

Procedure 3100: Cam Arm Replacement for Boss-Lock™ Couplers

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Process for Pull-Ring Safety Clip and EZ Boss-Lock™ Handles

- 1. Inspect safety pin lug (see item 2 below) as follows:
 - a. For handles having the pull ring safety clip, a hole in the pin lug must be present. If the hole is closed or the lug is worn down to the hole, discard the coupler.
 - b. For EZ Boss-Lock™ handles, if the pin lug (see item 2 below) is bent, worn, broken or in any way altered, discard the coupler.
- 2. Place the coupler in a vise as follows:
 - a. Open the vise slightly wider than the coupler body width.
 - b. Position the coupler so that it is resting on the safety pin lugs (see item 2 below).
 - c. Position the coupler so the vise jaws will contact the coupler body (see item 1 below) just below the cam arm lugs (see item 3 below).
 - d. Making sure that the cam arms (see item 4 below) are in the full open position, snug the vise on the coupler body.



Caution! Do not tighten excessively. Excessive vise pressure can distort the coupler.

- 3. Using a standard round punch and hammer, tap the cam arm pin (see item 5 below) through the cam arm (see item 4 below) and through the opposite side cam arm lug (see item 3 below).
- 4. Holding on to the cam arm (see item 4 below), remove the punch from the cam arm lugs (see item 3 below) and lift out the cam arm.
Note: Once the cam arm pins and cam arms have been removed, discard them. Never install used cam arm pins or used cam arms.
- 5. Using a new cam arm pin, place either end into the cam arm lug hole (see item 3 below). Using a hammer, gently tap the cam arm pin until it begins to enter the opening between the two cam arm lugs.
- 6. Using a new cam arm, position it between the cam arm lugs and gently tap the cam arm pin with a hammer until it enters the hole in the cam arm. Continue tapping the cam arm pin until it is flush with the cam arm lug.
- 7. Repeat the above steps for the other cam arm.
Note: Always replace both cam arm pins and both cam arms even if only one cam arm is damaged.
- 8. Inspect as follows:
 - a. *For Pull Ring Safety Clip Handles:*
 - 1) Close the cam arm.
 - 2) Insert clip part of pull ring through the hole in the safety pin lug.
 - 3) Repeat above for the other cam arm.
 - 4) If both clips do not successfully engage the pin lug, remove cam arms and pins and discard the coupler.
 - b. *For EZ Boss-Lock™ handles:*
 - 1) Close the cam arm.
 - 2) Grasp the pull ring and attempt to pull the cam arm away from the coupler body
 - 3) Repeat above for the other cam arm. If either cam arm opens up, remove the cam arm and pins and discard the coupler.

