

INSTALLATION INSTRUCTION

APPLIES TO THE FOLLOWING COUPLERS: H-3, H3BOS Series, AH3, AH4 & H3LA Series

PARTS FUNCTION: There is a definite purpose for each part. Use ALL the parts for safest use and to prolong useful life. Install parts as shown. The body and parts shown comprise a positive locking device in Croft, K.C., MO couplers. The square bolt head cannot turn in the **C-3** Lip (ball clamp), thus the **N-3** Loop Nut (or **K-3** Handwheel Knob) must turn uphill against gravity and ratchet up and down over the ribs around the bolt hole in order to loosen. Both the **W-3** Washer and **S-3** Spring exert pressure down, joining the ribs and notches securely. All these features prevent loosening. Do not ignore them.

INSTALLATION: Coupler steel is ASTM A 27-80, Class 65-35. Weld at least entire bottom edge of both sides with good penetration using mild steel electrode or wire welder. If bolted, use 1/2" grade 5 bolts with **H3BOS** series couplers. Use 5/8" bolts with **AH3/AH4** series adj. couplers.

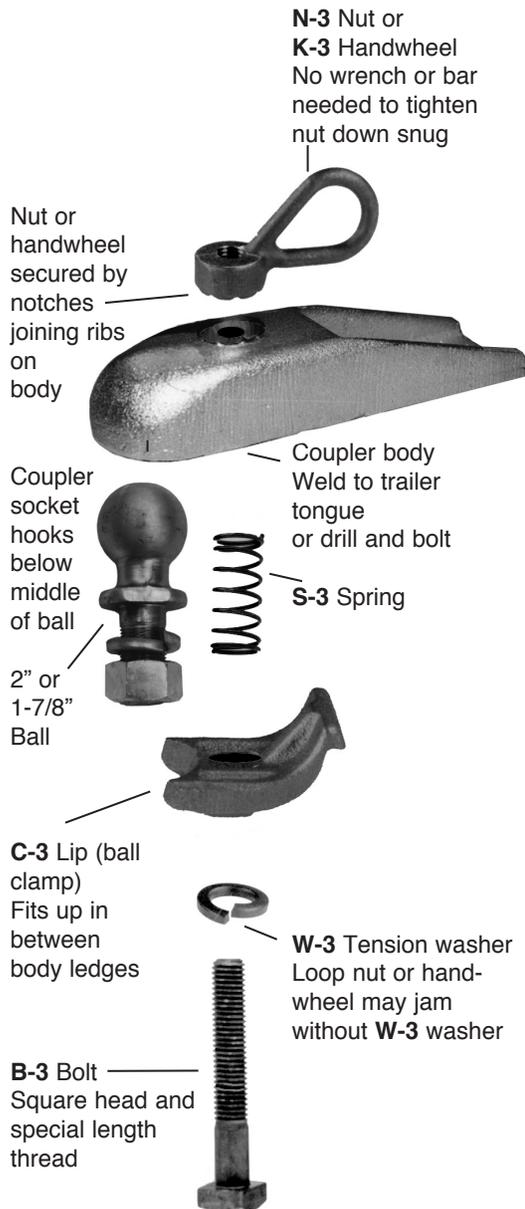
MAINTENANCE: Oil threads of bolt and loop nut or handwheel periodically. Check ribs on top of coupler and bottom of loop nut or handwheel for wear. Replace any missing, broken, damaged or worn parts with genuine Croft, K.C., MO. parts only. DO NOT SUBSTITUTE regular nuts or other loop nuts or handwheels for Croft, K.C., MO **N-3** Loop Nut or **K-3** Handwheel Knob. DO NOT use hex head bolts in place of square head **B-3** Bolt. DO NOT leave out **W-3** Washer or **S-3** Spring. Use of parts other than genuine Croft, K.C., MO. voids warranty. Check coupler to make sure the **C-3** Lip and all parts are in place correctly before using or renting. DO NOT use a wrench or bar to tighten couplers. **HAND TIGHTEN ONLY.**

LIMITATIONS ON WARRANTY COVERAGE: Warrantor has no liability whatsoever and this warranty is null and void if any Croft coupler has been misassembled or subjected to neglect, negligence, misuse, accident or operated in anyway contrary to the operating and maintenance instructions as specified in the provided Croft Assembly & Safety Instructions for that model coupler and repair kit.

H-3 ASSEMBLY

ASSEMBLY INSTRUCTIONS

H-3 CUTAWAY-PARTS INSTALLED



INSTALL ON BALL:

Loosen loop nut or handwheel. The spring will push the lip down. Put coupler socket down over ball. While tightening, feel under coupler to make sure square bolt head is up in the square lip cavity and the lip under the ball head. Jiggle coupler up and down on the ball to make sure it is snug while tightening.

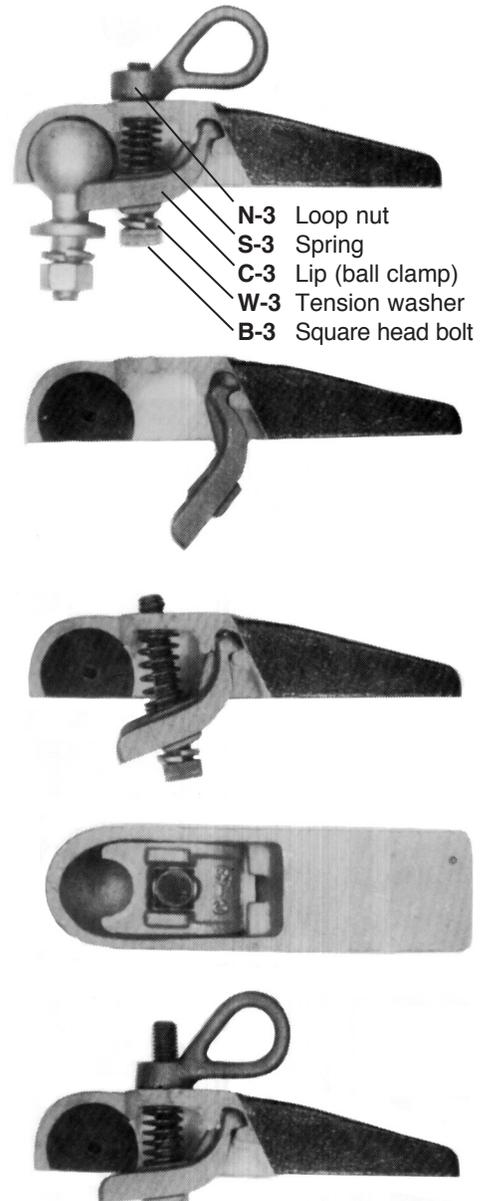
Cutaway photos of coupler with parts installed. Top photo at right showing ball in coupler socket and installed parts. Photos below at right show the sequence and position of parts.

Install **C-3** Lip up in between the ledges inside the coupler body by hooking the rear flat surface over the horizontal ledge, then swing the lip forward. The lip hinges on top of the horizontal ledge and is held by both ledges when swings forward.

Put the **S-3** Spring between the lip and inside of coupler under the bolt hole. Put the **W-3** Washer on the bolt, then push the bolt up through the lip, spring and body bolt hole. The **W-3** Washer provides extra spring tension to allow the notches in either the **N-3** Loop Nut or **K-3** Handwheel Knob to join and ratchet up and down over the ribs around the body bolt hole.

Underneath view of coupler showing lip, (spring), washer & bolt in place. Note that the square head of the bolt fits into the square cavity of the lip.

Screw either the **N-3** Loop Nut or **K-3** Handwheel Knob on the bolt. Note how notches in them join the ribs around the body bolt hole as lip is drawn up.



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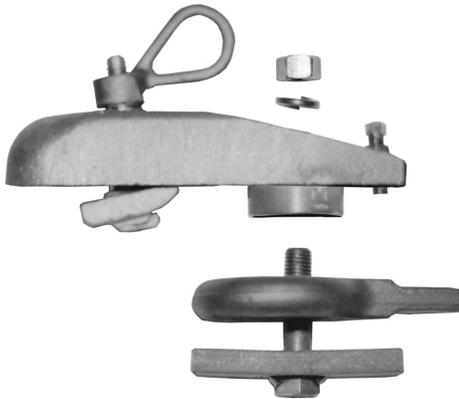
We strongly recommend studying and following these instructions as well as those for our couplers on page 142. Special attention is directed to drilling a shallow hole for the set-screw to engage to prevent the adapter from turning in the tow ring.

CROFT H3LA SERIES RING-TO-COUPLER ADAPTERS

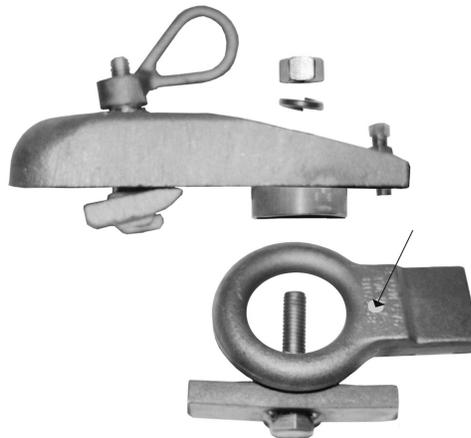
ASSEMBLY

STEP 1

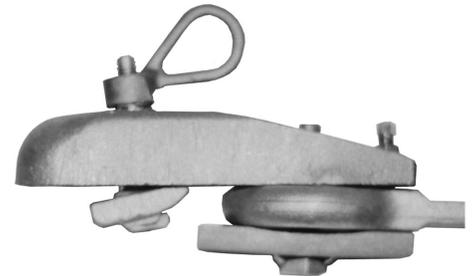
STEP 2



Exploded photo of an adapter showing position of clamping parts on tow ring. Bolt head welded to clamp bar. Coupler ring is tapered for variations of inside diameter of tow ring (lunette).

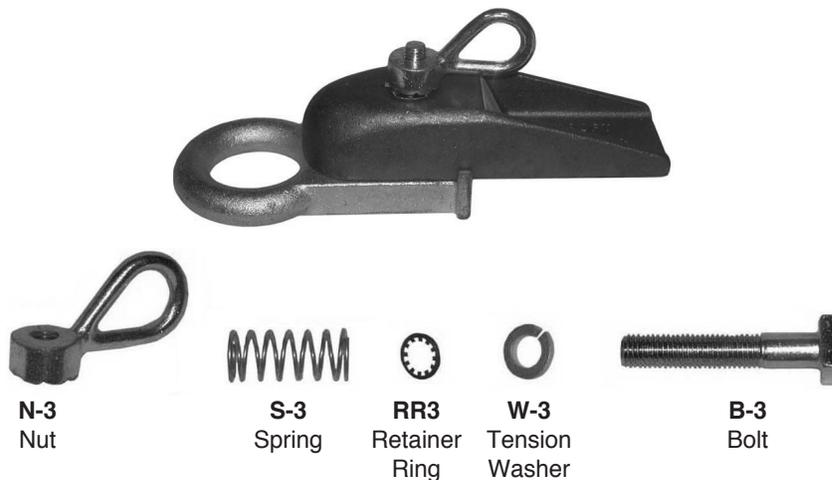


Remove set screw. Put adapter on tow ring and center punch through set screw hole. Drill shallow hole for set screw point to prevent adapter turning, as shown above.



Adapter shown clamped to a tow ring. Put adapter ring down in tow ring. Push clamp bar bolt up through tow ring and hole in adapter body. Install lock washer and nut. Tighten nut with socket wrench. Turn set screw down snug in indentation and tighten jam nut on set screw.

C2RA-1 WITH CROFT H-3 COUPLER



N-3
Nut

S-3
Spring

RR3
Retainer
Ring

W-3
Tension
Washer

B-3
Bolt

1. Disassemble coupler.
2. Put **W-3** washer on **B-3** bolt. Insert bolt through square adapter hole. Push **RR3** retaining ring down over bolt against casting to hold bolt in place.
3. Put **S-3** spring on bolt. Push bolt through coupler bolt hole. Turn **N-3** nut down on bolt a few turns.
4. Push adapter up into coupler body as far forward as possible with the slanted rear brace ahead on the vertical ledges.
5. Tighten nut making sure adapter seats solidly against bottom of coupler with rear risers outside body.