

*** CAUTION

Never open, service, or drain the radiator or cooling system when hot; serious burns can occur from the steam and hot coolant. In addition, when draining engine coolant, keep in mind that cats and dogs are attracted to ethylene glycol antifreeze and could drink any that is left in an uncovered container or in puddles on the ground. This will prove fatal in sufficient quantities. Always drain coolant into a sealable container. Coolant should be reused unless it is contaminated or is several years old.

2. Disconnect the upper radiator hose at the thermostat housing.
 3. Remove the two thermostat-housing retaining bolts and remove the thermostat housing.
 4. Remove the thermostat and O-ring seal. Inspect the O-ring for damage and replace, as necessary.
- To install:**
5. Make sure all mating surfaces are clean.
 6. Install the thermostat, O-ring, and thermostat housing. Make sure the thermostat is positioned as shown in the figure.
 7. Install and alternately tighten the thermostat housing retaining bolts to 15–22 ft. lbs. (20–30 Nm). Connect the upper radiator hose.
 8. Fill the cooling system as described in Section 1. Check for leaks.

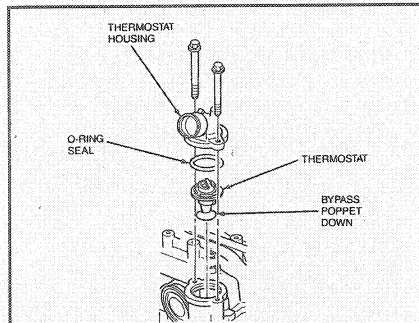


Fig. 24 Thermostat installation—4.6L engine

5.0L Engines

♦ See Figures 25 and 26

1. Drain the cooling system to a level below the thermostat.

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2. Disconnect the upper radiator hose and the bypass hose at the thermostat housing.
 3. To gain access to the thermostat housing: Mark the location of the distributor, loosen the hold-down clamp and rotate the distributor; or remove the distributor cap and rotor.
 4. Remove the thermostat housing retaining bolts and the housing and gasket. Remove the thermostat from the housing.
- To install:**
5. Clean the gasket mating surfaces. Position a new gasket on the thermostat housing.

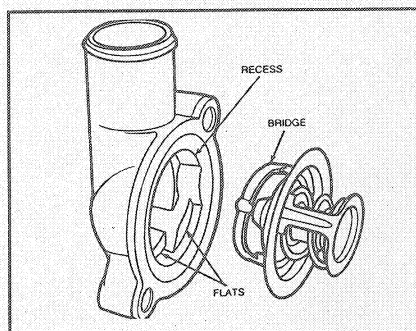


Fig. 25 Thermostat installation—5.0L engines

6. Install the thermostat in the housing, rotating slightly to lock the thermostat in place on the flats cast into the housing. Install the housing on the manifold and tighten the bolts to 12–18 ft. lbs. (16–24 Nm).

➔ If the thermostat has a bleeder valve, the thermostat should be positioned with the bleeder valve as close to the 12 o'clock position as possible when viewed from the front of the engine.

7. Install the distributor cap and rotor, or reposition the distributor for correct ignition timing, as necessary. Tighten the hold-down bolt to 18–26 ft. lbs. (24–35 Nm).
8. Connect the bypass hose and the upper radiator hose to the thermostat housing. Fill the cooling system as described in Section 1.
9. Check for leaks.

Intake Manifold

REMOVAL & INSTALLATION

3.8L Engine

♦ See Figures 27 thru 48

1. Disconnect the negative battery cable, then properly drain the cooling system.
2. Remove the air cleaner assembly including the air intake duct tube.

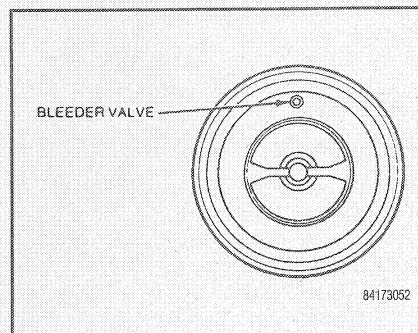


Fig. 26 Thermostat bleeder valve location

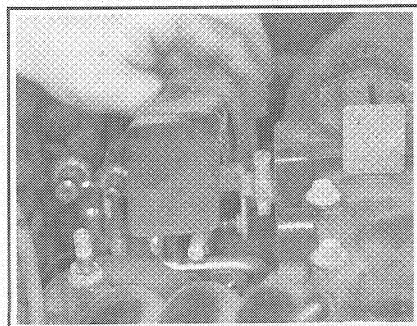


Fig. 27 Remove the linkage cover at the intake manifold

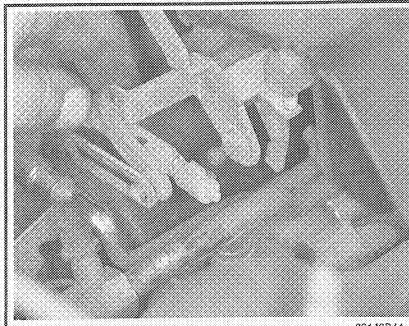


Fig. 28 Remove the linkage from the throttle

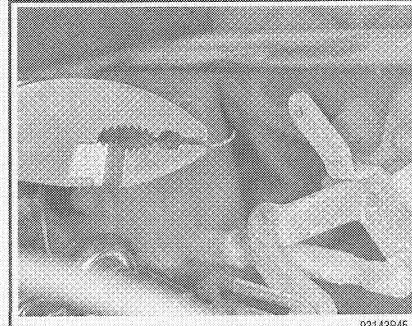


Fig. 29 Using a pliers to disconnect the accelerator return spring