

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 graphite 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 all applicable NFPA specifications 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

NFPA specifications do not require heat to be applied to a damper's thermostat for operational testing. Electric or pneumatic actuated dampers are required to be tested by removing electrical or pneumatic power from the actuator to close the damper. The damper must reopen once electric or pneumatic power is restored. **Using uncontrolled heat to operate the thermostat may damage the damper and void all warranties.**

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 on HS-10 or DRS-30 junction box)
	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