

Technical Data Sheet

Sterling BV 8501, Sterling BV IF 8520, and Sterling DV 8530 Gas Valve Replacement

(All Direct-Vent units & B-Vent units serial number start at: #2451)

For models equipped with the Robert Shaw 7000 Series Valve

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Replacement Parts: *(one of the following)*

Item #7210-001 B-Vent Natural Gas Valve

Item #7210-002 Direct-Vent Natural Gas Valve

Item #7210-003 B-Vent / Direct-Vent LP Gas Valve

Tools Required: Phillips

Screwdriver $\frac{3}{4}$ " Wrench 11/16"

Wrench 5/16" Wrench 7/16"

Box Wrench – modified See
note after Step 2

BEFORE YOU BEGIN: Work on a cold stove. Shut off the gas supply to the stove.

PROCEDURE:

1. Using the Phillips screwdriver, remove the bolt from the front door. Open the front door remove the log set. Also, open the valve door on the bottom right hand side of the stove.
2. Using a 7/16" wrench, disconnect both ends of the pilot line. (This will allow you to move the pilot line in order to remove the valve.)

Note: Due to the confinement of space, a standard 7/16" wrench will not fit on the fitting in the valve. One solution would be to modify a 7/16" wrench. Cut a slot in the front edge of the wrench that will allow you to slip the wrench onto the $\frac{1}{4}$ " pilot supply line. Slide the wrench up the line and onto the fitting.

3. Disconnect the main supply line using a 5/8" wrench.

4. Locate and remove the 3 hex head bolts on the underside of the valve box. This is best done by using a 5/16" box wrench. Hold the wrench on the bolt heads with your free hand.
5. Using a Phillips screwdriver, loosen the terminals on the valve block. After noting the position of all the wires, remove the wires.
6. Lift the loosened top casting off the stove.
7. Using a 3/4" wrench, for Direct-Vent or 11/16" wrench for B-Vent, remove the fittings left in the valve for reuse in the replacement valve.
8. Reverse the steps to install the new valve.
9. Replace the wires on the valve terminal as follows:
Top Terminal (TH,TP) – thermopile and thermostat wire (also spill switch on B-Vent model).
Middle Terminal (TP) – thermopile (also spill switch on B-Vent models).
Bottom Terminal (TH) – thermostat wire.
10. Leak test all fittings before firing. Follow lighting procedure in Owner's Manual – ***After Leak Testing***