Despatch
Thermal Processing Technology ITW EAE

FIELD SERVICE BULLETIN

Subject: Airflow Switch Test

Testing the airflow switch ensures that power to the heater is interrupted if the forced exhaust system is not functioning properly. This section provides an example test procedure along with a procedure for adjusting the airflow switch. If testing or adjusting the airflow switch prove unsuccessful, contact Despatch for service information.

To Set or Adjust Airflow Switch

The position of the top of the adjustment screw indicates the switch pressure setting. View the pressure setting through the slot in the stem (Figure 2). To adjust the airflow switch:

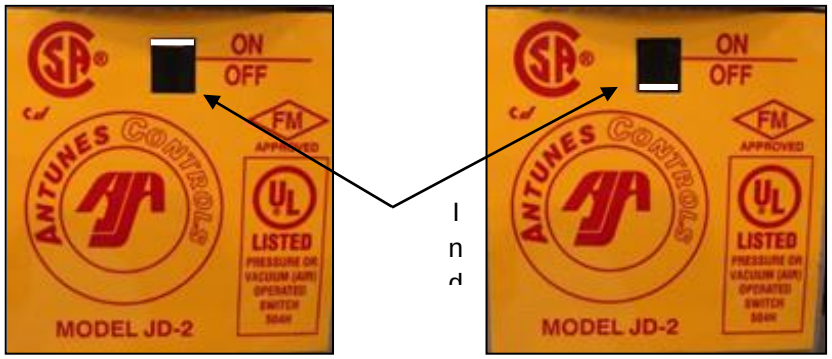
1. Remove the aluminum hex cap on the top of the stem (Figure 2).
2. Increase the setting by turning the inside adjustment screw clockwise (adjustment screw down).
3. Decrease the setting by turning the inside adjustment screw counter-clockwise (adjustment screw up).

Example: Verify Exhaust Fan Airflow Switch Setpoint

To test the exhaust fan's airflow switch setpoint:

1. Set the oven power to ON.
2. Allow the oven to stabilize at its minimum operating temperature by leaving the heater off.
3. Set the oven power to OFF.
4. Verify that the white line in the indicator window of the airflow switch is OFF (Figure 1).
   a. If the switch remains ON, increase the airflow switch set point until the switch turns OFF.
   b. A switch setting of 0.2" WC (inches of water column) to 1.0" WC should detect a fan malfunction.
   c. If the switch does not shut off below a setting of 2" WC, the switch is defective.
   d. Once the switch turns off, increase the setpoint an additional 0.2" WC.
5. Set the oven power to ON to start the exhaust fan.
6. Verify that the white line in the indicator window of the airflow switch is ON and steady (Figure 1).
7. If the switch remains OFF, check the fan rotation direction. If the fan rotation is correct, decrease the airflow switch set point until the switch turns on.

Despatch Industries
8860 207th Street West, Minneapolis, MN 55044
Telephone: 888-337-7282 International: 952-469-5424



ON position

OFF position

Figure 1. Airflow Switch Indicator.

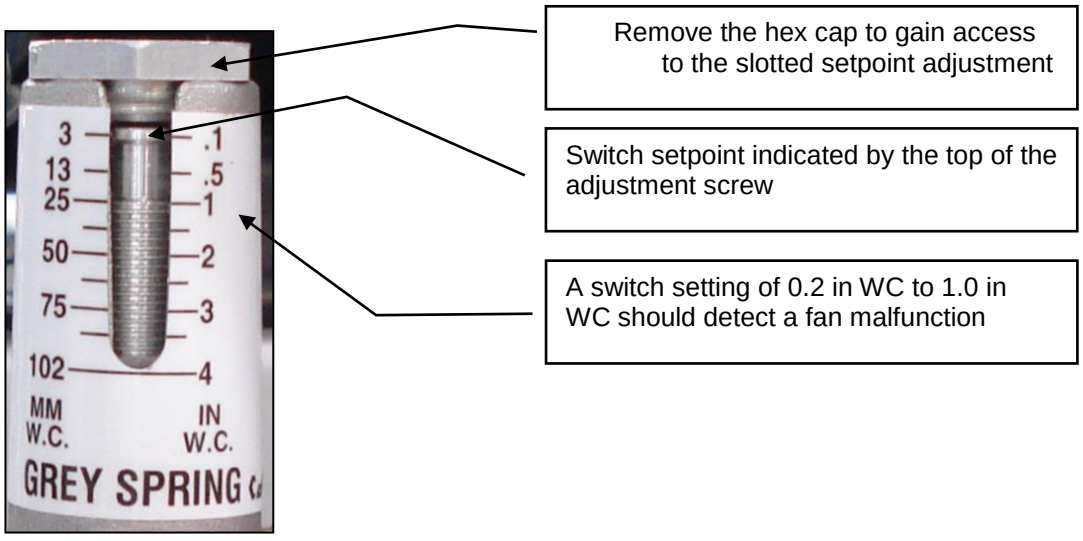


Figure 2. Adjust the airflow switch.

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