How to Repair an AccuValve Actuator Using Kit #12686

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TOOLS:

- Ratcheting Snap Ring Pliers (1)
- Snap Ring Pliers (1)
- Vise (1)
- 5/64" Allen Wrench (1)

PARTS:

- O-Ring, 70 Duro #11679-230 (1)
- O-Ring, 70 Duro (-010) #11679-010 (1)
- O-Ring, 70 Duro #11679-011 (1)
- O-Ring, 70 Duro #11679-016 (1)
- Poly Seal, 125-2.5-SQB #12737 (1)
- Fitting, 1/8" NPT x 1/4" Tube #12736 (1)
- Exhaust Muffler, 1/8" #12735 (1)
- Spring, AccuValve #1269 (6)
- Snap Ring #12689 (1)
- Snap Ring #12690 (1)
- O-ring Lube #13969 (1)

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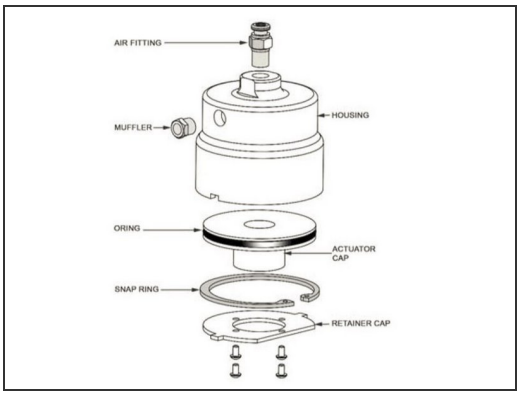
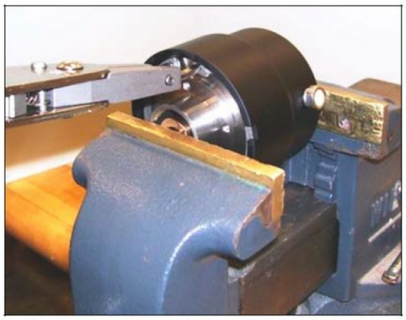
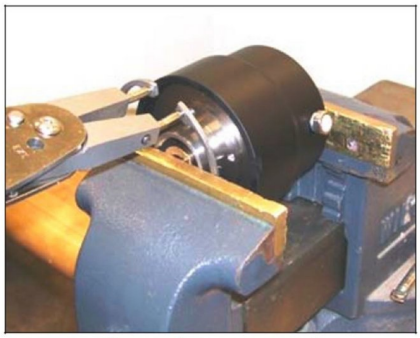
Step 1 — Disassemble Actuator




Valve in vise

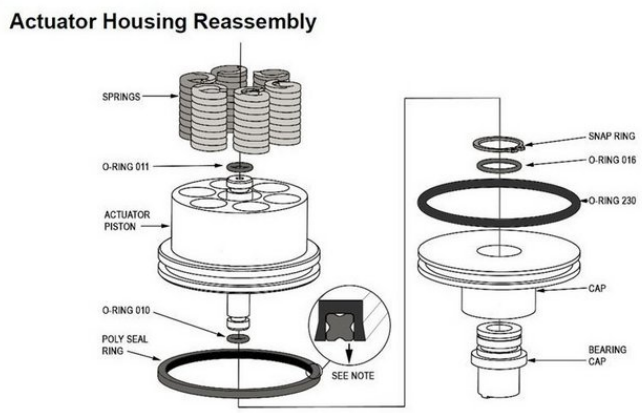

Snap-ring removed

- Remove the air fitting from the top of the actuator
- Using a 5/64" Allen Wrench, remove the retainer cap from the bottom of the actuator.
- Place the actuator in a bench vise. Tighten the vise enough to slightly compress the actuator springs.

⚠ Caution: the actuator assembly contains high-force springs under compression.

- Using the ratcheting snap ring pliers, compress and remove the snap ring that secures the actuator cap into the housing.
- Carefully take the actuator out of the vise. All of the internal actuator components can now be removed.

Step 2 — Reassemble Internal Components



After cleaning and inspecting, replace *at least* the exhaust vent, two O-rings on the actuator shaft, poly seal, and all six springs.

- Inspect and lubricate all O-rings.
- Install new O-rings on both ends of the shaft. Note the O-ring sizes and locations.
- Install the Poly Seal on the actuator piston with the "thick" part of the seal facing "down" (pointing away from the springs).
- Install the O-ring on the bearing cap.

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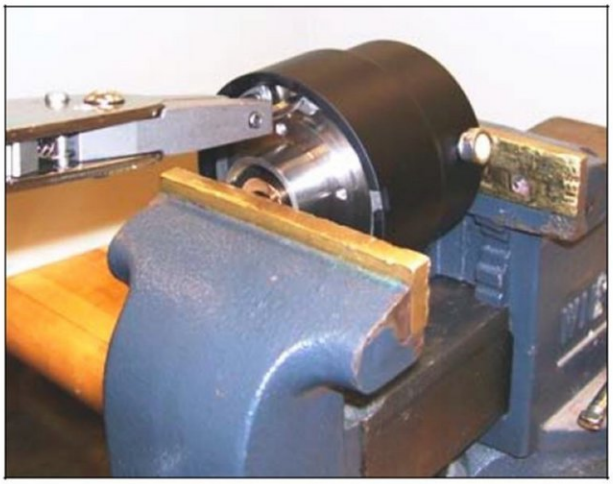
Step 3 — Reassemble Actuator



Valve in vise

- After all the internal components have been re-installed, place the retainer cap with the tabs in the slots on the housing.
- Twist the actuator cap until the four screw holes line up with the holes in the retainer.
- Place the actuator in a bench vise. Tighten the vise enough to slightly compress the actuator springs.

⚠ Caution: the actuator assembly contains high-force springs under compression.

- Using the ratcheting snap ring pliers, compress and replace the snap ring that secures the actuator cap into the housing.
- Remove the actuator from the vise. Use a 5/64 Allen wrench to tighten the four screws that hold the retainer to the actuator cap.

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