

**CASH VALVE PBE-5 REGULATOR**  
REPAIR KIT INSTALLATION INSTRUCTIONS

Before installation, these instructions must be read carefully and understood.

**WARNING**

- Failure to follow these directions could lead to bodily injury or death.
- Repairing this unit will nullify any warranty. If this is a concern, return the unit to the factory for repair. Oxygen cleanliness and compatibility is a must. Only use material supplied.

**CAUTION**

- Remove the PBE-5 Regulator before attempting repair.
- Be certain all liquid is removed from the vessel, and the pressure is vented to 0 psig.
- The PBE-5 Regulator must be repaired in a clean area.
- Clean hands with degreasing soap prior to repair.

**TOOLS NEEDED**

- Large Adjustable Wrench
- 3/16 in. Allen Hex Wrench
- Torque Wrench: 0-150 ft-lbs (0-200 N•m)
- 2 1/8 in. [54 mm] Deep Socket
- Vise
- Fluorolube or other O<sub>2</sub> approved lubrication

**INSTRUCTIONS (SEE FIGURES 1 AND 2)**

1. Secure Valve Assembly in a Vise with the adjusting screw side facing up.
2. Mark the pressure label at the bottom of the adjusting screw cap. (This will make re-setting easier)
3. Turn Adjustment Screw counter-clockwise until you feel all spring load is released. Do not remove the adjusting screw or the adjusting guide.
4. Remove Spring Chamber, remove and set aside all internal components.
5. Turn the valve over and loosen the (4) cap screws that hold the Economizer body to the main valve body.
6. Lift Economizer Body and remove old Gasket.
7. Remove Piston Spring and Piston. Insert New Piston supplied in the kit.
8. Insert the Piston Spring.
9. Apply a thin coat of Fluorolube to the new Gasket and place in groove.
10. Assemble the Economizer body and torque the (4) cap screws tight and evenly.

FIGURE 1. PRESSURE BUILD SECTION VIEW

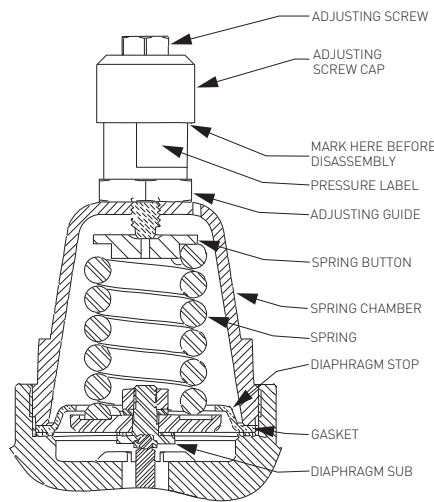
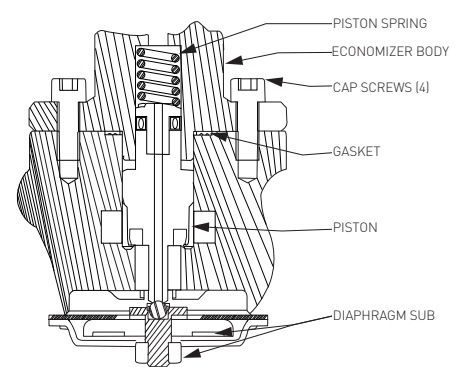


FIGURE 2. ECONOMIZER SECTION VIEW



11. Remove Valve from Vise and flip it 180 degrees.
12. Apply a thin coat of Fluorolube to the new Gasket and place in the Valve Body.
13. Assemble new Diaphragm Sub and the internal components from the disassembly above (Diaphragm stop, Spring and Spring Button).
14. Assemble Spring Chamber and tighten to 100-125 ft-lbs (135-170 N•m).
15. Tighten Adjustment Screw clockwise until you reach the mark up.

Place valve back in the system and check for leakage. If none present, apply system pressure to the valve and turn Adjusting Screw as necessary to reach desired set pressure.

**SUPPLIED COMPONENTS**

Quantity	Description
1	Diaphragm Sub
1	Gasket (2.375 in, 60.3 mm Diameter)
1	Piston Sub
1	Gasket (1.151 in, 29.2 mm Diameter)

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