

Disassembly

Disassembling is permissible but only when complete exchange assemblies are not available.

1. Located in the cover on the foreside of the pressure regulator is a red, paint-sealed adjustment screw with a lock nut. The cover may be removed after unscrewing three round-head retaining screws (spaced 120° apart); this will expose the pressure plate, spring, and diaphragm.
2. The diaphragm may be withdrawn after removing the retaining collar which is secured by three round-head screws. The parts may not be repaired and if found defective, must be replaced.
3. The housing which accommodates the pressure rod, spring, and shut-off valve may now be removed with the help of a socket wrench.

Reassembly

Reassembly is accomplished in reversed order of the above, devoting attention to the following points:

1. It should be ascertained that the pressure rod moves freely in its guide after the parts have been thoroughly cleaned.
2. The diaphragm must be placed in such way that the brass disc faces towards the pressure rod.
3. When installing the housing cover, first insert the pressure spring into the sheetmetal receptacle of the diaphragm, and then place the pressure plate in appropriate position making certain that the adjustment screw rests in the cavity in the plate.
4. Adjustment of the rate of fuel flow is accomplished on ready assembled heater unit; refer to Description, Inspection and Adjustment of Pressure Regulator.

FUEL SOLENOID VALVE

Description:

The fuel solenoid shuts off the fuel supply as soon as the combustion process is interrupted by the heater control switch. The flow of fuel is stopped by a synthetic-rubber valve which is pressed against the valve seat.

Inspection

The proper functioning of the fuel solenoid may be audibly verified by a clicking noise which is released by the slamming action of the valve in valve guide when it is energized. If the valve sticks, functioning only when jarred, it will be necessary to completely disassemble the fuel solenoid. However, it is recommended that in such case the complete pressure regulator and fuel solenoid assembly is removed from the heater unit.

Disassembly

1. Remove round-head screw located on foreside of fuel solenoid, remove cover, detach ground wire connection, and withdraw solenoid coil from housing.
2. Remove four lens-head screws in base of housing and carefully withdraw housing with valve guide. Note that the valve may jump out if under spring pressure (reference Fig. 4).

Reassembly

Reassembly is accomplished in reversed order of the above, devoting attention to the following points:

1. The valve should not show any trace of corrosion on the cylindrical shaft; if corroded, it must be replaced.
2. The sealing side of the synthetic-rubber valve should be visually inspected for proper seating, that is, the seating impression must be round and in the center. If the impression is imperfect, it will be necessary to replace the pressure regulator housing and valve seat.
3. In no case may the pressure spring be lengthened or shortened.