

Procedure 3100: Cam Arm Replacement for 2" and 3" Boss-Lock Couplers

effective 02/08

Process for Pull-Ring Safety Clip and EZ Lock Handles

- 1. Inspect safety pin lug (see item 2 below) as follows:
 - a. For handles having the pull ring safety clip, hole in pin lug must be present. If hole is closed or lug is worn down to the hole, discard 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 coupler.
- 2. Place coupler in a vise as follows:
 - a. Open vise slightly wider than coupler body width.
 - b. Position coupler so that it is resting on the safety pin lugs (see item 2 below).
 - c. Position coupler so that vise jaws will contact 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 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).

Note: For 2" couplers, use 1/4" punch. For 3" couplers, use 5/16" punch.
- 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 cam arm.
 - 2) Insert clip part of pull ring through hole in safety pin lug.
 - 3) Repeat above for other cam arm.
 - 4) If both clips do not successfully engage pin lug, remove cam arms and pins and discard coupler.
 - b. *For EZ Lock handles:*
 - 1) Close cam arm.
 - 2) Grasp pull ring and attempt to pull cam arm away from coupler body
 - 3) Repeat above for other cam arm. If either cam arm opens up, remove cam arm and pins and discard coupler.

SAFETY
ALERT

