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Fig. 62 Lift the radiator upward, then remove it from the engine

To install:

13. Position the radiator lower support rubber pads to the lower support, if removed.

➔ **Make sure the hose clamps are beyond the bead and placed in the center of the clamping surface of the connection. Any worn clamp must be replaced with a new clamp to ensure proper sealing at the connection.**

14. If the lower or upper hose has been replaced, position the hose on the engine with the index arrow in-line with the mark on the fitting at the engine. Tighten the screw clamps to 20–30 inch lbs. (2.5–3.4 Nm).

15. Position the radiator into the engine compartment, and to the radiator support. Insert the molded pins at the bottom of each tank through slotted holes in the lower support rubber pads.

16. Inspect the radiator nylon tank upper mounting bushings for damage. Replace if damaged.

17. If the outlet tank pin bracket must be replaced, remove the two retaining bolts. Position the bracket on the outlet tank, then install the two retaining bolts and tighten to 6.6–9.6 ft. lbs. (9–13 Nm).

18. Install the two upper retaining bolts to

attach the radiator to the radiator support. Tighten the bolts to 13–20 ft. lbs. (17–27 Nm).

19. For vehicles through 1992, equipped with the 3.8L engine, position the right hand support bracket onto the radiator and over the two studs on the radiator support.

20. Position the left-hand support bracket over the radiator and the radiator support. Align the holes in the bracket with the corresponding holes in the radiator support and secure with the two retaining screws. Tighten the screws to 9–17 ft. lbs. (12–24 Nm).

21. On the 1993–94 3.8L engines, position the left and right hand support bracket over the radiator and radiator support. Align the holes in the bracket with the corresponding holes in the radiator support and secure with the two retaining screws. Tighten the screws to 9–17 ft. lbs. (12–24 Nm).

22. If applicable, secure the right hand support bracket to the radiator support with two hex nuts, then tighten the nuts to 8.7–17.7 ft. lbs. (11.8–24 Nm).

23. Install the radiator upper and lower hoses to the radiator. Position the hose on the radiator connector so that the index arrow on the hose is in line with the mark on the connector. Position the clamps between the alignment marks on both ends of the hose, then slide the hose on the connections. Tighten the clamps to 20–30 inch lbs. (2.3–3.4 Nm).

24. On vehicles equipped with automatic transaxles, connect the oil cooler lines using Pipe Sealant with Teflon® or equivalent oil resistant sealer if necessary.

25. Install the fan and shroud assembly by connecting the motor wiring and positioning it on the lower retainer clips. Attach the top of the shroud to the radiator with the two screws and washer assemblies, and nuts. Tighten to 35 inch lbs. (4 Nm).

26. Attach the rubber overflow tube to the radiator filler neck.

27. Connect the negative battery cable.

28. Install a 50/50 mixture of clean water and fresh antifreeze, then run the engine for 15 minutes. Check the coolant level and bring it to within 1½ in. (38mm) of the radiator filler neck.

1995–00 Continental

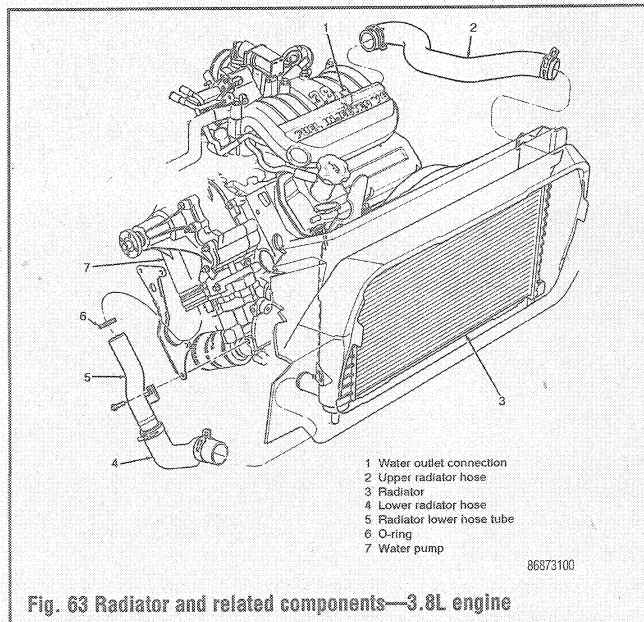
***** CAUTION**

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.

1. Drain and recycle the engine coolant.
2. Disconnect the negative battery cable.
3. Remove the engine air cleaner
4. Remove the upper radiator host from the water bypass tube.
5. Remove the radiator overflow hose from the radiator and the fan shroud.

➔ **Loosen the transmission oil cooler tubes whole holding the radiator connector with a back-up wrench.**

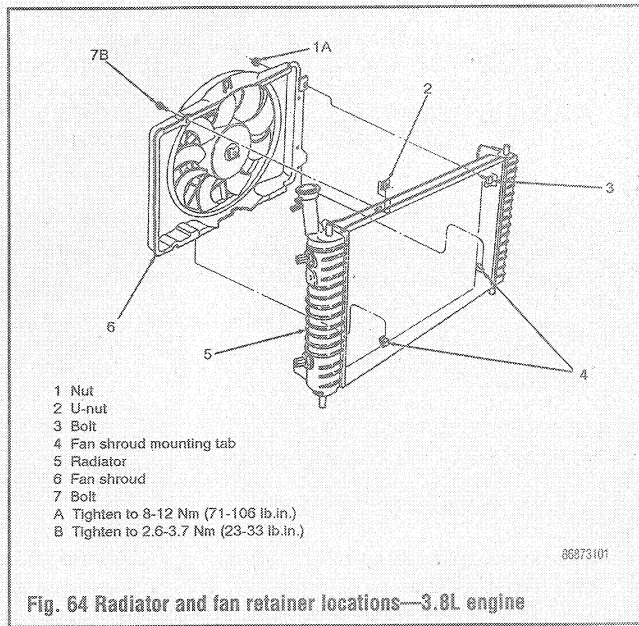
6. Remove the transmission oil cooler tube from the oil cooler inlet fitting.
7. Remove the nuts retaining the A/C condenser core to the radiator.
8. Disconnect engine control sensor wiring from the cooling fan motors and the CCRM.
9. Raise the vehicle on a hoist. Remove the splash shield from lower radiator support and the front sub-frame.
10. Remove the lower radiator hose from the radiator
11. Remove the retaining screws for power steering/transaxle oil cooler and position the cooler aside.
12. Support the fan shroud, radiator and A/C condenser core with a suitable jack stand. Remove the lower radiator support. Position the jack stand



- 1 Water outlet connection
- 2 Upper radiator hose
- 3 Radiator
- 4 Lower radiator hose
- 5 Radiator lower hose tube
- 6 O-ring
- 7 Water pump

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Fig. 63 Radiator and related components—3.8L engine



- 1 Nut
- 2 U-nut
- 3 Bolt
- 4 Fan shroud mounting tab
- 5 Radiator
- 6 Fan shroud
- 7 Bolt
- A Tighten to 8-12 Nm (71-106 lb.in.)
- B Tighten to 2.6-3.7 Nm (23-33 lb.in.)

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Fig. 64 Radiator and fan retainer locations—3.8L engine