

SUPPLEMENTAL DIAGNOSTIC ANALYSIS

COOLANT OVERTEMP

PROBABLE CAUSES

Gauge error, low coolant level, plugged radiator, wrong radiator, stuck thermostat, no thermostat, defective water pump, broken belt, fan clutch slippage, wrong or damaged fan blade.

PROCEDURES

- Inspect radiator or surge tank for correct coolant level.
- Inspect fan blade, shroud, belt and radiator. (Verify correct part numbers.)
- Monitor ECT Engine Coolant Temperature with the EST (Electronic Service Tool) and compare to dash temperature reading of coolant temperature.
- Monitor engine coolant temperature with manual gauge or thermocouple installed in port in front cover for existing sender and confirm over temperature.
- Remove and inspect thermostat, check for opening temperature.
- Remove radiator and have flow checked at radiator shop.

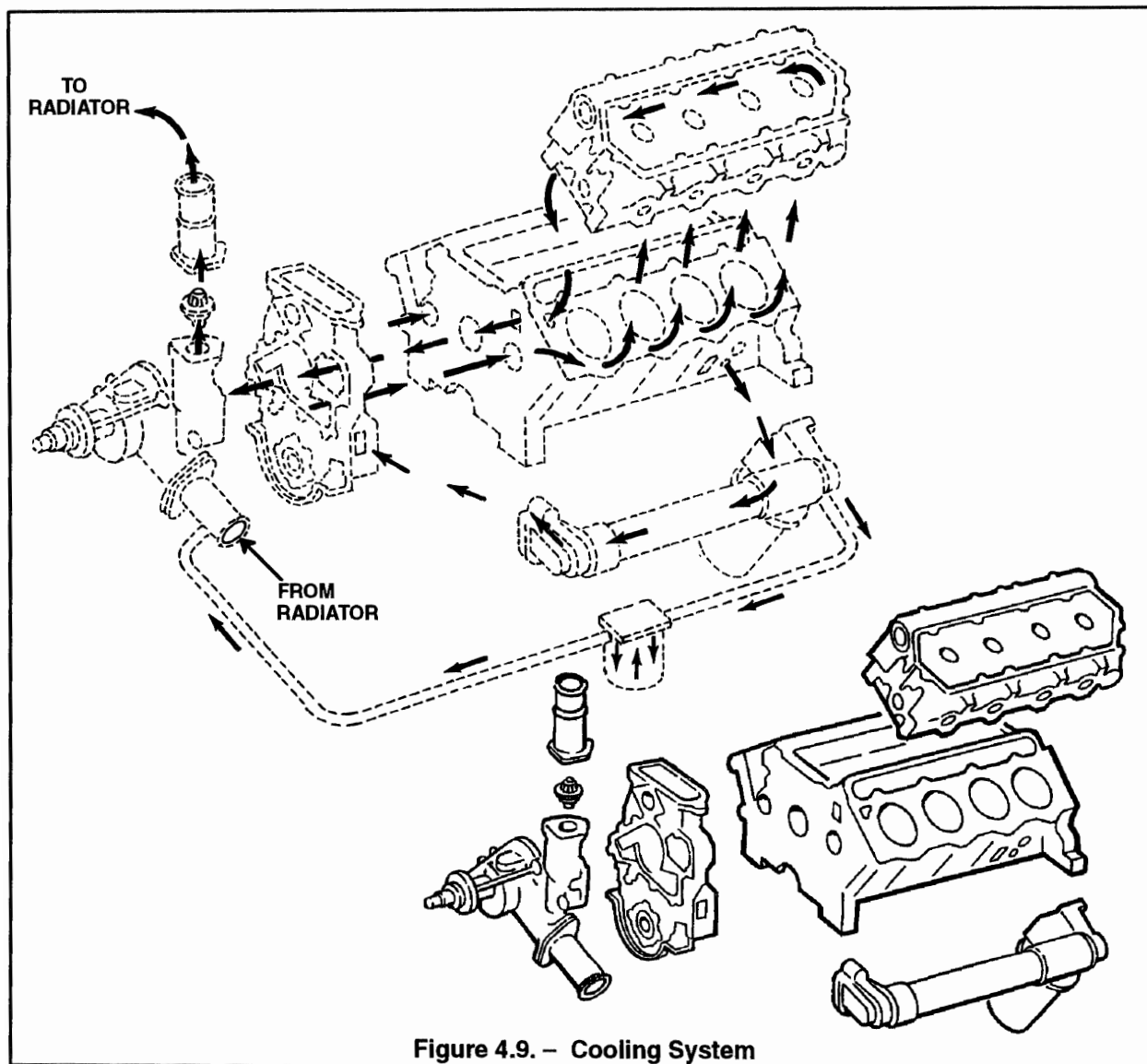


Figure 4.9. – Cooling System