THERMOSTAT

The thermostat has a wax type bypass valve and is mounted in the water inlet housing. The thermostat includes a type of automatic valve operated by fluctuations in the coolant temperature. This valve closes when the coolant temperature drops, preventing the circulation of coolant through the engine and thus permitting the engine to warm up rapidly. The valve opens when the coolant temperature has risen, allowing the circulation of coolant. Wax inside the thermostat expands when heated and contracts when cooled. Heating the wax thus generates pressure which overpowers the force of the spring which keeps the valve closed, thus opening the valve. When the wax cools, its contraction allows the force of the spring to take effect once more, closing the valve. The thermostat in this engine operates at a temperature of 82°C (180°F).

PREPARATION

EQUIPMENT

EG0BU-02

Heater	Thermostat
Radiator cap tester	
Thermometer	Thermostat
Torque wrench	

EG0BV-03

COOLANT

Item		Capacity	Classification
Engine coolant	RCK	8.7 liters (9.2 US qts, 7.7 Imp. qts)	Ethylene—glycol base
(w/ Heater)	RZB	10.0 liters (10.6 US qts, 8.8 Imp. qts)	