

### IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) **Important:** Full bucket seat swings should be suspended from structures that are separate from those used for other swings, or at least suspended from a separated bay of the same structure. According to the Handbook for Public Playground Safety, Publication #325 at [www.cpsc.gov](http://www.cpsc.gov).

(D) Refer to CPSC for appropriate swing spacing.

(E) Chain length should be adjusted (trimmed) so that the underside of the belt swing is no less than 12" (Bucket Seat 24") from Finish Grade. See Recommended Swing Seat Heights.

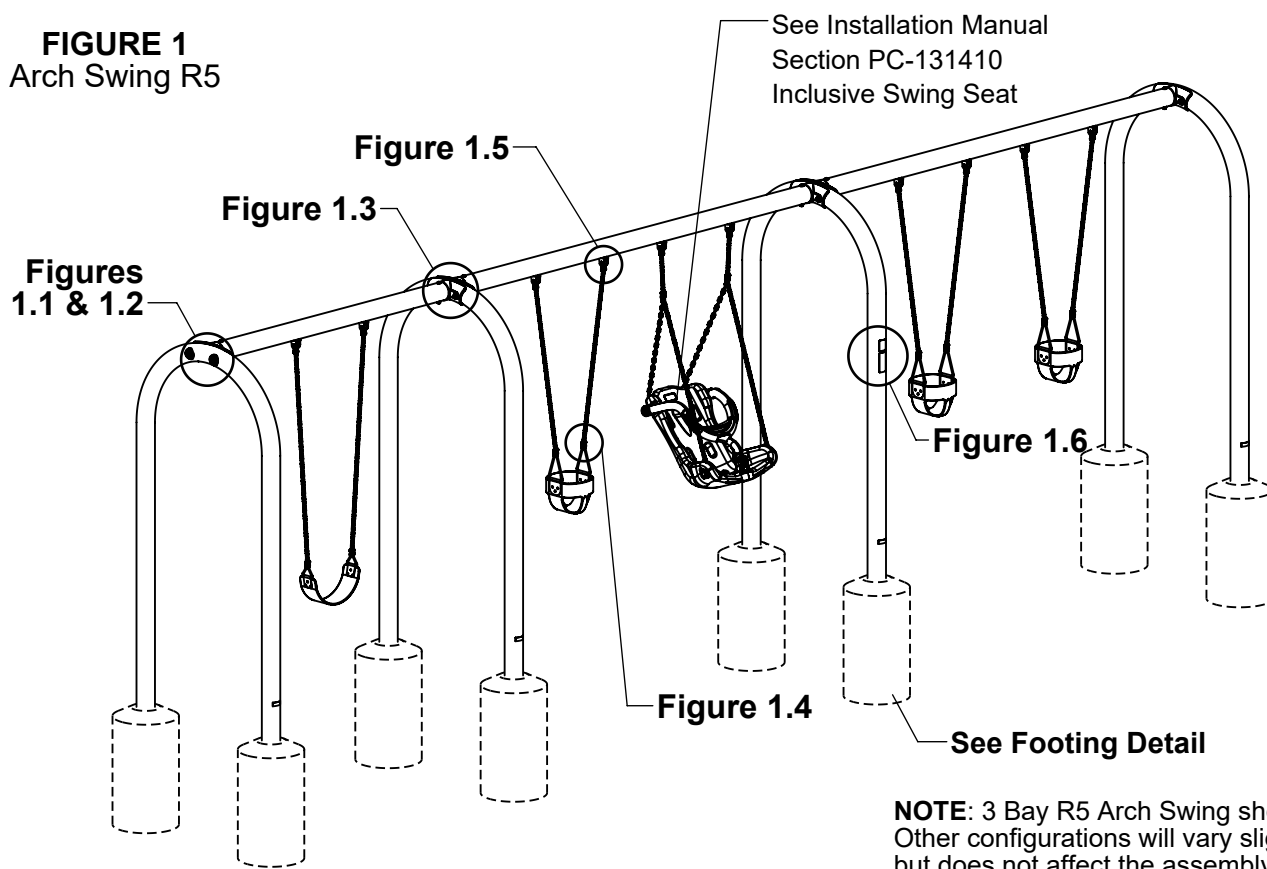
(F) **Important:** Do not modify hanging position of ADA swings. (e.g. shortening chain, etc.)

(G) **Important:** Use Arch Swing Casting stamped Belt for all To-Fro swings.

(H) All bolt threads protruding beyond the nut must be cut and de-burred until end is smooth to the touch. Sharp edges and/or points of any kind must be eliminated. A maximum of two threads may be exposed beyond the end of the nut.

(I) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.cpsc.gov](http://www.cpsc.gov) for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

**FIGURE 1**  
Arch Swing R5



**NOTE:** 3 Bay R5 Arch Swing shown. Other configurations will vary slightly, but does not affect the assembly.

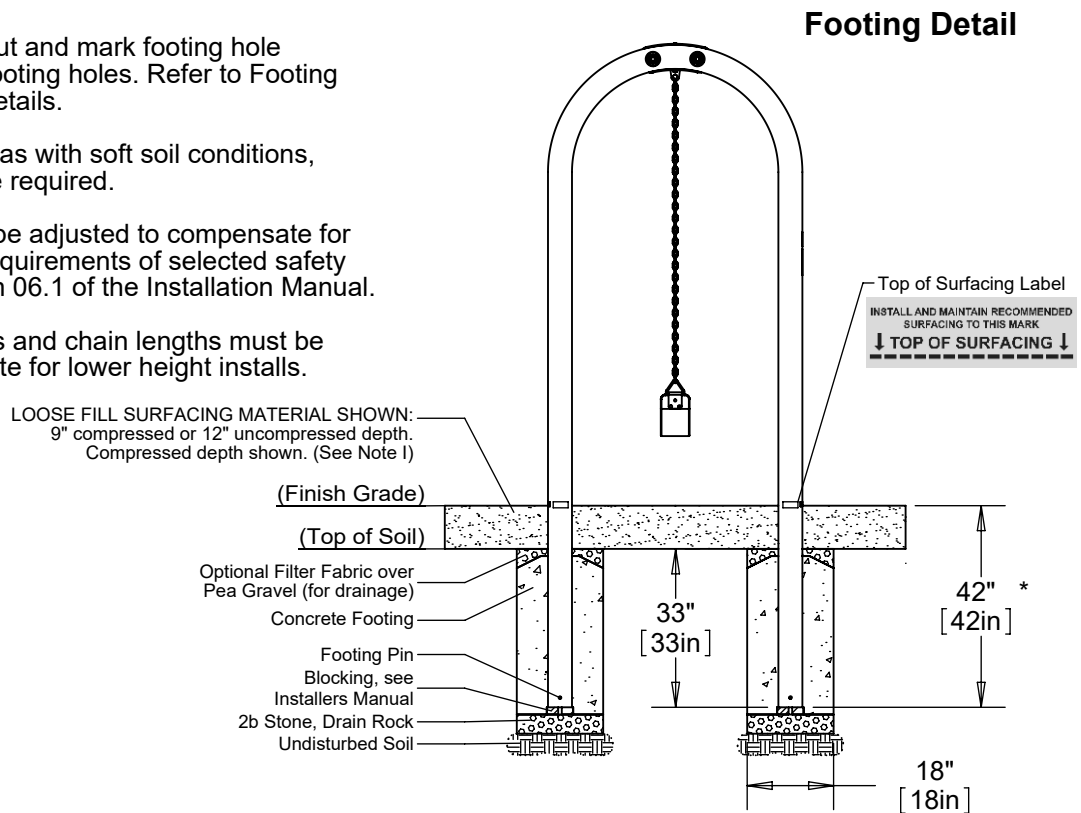
## Step 1

Refer to Footing Layout and mark footing hole locations. Dig Ø 18" footing holes. Refer to Footing Detail for depth and details.

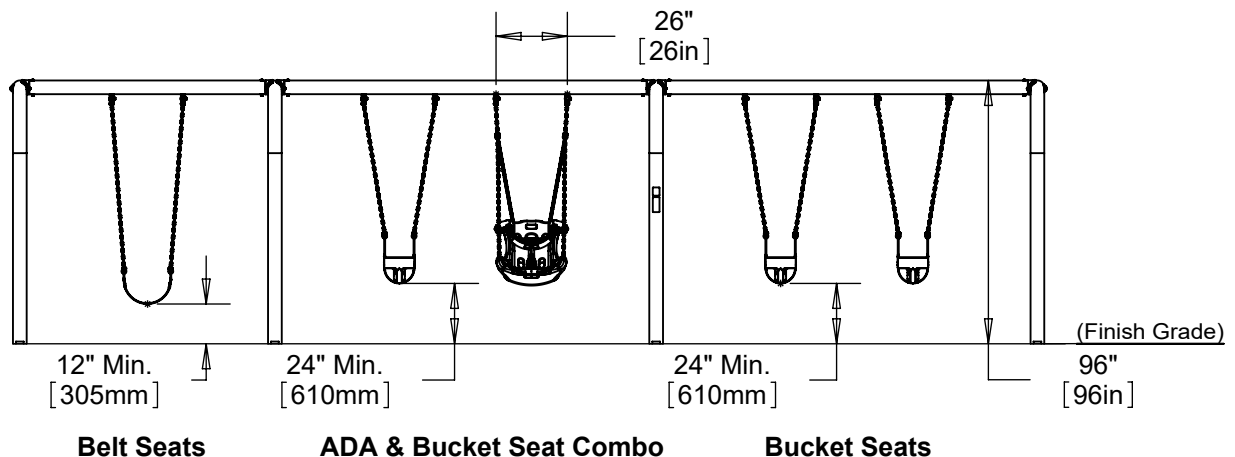
**IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

\* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

**NOTE:** Footing depths and chain lengths must be adjusted to compensate for lower height installs.

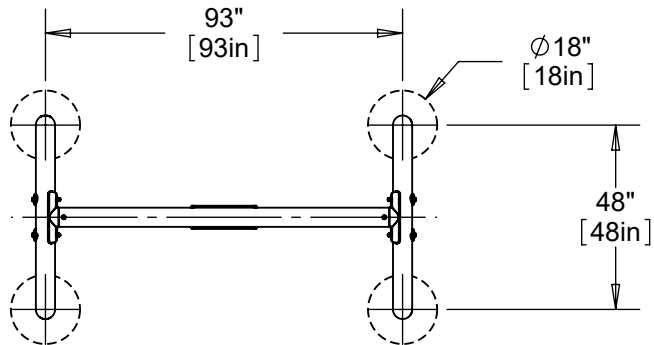


## Recommended Swing Seat Heights (See Notes D, E & F)



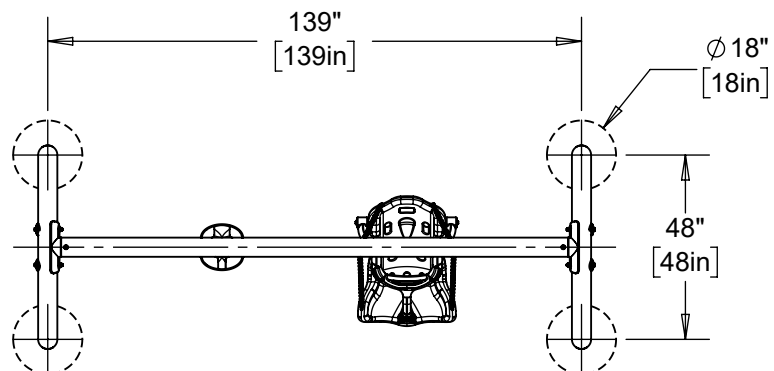
### Top View - Footing Layout Single Seat Swing Bay

**NOTE:** Footing distance is the same for additional bays.



### Top View - Footing Layout Two Seat Swing Bay

**NOTE:** Footing distance is the same for additional bays.



# ARCH SWING ASSEMBLY R5 INSTALLATION INSTRUCTIONS

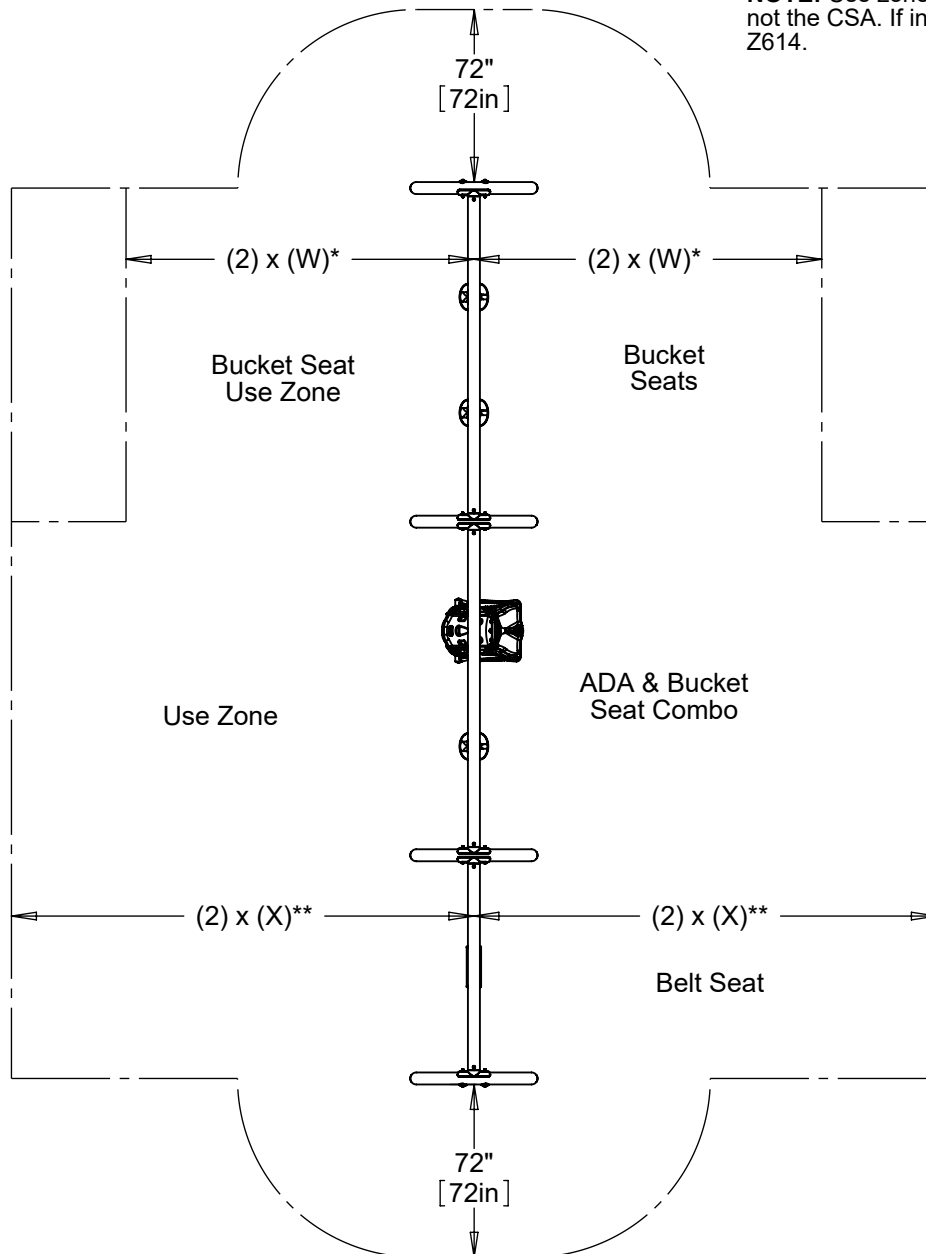
**PC-2120**  
Page 4 of 8

## Use Zone

**NOTE:** Configuration shown is for illustration of use zones. Your configuration may vary slightly. Refer to CPSC for corresponding single-axis swing use zones.

**IMPORTANT:** Front to Rear Use Zones cannot overlap while End Use Zones may overlap other swing End Use Zones.

**NOTE:** Use zones are in conformance with the CPSC but not the CSA. If installing in Canada please refer to CSA Z614.



\* W = the vertical distance from the swing pivot point to the top of the sitting surface. (for Bucket Seat Only Swing Bays)

\*\* X = the vertical distance from the protective surfacing to the swing pivot point.

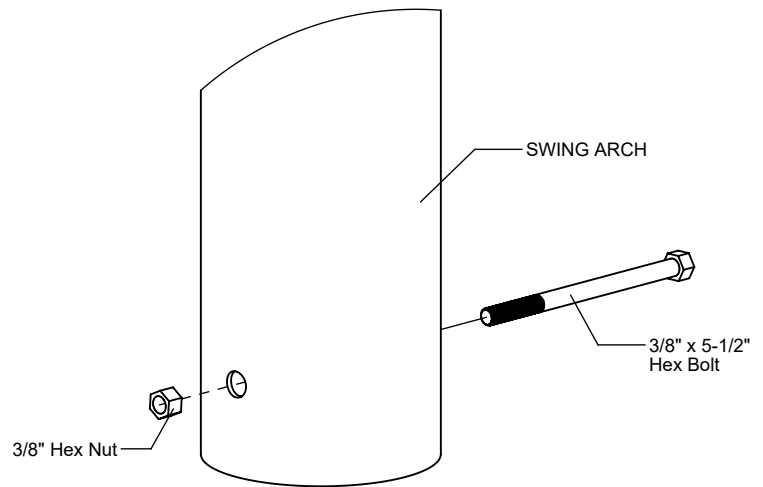


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**Rev R**  
9/8/2025

### Step 2

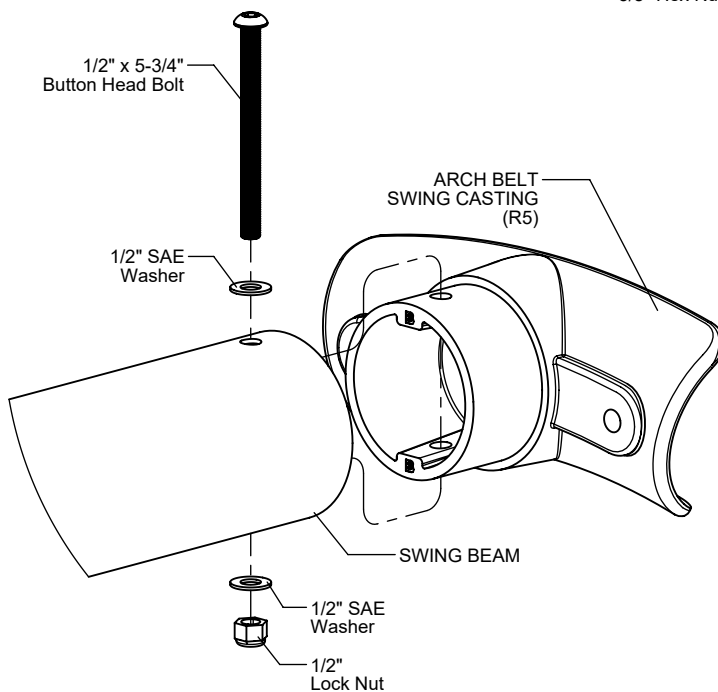
Install footing pins into Swing Arches as shown in Figure 2. (See Note A)



**FIGURE 2**

### Step 3

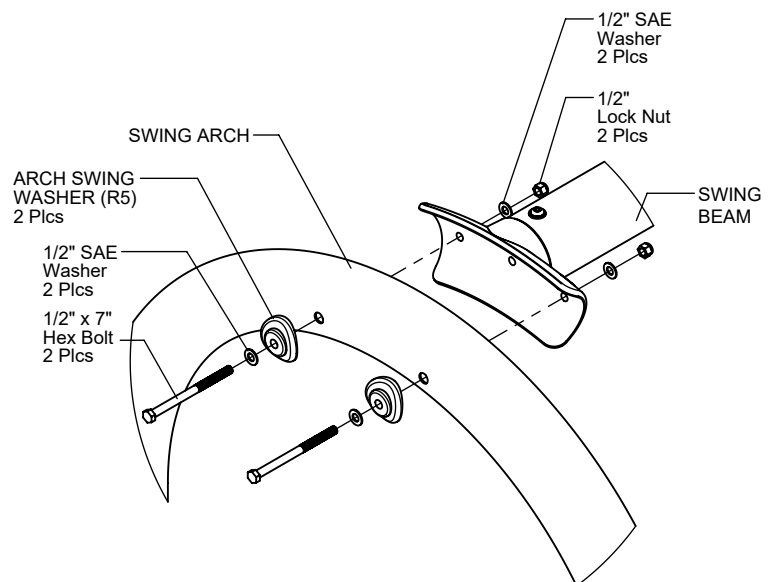
Attach Arch Swing Beam to Arch Belt Swing Casting as shown in Figure 1.1. (See Notes A, G & H)



**Figure 1.1**

### Step 4

Place Swing Arches into footing holes and attach Arch Swing Beam to Swing Arch as shown in Figure 1.2. (See Notes A & H)

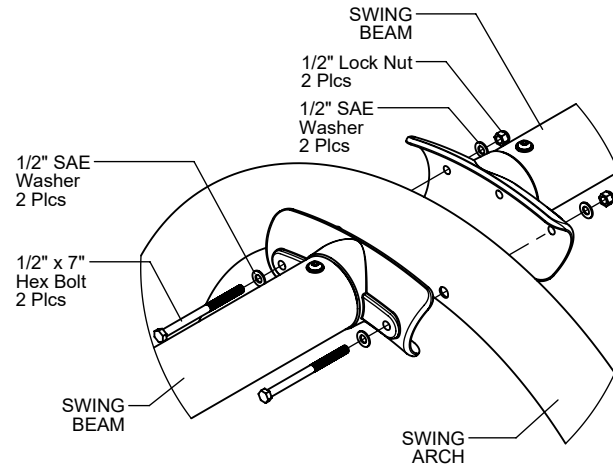


**Figure 1.2**

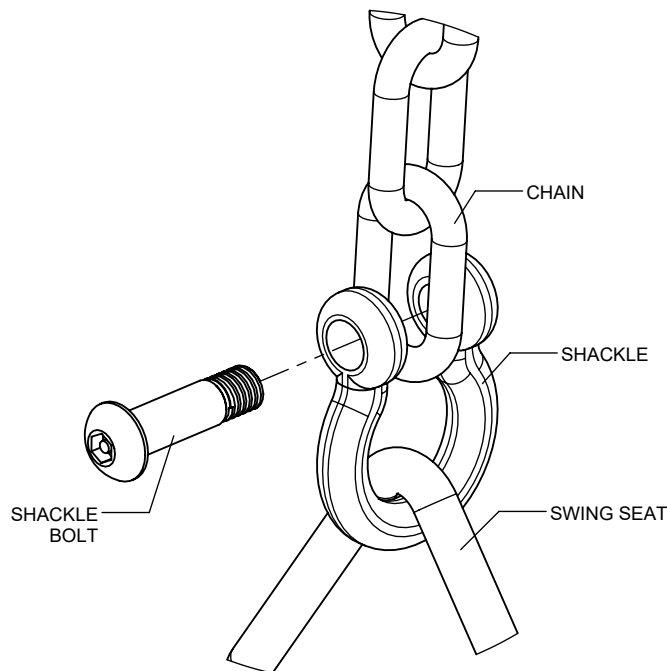
### Step 5

#### For Additional Bay Only

Attach additional Arch Swing Beam to Swing Arch as shown in Figure 1.3.  
(See Notes A & H)



**Figure 1.3**

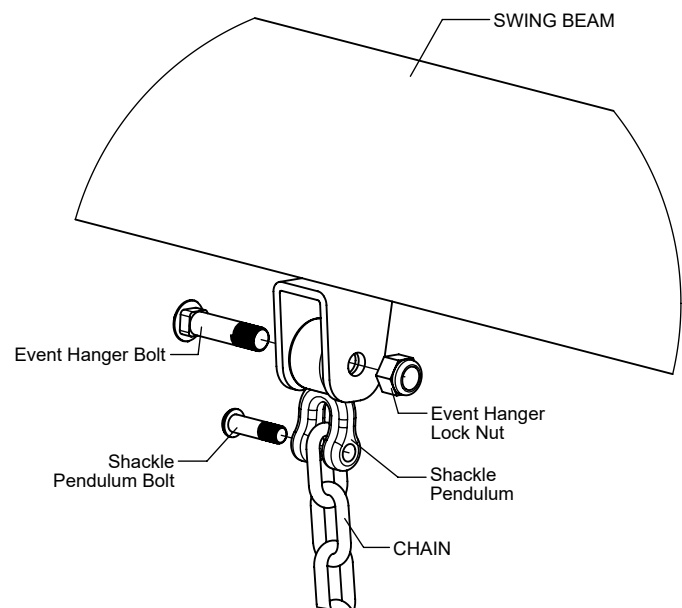


**Figure 1.4**

### Step 6

#### For Belt and Bucket Seats Only

Attach Swing Seat to Chains as shown in Figure 1.4.  
(See Notes A & E)



**Figure 1.5**

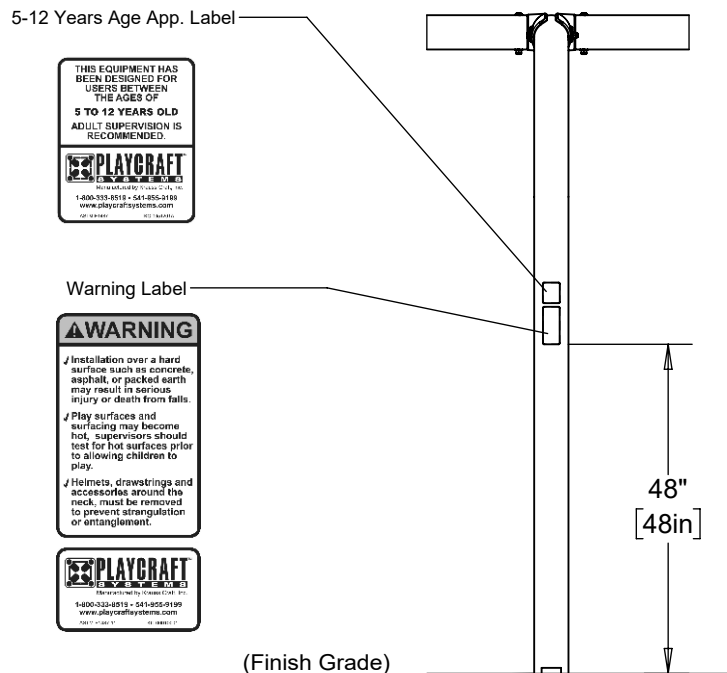
### Step 7

#### For Belt, Bucket, and Inclusive Seats Only

Attach Chains to Swing Beam as shown in Figure 1.5. (See Notes A, D & E)

## Step 8

Apply Warning and 5-12 Age Appropriate Label to Swing Arch where visible to users as shown in Figure 1.6.  
(Dimension shown indicates suggested placement)



**Figure 1.6**

## Step 9

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

## Step 10

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

## Step 11

Affix "Top of Surfacing" labels to base of posts indicating the top of minimum required protective surfacing depth. (See Note I)

## Step 12

Place required protective surfacing under and around Arch Swing Assembly. (See Note I)

# ARCH SWING ASSEMBLY R5

## INSTALLATION INSTRUCTIONS

**PC-2120**  
Page 8 of 8

### Swing Frame Parts Lists

SINGLE BAY		
Part #	DESCRIPTION	QTY
Varies	5" Swing Beam	1
GF-4424-B	Arch Swing Casting (R5) - BELT	2
GF-4427	Arch Swing Washer (R5)	4
LF-4351	Swing Arch R5	2
372010	ASTM 5-12 Years Age App. Label	1
372016	Warning Label	1
372017	Top of Surfacing Label	4
9105242	Bolt Button Head 1/2" x 5-3/4"	2
9123231	Bolt Hex 3/8" x 5-1/2"	4
9125292	Bolt Hex 1/2" x 7"	4
9345002	Washer Flat SAE 1/2"	12
9415132	Nut Lock 1/2"	6
9483602	Nut Hex 3/8"	4

ADDITIONAL BAY		
Part #	DESCRIPTION	QTY
Varies	5" Swing Beam	1
GF-4424-B	Arch Swing Casting (R5) - BELT	2
LF-4351	Swing Arch R5	1
372017	Top of Surfacing Label	2
9105242	Bolt Button Head 1/2" x 5-3/4"	2
9123231	Bolt Hex 3/8" x 5-1/2"	2
9125292	Bolt Hex 1/2" x 7"	2
9345002	Washer Flat SAE 1/2"	8
9415132	Nut Lock 1/2"	4
9483602	Nut Hex 3/8"	2

### Specifications

#### SWING ARCH & SWING BEAM:

Shall be fabricated using 5" O.D. 11 gauge galvanized steel tubing. The Swing Arch and Swing Beam shall have a multi-stage baked-on powder coat finish.

#### ARCH SWING CASTING AND ARCH SWING WASHER:

Shall be cast from a high-strength aluminum alloy. The Arch Swing Casting and Washer shall have a multi-stage baked-on powder coat finish.

#### SWING CHAIN:

Shall be 7mm (1/4") PC Grade 30 chain with a silver shield cold galvanized finish.

#### SWING SEATS:

Shall be molded from a UV-stabilized flexible rubber compound with slash-proof, reinforced metal inserts.

#### HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

### Swing Seat Parts Lists

BELT SEAT		
Part #	DESCRIPTION	QTY
HE-0008-68	7 Ft. Swing Chain (68 Links)	2
313010	Belt Seat	1
451161-SS	Swing Shackle - Stainless Steel	2
471008	Shackle Pendulum Assembly	2

BUCKET SEAT		
Part #	DESCRIPTION	QTY
HE-0008-49	5 Ft. Swing Chain (49 Links)	2
311010	Bucket Seat	1
451161-SS	Swing Shackle - Stainless Steel	2
471008	Shackle Pendulum Assembly	2

HALF BUCKET SEAT		
Part #	DESCRIPTION	QTY
HE-0008-49	5 Ft. Swing Chain (49 Links)	2
311010	Bucket Seat	1
451161-SS	Swing Shackle - Stainless Steel	2
471008	Shackle Pendulum Assembly	2

#### NOTE: Refer to Instructions

PC-131510 for Playshare Swing Seat Upgrade and PC-131410 for Inclusive Swing Seat Upgrade

**NOTE:** Chain lengths are adjusted to compensate for lower height installs.

**NOTE:** All quantities shown are for one unit of each item.

### Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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