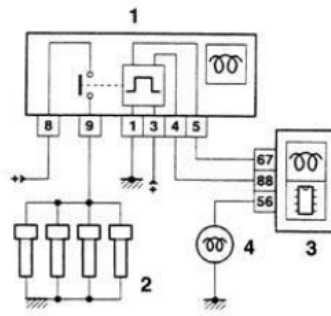


## PRE-POSTHEATING CONTROL UNIT

### FUNCTION

The control unit supplies electrical power to the glow plugs when controlled by the engine management unit.

 When the warning light goes off without start-up taking place, the glow plugs remain active for 10 seconds.



- 1 - pre-postheating control unit;
- 2 - glow plugs;
- 3 - engine management control unit;
- 4 - preheating warning light;

The control unit determines preheating and postheating times on the basis of engine coolant temperature.

Preheating

Engine coolant temperature (°C)	Pre-heating time (seconds)
-30°	16 seconds
-10°	5 seconds
0°	0.5 seconds
10°	0.25 seconds
18°	0 seconds
40°	0 seconds

During start-up, the glow plugs are supplied with power in the following cases:

- coolant temperature less than 20°C;
- engine running at more than 700 rpm for more than 0.2 seconds.

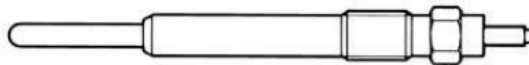
## HEATER PLUGS

### FUNCTION

The glow plugs allow temperature in the combustion chambers to increase quickly during start-up.

### DESCRIPTION

The glow plugs consist of an electrical coil covered by a protective metal case.



Postheating

Postheating allows glow plug operation to be extended following the start-up stage.

Postheating allows pollutant emissions to be reduced during the moments following start-up.

Engine coolant temperature (°C)	Pre-heating time (seconds)
-30°	180
-10°	180
0°	60
10°	60
18°	30
40°	0

