

## IMPORTANT NOTES: Read First

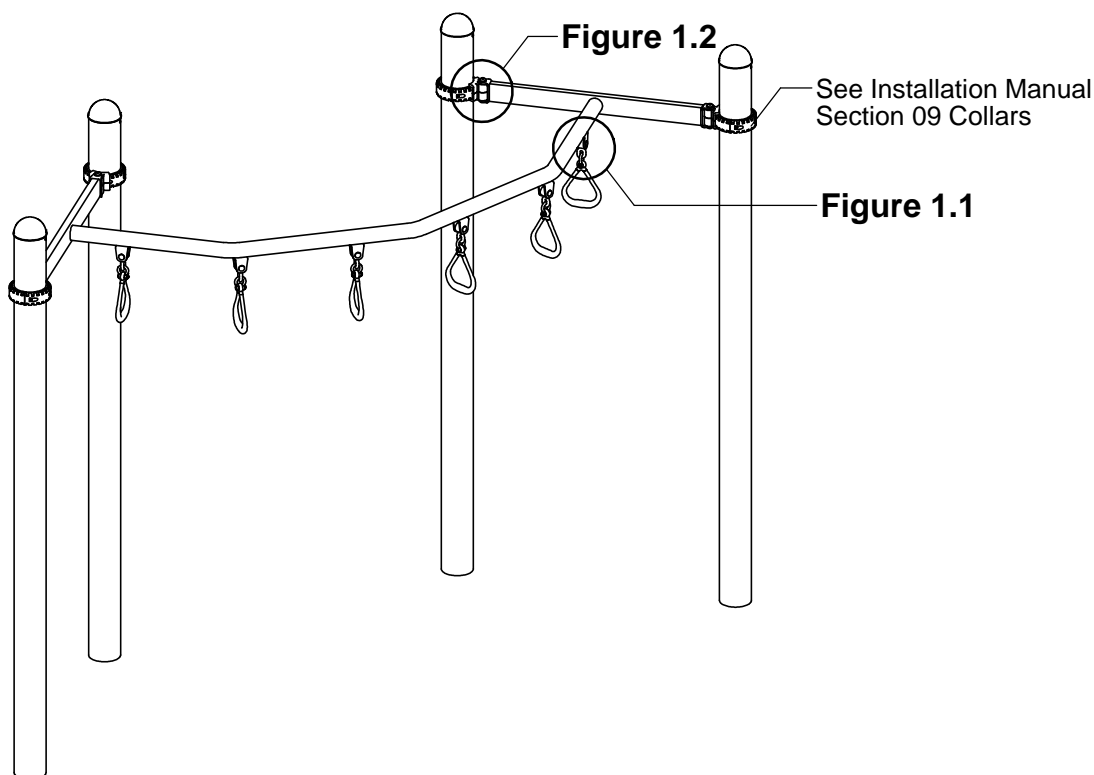
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars assembly instructions.

(C) The maximum height of the rungs (at grasping point) from the top of the ground cover varies by age group: Ages 2-5: 60" [1524 mm] above ground cover. Ages 5-12: 84" [2130 mm] above ground cover.

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. 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**  
90° Ring Traverse



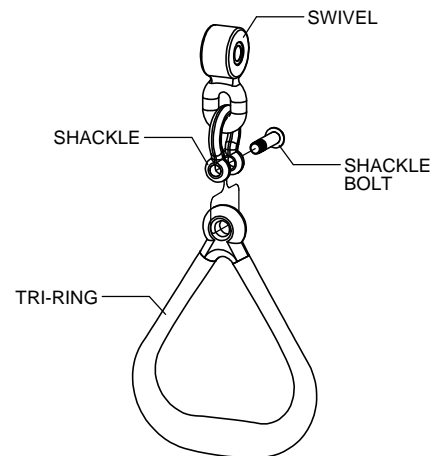
**NOTE:** R5 90° Ring Traverse shown. Other configurations will vary slightly, but does not affect assembly.

## Step 1

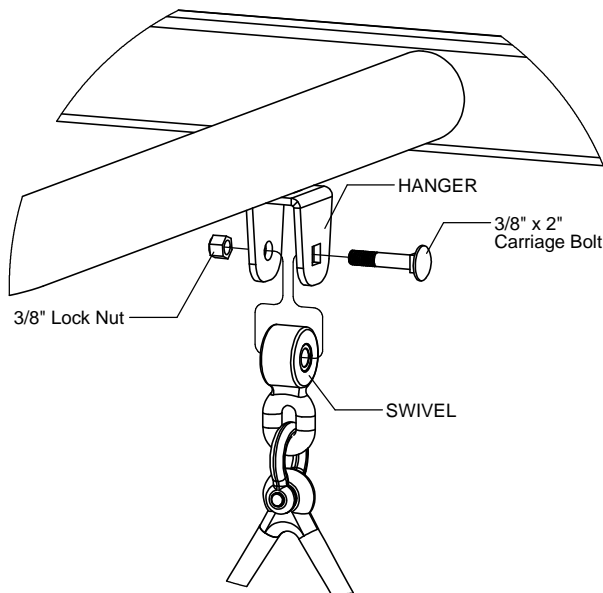
Locate and attach collars at desired heights.  
(See Notes B & C)

## Step 2

Attach Tri-Ring to Swivel as shown in Figure 2.  
(See Note A)



**FIGURE 2**



**Figure 1.1**

## Step 3

Attach Swivel to Hanger as shown in Figure 1.1.  
(See Note A)

## Step 4

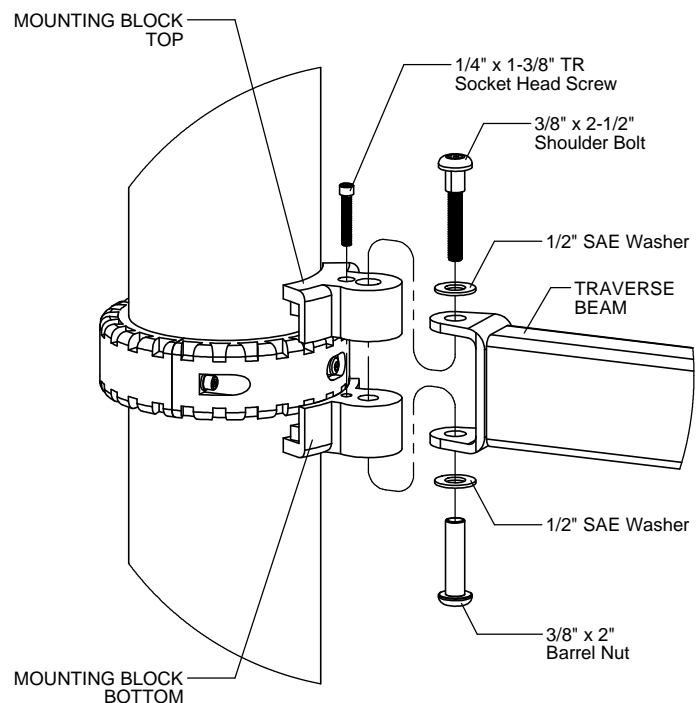
Attach Traverse Beam to collars as shown in Figure 1.2. (See Note A)

## Step 5

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

## Step 6

Place appropriate compliant protective surfacing under and around 90° Ring Traverse.  
(See Note D)



**Figure 1.2**

## Parts List

R3.5 ASSEMBLY		
Part #	DESCRIPTION	QTY
FS-1409-R3590	Ring Traverse 90°R35	1
GG-8125	Mounting Block 6 Top R3.5	4
GG-8127	Mounting Block 6 Bottom R3.5	4
411000	Tri-Ring	6
451161-SS	Swing Shackle - Stainless Steel	6
471002	Swing Hanger w/ Nut & Bolt	6
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9345002	Washer Flat SAE 1/2"	8
9443092-TR	Nut Barrel 3/8" x 2" BH	4

R5 ASSEMBLY		
Part #	DESCRIPTION	QTY
FS-1409-R590	Ring Traverse 90°R5	1
GF-7006-B	Mounting Block R5 Bottom	4
GF-7006-T	Mounting Block R5 Top	4
411000	Tri-Ring	6
451161-SS	Swing Shackle - Stainless Steel	6
471002	Swing Hanger w/ Nut & Bolt	6
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	4
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	4
9345002	Washer Flat SAE 1/2"	8
9443092-TR	Nut Barrel 3/8" x 2" BH	4

## Specifications

### 90 ° RING TRAVERSE:

Shall be fabricated using 2.375" O.D. 10 gauge steel tubing welded between 1-1/2" x 3" 11 gauge steel supports with 1/4" thick steel clevises. The 90° Ring Traverse shall have a multi-stage baked-on powder coat finish.

### MOUNTING BLOCKS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Mounting Blocks shall 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.



Manufactured by Krauss Craft, Inc.  
www.playcraftsystems.com

For Customer Service Call  
800.333.8519 (U.S.A.) or  
541.955.9199 (International)

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