



Maintenance

Dampers do not typically require maintenance provided they are kept clean and dry. All moving parts are self-lubricating and additional lubrication is not required. If additional lubrication of axle bearings, jackshaft bearings or jamb seals is desired, use a silicone or dry graphic lubricant. **Do not use petroleum-based lubricants or other lubricants that attract contaminants and collect dust.**

Regular inspection and maintenance is essential to ensure that smoke-control systems will perform as intended during emergencies. Dampers shall be cycled and tested in accordance with NFPA 90 and 92A recommendations and local codes.

CAUTION - Power must be applied to the damper actuator to open the damper. **Do not manually position damper blades.** Disconnecting actuator linkage, loosening actuator set screws, disconnecting damper linkage or jack shafting may void the product warranty and invalidate UL ratings.

Operational Testing

Simulated Fire Closure

Depress the disc on DRS-30 or HS-10 (located inside the duct. This will disconnect power to the actuator and cause the damper to close. Push the reset button (located outside the duct) to reengage power and reopen the damper.

Position Indicator Switch Testing (if applicable)

- *Open Damper Indicator Switch* - Apply power to open damper and confirm damper-open indicator light is on.
- *Closed Damper Indicator Switch* - Disconnect power to close damper and confirm damper-closed indicator light is on.
- *Intermediate or 'Fault' Indication* (if applicable) - While damper is cycling (open-to-close or close-to-open) confirm that the 'fault' light is on when the damper is between open and closed (~25 to 70 degrees of stroke). **Do not insert objects between damper blades to restrict damper travel.** Objects may destroy blade edge seals, deform blades and/or damage linkage, which will void the product warranty and invalidate UL ratings.

Troubleshooting Guide

| Problem | Possible Cause | Solution |
|--|---|---|
| Damper does not operate, or will not open and/or close fully | Installation screws interfering with damper blade or linkage travel | Inspect and remove interfering screws or debris |
| | Damper heat responsive device is tripped. | Push reset button (located outside the duct) |
| | Frame is 'racked' causing blades to bind | Adjust frame to be square and plumb |
| | Contaminants on damper | Clean with compressed air, mild detergent or mild non-petroleum based solvent |
| | Loose actuator set screws or linkage | Disconnect power to close damper, loosen actuator set screws, adjust linkage (if applicable), tighten actuator set screws, reapply power |
| | No power supplied to the actuator | Connect power |
| | Defective actuator | Disconnect power and loosen actuator set screws, cycle actuator. If good, reconnect. If bad, contact the factory |
| Corresponding control panel indicating light does not illuminate when damper is open and/or closed | System wiring/program is faulty | Verify wiring is correct. If it is, then disconnect system wires from damper indicator switch and test open/closed switch continuity directly. If good, reconnect system wires and correct system fault. If bad, contact the factory. |
| | Defective switch | Contact factory if above test shows no continuity with damper either full open or full closed |

Smoke and Fire-Smoke Dampers **IFSDO&M** (1/1) May 2008