

## 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.

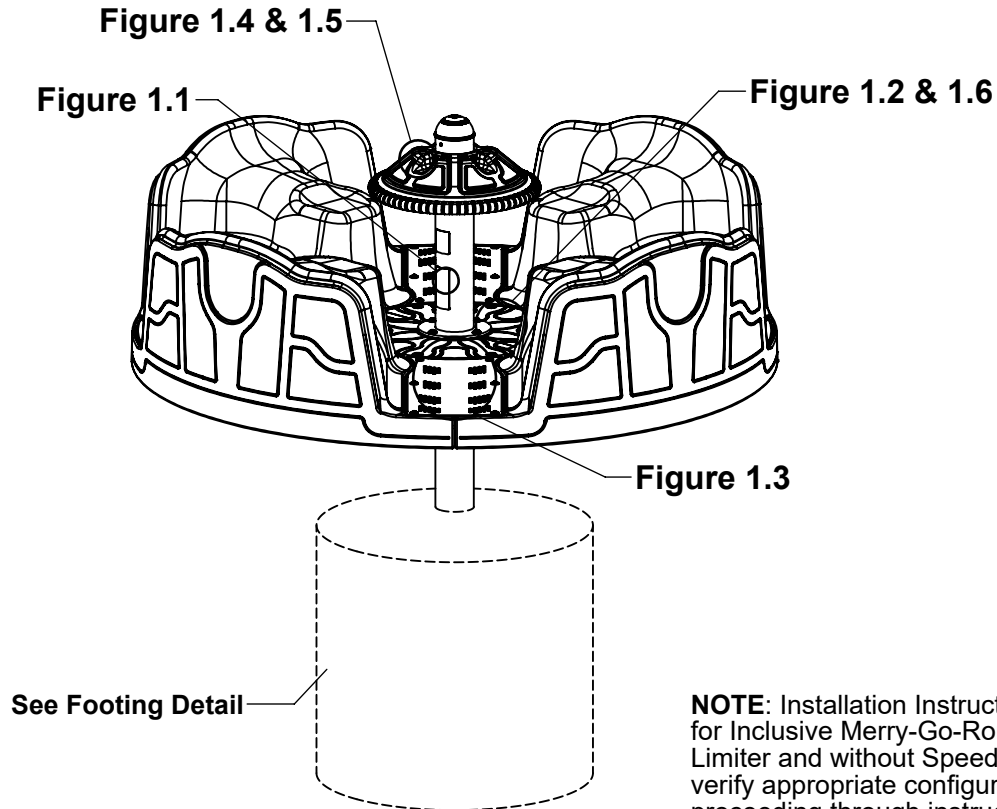
(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) **IMPORTANT:** Initial brake adjustment must be set and periodically maintained to limit the speed of revolutions. Refer to current ASTM 1487 standards. The maximum rotations per minute for the Inclusive Merry-Go-Round shall be no greater than 27. Test with the applied force of a male adult between the ages of 18 to 34, 150 lbs. [68 kgs] to 190 lbs. [86 kgs] and 68" [1727 mm] to 73" [1854 mm] tall. If any questions or concerns arise during the installation or maintenance of the Inclusive Merry-Go-Round brake, please contact the factory and ask to speak to a customer service representative at **1-800-333-8519**.

(D) The base of the Inclusive Merry-Go-Round shall be no less than 9" [229 mm] above the top of the protective surfacing. When a Speed Limiter is included, the bottom of the Speed Limiter shall be no less than 2-3/8" [60 mm] and no greater than 3 1/2" [89 mm] above the top of the protective surfacing.

(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**  
Inclusive Merry-Go-Round



**NOTE:** Installation Instructions designed for Inclusive Merry-Go-Round with Speed Limiter and without Speed Limiter. Please verify appropriate configuration before proceeding through instructions.

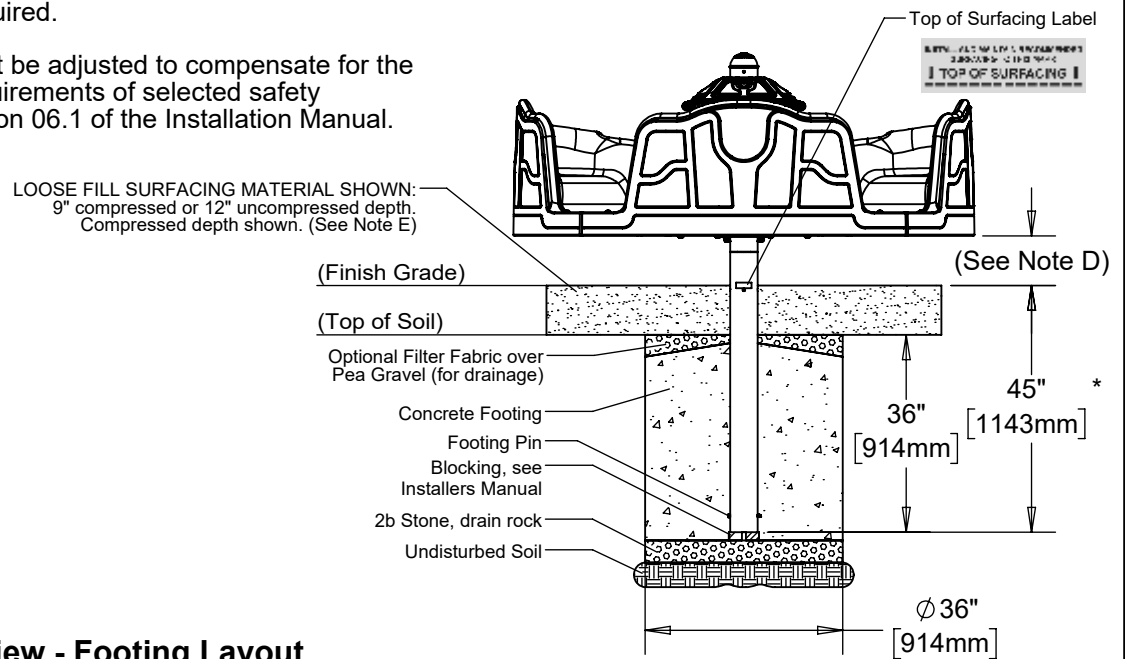
## Step 1

Refer to Footing Layout and mark footing hole location. Dig (1) Ø 36" footing hole. Refer to Footing Detail for depth and details.

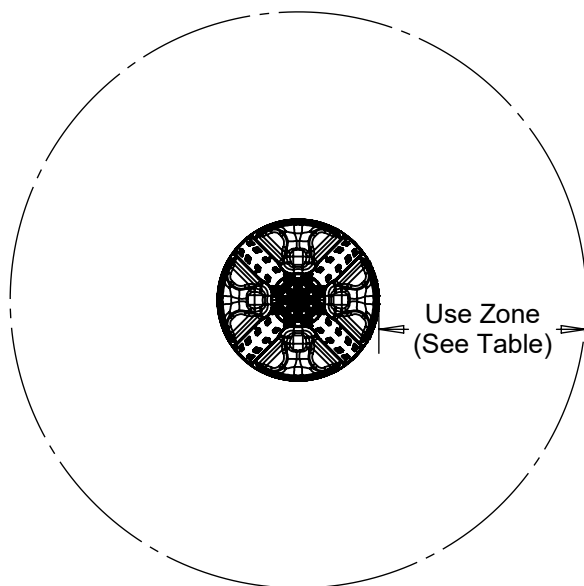
**IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

\* 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 See Table for Recommended Use Zone



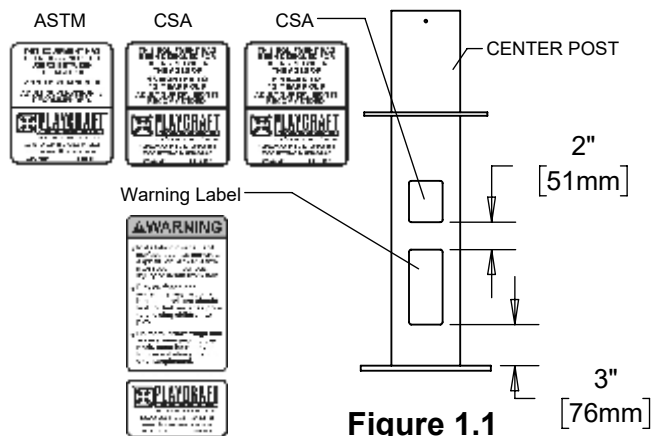
		Min. Use Zone	Age Range
ASTM	Speed Limiter	72"	2 yr.-12 yr.
ASTM	No Speed Limiter	108"	5 yr.-12 yr.
CSA	Speed Limiter	108"	18 mo.-12 yr.
CSA	No Speed Limiter	108"	5 yr.-12 yr.

## Step 2 (Factory Assembled)

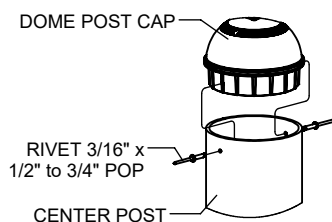
Apply Warning and Age Appropriate Label to Center Post as shown in Figure 1.1.

**NOTE:** See table for correct label

		Min. Use Zone	Age Range
ASTM	Speed Limiter	72"	2 yr.-12 yr.
ASTM	No Speed Limiter	108"	5 yr.-12 yr.
CSA	Speed Limiter	108"	18 mo.-12 yr.
CSA	No Speed Limiter	108"	5 yr.-12 yr.



**Figure 1.1**



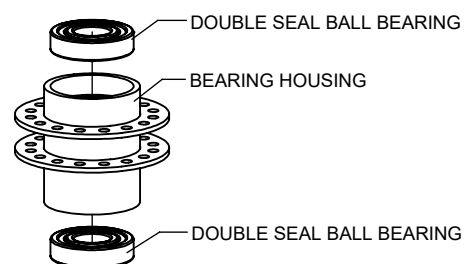
**FIGURE 2**

## Step 3 (Factory Assembled)

Attach Dome Post Cap to Center Post as shown in Figure 2.

## Step 4 (Factory Assembled)

Press Bearings into Bearing Housing as shown in Figure 3.

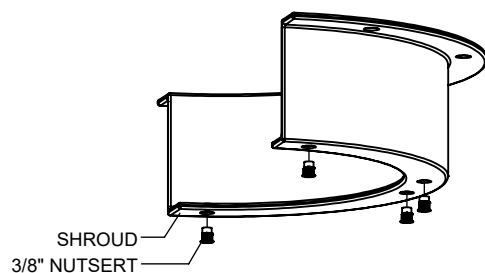


**FIGURE 3**

## Step 5 (Factory Assembled)

### For Speed Limiter Only

Insert Nutserts into Shroud as seen in Figure 4.



**FIGURE 4**

## Step 6 (Factory Assembled)

### For Speed Limiter Only

Attach 2-1/2" Wheels to Speed Limiter Arms as shown in Figure 5.

**NOTE:** Do not use liquid thread lock (such as Loctite®) on the 1/2" Jam Nuts and 1/2" x 2" Hex Bolts.

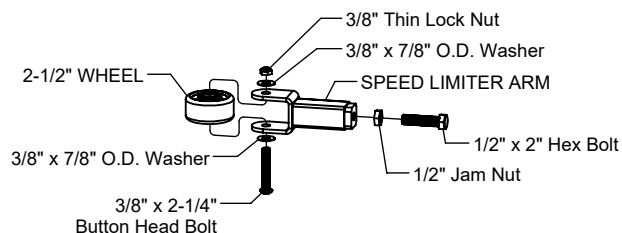


FIGURE 5

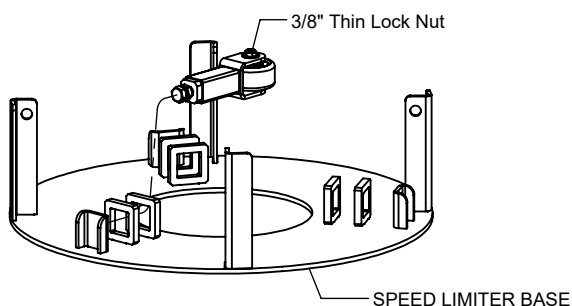


FIGURE 6

## Step 7

### For Speed Limiter Only

Insert Speed Limiter Arms into Speed Limiter Base as shown in Figure 6.

## Step 8

Attach Brackets to Bearing Housing as shown in Figure 7. (See Note A)

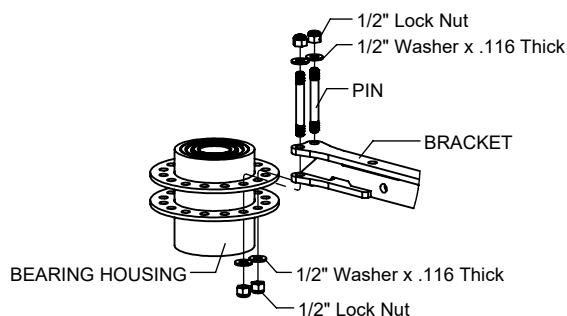


FIGURE 7

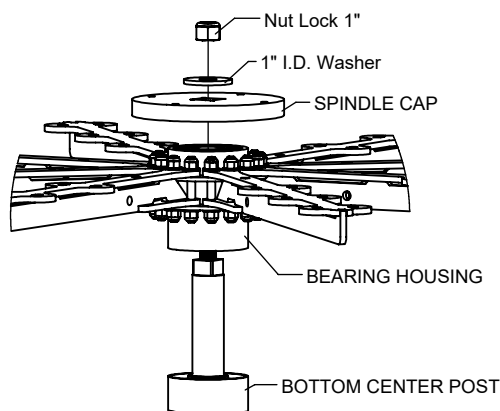


FIGURE 8a

## Step 9a

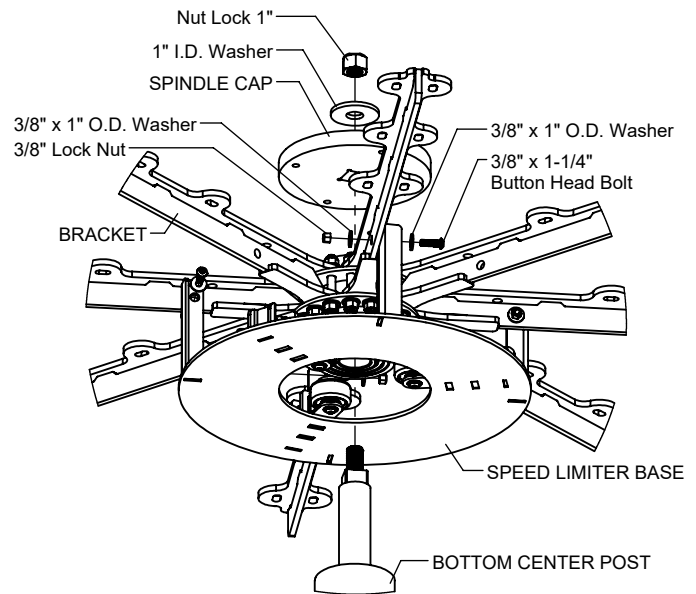
### Without Speed Limiter

Attach Spindle Cap to Bottom Center Post as shown in Figure 8a. (See Note A)

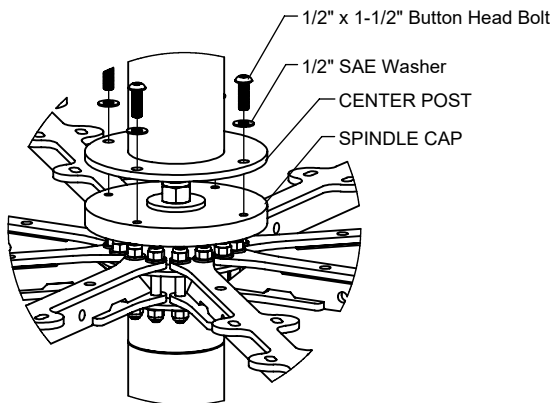
## Step 9b

### For Speed Limiter Only

Attach Spindle Cap to Bottom Center Post and attach Speed Limiter Base to Brackets as shown in Figure 8b. (See Note A)



**FIGURE 8b**



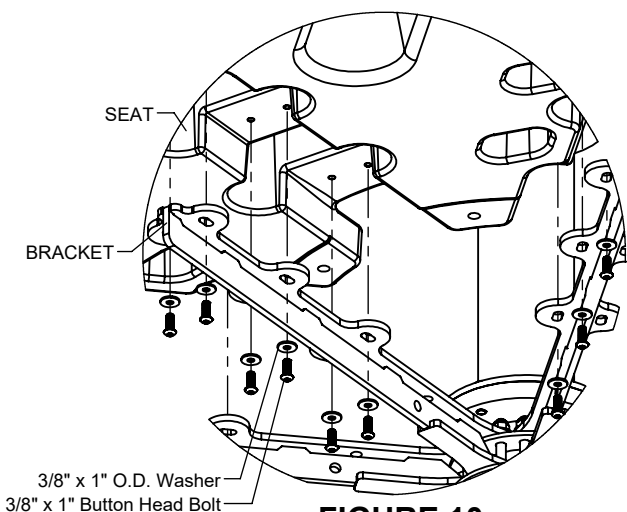
**FIGURE 9**

## Step 10

Attach Center Post to Spindle Cap as shown in Figure 9. (See Note A)

## Step 11

Attach Seats to Brackets as shown in Figure 10. (See Note A)

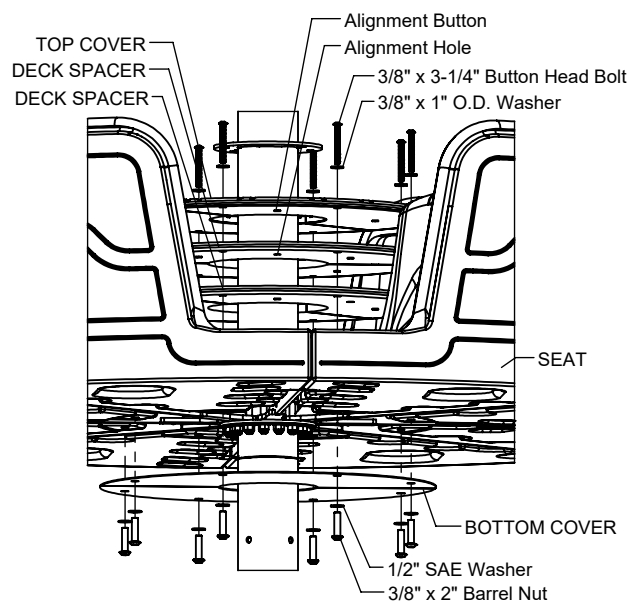


**FIGURE 10**

## Step 12

### Without Speed Limiter

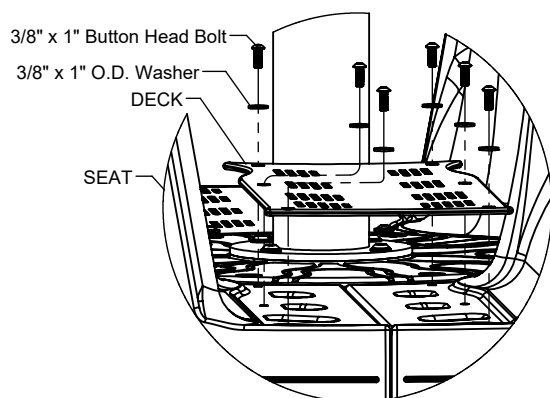
Attach Top Cover to Deck Spacers and Seats by mating Alignment Buttons to Alignment Holes, and attach to Bottom Cover as shown in Figure 1.2. (See Note A)



**Figure 1.2**

## Step 13

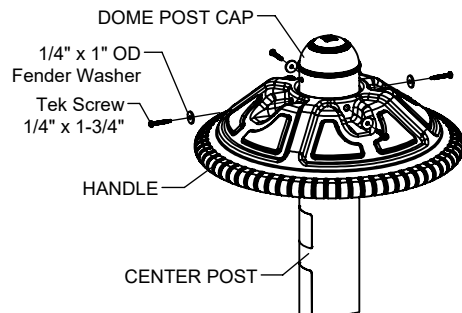
Attach Decks to Seats as shown in Figure 1.3. (See Note A)



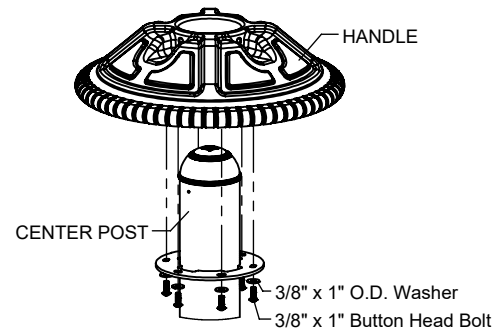
**Figure 1.3**

## Step 14

Attach Handle to Center Post as shown in Figure 1.4.  
 (See Note A)



**Figure 1.5**



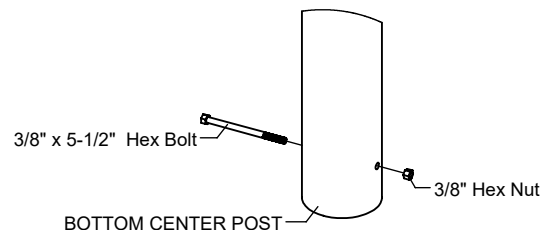
**Figure 1.4**

## Step 15

Secure Handle to Center Post as shown in Figure 1.5.

## Step 16

Install Footing Pin into Bottom Center Post as shown in Figure 11. (See Note A)



**FIGURE 11**

## Step 17

Affix "Top of Surfacing" label to base of Inclusive Merry-Go-Round indicating the top of minimum required surfacing depth. (See Note E)

## Step 18

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

## Step 19

Place Inclusive Merry-Go-Round into footing hole. 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 20

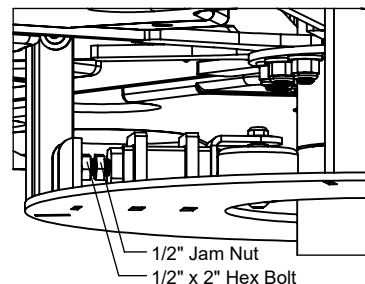
### For Speed Limiter Only

To set brake tension, loosen 1/2" Jam Nuts and adjust all Tension Adjustment Bolts by 1/4 turn as shown in Figure 12. Test number of revolutions per minute. Tighten or loosen bolts evenly using 1/4 turn increments. Tighten 1/2" Jam Nuts when brake tension is properly set.

(See Note C)

**NOTE:** Do not over tighten Tension Adjustment Bolts.

If any questions or concerns arise during the installation or maintenance of the Inclusive Merry-Go-Round brake, please contact the factory and ask to speak to a customer service representative at **1-800-333-8519**.



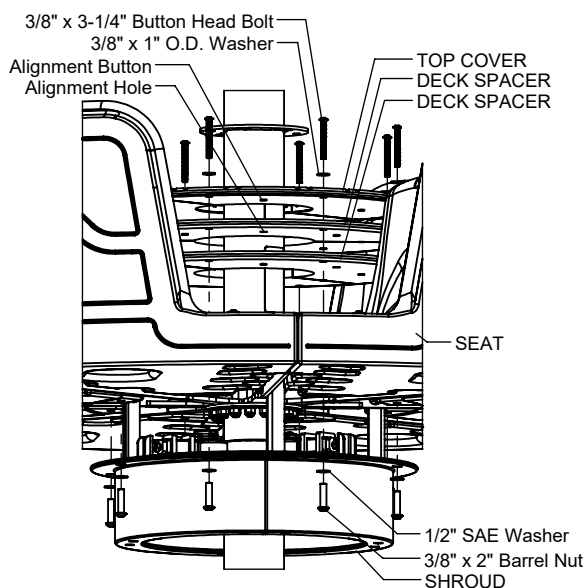
**FIGURE 12**

## Step 21

### For Speed Limiter Only

Attach Top Cover to Deck Spacers and Seats by mating Alignment Buttons to Alignment Holes, and attach to Shroud as shown in Figure 1.6.

**NOTE:** Do not use liquid thread lock (such as Loctite®) in this step.

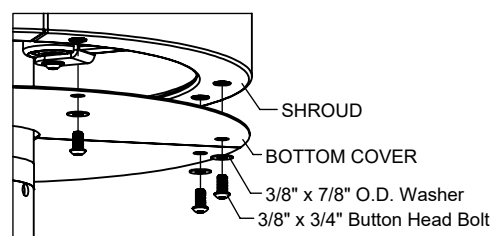


**Figure 1.6**

## Step 22

### For Speed Limiter Only

Attach Bottom Cover to Shroud as seen in Figure 13. (See Note A)



**FIGURE 13**

## Step 23

Place required protective surfacing under and around Inclusive Merry-Go-Round. (See Note D)

# INCLUSIVE MERRY-GO-ROUND INSTALLATION INSTRUCTIONS

**PC-2496**  
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## Parts List

A2-2496 - Merry-Go-Round		
Part #	DESCRIPTION	QTY.
AE-1152	1" I.D. Washer	1
AE-0885	Merry-Go-Round Deck Insert	4
AE-0886	Merry-Go-Round Bottom Cover	2
AE-1603	Merry-Go-Round Spindle Cap	1
DE-0080	Merry-Go-Round Seat	4
DE-0081	Merry-Go-Round Handle	1
EE-0553	Merry-Go-Round Top Cover	2
EE-0556	Merry-Go-Round Top Spacer	4
FS-PC2496-B	Merry-Go-Round Bracket	8
FS-PC2496-BCP	Merry-Go-Round Bottom Center Post	1
IE-0119	Merry Go Round Pin	16
372017	Top of Surfacing Label	1
9103052-TR	Bolt Button Head 3/8" x 1"	78
9103142-TR	Bolt Button Head 3/8" x 3-1/4"	8
9105072	Bolt Button Head 1/2" x 1-1/2"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9271082-TR	1/4" x 1-3/4" Tek Screw	4
9321052-THK	Washer Fender 1/4" x 1" OD x .125" thk	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	86
9335002	Washer Flat 1/2" (.116" thick)	32
9345002	Washer Flat SAE 1/2"	12
9410051	Nut Lock 1"	1
9415132	Nut Lock 1/2"	32
9443092-TR	Nut Barrel 3/8" x 2" BH	8
9483602	Nut Hex 3/8"	1

## Assembled Parts List

A2-2496 - Merry-Go-Round		
Part #	DESCRIPTION	QTY.
FS-PC2496-BH	Merry-Go-Round Bearing Housing	1
FS-PC2496-TCP	Merry-Go-Round Top Center Post	1
GF-7002	Post Cap R5 Dome	1
Varies	Age Appropriate Label	1
372016	Warning Label	1
481631	Double Seal Ball Bearing	2
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2



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**Rev F**  
12/28/2021

# INCLUSIVE MERRY-GO-ROUND INSTALLATION INSTRUCTIONS

**PC-2496**  
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## Parts List

A2-2496-SPL - Merry-Go-Round - Speed Limiter		
Part #	DESCRIPTION	QTY.
AE-1152	1" I.D. Washer	1
AE-0885	Merry-Go-Round Deck Insert	4
AE-0923	Merry-Go-Round Speed Limiter Bottom Cover	2
AE-1603	Merry-Go-Round Spindle Cap	1
DE-0080	Merry-Go-Round Seat	4
DE-0081	Merry-Go-Round Handle	1
EE-0553	Merry-Go-Round Top Cover	2
EE-0556	Merry-Go-Round Top Spacer	4
FS-PC2496-B	Merry-Go-Round Bracket	8
FS-PC2496-BCP	Merry-Go-Round Bottom Center Post	1
FS-PC2496-SLB	Speed Limiter Base	1
IE-0119	Merry Go Round Pin	16
372017	Top of Surfacing Label	1
9103032-TR	Bolt Button Head 3/8" x 3/4"	8
9103052-TR	Bolt Button Head 3/8" x 1"	78
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	4
9103142-TR	Bolt Button Head 3/8" x 3-1/4"	8
9105072	Bolt Button Head 1/2" x 1-1/2"	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9271082-TR	1/4" x 1-3/4" Tek Screw	4
9321052-THK	Washer Fender 1/4" x 1" OD x .125" thk	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	94
9333042	Washer Flat 3/8" x 7/8" O.D.	8
9335002	Washer Flat 1/2" (.116" thick)	32
9345002	Washer Flat SAE 1/2"	12
9410051	Nut Lock 1"	1
9413002	Nut Lock 3/8"	4
9415132	Nut Lock 1/2"	32
9443092-TR	Nut Barrel 3/8" x 2" BH	8
9483602	Nut Hex 3/8"	1

## Assembled Parts List

A2-2496-SPL - Merry-Go-Round - Speed Limiter		
Part #	DESCRIPTION	QTY.
CE-0921	Merry-Go-Round Shroud	2
FS-PC2496-BH	Merry-Go-Round Bearing Housing	1
FS-PC2496-TCP	Merry-Go-Round Top Center Post	1
FS-PC2476-LTR	Speed Limiter Arm	3
GF-7002	Post Cap R5 Dome	1
Varies	Age Appropriate Label	1
321250	2-1/2" Merry-go-Round Wheel	3
372016	Warning Label	1
455110	Nutsert 3/8 x .690	8
481631	Double Seal Ball Bearing	2
9103102-TR	Bolt Button Head 3/8" x 2-1/4"	3
9125092	Bolt Hex 1/2" x 2"	3
9333042	Washer Flat 3/8" x 7/8" O.D.	6
9423002	Nut Lock Thin 3/8"	3
9485132-JAM	Jam Nut 1/2" Zinc	3
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	2



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**Rev F**  
12/28/2021

## Specifications

### **MERRY-GO-ROUND SPINDLE CAP:**

Shall be made from precision cut 1/2" thick steel and will have a multi-stage baked-on powder coat finish.

### **MERRY-GO-ROUND HANDLE & SEAT:**

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

### **MERRY-GO-ROUND DECK & SHROUD:**

Shall be fabricated using punched and welded 14 gauge sheet steel and will be Play-Tuff™ coated after fabrication.

### **MERRY-GO-ROUND TOP COVER & SPACERS:**

Shall be made from high density 3/4" sheet plastic specially formulated for optimum UV stability and color retention.

### **MERRY-GO-ROUND BRACKET:**

Shall be fabricated using welded 3/8" thick steel plates and will have a multi-stage baked-on powder coat finish.

### **MERRY-GO-ROUND TOP CENTER POST:**

Shall be fabricated using 5" O.D. 7 gauge steel tubing using welded 1/4" thick and 3/8" thick steel mounting plates and will have a multi-stage baked-on powder coat finish.

### **MERRY-GO-ROUND BOTTOM CENTER POST:**

Shall be fabricated using 5" O.D. 7 gauge steel tubing using welded 3/8" thick steel mounting plates securing a machined 2.5" O.D. steel spindle and will have a multi-stage baked-on powder coat finish.

### **SPEED LIMITER ARM:**

Shall be fabricated using 1-1/4" square 16 gauge steel tubing with welded 3/8" thick steel plug and 3/16" thick steel clevis and will have a multi-stage baked-on powder coat finish.

### **SPEED LIMITER BASE:**

Shall be fabricated using 1/4" thick steel plate with welded 3/16" thick steel tabs and welded 3/8" thick steel ring blocks and will have a multi-stage baked-on powder coat finish.

### **BEARING HOUSING:**

Shall be machined using 5" O.D. 1/2" wall with a welded 1/4" thick steel mounting plate and will have a multi-stage baked-on powder coat finish.

### **MERRY-GO-ROUND BOTTOM COVER:**

Shall be made from precision cut 14 gauge sheet steel and will have a multi-stage baked-on powder coat finish.

### **POST CAP R5 DOME:**

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

### **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.