

**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) 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.

(D) Chain length should be adjusted (trimmed) so that the underside of the Disc Swing is no less than 12" from Finish Grade. See Footing Detail.

(E) 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**  
**Disc Swing**

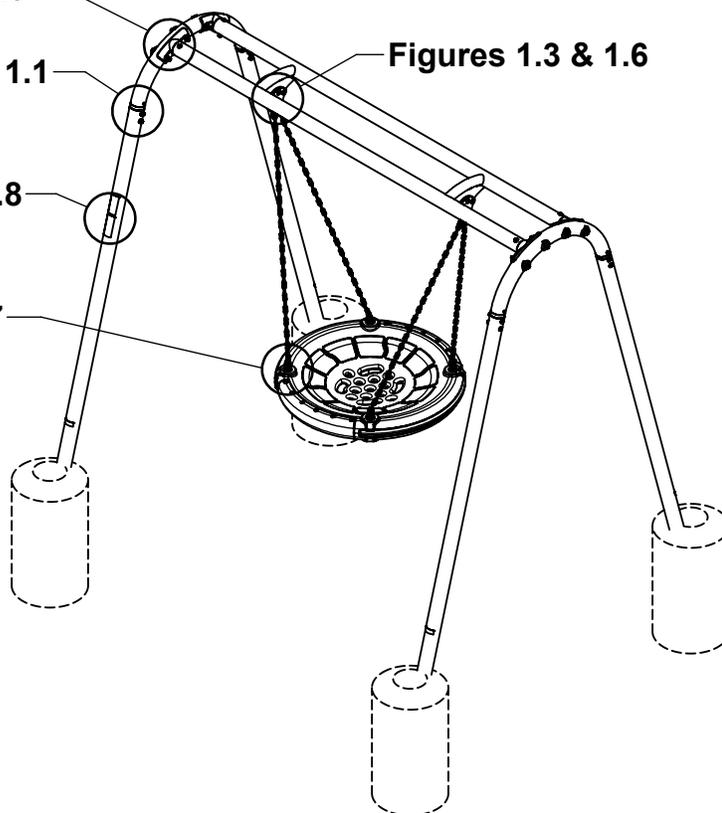
Figures 1.2, 1.4 & 1.5

Figure 1.1

Figures 1.3 & 1.6

Figure 1.8

Figure 1.7



See Footing Detail

**NOTE:** Single Bay R3.5 Disc Swing shown. Other configurations will vary slightly, but does not affect assembly.

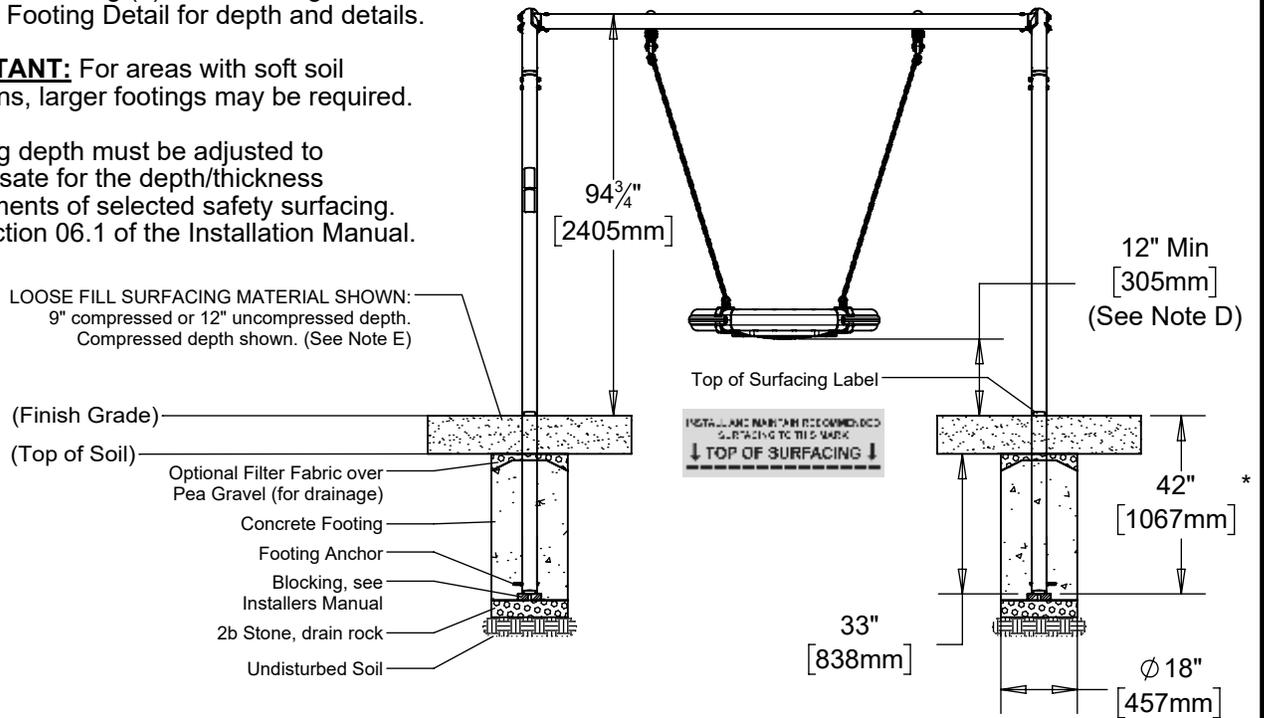
# Step 1

Refer to Footing Layout and mark footing hole locations. Dig (4) Ø 18" footing holes. Refer to Footing Detail for depth and details.

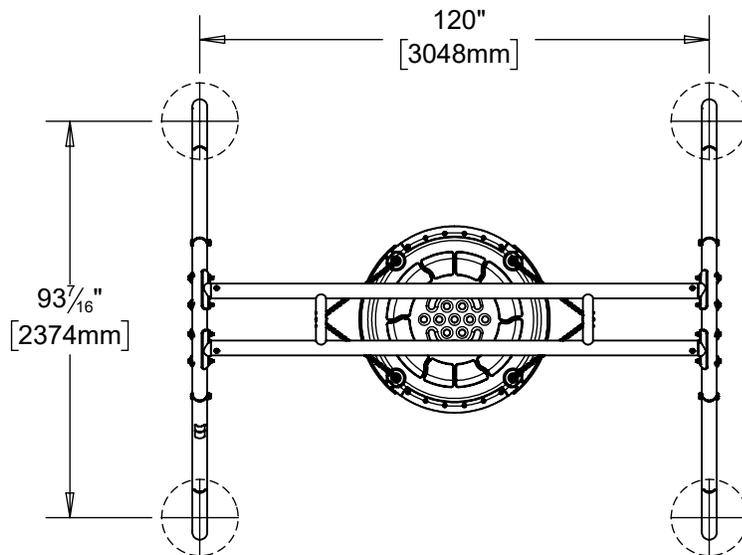
**IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

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

## Footing Detail



## Top View - Footing Layout

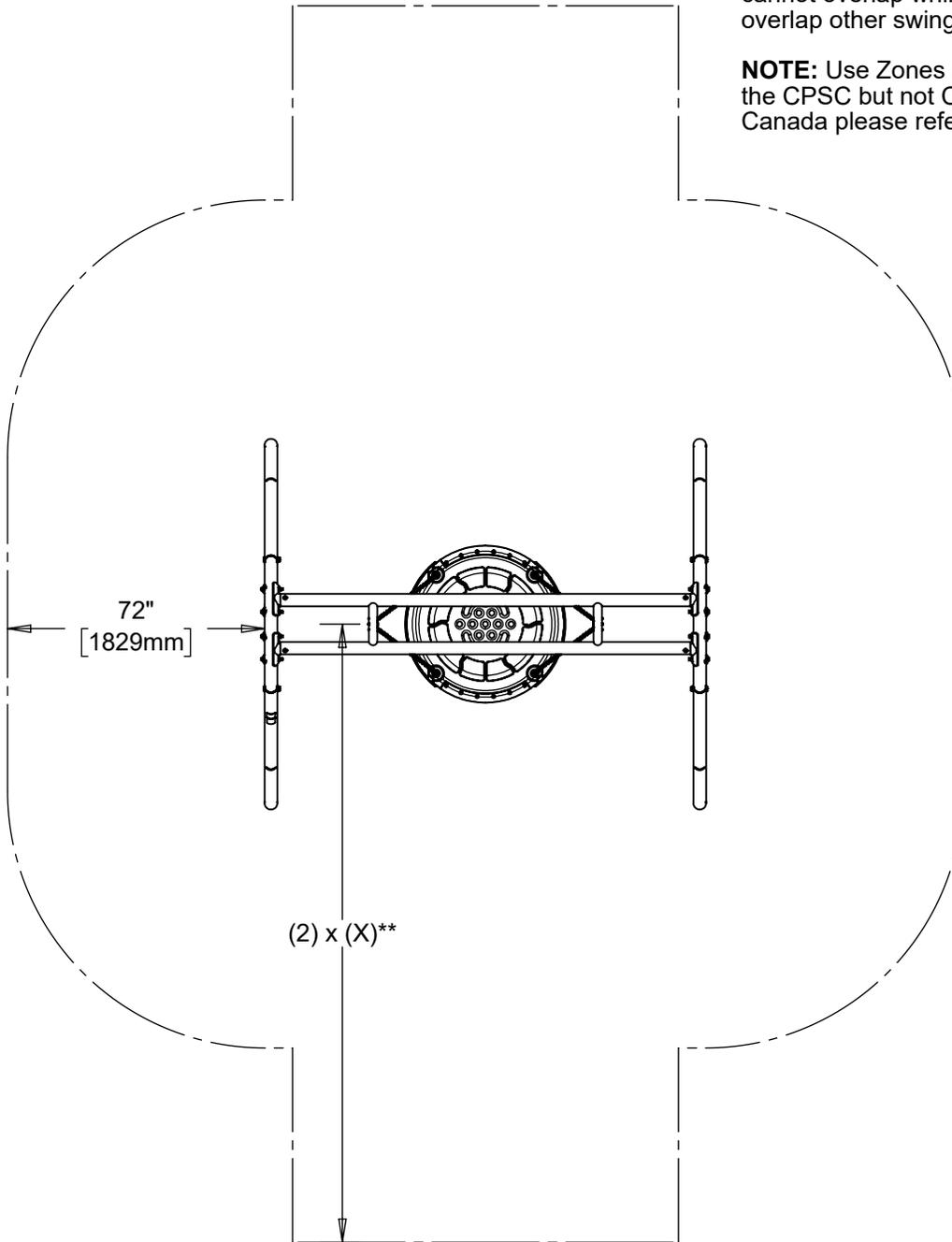


**Use Zone**

**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 CSA. If installing in Canada please refer to CSA Z614.

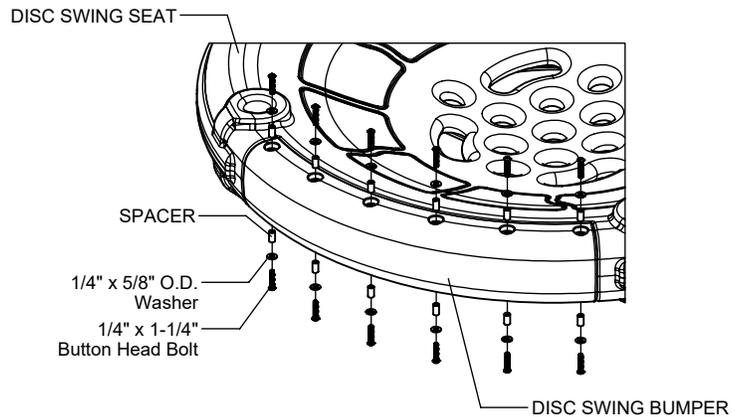


\*\* X = the vertical distance from the protective surfacing to the swing pivot point.

## Step 2 (Factory Assembled)

Insert Spacers into Disc Swing Bumpers and attach to Disc Swing Seat as shown in Figure 2. (See Note A)

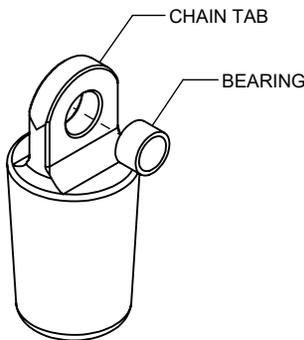
**NOTE:** 2 Places



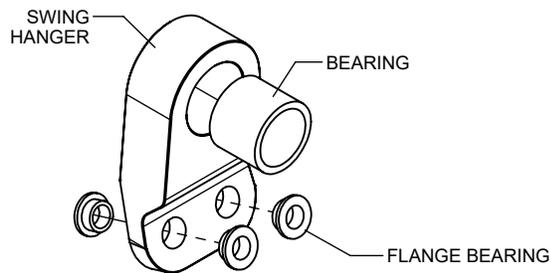
**FIGURE 2**

## Step 3 (Factory Assembled)

Press Bearings into Chain Tabs and Disc Swing Hanger as shown in Figures 3a & 3b.



**FIGURE 3a  
4 Places**

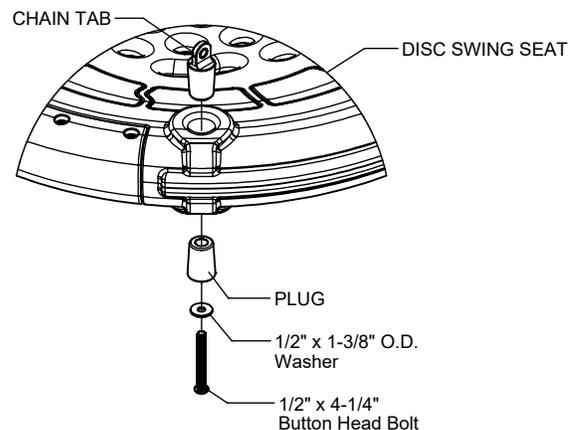


**FIGURE 3b  
2 Places**

## Step 4 (Factory Assembled)

Attach Chain Tab and Plug to Disc Swing as shown in Figure 4 (See Note A)

**NOTE:** 4 Places

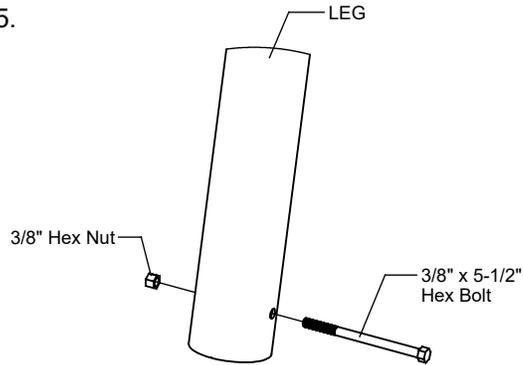


**FIGURE 4**

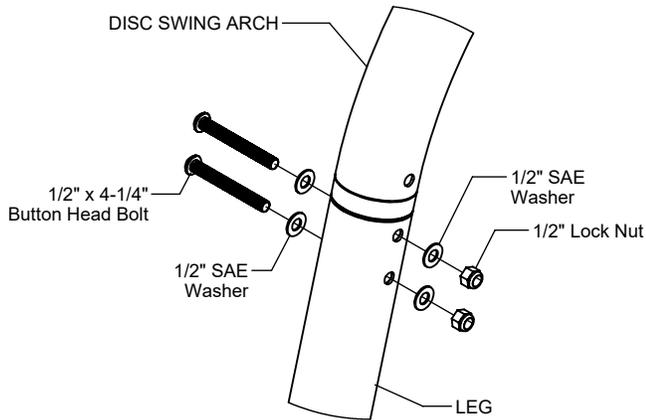
## Step 5

Attach Footing Pins to Legs as shown in Figure 5.  
(See Note A)

**NOTE:** 4 Places



**FIGURE 5**



**Figure 1.1**

## Step 6

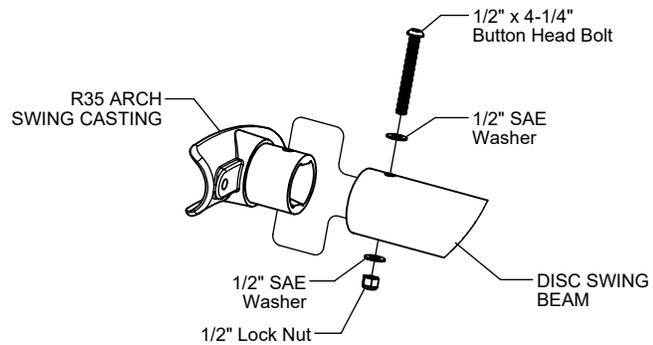
Attach Legs to Disc Swing Arches as shown in Figure 1.1. (See Notes A & C)

**NOTE:** 4 Places

## Step 7

Attach Arch Swing Castings to Disc Swing Beam as shown in Figure 1.2. (See Notes A & C)

**NOTE:** 4 Places

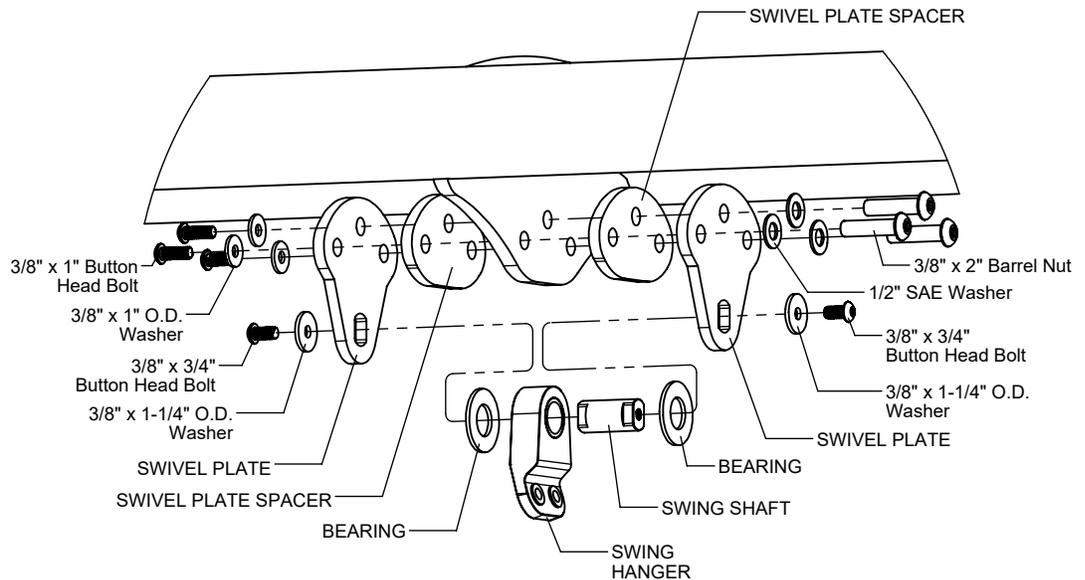


**Figure 1.2**

## Step 8

Assemble Disc Swing Hangers and Swivel Plates to Disc Swing Beam as shown in Figure 1.3. (See Note A)

**NOTE:** 2 Places

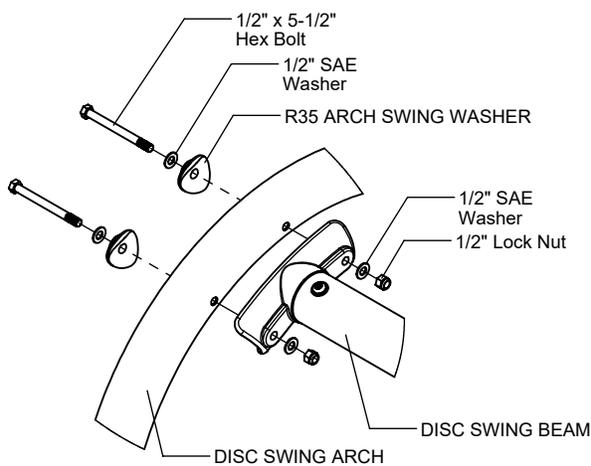


**Figure 1.3**

## Step 9

Place Disc Swing Arches into footing holes. Attach Disc Swing Beam to Disc Swing Arches as shown in Figure 1.4. (See Notes A, B & C)

**NOTE:** 4 Places

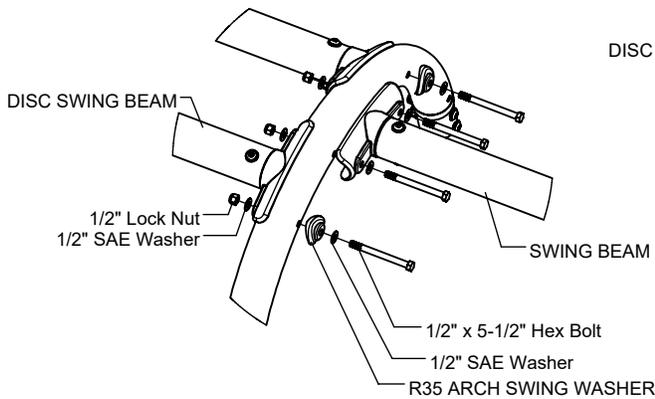


**Figure 1.4**

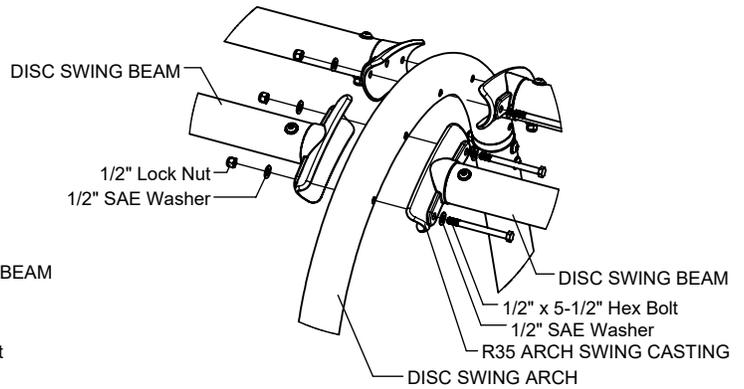
# Step 10

## For Additional Bay Only

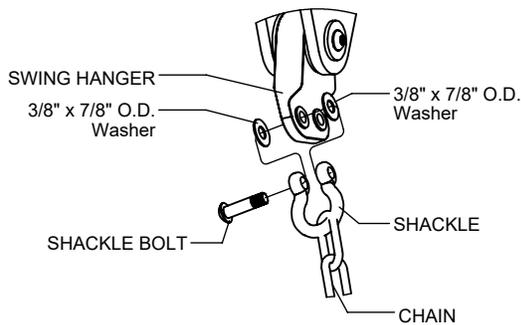
Attach additional Arch Swing Beam to Swing Arch as shown in Figure 1.5a. Attach additional Disc Swing Beam to Swing Arch as shown in Figure 1.5b. (See Note A)



**Figure 1.5a**



**Figure 1.5b**



**Figure 1.6**

# Step 11

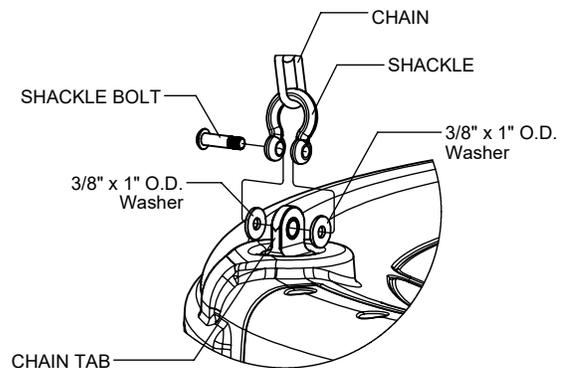
Attach Chains to Disc Swing Hangers as shown in Figure 1.6. (See Note A)

**NOTE:** 4 Places

# Step 12

Attach Chains to Chain Tabs as shown in Figure 1.7. (See Note A)

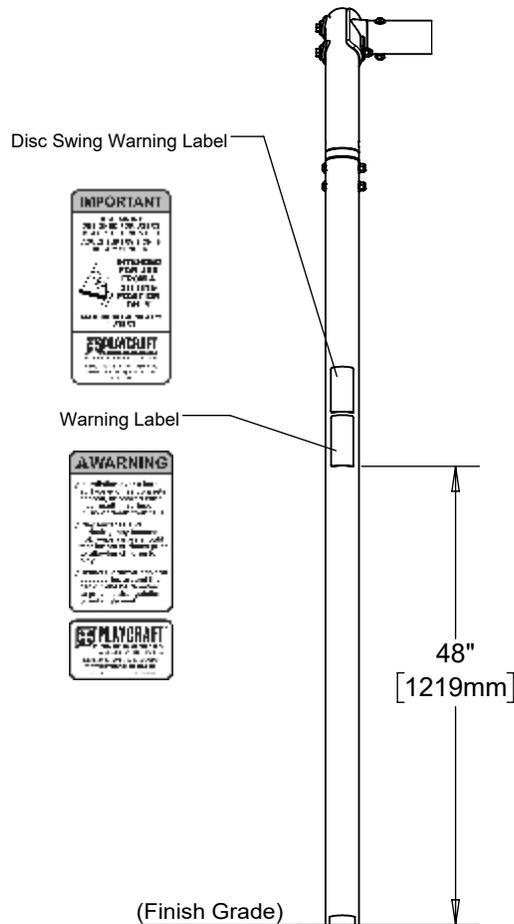
**NOTE:** 4 Places



**Figure 1.7**

## Step 13

Apply Warning and Disc Swing Label to Swing Leg where visible to users as shown in Figure 1.8.  
(Dimension shown indicates suggested placement)



**Figure 1.8**

## Step 14

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

## Step 15

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 16

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

## Step 17

Place required protective surfacing under and around Disc Swing. (See Note E)

# DISC SWING INSTALLATION INSTRUCTIONS

**PC-2015**  
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## Parts List

SINGLE BAY BOM		
Part #	DESCRIPTION	QTY.
AE-0656	Disc Swing Swivel Plate	4
AE-0656-S	Disc Swing Swivel Plate Spacer	4
FS-PC2015-ARCH	Disc Swing Arch	2
FS-PC2015-BEAM	Disc Swing Beam	1
GG-8315	R35 Arch Swing Casting	4
GG-8316	R35 Arch Swing Washer	8
HE-0061	5' Disc Swing Chain (40 Links)	4
<b>IE-0088*</b>	<b>Swing Hanger Bearing Housing</b>	<b>2*</b>
IE-0089	Swing Shaft	2
JG-0001	Disc Swing Leg	4
372016	Warning Label	1
372017	Top of Surfacing Label	4
372020	Disc Swing Warning Label	1
451161-SS	Swing Shackle - Stainless Steel	8
<b>562000*</b>	<b>Flange Bearing</b>	<b>8*</b>
562950	Thrust Bearing 1" X 2" X .125"	4
<b>562960*</b>	<b>Sleeve Bearing 1" X 1" X 1.25"</b>	<b>2*</b>
9103032-TR	Bolt Button Head 3/8" x 3/4"	4
9103052-TR	Bolt Button Head 3/8" x 1"	6
9105182	Bolt Button Head 1/2" x 4-1/4"	12
9123231	Bolt Hex 3/8" x 5-1/2"	4
9125232	Bolt Hex 1/2" x 5-1/2"	8
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	14
9333042	Washer Flat 3/8" x 7/8" O.D.	8
9333062	Washer Flat 3/8" x 1-1/4" x .125	4
9345002	Washer Flat SAE 1/2"	46
9415132	Nut Lock 1/2"	20
9443092-TR	Nut Barrel 3/8" x 2" BH	6
9483602	Nut Hex 3/8"	4

\* Assembled by **HARDWARE**  
(See Factory Assembled Step 3: Figure 3b)

## Assembled Parts List

Part #	DESCRIPTION	QTY.
DE-0059	Disc Swing Seat Bumper	2
DE-0060	Disc Swing Seat	1
IE-0024	Roto Ferrule Plug	4
IE-0059	Disc Swing Bumper Spacer	24
IE-0069	Roto Ferrule Chain Tab	4
9101062-TR	Bolt Button Head 1/4" x 1-1/4"	24
9105182	Bolt Button Head 1/2" x 4-1/4"	4
9331002	1/4" x 5/8" x .051 Washer	24
9335062-5	Washer Flat 1/2" x 1-3/8" OD	4
562050	Sleeve Bearing .500" x .375"L	4

ADDITIONAL BAY BOM		
Part #	DESCRIPTION	QTY.
AE-0656	Disc Swing Swivel Plate	4
AE-0656-S	Disc Swing Swivel Plate Spacer	4
FS-PC2015-ARCH	Disc Swing Arch	1
FS-PC2015-BEAM	Disc Swing Beam	1
GG-8315	R35 Arch Swing Casting	4
GG-8316	R35 Arch Swing Washer	4
HE-0061	5' Disc Swing Chain (40 Links)	4
<b>IE-0088*</b>	<b>Swing Hanger Bearing Housing</b>	<b>2*</b>
IE-0089	Swing Shaft	2
JG-0001	Disc Swing Leg	2
372012	Warning Label	1
372017	Top of Surfacing Label	2
372020	Disc Swing Warning Label	1
451161-SS	Swing Shackle - Stainless Steel	8
<b>562000*</b>	<b>Flange Bearing</b>	<b>8*</b>
562950	Thrust Bearing 1" X 2" X .125"	4
<b>562960*</b>	<b>Sleeve Bearing 1" X 1" X 1.25"</b>	<b>2*</b>
9103032-TR	Bolt Button Head 3/8" x 3/4"	4
9103052-TR	Bolt Button Head 3/8" x 1"	6
9105182	Bolt Button Head 1/2" x 4-1/4"	8
9123231	Bolt Hex 3/8" x 5-1/2"	2
9125232	Bolt Hex 1/2" x 5-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	14
9333042	Washer Flat 3/8" x 7/8" O.D.	8
9333062	Washer Flat 3/8" x 1-1/4" x .125	4
9345002	Washer Flat SAE 1/2"	30
9415132	Nut Lock 1/2"	12
9443092-TR	Nut Barrel 3/8" x 2" BH	6
9483602	Nut Hex 3/8"	2

\* Assembled by **HARDWARE**  
(See Factory Assembled Step 3: Figure 3b)



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**Rev F**  
5/27/2020

## Specifications

### **DISC SWING ARCH:**

Shall be fabricated using 3.5" O.D. 11 gauge steel tubing with welded 3.5" O.D. X 2.75" I.D. steel Couplers and will have a multi-stage baked-on powder coat finish.

### **DISC SWING BEAM:**

Shall be fabricated using 3.5" O.D. 11 gauge steel tubing with welded 2.375" O.D. 10 gauge cross members and 1/2" thick steel plates and will have a multi-stage baked-on powder coat finish.

### **DISC SWING LEG:**

Shall be fabricated using 3.5" O.D. 11 gauge steel and will have a multi-stage baked-on powder coat finish.

### **DISC SWING SEAT:**

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of .250"

### **DISC SWING SEAT BUMPER:**

Shall be constructed of rotationally molded vinyl with an average wall thickness of .250"

### **DISC SWING SWIVEL PLATE & SWIVEL PLATE SPACER:**

Shall be precision cut from 3/8" thick stainless steel.

### **DISC SWING CHAIN:**

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

### **ARCH SWING CASTING & WASHER:**

Shall be cast from a high-strength aluminum alloy and will have a multi-stage baked-on powder coat finish.

### **ROTO FERRULE PLUG:**

Shall be machined from high strength aluminum.

### **ROTO FERRULE CHAIN TAB, SWING SHAFT & DISC SWING HANGER:**

Shall be machined from stainless steel.

### **HARDWARE:**

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

## 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.

