

**REMOVAL AND INSTALLATION (Continued)****Water Pump Inlet Tube Assembly****3.8L Engine****Removal**

1. Open and secure hood and place fender covers.
2. Disconnect battery ground cable.
3. Remove radiator pressure cap following outlined precautions.
4. Raise vehicle. Refer to Section 00-02.
5. Position drain pan below radiator under lower radiator hose.
6. Loosen clamp, disconnect lower radiator hose from radiator, and drain engine coolant.
7. Remove inlet tube to engine mount retaining bolt.
8. Carefully remove water pump inlet tube assembly.
9. Remove O-ring from water pump.

**Installation**

1. Attach inlet tube to engine and install retaining bolt.
2. Position the clamps between the alignment marks on both ends of the hose and slide hose on connections.

**CAUTION: Ensure the clamps are beyond the bead and placed in the center of the clamping surface of the connection.**

**Any used hose clamps must be replaced with a new clamp to ensure proper sealing at the connection.**

Tighten screw clamps to 2.2-3.4 N·m (20-30 lb-in).

3. Lower vehicle.
4. Connect battery ground cable.
5. Replace engine coolant. Refer to Coolant Refill procedure. Ensure vent plug on water outlet connection is open during refill. Operate engine until normal operating temperature is reached. Check for leaks and check coolant level.

**Coolant Recovery Bottle****Removal**

1. Drain radiator until coolant is out of recovery reservoir. Disconnect radiator overflow line at recovery reservoir. Refer to illustration under Radiator Removal, Step 2.
2. Remove overflow tube from recovery reservoir. Remove recovery reservoir retainers and remove recovery reservoir.

**Installation**

1. Position recovery reservoir in vehicle and install retaining screws. Tighten to 7 N·m (5 lb-ft). On 3.0L SHO, insert tab at bottom of recovery reservoir in slot in lower radiator support.

2. Connect overflow tube to recovery reservoir.
3. Fill and bleed cooling system as outlined. Check for coolant leaks and proper coolant level after engine reaches normal operating temperature.

**Radiator Tank****Removal**

The radiator tank is moulded glass-filled nylon and is attached to the core header by bending the header tabs over the foot (edge) of the tank.

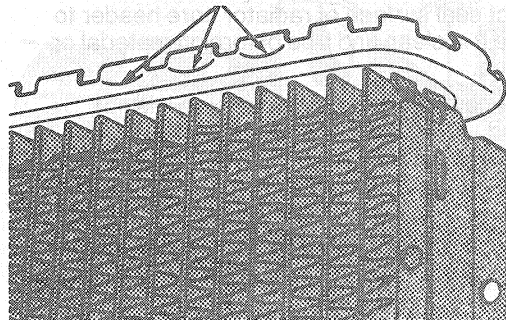
**NOTE:** The tabs on the vacuum-brazed aluminum radiator are easily work-hardened and require special attention to prevent tab damage.

If outlet end tank is to be removed, metallic pin support bracket must be removed first.

When removing a nylon tank, a screwdriver or one of the various special tools available can be used to open the header tabs. Some of these tools, including a screwdriver, may cause a small section of the header side to bend with the tabs as they are opened. This slight deformation is permissible, provided the tabs are opened only enough for tank removal. The header sides will usually return to the normal position when the tabs are recrimped during tank installation.

Procedures given are for tank removal using a screwdriver or a Borroughs Tool BT-8260 or equivalent. Follow the manufacturer's instructions for other radiator tab opening and closing tools.

SLIGHT DEFORMATION  
IN THIS AREA ALLOWED



CCL 2178-B

**With Screwdriver**

**NOTE:** Bend (open) the tabs only enough for tank removal.

1. Insert end of medium tip screwdriver between end of header tab and tank. Press screwdriver blade against tank to bend (pry) tab away from tank foot (edge). Repeat procedure for each tab.
2. Lift tank from core header when all of header tabs are bent away from tank foot (edge).
3. Remove O-ring gasket from header.