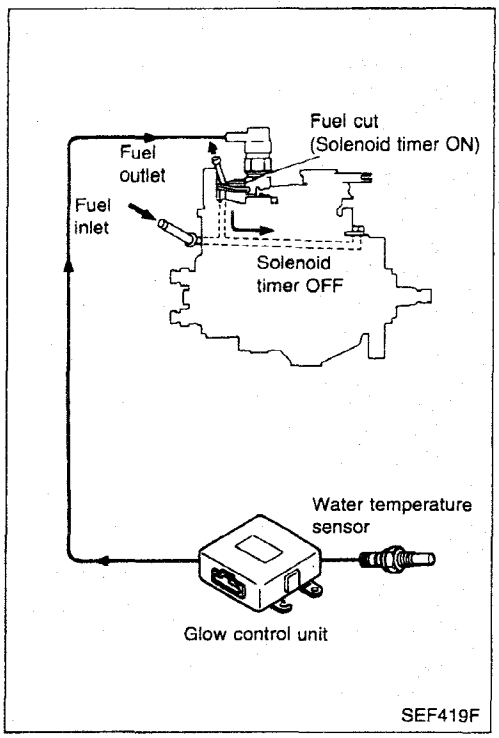
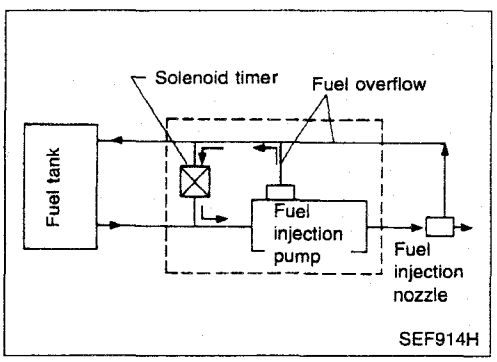


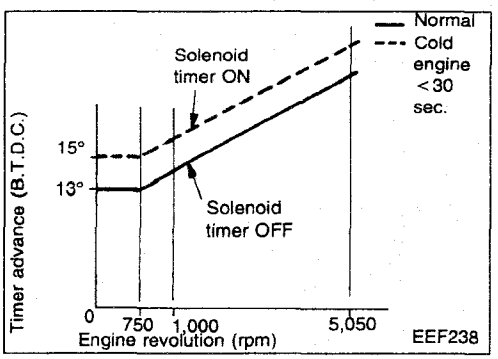
Description

To improve startability, a solenoid timer is used on models for Europe and cold areas. Its purpose is to advance fuel injection in relation to coolant temperature for a certain period after starting the engine.
This timer is controlled by the signal from the glow control unit. The glow control unit sends a signal to activate the advance mechanism of the fuel injection pump during cold starting.



Operation

Part of the fuel in the return line returns to the fuel injection pump inlet, when the solenoid timer is OFF. When cold starting, the solenoid timer comes ON to stop the return of fuel to the inlet. This increases the fuel pressure in the fuel injection pump so that fuel injection advances.



TIMER CHARACTERISTICS

The graphs show the differences in fuel injection timing in relation to engine speed when the solenoid timer is both ON and OFF.
When the solenoid timer turns ON, fuel injection timing advances approximately 2°. Thus, cold engine starting in cold weather is greatly improved.

