

# 5. Cooling System

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## Service Information

### ▲ WARNING

- Wait until the engine is cool before slowly removing the radiator cap. Removing the cap while the engine is hot and the coolant is under pressure may cause serious scalding.
  - Radiator coolant is toxic. Keep it away from eyes, mouth, skin and clothes.
    - If any coolant gets in your eyes, rinse them with water and consult a doctor immediately.
    - If any coolant allowed, induce vomiting, gargle and consult a physician immediately.
    - If any coolant gets in your skin or clothes, rinse thoroughly with plenty of water.
  - KEEP OUT OF REACH OF CHILDREN.
- Add coolant at the reserve tank. Do not remove the radiator cap except to refill or drain the system.
- All cooling system service can be done with the engine in the frame.
- For fan motor switch and thermo sensor inspections, refer to section 25 of the Common Service Manual ; for the switch and sensor locations, see page 18-2 of this manual.

## Troubleshooting

### Engine Temperature Too High

- Faulty temperature gauge or thermo sensor
- Thermostat stuck closed
- Faulty radiator cap
- Insufficient coolant
- Passages blocked in radiator, hoses or water jacket
- Air in system
- Faulty cooling fan motor
- Faulty fan motor switch
- Faulty water pump

### Engine Temperature Too Low

- Faulty temperature gauge or thermo sensor
- Thermostat stuck open
- Faulty fan motor switch

### Coolant Leaks

- Faulty oil pump mechanical seal
- Deteriorated O-ring
- Faulty radiator cap
- Damaged cylinder gasket
- Loose hose connection or clamp
- Damaged or deteriorated hoses