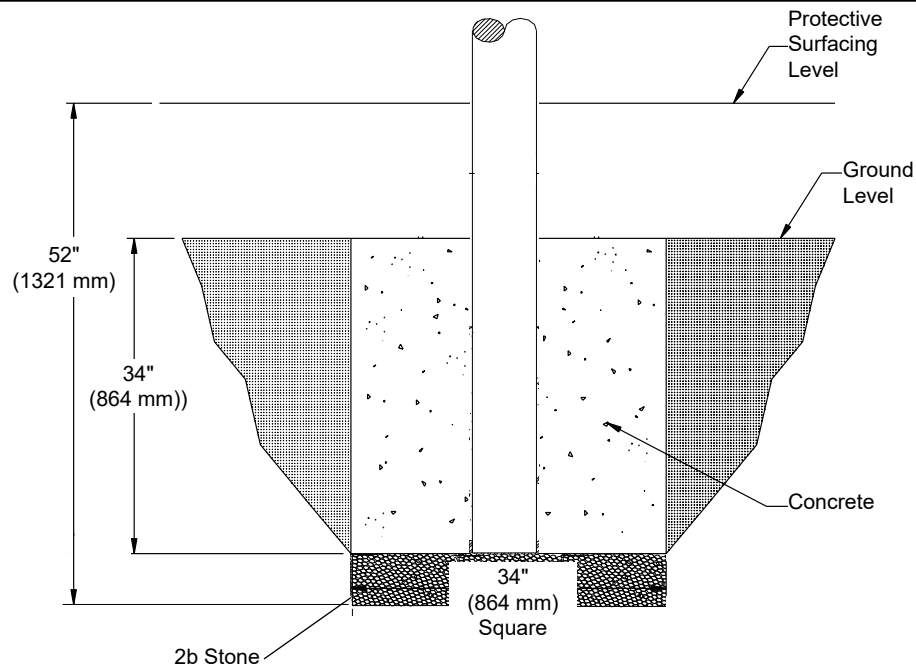
Installation Instructions

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



Footings Diagram #2 - Side View and Top View

Installation Instructions



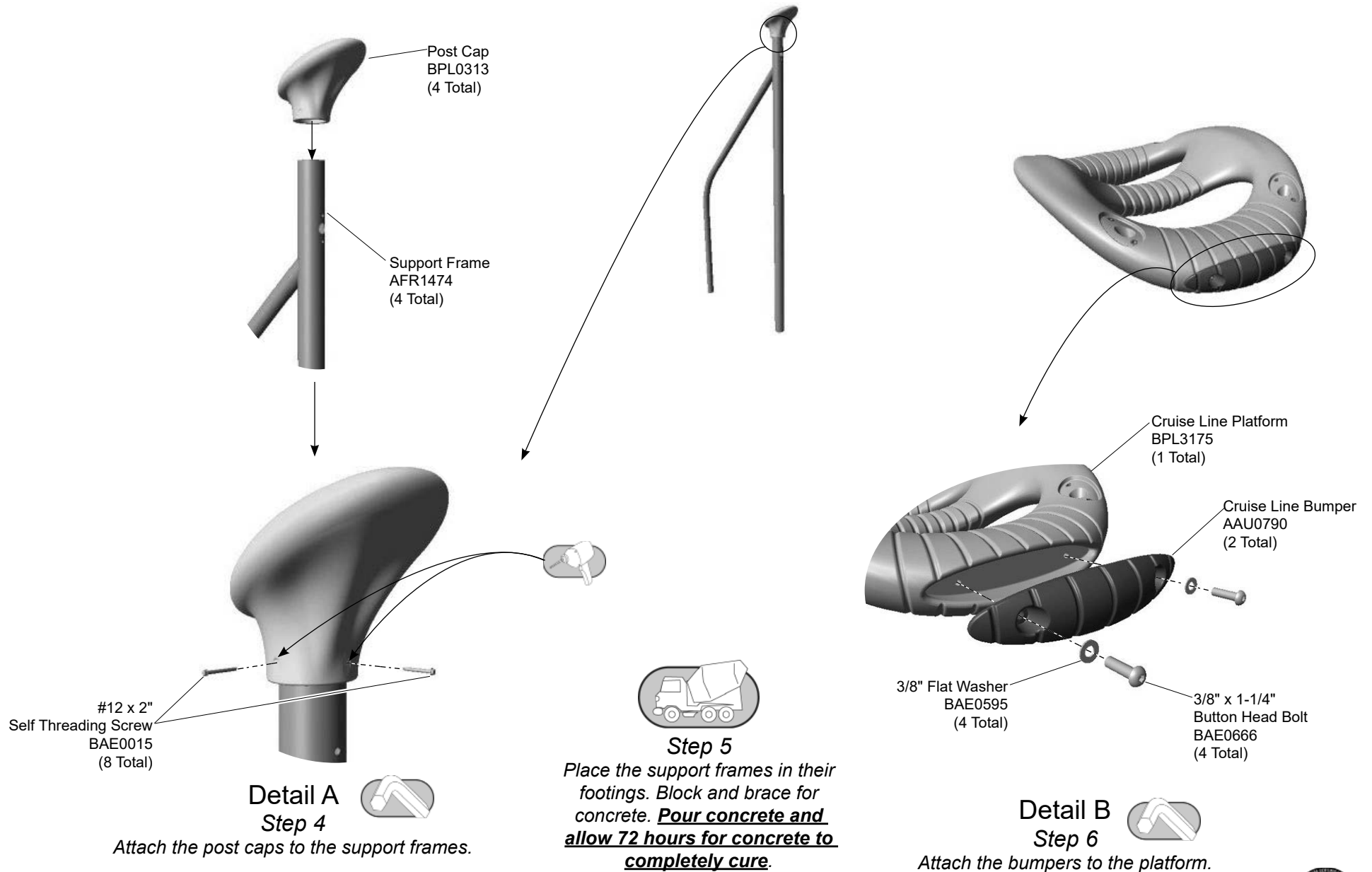
Support Post Footing Detail

FOOTING NOTES

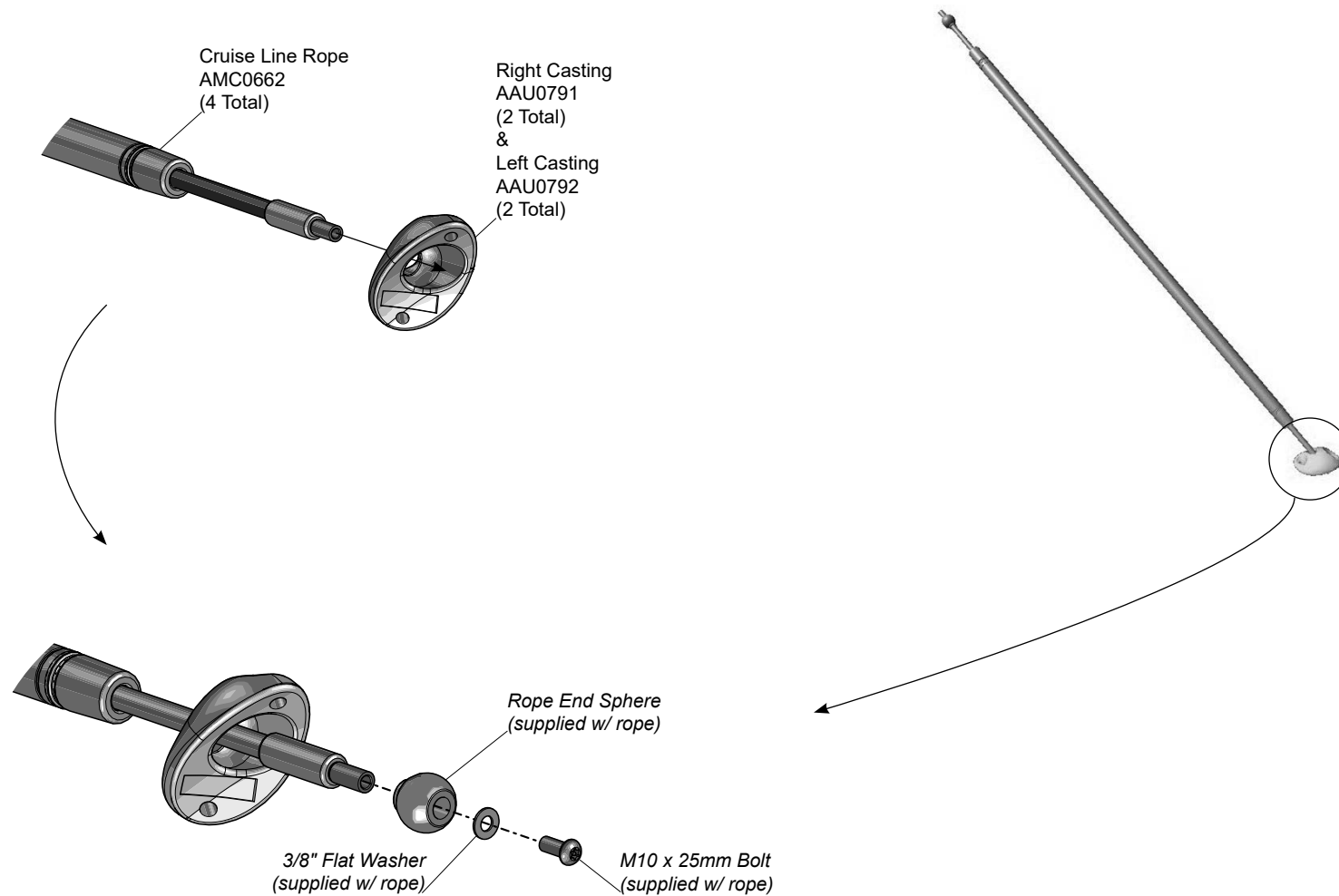
- Support post footing depth equals 52 in. (1321 mm) less the depth of the protective surfacing material. The post is designed to have 34" (864 mm) in concrete.
- Some support posts and component support legs may have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone or porous block.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
For example:
 - If local soil is loose or unstable, a larger footing may be required.
 - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 13.



Installation Instructions

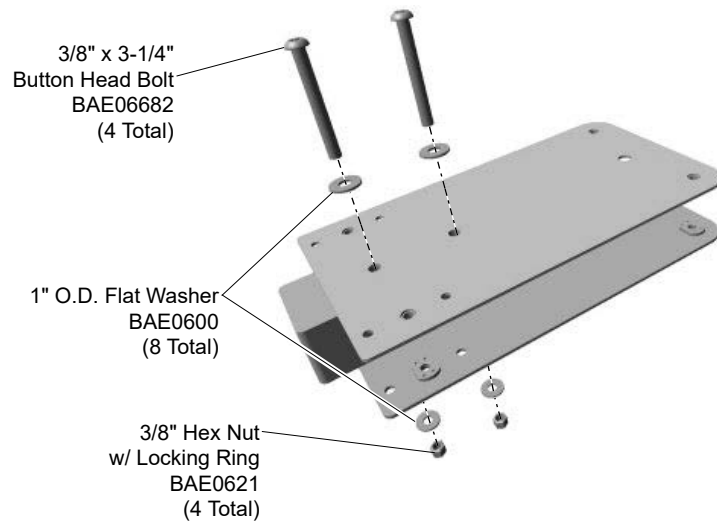
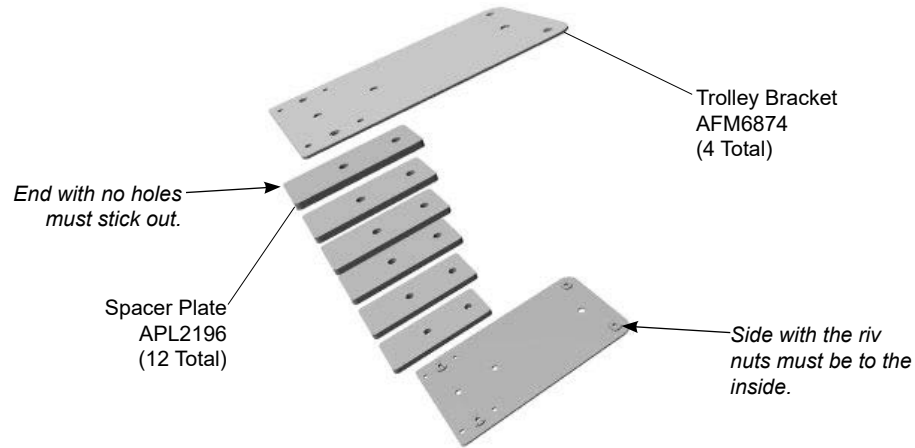


Detail C

Step 7

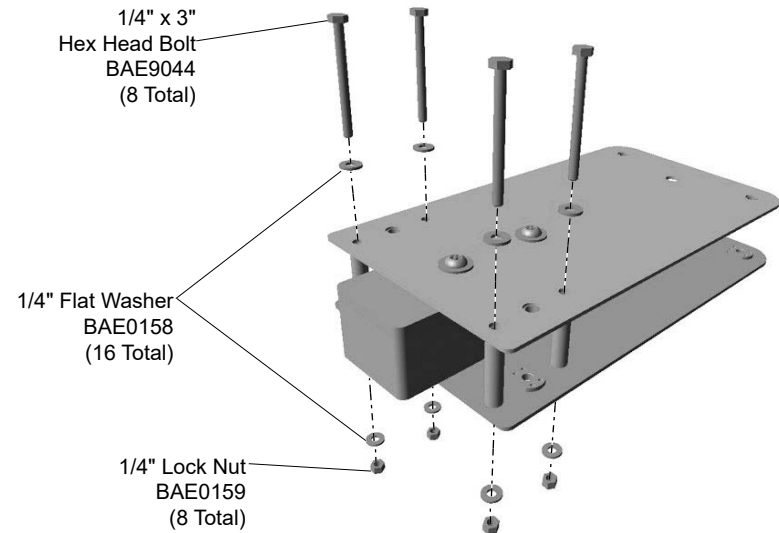
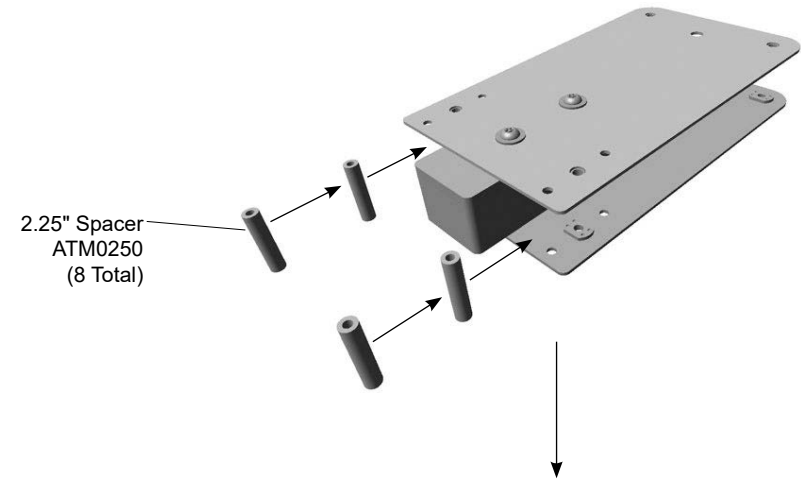
Place one end of each rope through a left or right platform casting.

Installation Instructions



Detail D-1

Attach the spacer plates to the trolley brackets.



Detail D-2

Attach the 2.25" spacers to the trolley brackets.

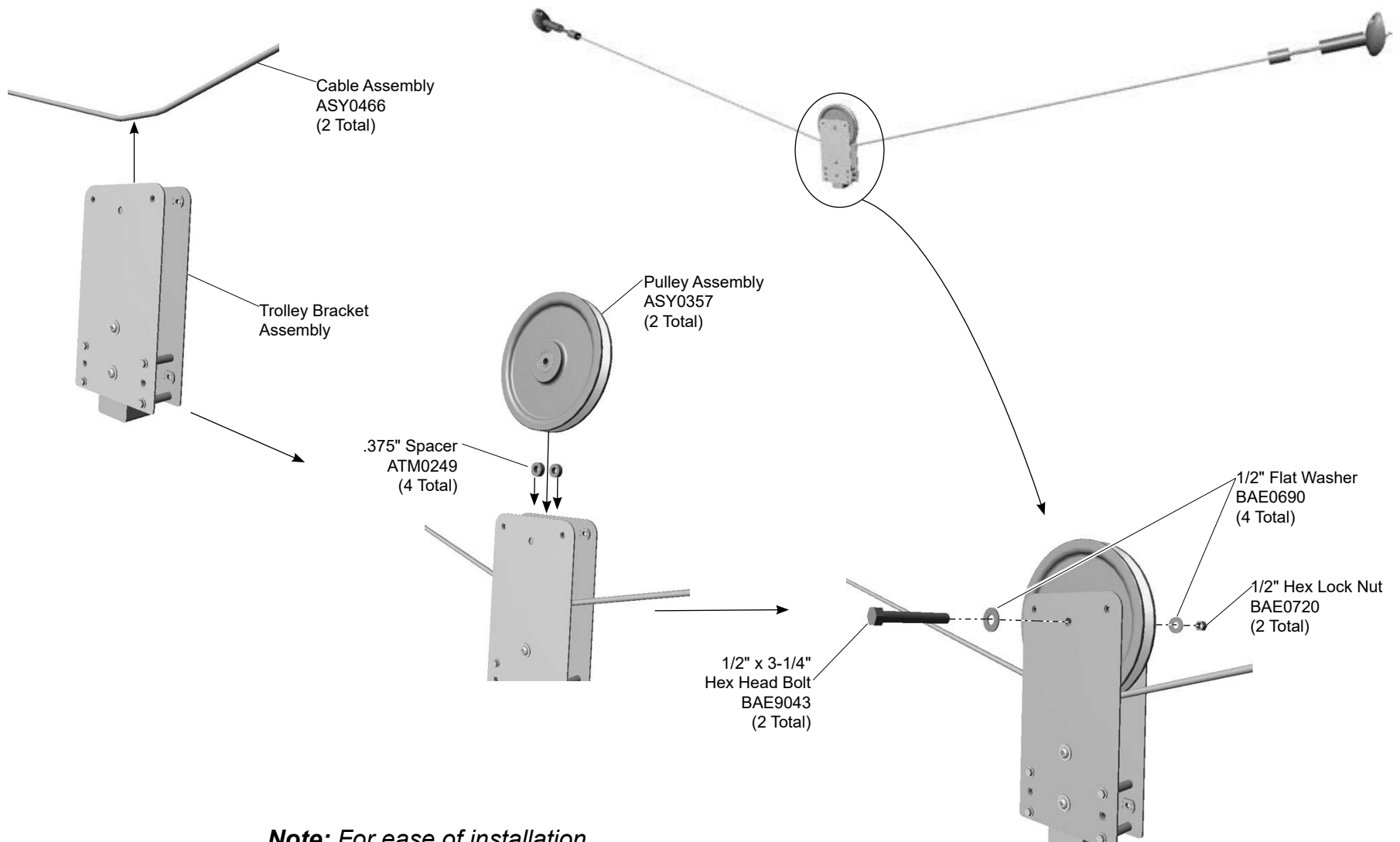
Details D-1 and D-2

Step 8

Attach the spacers to the trolley brackets.



Installation Instructions



Note: For ease of installation,
attach the trolleys to the cable
wire on the ground.

Detail E
Step 9

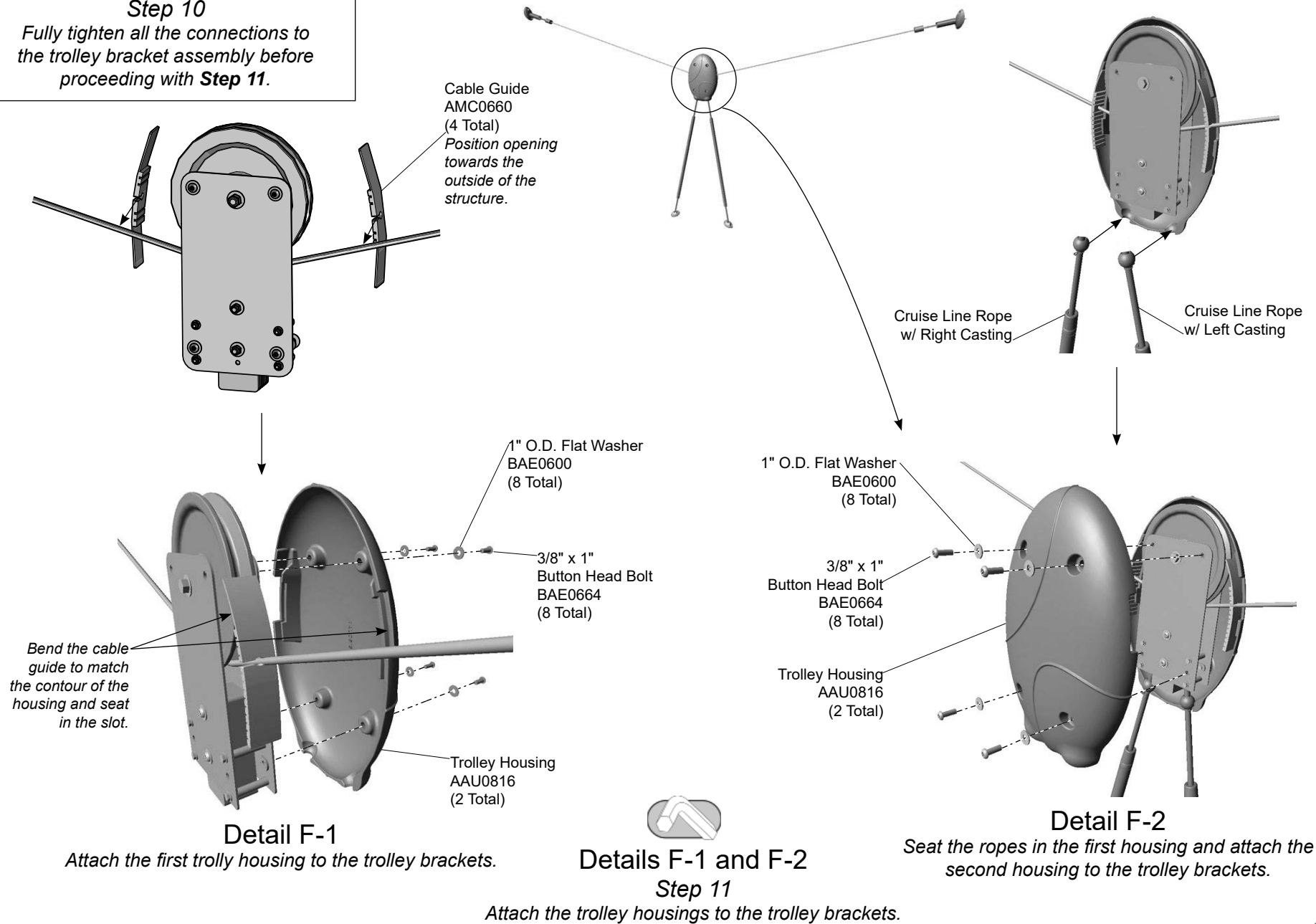


Attach the pulley to the trolley bracket assembly.

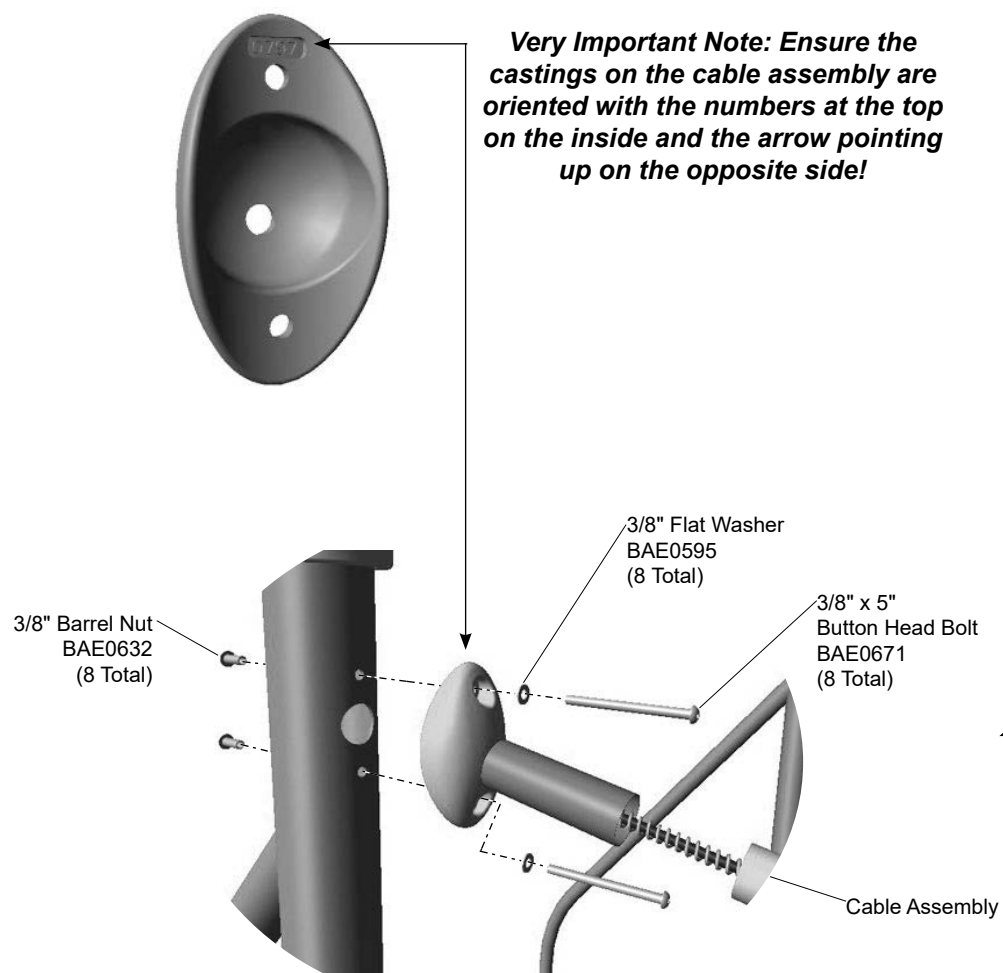
Installation Instructions

Step 10

Fully tighten all the connections to the trolley bracket assembly before proceeding with **Step 11**.



Installation Instructions



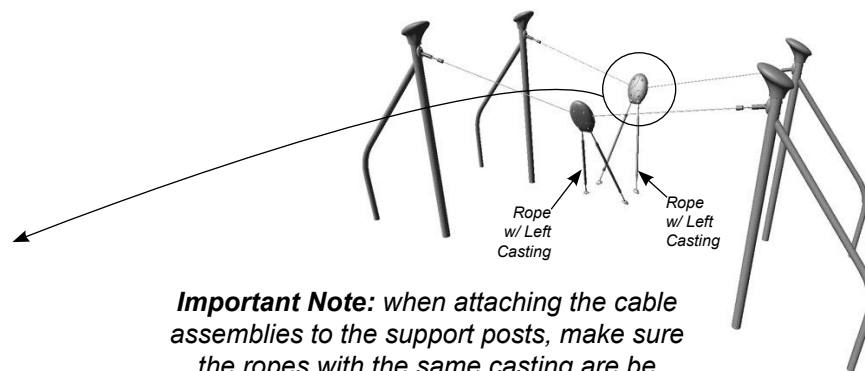
Very Important Note: Ensure the castings on the cable assembly are oriented with the numbers at the top on the inside and the arrow pointing up on the opposite side!

Detail G Step 12



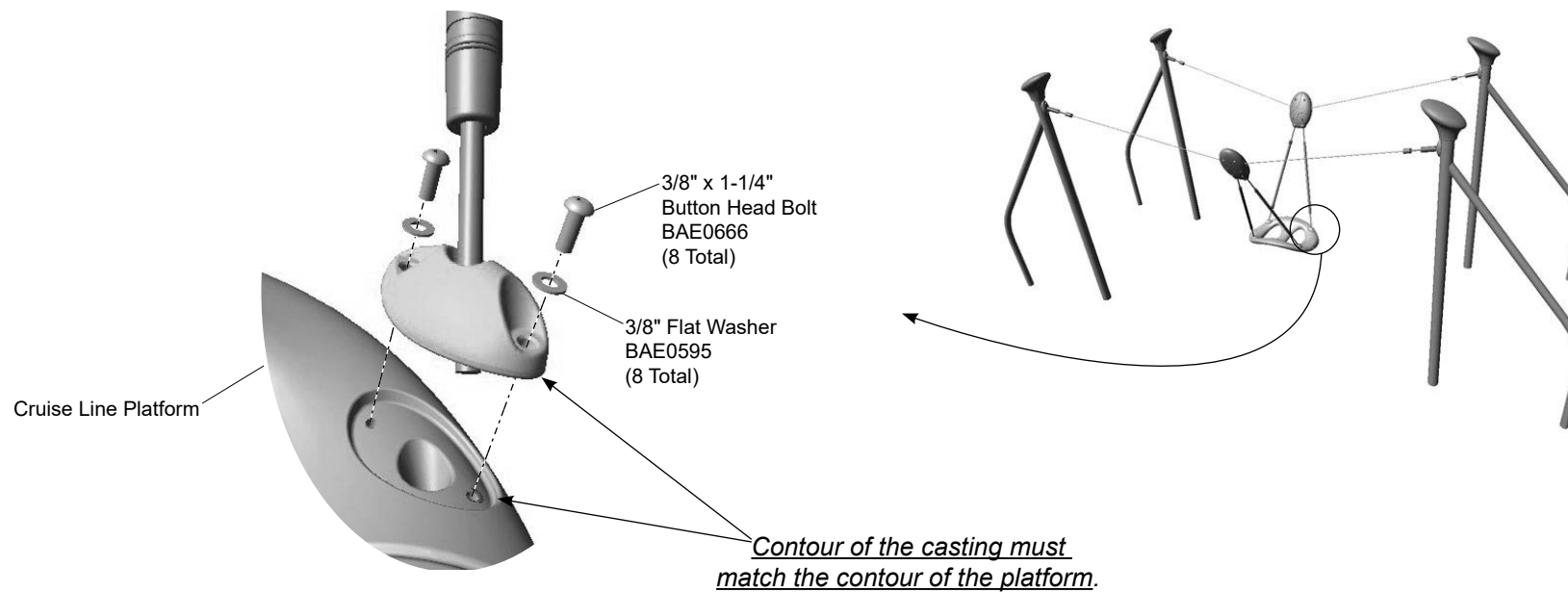
Note: Use of a 7 ft. or 8 ft. step ladder will be needed to perform this step.

Attach the cable assemblies to the support frames.
Important Note: Ensure the support frames are properly footed before beginning this step!



Important Note: when attaching the cable assemblies to the support posts, make sure the ropes with the same casting are be diagonally across from each other (See reference above).

Installation Instructions



Detail H
Step 13

Attach the platform to the ropes.



Installation Instructions

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

Carefully read and understand these installation instructions before you begin.

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

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Support Post Footing Detail** on the page 5 of this document. Make sure the footings are laid out and spaced as shown in this **Footing Diagram**.

Step 4: Attach the post caps to the support frames. See **Detail A**. Place each cap on top of a support frame so they point inward when the frames are placed in their footings. Ensure the caps are fully seated on the frames. Use the supplied 3/16" drill bit to drill through the cap and support frame using the indents in the cap as a guide. Thread each screw through the cap and into the support frame. 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 5: Place the footing frames in their footings. Block and brace for concrete. **Pour concrete and allow 72 hours for concrete to completely cure.**

Step 6: Attach the bumpers to the platform. See **Detail B**. Position a bumper against each end of the platform, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Step 7: Place one end of each rope through a left or right platform casting. See **Detail C**. Attach the rope end spheres as shown.

Step 8: Attach the spacers to the trolley brackets. See **Details D-1 and D-2**. Sandwich the spacer plates between the trolley brackets and attach as shown. Insert the 2.25 in. spacers between the brackets and attach as shown.

Note: For ease of installation, attach the trolleys to the cable wire on the ground.

Step 9: Attach the pulley to the trolley bracket assembly. See **Detail E**. Place a cable into the open end of each bracket assembly and then insert the spacers and a pulley. Spacers will seat in the middle of the pulley. Align the holes and attach as shown.

Step 10: Fully tighten the trolley mounting bracket connections before attaching the pulley housings beginning in the next step.

Step 11: Attach the trolley housings to the trolley brackets. See **Detail F-1 and F-2**. Place a cable guide on the cable on each side of the trolley brackets making sure the opening is towards the outside of the structure. Place the housing against one side of the bracket assembly, bend the cable guide to the contour of the housing and seat in the designated slot of the housing. Attach the housing to the bracket assembly as shown. Seat the open ends of the cruise line ropes in the trolley housing. Each housing should have one rope with a right casting and one rope with a left casting. Position the remaining trolley housing to the other side of each trolley bracket assembly, and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Step 12: Attach the cable assemblies to the support frames. See **Detail G**. Position the cable assemblies between the support posts making sure the ropes with the same casting are be diagonally across from each other when the cable assemblies are hung between the posts (see the reference next to the detail). Position the casting on the end of each cable over the holes in the top of the support frames and attach as shown. **Ensure the castings on the cable are oriented with the numbers at the top before making the connection!** Fully tighten all fasteners according to tightening torque specifications.

Note: Use of a 7 ft. or 8 ft. step ladder will be needed to perform this step.

Step 13: Attach the platform to the ropes. See **Detail H**. Lift the platform up to accept the castings on the end of the ropes, and attach as shown. Ensure that the contour of the casting matches the contour of the indentation in the platform. Fully tighten all fasteners according to tightening torque specifications.

Step 14: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the side panel at eye level.

XX0355 - CRUISE LINE

PART NO.	DESCRIPTION	QTY.
AAU0790	BUMPER - CRUISE LINE	2
AAU0791	CASTING - 5.04" x 3.36" x 2.06" (RIGHT)	2
AAU0792	CASTING - 5.04" x 3.36" x 2.06" (LEFT)	2
AAU0816	CASTING - CRUISE LINE TROLLEY COVER	4
AFM6874	FAB METAL - 14.25" x 8.00" x .28"	4
AFR1474	CRUISE LINE FRAME	4
AMC0660	GUIDE - 10.00" x 1.70" x .375" - UHMW	4
AMC0662	ROPE - CRUISE LINE	4
APL2196	PLATE - 2.88" x 7.00" x .38"	12
ASY0357	ASSEMBLY - CRUISE LINE WHEEL	2
ASY0466	CRUISE LINE CABLE ASSEMBLY	2
ATM0249	SPACER - 1.00" O.D. x .375"	4
ATM0250	SPACER - .50" O.D. x 2.25"	8
BAE0015	SCREW - SELF THREADING #12-14 x 2.00"	8
BAE0158	WASHER - 1/4" SAE FLAT	16
BAE0159	NUT - 1/4"-20 HEX LOCK w/o NYLON CAP	8
BAE0595	WASHER - 3/8" SAE FLAT	20
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0621	NUT - 3/8"-16 ZINC HEX w/LOCKING RING	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	8
BAE0664	BOLT - 3/8"-16 x 1.00" BUTTON HEAD - SS	16
BAE0666	BOLT - 3/8"-16 x 1.25" BUTTON HEAD - SS	12
BAE0671	BOLT - 3/8"-16 x 5.00" BUTTON HEAD - SS	8
BAE0690	WASHER - .531" I.D. x 1.250" O.D. x .060" THICK	4
BAE0720	NUT - 1/2"-13 LOCK	2
BAE0900	WRENCH - 5/32" SHORT HEX KEY	1
BAE0906	TOOL - 5/16" SHORT HEX KEY WRENCH	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
BAE06682	BOLT - 3/8"-16 x 3.25" BUTTON HEAD - SS	4
BAE9043	BOLT - 1/2"-13 x 3.25" HEX HEAD	2
BAE9044	BOLT - 1/4"-20 x 3.00" HEX HEAD	8
BPL0313	CAP - PM - ADVENTURE	4
BPL3175	PLATFORM - CRUISE LINE	1
ASY0590	LABEL KIT - 5 YRS - 12 YRS ASTM, CSA, FRENCH	1



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playworld.com

Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Plastic Parts

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

Castings

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

Welds

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

Finish

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

Footings

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

Surfacing

- Raking loose-fill surfacing material back into dug out and displaced areas is necessary at frequent intervals to maintain the impact absorption qualities.
- Loose-fill materials must be replenished when the surface level drops below the minimum level to maintain proper depth in accordance with your equipment's critical fall height.
- Eliminate areas of standing water by improving site drainage.
- Contact manufacturer of unitary surfacing material for specific instructions and product to use for cleaning spots and stains.
- Contact manufacturer of unitary surfacing material if rips, tears or missing material is noticed. Follow the manufacturer instructions regarding the appropriate actions necessary for the repair.

Labels

- Inspect all applied labels to ensure labels are secure, not faded or damaged. Contact your local representative if replacement labels are needed

Replacement Parts

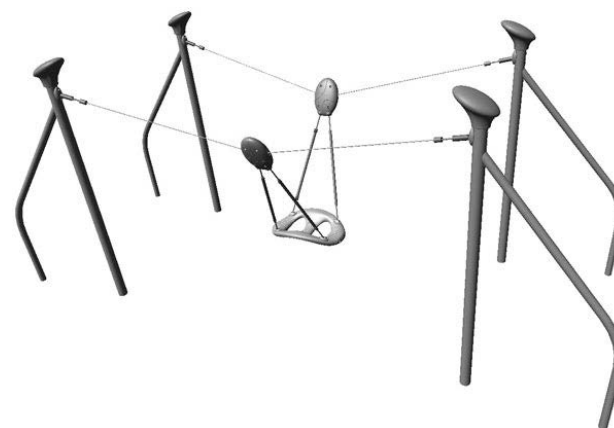
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems®

Model XX0355

Cruise Line



Inspection Form

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

Preventive Maintenance ... for Safety's Sake!

INSPECTION CHECKLIST

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

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

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

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

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