

Check Safety Shutdown Performance

WARNING

Fire or Explosion Hazard.
Can cause severe injury, death or property damage.

Perform the safety shutdown test any time work is done on a gas system.

NOTE: Read steps 1 through 7 before starting, and compare to the safety shutdown or safety lockout tests recommended for the direct ignition (DI) module. When different, use the procedures recommended for the module.

1. Turn off the gas supply.
2. Set thermostat or controller above room temperature to call for heat.
3. Watch for ignition spark or glow at hot surface igniter either immediately or following prepurge. See DI module specifications.
4. Time the length of spark operation. See the DI module specifications.
5. After the module locks out, open the manual gas cock and make sure no gas is flowing to the main burner.
6. Set the thermostat below room temperature and wait one minute.
7. Operate system through one complete cycle to make sure all controls operate properly.

MAINTENANCE

WARNING

Fire or Explosion Hazard.
Can cause severe injury, death or property damage.

Do not disassemble the gas control; it contains no replaceable components. Attempted disassembly, repair, or cleaning can damage the control, resulting in gas leakage.

Regular preventive maintenance is important in applications in the commercial cooking and agricultural and industrial industries that place a heavy load on system controls, because:

- In many such applications, particularly commercial cooking, the equipment operates 100,000 to 200,000 cycles per year. Such heavy cycling can wear out the gas control in one to two years.
- Exposure to water, dirt, chemicals and heat can damage the gas control and shut down the control system.

The maintenance program should include regular checkout of the control as outlined in the Startup and Checkout section, and the control system as described in the appliance manufacturer literature.

Maintenance frequency must be determined individually for each application. Some considerations are:

- Cycling frequency. Appliances that cycle 20,000 times annually should be checked monthly.
- Intermittent use. Appliances that are used seasonally should be checked before shutdown and again before the next use.
- Consequence of unexpected shutdown. Where the cost of an unexpected shutdown would be high, the system should be checked more often.
- Dusty, wet or corrosive environments. Since these environments can cause the gas control to deteriorate more rapidly, the system should be checked more often.

The system should be replaced if:

- It does not perform properly on checkout or troubleshooting.
- The gas control is likely to have operated for more than 200,000 cycles.
- The control is wet or looks as if it has been wet.

SERVICE

WARNING

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Do not disassemble the gas control; it contains no replaceable components. Attempted disassembly, repair, or cleaning can damage the control, resulting in gas leakage.

CAUTION

Equipment Damage.
Can burn out valve coil terminals.
Never apply a jumper across (or short) the valve coil terminals, even temporarily.

After servicing, verify proper system operation.

If Main Burner Does Not Come On With Call For Heat

1. Confirm the gas control knob is in the ON position.
2. Adjust thermostat several degrees above room temperature.
3. Using ac voltmeter, measure across MV terminals at gas control.
4. If voltage is incorrect or not present, check control circuit for proper operation.
5. If proper voltage is present, replace gas control.

INSTRUCTIONS TO THE HOMEOWNER

WARNING

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Follow these warnings exactly:

- Before lighting, smell around the appliance for gas. Be sure to smell next to floor because LP gas is heavier than air. If you smell gas:
 - Turn off the gas supply at the appliance service valve. On LP gas systems, turn off the gas supply at the gas tank.
 - Do not light any appliance in the house.
 - Do not touch electrical switches or use the telephone.
 - Leave the building and use a neighbor's phone to call your gas supplier.
 - If you cannot reach your gas supplier, call the fire department.
- Replace the gas control in the event of any physical damage, tampering, bent terminals, missing or broken parts, stripped threads, or evidence of exposure to heat.

IMPORTANT:

Follow the operating instructions provided by the heating appliance manufacturer. The information below describes a typical control application, but the specific controls used and the procedures outlined in your appliance manufacturer instructions can differ, requiring special instructions.

To Turn ON Appliance

STOP: Read the Warnings Above Before Proceeding

- The lighting sequence on this appliance is automatic; do not attempt to manually light the main burner.
- If the furnace does not come on when the thermostat is set several degrees above room temperature, set the thermostat to its lowest setting to reset the safety control.
- Remove the burner access panel, if provided, on your appliance.
- Turn the gas control knob clockwise  to OFF.
- Wait five minutes to allow any gas in the combustion chamber to vent. Then, if you smell gas, STOP! Follow Step 1 in the Warning above. If you do not smell gas, continue with the next step.
- If you do not smell gas, turn the knob on the gas control counterclockwise  to ON.
- Replace the burner access panel.
- Reset the thermostat to the desired temperature.
- If the appliance does not turn on, turn the gas control knob to OFF and contact a qualified service technician for assistance.

Turning Off the Appliance

Vacation Shutdown

Set the thermostat to the desired room temperature while you are away.

Complete Shutdown

- Turn off the power to the appliance.
- Turn off the gas supply to the appliance.
- Turn gas control knob clockwise  to OFF. Appliance will completely shut off.

Follow the procedures in the **Instructions to the**

Homeowner section above to resume normal operation.