

Installation Instruction

Slow Close Actuator Replacement

⚠️ WARNING

Service technicians bear responsibility for ensuring use of appropriate protective clothing and equipment. The chosen protective clothing and equipment must provide protection from potential hazards users may encounter while servicing or operating TFT equipment. Requirements for protective clothing and equipment are determined by the Authority Having Jurisdiction (AHJ).

1.0 PURPOSE

This service procedure describes field replacement of the TFT Slow Close Actuator assembly.

2.0 PROCEDURE

2.1 REMOVING THE SLOW CLOSE ACTUATOR ASSEMBLY

1. Place the valve in the fully open position.
2. Using a blade or flat screwdriver, carefully remove the label from the slow close knob.
3. Rotate the knob until the thru holes in the knob align with the button head screws.
4. Remove both screws with a 5/32" hex key. Figure 2.1 (4). Discard the screws.
5. Lift the slow close valve assembly up and out of the casting. Figure 2.1 (5).



Figure 2.1 (4)



Figure 2.1 (5)

2.2 INSTALLING THE SLOW CLOSE ACTUATOR ASSEMBLY

1. On the new assembly, turn knob counter-clockwise until it reaches the travel stop.
2. Turn knob clockwise, less than a half turn, to align thru holes with the button head screws.
3. Using a 5/32" hex key, remove the button head screws. Figure 2.2 (3A). Remove and discard the plastic guard. Figure 2.2 (3B). Retain screws. Figure 2.2 (3C).



Figure 2.2 (3A)

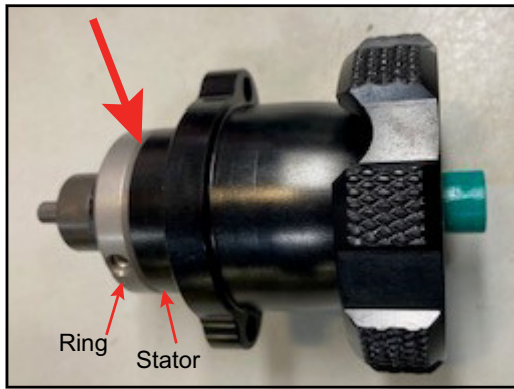


Figure 2.2 (3B)

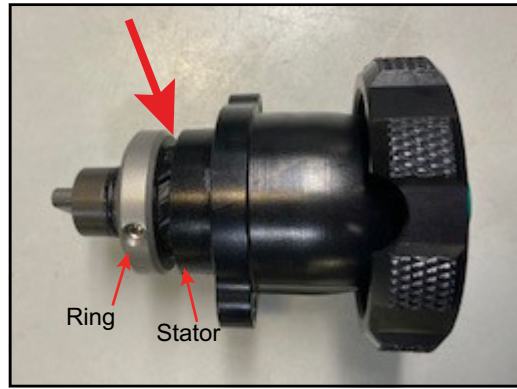


Figure 2.2 (3C)

- Ensure the ring is sitting against the stator. Figure 2.2 (4A). If the ring is not sitting against the stator as in Figure 2.2 (4B), turn the knob clockwise until it sits against the stator.



CORRECT
Figure 2.2 (4A)



INCORRECT
Figure 2.2 (4B)

- If the valve ball is not fully open, manually move the half ball to the open position. Figure 2.2 (5A). The tab detail must be visible in the trunnion hole in the side of the casting. Figure 2.2 (5B).



Figure 2.2 (5A)

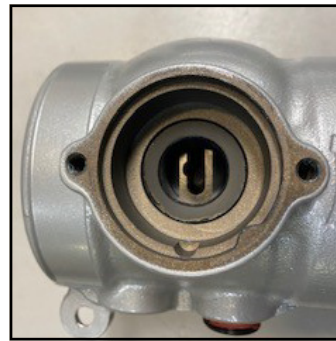


Figure 2.2 (5B)

- Align the trunnion tab on the actuator assembly with the tab of the half ball and install the valve assembly. Figure 2.2 (6).
- Turn the entire Slow Close Actuator assembly to align the holes in the tabs with the threaded holes in the casting.
- Apply blue Loctite or equivalent to the screws removed in Section 2.2 Step 2 and begin to install by hand.

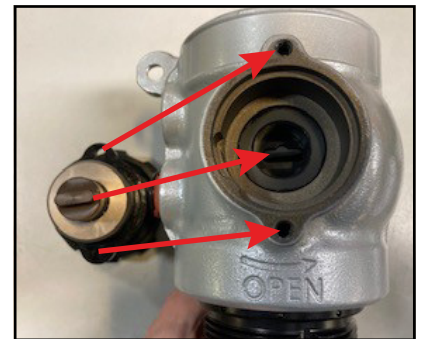


Figure 2.2 (6)

- Rotate the slow close knob to align thru holes with the screws and tighten to hand-tight.
- If the slow close knob is equipped with a detent ring, set the detent position per user manual **LIA-501 4-Way Valved Manifold with Detented Slow Close**.
- Check for proper installation by rotating the knob from the full open to full closed position while watching to ensure the valve ball is fully open and closed when indicated.
- Apply a new label. Figure 2.2 (12).



Figure 2.2 (12)