

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

Installation Guidelines

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

(ASTM / CSA)

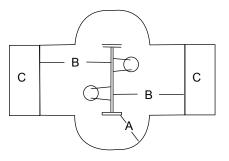
- For the multi-user seat, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use 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.
- 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.

Multi-User Seat Swing Zones

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)



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(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.

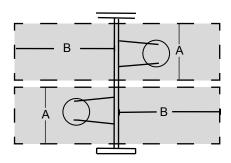
The impact area on both sides of top rail = $(0.867 \times Distance)$ from pivot point to seat) + <u>either</u> 1750 mm if unitary surfacing <u>or</u> 2250 mm if loose-fill surfacing is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

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)

 Multi-User Seat: 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, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.

 Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

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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.

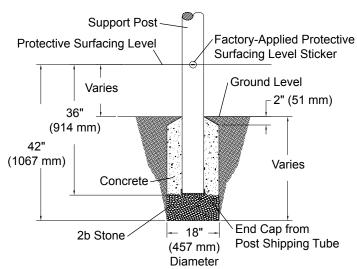
Maintenance

• 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.

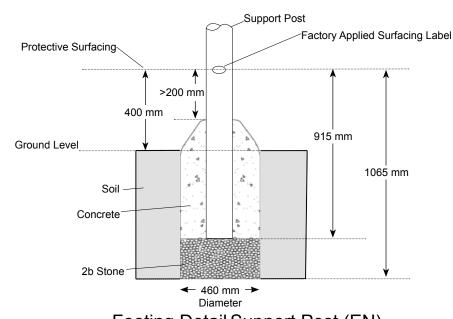
Supervision Guidelines

- 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 preschoolage 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.

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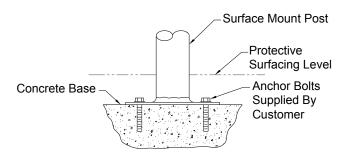
Support Post Footing Detail (ASTM/CSA)



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).
- 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.
- 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.

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Surface Mount Footing Detail

FOOTING NOTES

- All 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.
- · Footing size may vary due to local soil and weather conditions.
- · Base of footing must be below frost line.
- Comparison of protective surfacing materials is available in <u>Handbook for Public Playground Safety</u> published by U. S. Consumer Product Safety Commission.

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.

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Assembly View (representative structure)

Installation Instructions

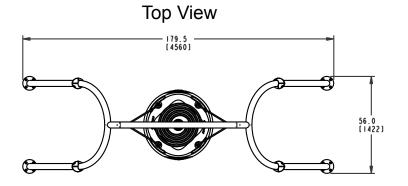
Playworld Systems®
Models XX0199 and XX0199S
Hoopla Swing
In-Ground and Surface Mount

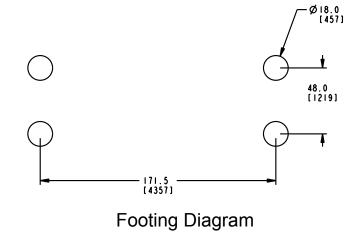
Installation Preparation

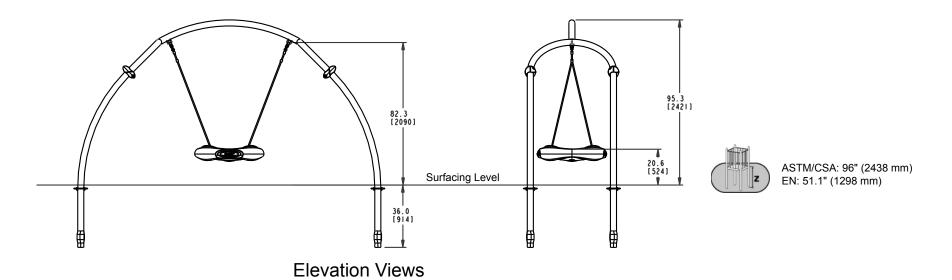
Recommended Crew:	Two (2) adults
Installation Time (In-Ground):	4 man-hours
Installation Time (Surface Mount):	2 man-hours
Concrete Required:	0.52 cubic yard (0,40 cubic meters)
Use Zone:	Refer to the information on page 1
User Group Age (years):	ASTM/CSA: 2-12, EN: 2-14

ICON KEY	7		
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do <u>Not</u> Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer	Z	Critical Fall Height

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



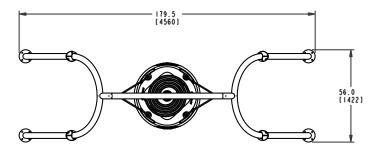


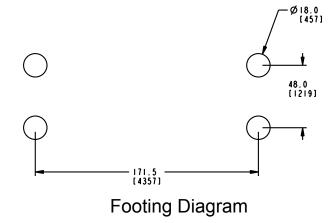


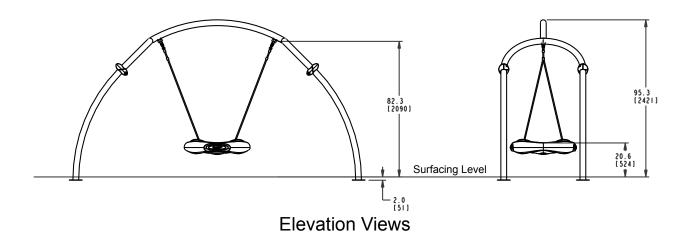
XX0199

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

Top View



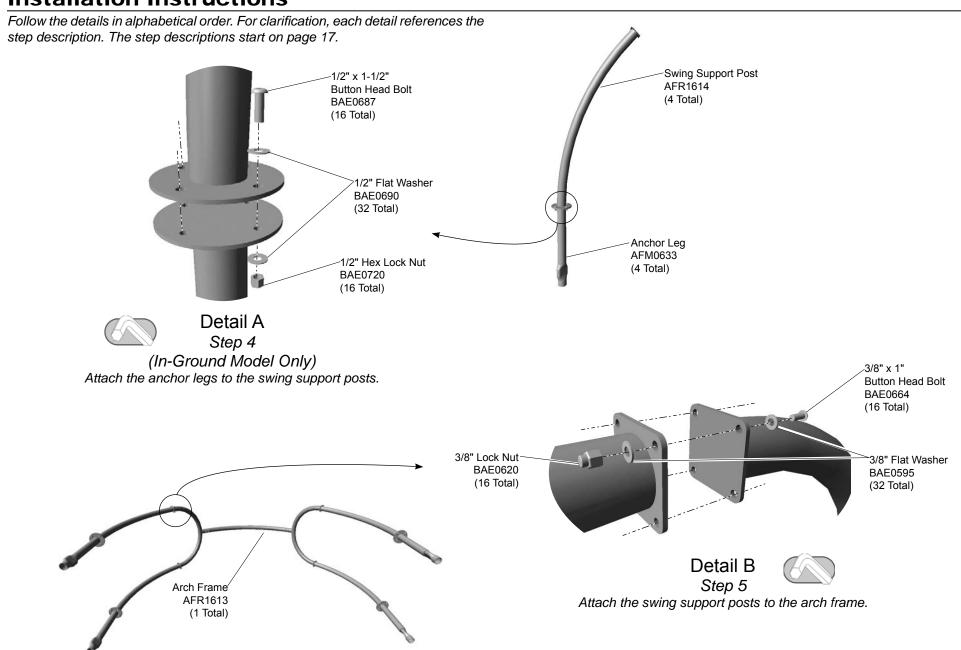




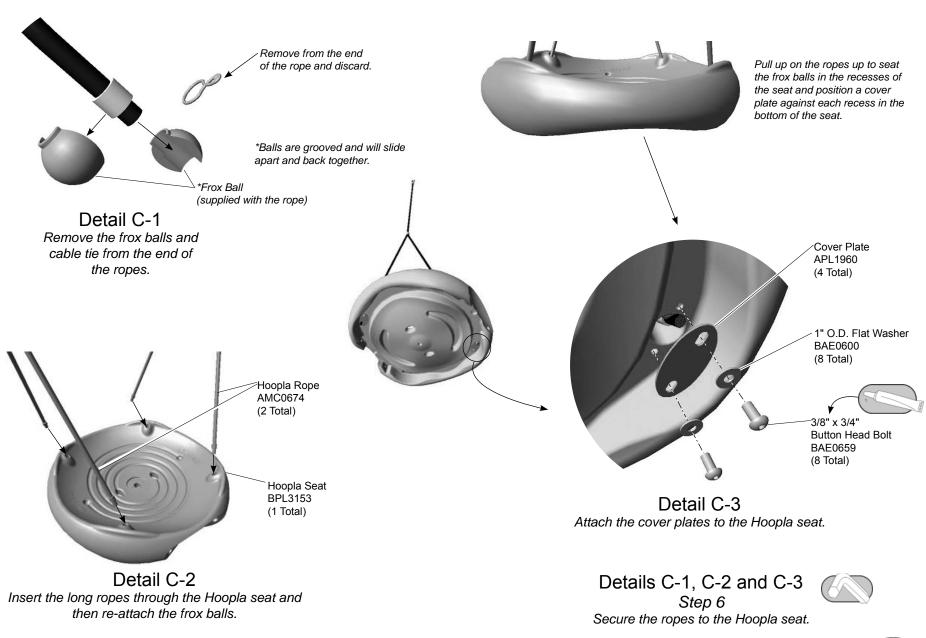
XX0199S

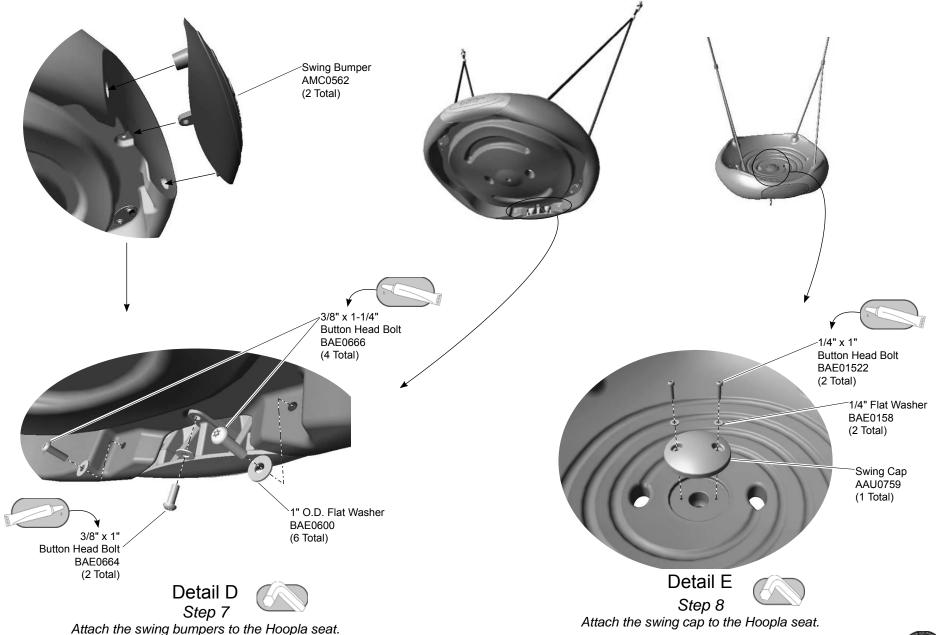


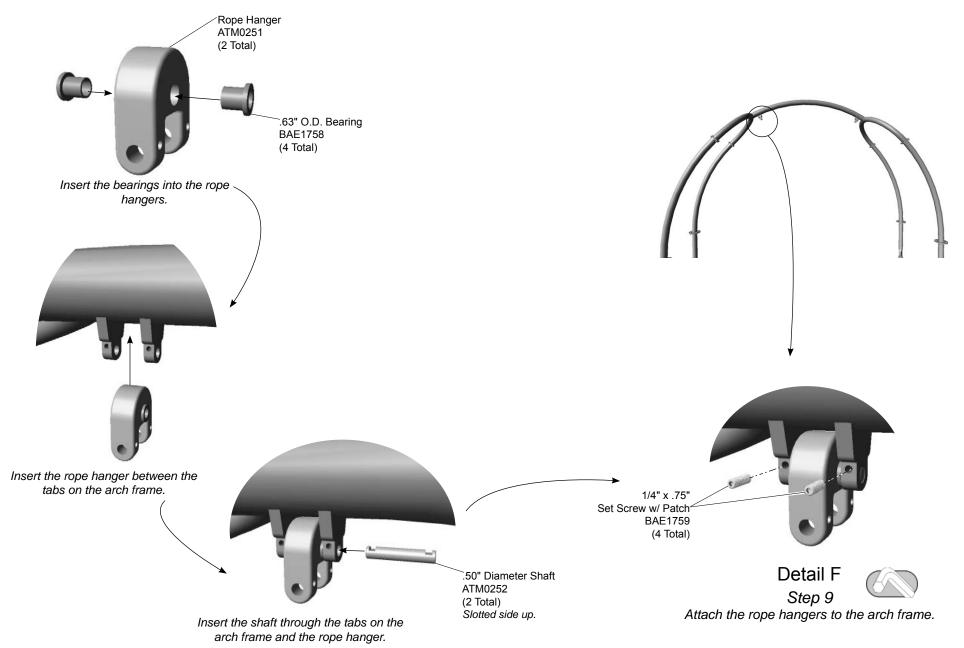
ASTM/CSA: 96" (2438 mm) EN: 51.1" (1298 mm)

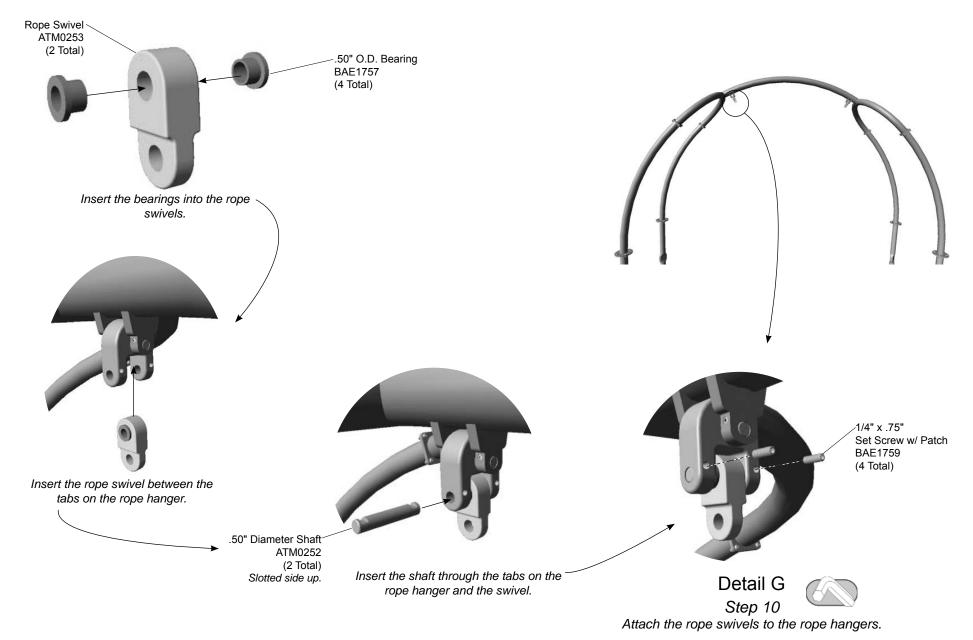


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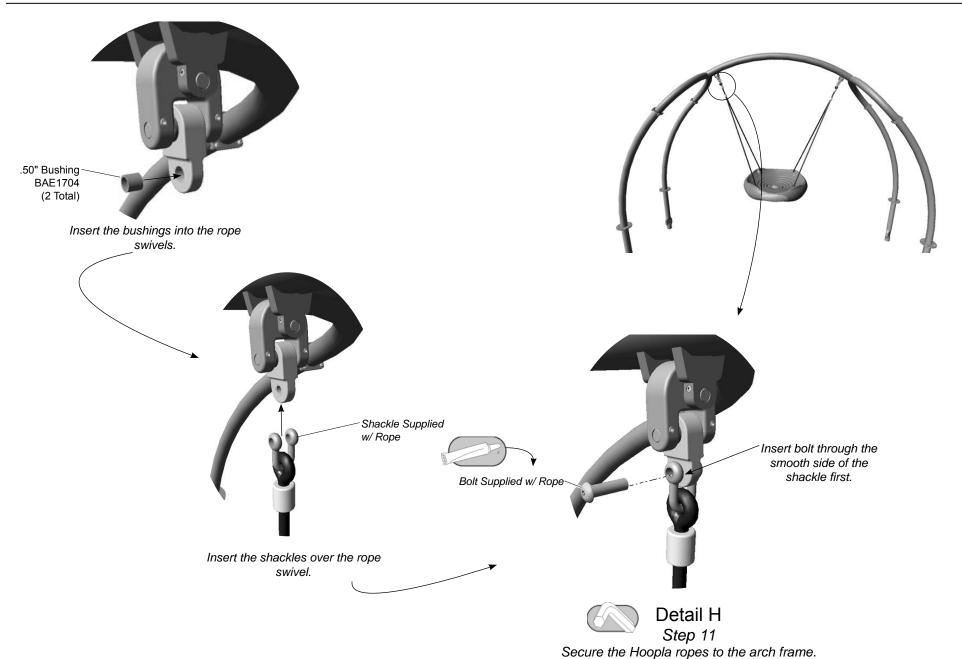


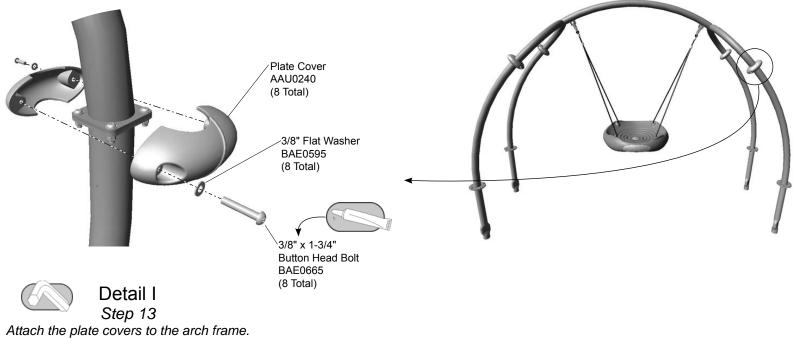






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Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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: Excavate or prepare, the footings as shown in the **Footing Details** on **Pages 4 & 5** of this document.

Step 4: (*In-Ground Model Only*) Attach the anchor legs to the swing support posts. See **Detail A**. Position each anchor leg against a swing support post and attach as shown. 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 5: Attach the swing support posts to the arch frame. See **Detail B.** Position each swing support post against the arch frame and attach as shown. Fully tighten all fasteners according to tightening torque specifications. Place the swing frame in, or on, it's footing and block and brace in place.

Step 6: Secure the ropes to the Hoopla seat. See **Details C-1, C-2 and C-3**. Remove the frox balls and cable tie from the end of the ropes and discard the tie. Insert the ropes through the Hoopla seat and then re-attach the frox balls. Pull up on the ropes up to seat the frox balls in the recesses of the seat and position a cover plate against each recess in the bottom of the seat. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Step 7: Attach the swing bumpers to the Hoopla seat. See **Detail D**. Insert each bumper into the sides of the Hoopla seat, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Step 8: Attach the swing cap to the Hoopla seat. See **Detail E**. Position the swing cap over the top, center part of the seat, apply a drop of thread locking adhesive to the bolt threads and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Step 9: Attach the rope hangers to the arch frame. See **Detail F**. Insert the bearings into the rope hangers and insert each rope hanger between the tabs on the arch frame. Insert the shaft, with slotted side up, through the tabs on the arch frame and the rope hanger and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Step 10: Attach the rope swivels to the rope hangers. See **Detail G**. Insert the bearings into the rope swivels and then insert the rope swivels between the tabs on the rope hangers. Insert the shaft through the tabs on the rope hanger and the swivel and attach as shown. Fully tighten all fasteners according to tightening torque specifications.

Step 11: Secure the Hoopla ropes to the arch frame. See **Detail H**. Insert the bushings into the rope swivels and insert the shackles over the rope swivel. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Insert bolt through the smooth side of the shackle first. Fully tighten the connection.

Final Details.

Step 12: Plumb and level the component.

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: Attach the plate covers to the arch frame. See Detail I. Position the plate covers around the mounting plates on the arch frame and support posts, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. 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 component at eye level.

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FINAL INSPECTION

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

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





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PA1205

XX0199 - HOOPLA SWING

XX0199S - HOOPLA SWING SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.	2422110		071
AAU0240	ACTIVO PLATE COVER	Q11. 8	PART NO.	DESCRIPTION	QTY.
AAU0759	CAP - HOOPLA SWING	1	AAU0240	ACTIVO PLATE COVER	8
AFM0633	ANCHOR - 3-1/2" O.D. x 34.00" w/ 8.00" DIA. PLATE	1	AAU0759	CAP - HOOPLA SWING	1
AFR1613	FRAME - BASKET SWING ARCH	4	AFR1613	FRAME - BASKET SWING ARCH	1
AFR1613 AFR1614	POST - HOOPLA SWING	4	AFR1614	POST - HOOPLA SWING	4
AMC0562	BUMPER - 15.75" HOOPLA SWING w/RIBS	2	AMC0562	BUMPER - 15.75" HOOPLA SWING w/RIBS	2
AMC0674	ROPE - HOOPLA SWING	2	AMC0674	ROPE - HOOPLA SWING	2
APL1960	PLATE - 11 GA x 2.25" x 4.25" OVAL COVER	4	APL1960	PLATE - 11 GA x 2.25" x 4.25" OVAL COVER	4
		4	ATM0251	FAB METAL - 1.25" x 2.63" x 3.38"	2
ATM0251	FAB METAL - 1.25" x 2.63" x 3.38"	2	ATM0252	SHAFT500" DIA x 2.62"	4
ATM0252	SHAFT500" DIA x 2.62"	4	ATM0253	FAB METAL88" x 1.50" x 3.00"	2
ATM0253	FAB METAL88" x 1.50" x 3.00"	2	BAD0085	THREAD LOCKING ADHESIVE	1
BAD0085	THREAD LOCKING ADHESIVE	1	BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	2
BAE01522	BOLT - 1/4"-20 x 1" BUTTON HEAD - SS	2	BAE0158	WASHER - 1/4" SAE FLAT	2
BAE0158	WASHER - 1/4" SAE FLAT	2	BAE0595	WASHER - 3/8" SAE FLAT	40
BAE0595	WASHER - 3/8" SAE FLAT	40	BAE0600	WASHER - 1" O.D. FLAT	14
BAE0600	WASHER - 1" O.D. FLAT	14	BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16	BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8	BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	18
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	18	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	BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	4	BAE0900	WRENCH - 5/32" SHORT HEX KEY	1
BAE0687	BOLT - 1/2"-13 x 1.50" BUTTON HEAD - SS	16	BAE0906	TOOL - 5/16 SHORT HEX KEY WRENCH	1
BAE0690	WASHER531" I.D. x 1.250" O.D. x .060" THICK	32	BAE0910	TOOL - 1/4" SHORT HEX KEY WRENCH	1
BAE0720	NUT - 1/2"-13 LOCK	16	BAE0922	TOOL - TT 45 L WRENCH	1
BAE0900	WRENCH - 5/32" SHORT HEX KEY	1	BAE1704	BUSHING44" I.D. x .56" O.D. x .50"	4
BAE0906	TOOL - 5/16 SHORT HEX KEY WRENCH	1	BAE1757	BEARING - SAE841 .50 I.D. x .63 O.D. x .50"	4
BAE0910	TOOL - 1/4" SHORT HEX KEY WRENCH	1	BAE1758	BEARING - SAE841 .50 I.D. x .63 O.D. x .63"	4
BAE0922	TOOL - TT 45 L WRENCH	1	BAE1759	SCREW - 1/4"-20 x .75' SET WITH PATCH	8
BAE1704	BUSHING44" I.D. x .56" O.D. x .50"	4	BPL3153	SEAT - 40.00" DIA HOOPLA SWING	1
BAE1757	BEARING - SAE841 .50 I.D. x .63 O.D. x .50"	4	ALB0025	LABEL - AGE APPROPRIATE SHEET	1
BAE1758	BEARING - SAE841 .50 I.D. x .63 O.D. x .63"	4			
BAE1759	SCREW - 1/4"-20 x .75' SET WITH PATCH	8			
BPL3153	SEAT - 40.00" DIA HOOPLA SWING	1		A -	
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For Customer Service, Call 800-233-8404 or 570-522-9800 outside u.s.

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Models XX0199 and XX0199S PA1305 SGS

ALB0025

LABEL - AGE APPROPRIATE SHEET

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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.

<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.

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

 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 XX0199 and XX0199S
Hoopla Swing
In-Ground and Surface Mount





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 surfacing to insure proper depth and dis	tribution.	High				P = Pass F = Fail
Inspect metal parts for structural and finish dam	age.	Medium				NA = Not Applicable
Inspect for loose, missing, worn, or broken faste	Inspect for loose, missing, worn, or broken fasteners.					7
Inspect footing to insure support is secure and f	ooting is not damaged.	Low				
Inspector: Name (Please Print)	Signature:					
MAINTENANCE SCHEDULE						
Item in Question Description of Problem Corrective Action				Date		
Repairer: Name (Please Print)	Signature:	<u> </u>			Da	ate:/