

**IMPORTANT NOTES: Read First**

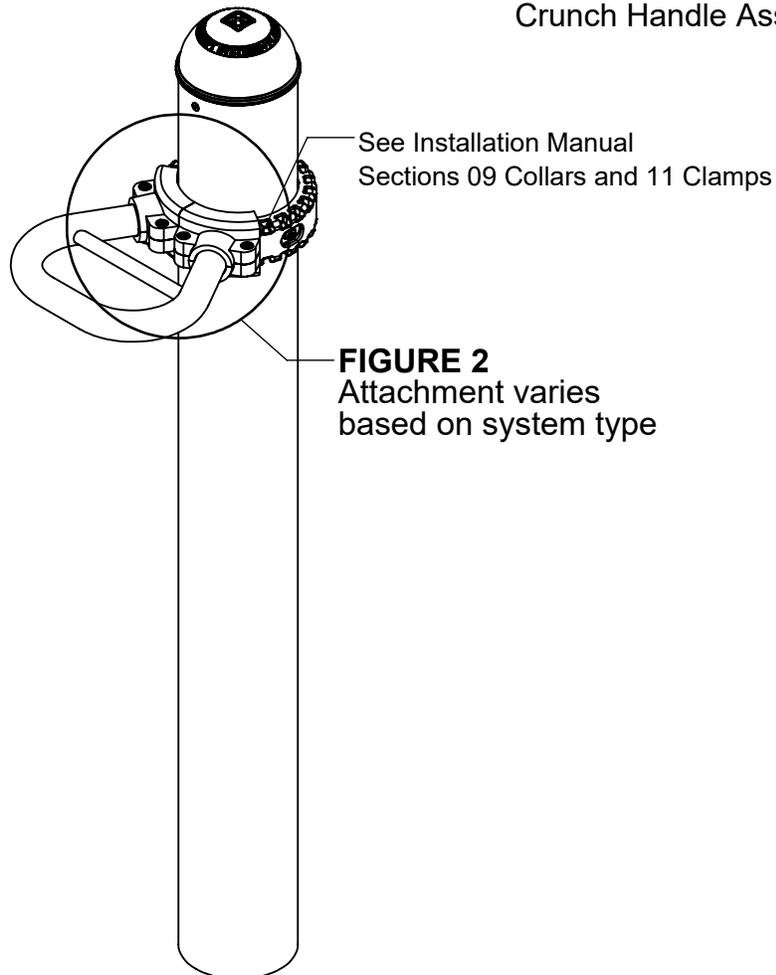
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Refer to Installation Manual for 09 Collars and R5-11 Socket Clamps installation instructions.

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

(D) 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**  
Crunch Handle Assembly



**NOTE:** R5 Crunch Handle shown.  
Other configurations will vary slightly.

## Step 1

For R5 and R3.5 Versions, locate and attach Collars at height designated on the Assembly View. (See Notes B & C)

## Step 2

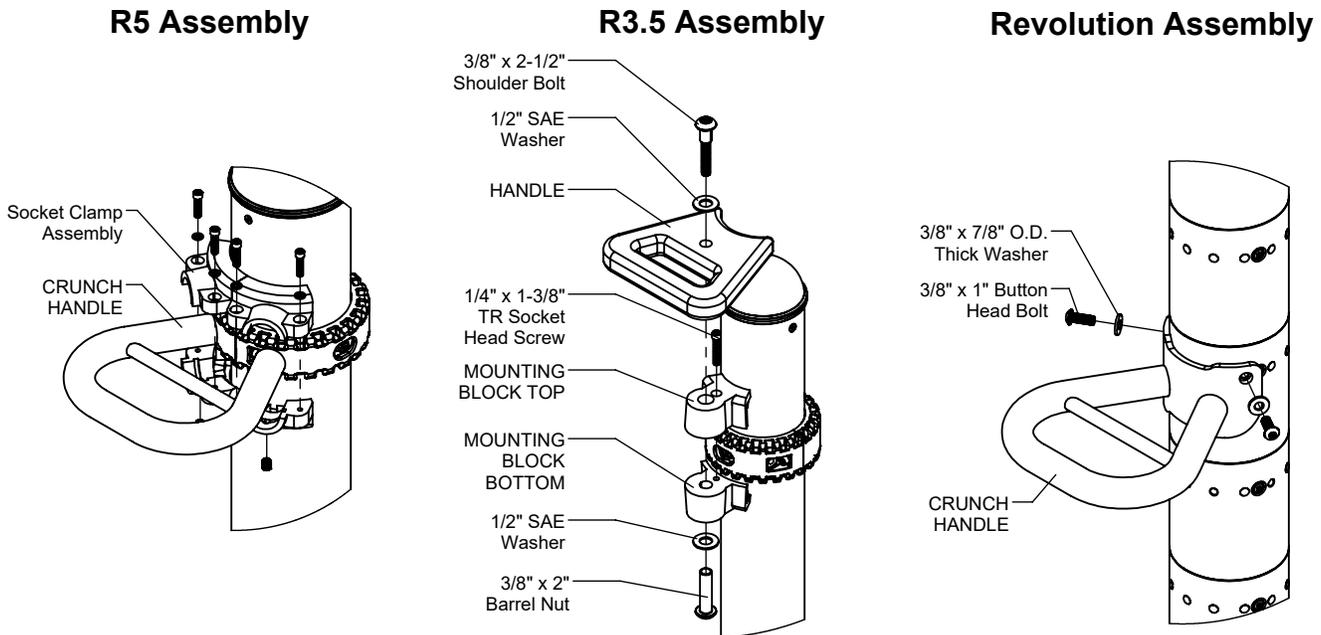
Attach Crunch Handle to Post as shown in Figure 2. (See Notes A & B)

## Step 3

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

## Step 4

Place required protective surfacing under and around Crunch Handle. (See Note D)



**FIGURE 2**

## Parts Lists

R5 CRUNCH HANDLE		
Part #	DESCRIPTION	QTY
FS-1937-R5	Crunch Handle R5	1
HS-1001-R5	Socket Clamp Set R5	2

R3.5 CRUNCH HANDLE		
Part #	DESCRIPTION	QTY
EG-8328	Crunch Handle R3.5	1
GG-8110	Mounting Block 4 Top R3.5	1
GG-8111	Mounting Block 4 Bottom R3.5	1
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	1
9281062-5-TR	Screw Soc HD CS 1/4" x 1-3/8" TR	1
9345002	Washer Flat SAE 1/2"	2
9443092-TR	Nut Barrel 3/8" x 2" BH	1

REVOLUTION CRUNCH HANDLE		
Part #	DESCRIPTION	QTY
FS-1937-RV	Crunch Handle RV	1
9103052-TR	Bolt Button Head 3/8" x 1"	2
9339042	Washer Flat 3/8" x 7/8" O.D. x .100" Thick	2

## Specifications

### CRUNCH HANDLE R5:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with a welded 0.625" H.R. round bar crossbar. The Crunch Handle R5 shall have a multi-stage baked-on powder coat finish.

### CRUNCH HANDLE R35:

Shall be made from high density 1" sheet plastic specially formulated for optimum UV stability and color retention.

### CRUNCH HANDLE RV:

Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with a welded 0.625" H.R. round bar crossbar and 1/4" thick stainless steel mounting bracket. The Crunch Handle RV shall have a multi-stage baked-on powder coat finish.

### SOCKET CLAMPS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps 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 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.

