

After-glow is the period of time just after the engine has been started (about 90 seconds) during which the **Glow Plugs** continue to pulse on and off. The after-glow period ends when the **After-Glow Timer** switch opens.

To protect the **Glow Plugs** from overheating in case the **Pre-Glow Cycling Switch** should fail, the **Glow Plug Controller** includes a **Circuit Breaker**. If the **Glow Plugs** stay on too long, the **Circuit Breaker** opens. Power is cut off to the **Glow Plug Power Relay** and the **Glow Plugs**.

The **Circuit Breaker** contains a "keep alive" heater in parallel with the main heater. Once the **Circuit Breaker** opens, it stays open until the **Ignition Switch** is turned OFF long enough for the **Circuit Breaker** to cool and reset.

The **Engine Temperature Switch** controls voltage to the **Throttle Advance Solenoid** and the **Advance Timing Solenoid**. Both solenoids help the engine to warm up. While the engine is under 120°F the **Engine Temperature Switch** is closed, and power is applied to the solenoids with the **Ignition Switch** is START or RUN. The **Throttle Advance Solenoid** advance the injection pump timing. After the engine warms up above 120°F, the **Engine Temperature Switch** opens and power is cut off to both solenoids.

The **Fuel Shutoff Solenoid** provides a positive fuel shutoff after the ignition has been turned off.

The **Fuel Line Heater** is wrapped around the fuel line. It heats the diesel fuel enough to melt any wax which might clog the filter. The heater has an internal thermostat to turn it on as needed. It is powered when the **Ignition Switch** is in RUN and is grounded through the metal fuel pipe.

#### Diesel Start

The diesel engine uses two batteries to provide extra power for starting and glow plug

heating. Power is applied from the batteries through heavy gauge wires to the **Starter Solenoid** in the **Starter motor assembly**. When the **Glow Plugs Indicator** goes out, the **Ignition Switch** can be set to START. With the transmission selector in park or neutral (automatic transmission), power is applied to the **Starter Relay**. The relay applies power to the solenoid coil which closes contacts to apply battery power to the starter motor.

## TROUBLESHOOTING HINTS

### WAIT INDICATOR DOES NOT LIGHT

#### NOTE

If engine coolant temperature is over 165°F (74°C), it is normal for **WAIT** indicator to remain off when ignition is set to RUN.

- Connect one lead of a 12-volt test light to ground and the other to the output terminal (with three fuse links) of the **Glow Plug Power Relay**.
- Set **Ignition Switch** to RUN. If engine is cold, test light and **Glow Plugs Indicator** should light. If test light and **Glow Plugs Indicator** do not light, see **TEST LIGHT DOES NOT LIGHT** on page 108.
- If test light lights and **Wait Indicator** does not light, check bulb and **Fuse Link U**. Check continuity of BK/PK and ground circuits.

#### CAUTION

Do not operate **Glow Plug Power Relay** by connecting a jumper between R and P wires. **Glow Plugs** will burn-out in a few seconds.

#### NOTE

If hard starting is the trouble, troubleshoot the glow plug system as shown below before troubleshooting the fuel system.

### BASIC DIAGNOSTIC TEST FOR GLOW PLUG SYSTEM

- Connect one lead of a 12-volt test light to ground and the other to the output terminal (O/W and O/LG D wires) of the **Glow Plug Power Relay**.
- Set **Ignition Switch** to RUN. If engine is cold, test light (and **Glow Plugs Indicator**) should be lit for 4 to 10 seconds. Light will then cycle on and off. If coolant temperature is over 165°F, test light should remain off.
- Start engine. Test light should cycle on and off for about 90 seconds after **Ignition Switch** was set to RUN.
- Stop engine. Choose the test in the following group which describes the results of this test. After completing any procedure, repeat this basic diagnostic test.

#### CAUTION

Whenever the glow plug wires are disconnected from the **Glow Plugs**, be sure the wires don't contact the engine and cause a short circuit.

### 1. TEST LIGHT SIGNAL IS CORRECT

- With test light still connected to the **Glow Plug Power Relay**, disconnect glow plug wires from **Glow Plugs**. With the engine off, and ignition set to RUN, check for 12 volts at each wire when light is on. If voltage is not present at any lead, check continuity of wires. Repair or replace harness.

(continued)

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**GM Corporation**



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