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KITS AND ACCESSORIES

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**Humiditrol® EDA Valve
Actuator Replacement Kit**

Installation Instruction for Humiditrol® EDA Valve Actuator Replacement Kit (11X10)

⚠ WARNING

Only technicians qualified for dehumidification installation and service should perform the procedures in this document.

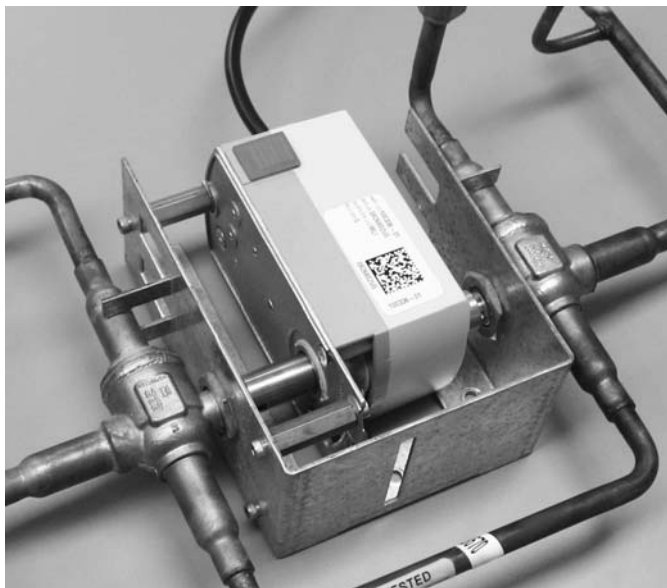







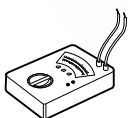


Figure 1. Humiditrol® EDA valve actuator

Shipping and Packing List

- Valve actuator.
- Installation Instruction

Required tools	*Helpful tools
 Allen wrench - 9/64"	 *Allen wrenches with handle
 Allen wrench - 5/32"	 *Pliers
 Nut driver - 1/4"	 *Magnet
 Phillips screwdriver	 *Multimeter
	 *Inspection mirror

Removing the access panel

1. Shut off electrical power to the EDA.
2. Remove two screws to remove the access panel (see figure 2).
3. At the relay inside the Humiditrol unit, disconnect the electrical wires to the valve actuator (see figure 3).

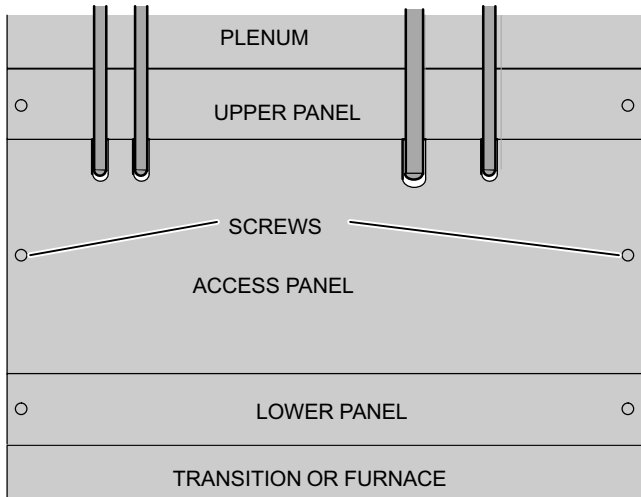


Figure 2. Front Humiditrol® panels

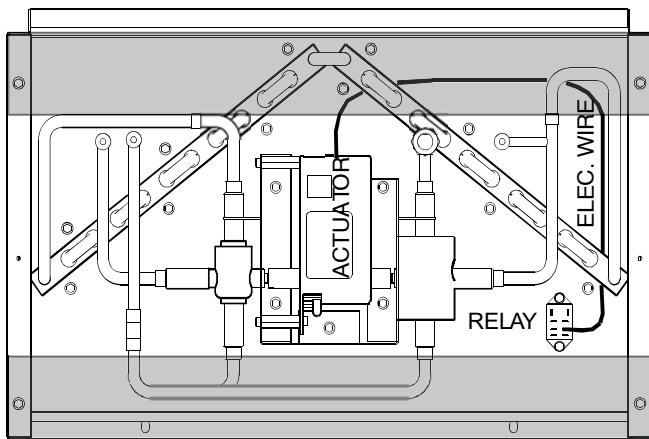
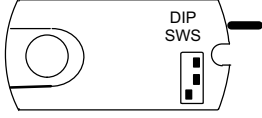


Figure 3. Humiditrol® (access panel removed)

Installation and service procedure

1. Open the silicone rubber flap on the new actuator and set, or confirm that, the 3 DIP switches are positioned as shown; then close flap. 
2. Remove the old actuator and install the new one as shown in figure 5 on Page 3.
3. Connect EDA Actuator wires to the EDA relay as shown in figure 4. **Note that the old and new actuators are connected differently.**
4. Refer to the Humiditrol Enhanced Dehumidification Accessory Installation and Service Instructions (506064-01) for check out and operation procedures.
5. When the unit has been checked out and is operating satisfactorily, reinstall the access panel.

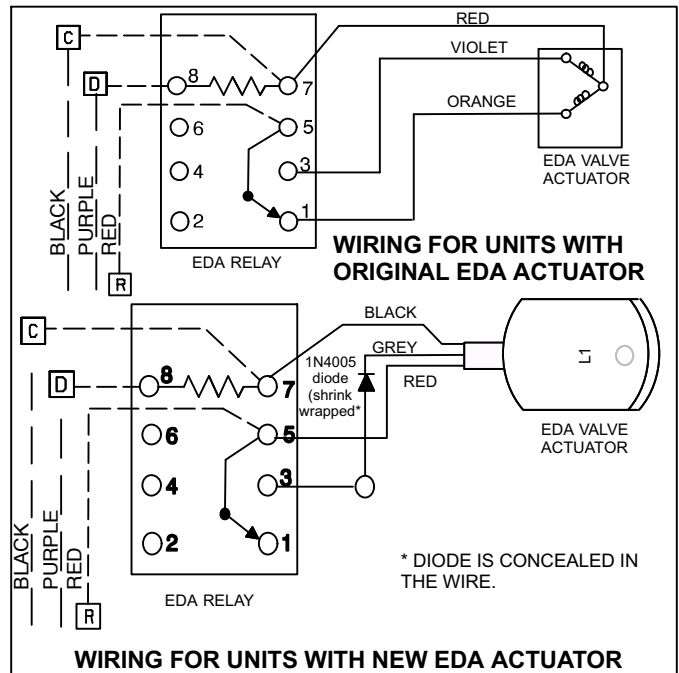
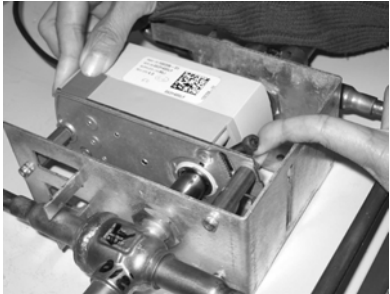
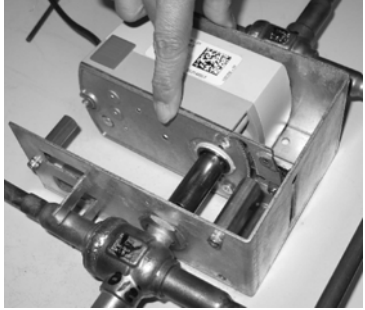


Figure 4. Wiring for actuators

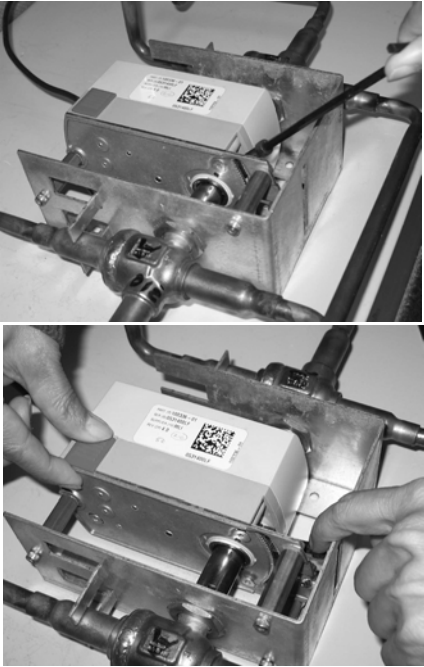
1 While holding the red lock release, move the actuator pinchbolt to the UP position. (some pressure is required to rotate the valves into position).



4 Slide the actuator body to the right.



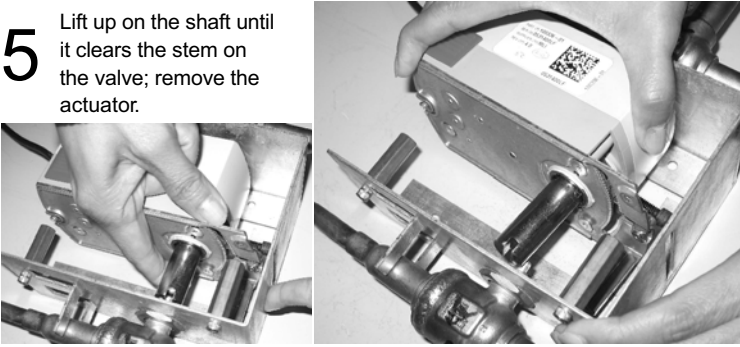
2 Loosen the actuator pinchbolt. Then hold the red lock release and move the actuator down so that you can more easily access the top mounting screw.



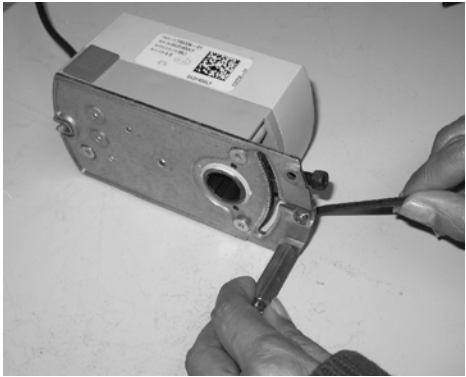
3 Remove three Allen head mounting screws that secure the actuator to either the metal bracket or to the actuator's mounting plate.



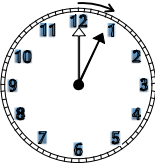
5 Lift up on the shaft until it clears the stem on the valve; remove the actuator.



6 Remove the stud from the old actuator's mounting plate and install it in the same location on the new actuator's mounting plate. Torque to 1.9 ft. lbs.

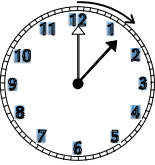


1/16TH TURN
1.8 FT. LBS





To torque to 1.8 ft. lbs., when the screw snugs up to the mounting plate, turn an additional 1/16th turn.

1/10TH TURN
4.9 FT. LBS



To torque to 4.9 ft. lbs., when the screw snugs up, turn an additional 1/10th turn.

7 To install the new actuator, use the reverse of the above procedure. When installing the actuator, the shaft's closed end goes to the right and the open end goes to the left. Some maneuvering may be required to get the actuator and shaft back in place. Install and tighten mounting screws to 1.8 ft. lbs. **IMPORTANT!** When all mounting screws have been tightened, use the red lock release to return the pinchbolt to the UP position (as shown in picture 1, above). Then tighten the pinchbolt to 4.9 ft. lbs.

open slot
closed slot

Figure 5. Valve assembly removal and installation procedure