

Replacement Life Safety Damper Electric Actuator

Note: Use with the following UL Listed actuators only:

DMPR-S16024, DMPR-S16024S,
DMPR-S16120, DMPR-S16120S,
DMPR-S60024, DMPR-S60024S,
DMPR-S60120, DMPR-S60120S



DANGER: To avoid causing death or serious bodily harm to building occupants, follow all instructions carefully. Dampers must close completely to preserve the integrity of the smoke barrier.

Tools Required

- nut driver, 1/2 and 7/16 inch
- open-end wrench, 1/2 and 7/16 inch (2)
- screwdriver, Phillips-head

Procedures

Note: The procedures are the same for internal or external mount actuators.

Actuator Removal

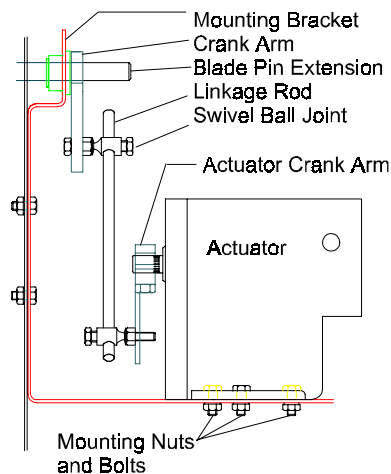


Figure 1: External Actuator Mounting Components, Right Side Shown

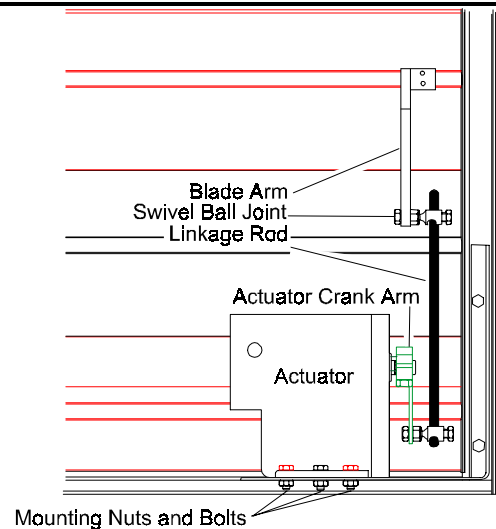


Figure 2: Internal Actuator Mounting Components, Right Side Shown



CAUTION: Shock Hazard. Disconnect the electrical power supply before removing the back cover to avoid possible electrical shock or damage to the equipment.

1. Remove power to the actuator.

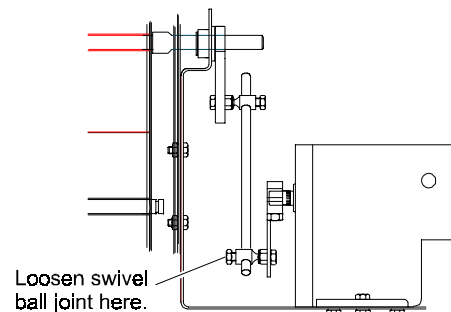


Figure 3: Removing Linkage Rod

2. Use a 7/16 inch open-end wrench to loosen the swivel ball joint from the linkage rod at the actuator crank arm.

3. Rotate the damper blades to remove the linkage rod from the actuator crank arm swivel ball joint.

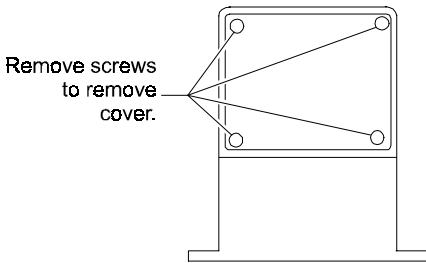


Figure 4: Removing Back Cover

4. Use a Phillips-head screwdriver to remove the four screws securing the cover to the actuator. Remove the cover.
5. Note the locations and then disconnect the wires from the actuator.
6. Remove the conduit from the actuator.
7. Use two 7/16 inch open-end wrenches or one wrench and one nut driver to remove the three mounting nuts and bolts securing the actuator to the mounting bracket.
8. Remove the actuator from the mounting bracket.

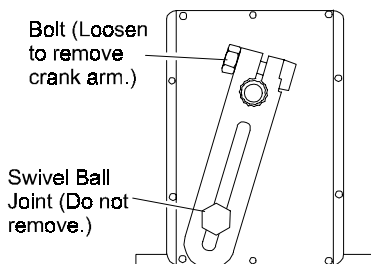


Figure 5: Crank Arm Position

9. Note the position of the actuator crank arm. Use a 1/2 inch open-end wrench or nut driver and loosen the bolt securing the actuator crank arm to the actuator.

Actuator Installation

1. Install the actuator crank arm to the new actuator in the same position as it was on the previous actuator (see Figure 5). Use a 1/2 inch open-end wrench or nut driver to tighten the bolt and nut.
2. Place the actuator on the mounting bracket and use the three nuts and bolts to secure. Use two 7/16 inch open-end wrenches or one wrench and one nut driver to tighten the mounting nuts and bolts.
3. Rotate the damper blades to the fully closed position. As the blades are rotating, insert the linkage rod into the swivel ball joint on the actuator crank arm.
4. Use a 7/16 inch open-end wrench to secure the linkage rod in the swivel ball joint.
5. Use a Phillips-head screwdriver to remove the four screws securing the cover to the actuator. Remove the cover.
6. Knock out a conduit hole cover and install the conduit to the actuator. Connect the wires inside the actuator as noted in Step 5 of the *Actuator Removal* procedures.
7. Secure the cover to the actuator with the four screws.
8. Apply power to the actuator and verify that the actuator drives the damper blades open.
9. If the damper blades do not fully open and close, adjust the linkage until full open and closed conditions are met.

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

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