

Testing of Glow Plugs

Job No.

15-32

A glow control light has been installed in the dashboard and/or the instrument panel in order to control the pre-heating system; the glow control light has the same rated voltage as each of the respectively used glow plugs (see Job No. 15-00 Section E).

During the pre-heating period the glow control light glows in the same way (light red) as the glow plugs, thus indicating the condition of the glow plugs.

If the glow control light does not glow, the filament of a glow plug is usually broken or burned out due to a ground short. In order to determine the faulty glow plug, subsequently bridge the two power leads of each individual plug with a screwdriver (Figure 15-32/1).

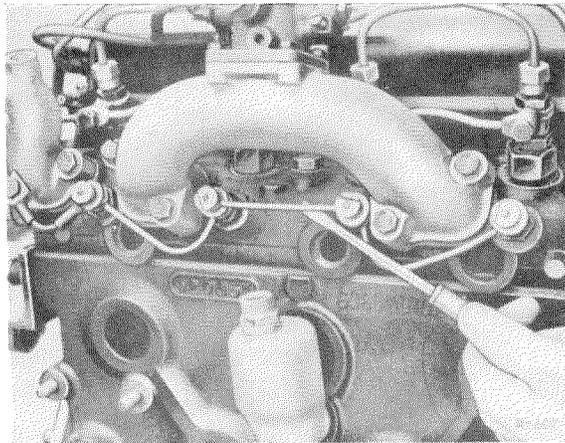


Figure 15-32/1

For this purpose put the glow starter switch to position 1 (pre-heating). The glow control light will glow during the bridging of the connections of the defective glow plug.

The glow control light will glow considerably faster and brighter if there is a ground short in the pre-heating system. If the glow control light continues to glow after disconnecting the ground lead of the pre-heating system, there is a ground short in the pre-heating system.

In this case check the power leads for a possible ground short with the cylinder head. If the power leads are in order, the ground short can be at one of the glow plugs. In order to determine the faulty glow plug consecutively disconnect the power leads, starting at the ground end, while the pre-heating system is switched on. The power will be cut off with the disconnecting of the power lead on the plug with a ground short-circuit. The glow control light will no longer glow.

Note: Make sure of the correct rated voltage during the installation of new glow plugs.