

12.0 Changing Components

12.21 Plate Heat Exchanger (Fig. 64)

1. Drain the primary circuit.
2. While supporting the heat exchanger undo the screws securing it to the brass manifolds.
3. Withdraw the heat exchanger upwards and to the left of the gas valve, taking care not to damage any wires or controls.

Seals

4. There are four rubber seals between the manifolds and heat exchanger which may need replacement.
5. Ease the seals out of the manifold. Replace carefully, ensuring that the seal is inserted into the manifold parallel and pushed fully in.
6. When fitting the new heat exchanger note that the left hand location stud is offset towards the centre more than the right hand one.

7. Reassemble in reverse order.

12.22 Diverter Valve Assembly (Figs. 65 & 66)

The diverter valve assembly comprises of a central heating pressure differential valve and a domestic hot water pressure differential valve. These are connected to a manifold which is joined to the plate heat exchanger.

DHW Pressure Differential Valve (Fig. 66)

1. Drain the primary circuit.
2. Undo the screw securing the microswitch bracket to the valve (Fig. 65).
3. Disconnect the two sensing pipes and slacken the grub screws securing the valve to the diverter manifold.
4. Draw the valve away from the diverter manifold. The valve may now be replaced or split to examine the diaphragm.
5. To examine the diaphragm hold the valve body securely and carefully remove the six screws. The diaphragm spring will force apart the two halves of the valve.
6. Remove the plastic disc and pushrod assembly. Carefully examine the diaphragm and replace it if there is any damage.
7. Reassemble in reverse order.

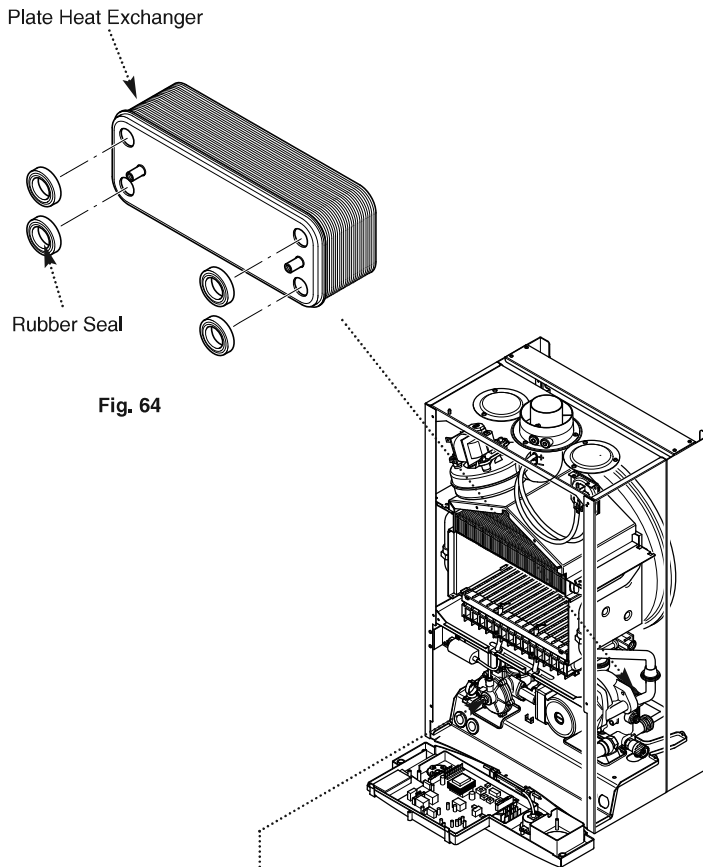


Fig. 64

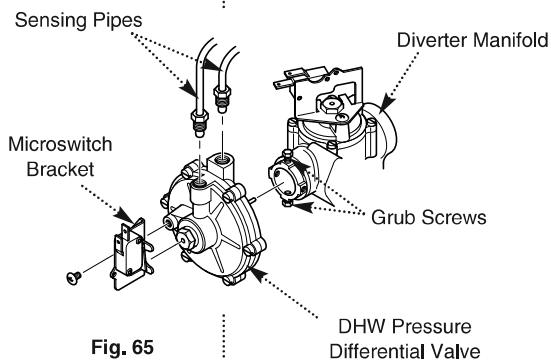


Fig. 65

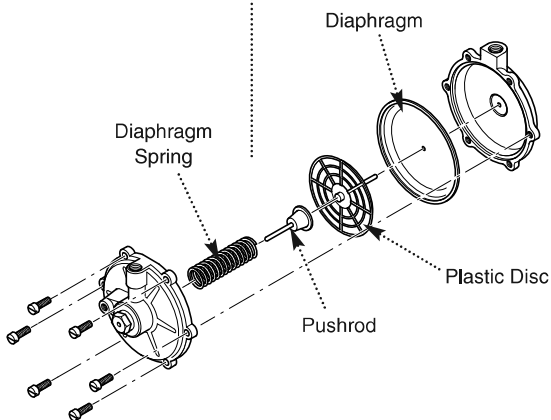


Fig. 66

12.0 Changing Components

12.22 Diverter Valve Assembly (Cont)

Pressure Differential Valve (Fig. 67)

1. Remove the pressure differential valve as described above.
2. From the brass diverter manifold undo the nut on the heating flow pipe. Remove the screw securing the diverter manifold to the appliance lower bracket.
3. Disconnect the pressure gauge capillary from the diverter manifold and remove the two wires from the microswitch.
4. Prise off the spring clip securing the by-pass pipe to the diverter manifold and disconnect the sensing pipe.
5. Ease the diverter manifold out of the plate heat exchanger manifold. Remove the assembly from the appliance.
6. Undo the screw securing the microswitch bracket to the valve body. The sensor may now be dismantled to examine the diaphragm.
7. To examine the diaphragm hold the assembly securely and carefully remove the four screws. The diaphragm spring will force the two halves of the valve apart.
8. Carefully examine the diaphragm and replace it if there is any damage.
9. Reassemble in reverse order.

CH Pressure Microswitch (Fig. 67)

1. Remove the two wires from the Pressure microswitch.
2. Undo the screw securing the microswitch bracket to the valve body.
3. Reassemble in reverse order.

12.23 Flow Regulator (Figs. 68 & 69)

1. Undo the filter cartridge from the inlet/return manifold.
2. Unscrew the venturi and remove the flow regulator.
3. Check the cleanliness of the filter gauze, rinsing thoroughly in clean water as necessary. Fit the new flow regulator and reassemble in reverse order.

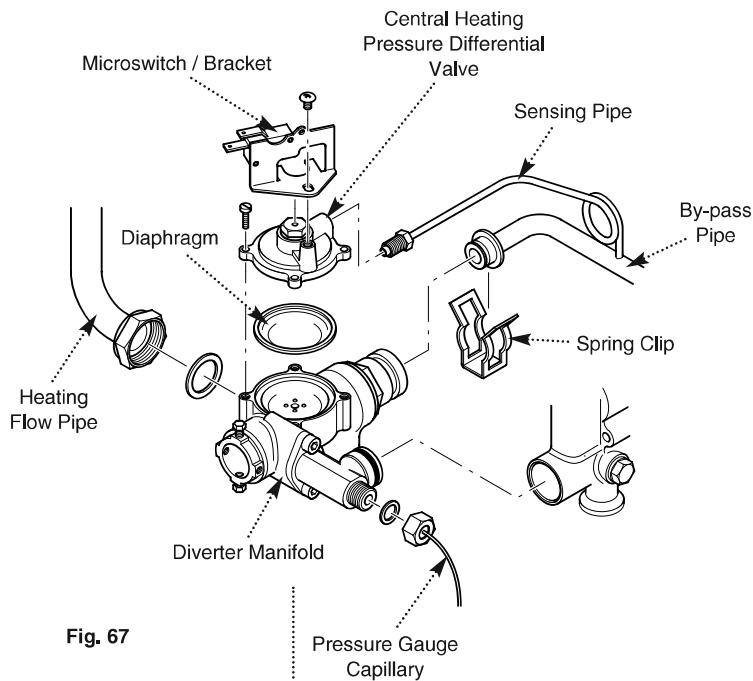


Fig. 67

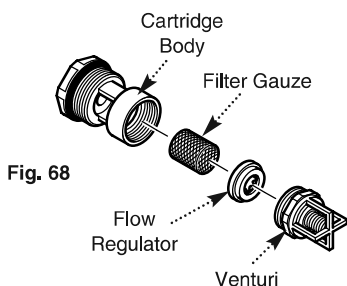
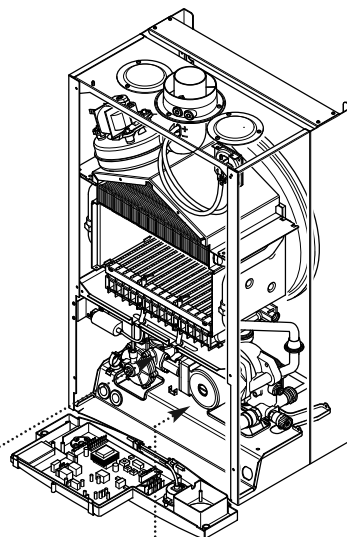


Fig. 68

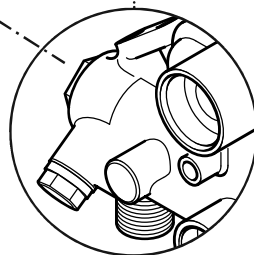


Fig. 69

Inlet/Return Manifold