

SECTION 03-03 Engine Cooling

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VEHICLE APPLICATION

Taurus / Sable and Taurus SHO.

DESCRIPTION AND OPERATION

"Walter C. Avrea, the owner of patents 3, 601, 181 and RE 27, 965, has granted Ford Motor Company rights with respect to cooling systems covered by these patents."

The cooling system includes a radiator, circulating pump, and a cooling fan which is activated by the integrated relay control module. Also included in the cooling system is a separate coolant recovery reservoir which is located beside the radiator and aids in maintaining the correct volume of coolant.

The water pump is of a conventional design and is driven by the accessory drive belt.

A thermostat is located in a water outlet connection housing at one end of the engine. The thermostat ensures rapid engine warm-up by restricting coolant flow at lower operating temperatures. It also assists in keeping the engine operating temperature within predetermined limits.

The coolant normally contains a 50 / 50 mix of water and permanent coolant / antifreeze fluid such as Premium Cooling System Fluid E2FZ-19549-AA (ESE-M97B44-A and ESE-M97B43-A) or equivalent.

CAUTION: The addition of more water than recommended will raise the freezing protection temperature and weaken the corrosion inhibitors.

Refer to Specifications for the cooling system capacity for all vehicles.

NOTE: The system must be maintained with the correct concentration and type of antifreeze to prevent corrosion damage.

WARNING: DISCONNECT THE COOLING FAN PRIOR TO PERFORMING ANY UNDERHOOD SERVICE, SINCE THE FAN COULD CYCLE IF THE IGNITION SWITCH IS LEFT IN THE RUN POSITION.

The electric radiator cooling fan motor is mounted within a shroud behind the radiator. The integrated relay control module actuates the fan when the coolant reaches a specified temperature, when the engine reaches a specified speed, or when the air conditioning clutch is activated, if so equipped.