

101 AHDMRD-KIT

101AHDM (Honeywell ML6161) actuator, is the upgrade retrofit for CALIFORNIA ECONOMIZER and ZONEX SYSTEMS round medium pressure dampers with the double stack Synchron motor. This retrofit kit may be applied to the 101AMPD and STMPD dampers. This kit includes the ML6161 actuator, Shaft Extension Adapter, and Hardware bag.

INSTALLATION PROCEDURES:

1. Place the damper to the ***full closed*** position.
2. De-energize the zone thermostat using the thermostat ON-OFF switch
3. Note the wire connection configuration on the damper terminal board for MC RC RO and remove the 3 wires from the thermostat
4. Loosen the allen set screw on the white plastic Half Gear, to damper shaft
5. Drill out the four (4) rivets which attach the hat section to the damper shell
6. Remove the entire hat section including the double stack motor and drive gears, leaving just the damper shell with the shaft protruding
7. Place the new thrust washer onto the damper shaft, against the shaft bushing
8. Place the new ML6161 actuator over the shaft and insure the damper is still in the ***full closed*** position; the actuator mounting tab must be over the inlet side of the damper shell
9. Install the Shaft Extension Adapter into the actuator collar; orienting the the flat metal tab of the adapter against the LH allen set screw (actuator motor and wire terminal block on RH side of actuator)
10. Tighten the actuator collar set screws
11. Insure actuator is parallel to damper shell and place the ¼" O.D. spacer through the actuator mounting tab
12. Install the self tapping screw with flat washer and lock washer through the ¼" spacer into the damper shell
13. Actuator should not be tight against the damper but float at the mounting tab
14. Rotate the actuator collar to the full CW position by pressing the actuator lock release lever ; this places damper in ***full open*** position
15. Reconnect wires to actuator terminals (apply the white label)
 - RO to CW
 - RC to CCW
 - MC to COM
16. For the 101AMPD dampers which have the damper relay board, the board will have to be placed next to the damper in a position which will protect it from any metal contact.
17. Re-energize the zone thermostat and test the damper operation

NOTE: When a signal is sent to open or close this new actuator, a volt meter will indicate voltage on both RC and RO at the same time. This is due to a phase shift capacitor built into the actuator. A 26 volt panel lamp or 24 volt relay coil should be used when verifying a signal at the actuator wire terminal.



101SEA
Shaft Extension Adapter



AHDM actuator mounted on
the STMPD damper



AHDM actuator mounted with
the 101SEA in place. NOTE the
adapter flat plate installed by the
Left Hand collar set screw.

NOTE the flat plate attached to
the shaft stub