

torque converter retaining nuts and tighten to 22–25 ft. lbs. (20–30 Nm). Install the plug into the access hole in the engine block.

29. Position the power steering pump on the engine block and install the 4 retaining nuts. Tighten to 15–22 ft. lbs. (20–30 Nm). Install the starter.

30. Position the engine to transmission braces and install the 3 bolts and 1 stud. Tighten the bolts and stud to 18–31 ft. lbs. (25–43 Nm).

31. Position the transmission line bracket to the knee brace stud and install the retaining nut. Tighten to 15–22 ft. lbs. (20–30 Nm).

32. Cut the wire and position the exhaust system to the manifolds. Install the 4 nuts and tighten to 20–30 ft. lbs. (27–41 Nm).

➔ **Make sure the exhaust system clears the No. 3 crossmember. Adjust as necessary.**

33. Lower the vehicle and connect the EVO sensor.

34. Connect the air conditioner lines to the compressor. Connect the alternator harness from the fender apron and junction block.

35. Connect the heater hoses and connect the vacuum supply hose to the throttle body adapter vacuum port.

36. Connect the power supply to the power distribution box and starter relay. Connect the electrical connector and vacuum hose to the purge solenoid.

37. Connect and if necessary, adjust the throttle valve cable. Connect the accelerator and cruise control cables.

38. Connect the 42-pin engine harness connector and transmission harness connector. Install the 42-pin connector to the retaining bracket on the brake vacuum booster.

39. Install the wiper module and support bracket. Connect the fuel lines.

40. Install the radiator, cooling fan and shroud. Install the air inlet tube.

41. Fill the crankcase with the proper type and quantity of engine oil. Fill the cooling system.

42. Install the hood, aligning the marks that were made during removal. Connect the battery cables.

43. Start the engine and bring to operating temperature. Check for leaks. Check all fluid levels.

44. Have a MVAC certified evacuate and charge the air conditioning system.

45. Road test the vehicle.

4.6L Engine Continental

➔ **The Front Wheel Drive 4.6L Engine has to be removed with the transaxle intact mounted onto the sub-frame as an assembly. It requires the use of a hoist and a special lifting platform to lower the assembly from the body.**

➔ **Your vehicle is equipped with air conditioning, refer to Section 1 for information regarding the implications of servicing your A/C system yourself. Only an MVAC-trained, EPA-certified, automotive technician should service the A/C system or its components.**

1. Disconnect the negative battery cable.
2. Disconnect the steering coupling at the pinch bolt joint inside the passenger compartment
3. Remove the engine appearance cover retainers and remove the engine appearance cover from the vehicle.

4. Disconnect the engine control sensor wiring from the intake air temperature sensor and the crankcase ventilation tube from the air cleaner outlet tube.

Loosen the clamps on the air cleaner outlet tube to the engine air cleaner and the throttle body. Remove the air cleaner outlet tube.

5. Drain and recycle the engine coolant.
6. Properly relieve the fuel system pressure.
7. Disconnect the fuel tubes from the fuel injection supply manifold.
8. Disconnect the chassis vacuum supply hose at the connection on the intake manifold. Position the hose out of the way.

9. Remove the ground straps from the dash panel.

10. Disconnect the engine control sensor wiring from the powertrain control module and position the engine control sensor wiring out of the way.

11. Remove the connectors for the engine control sensor wiring from the retaining bracket on the power brake booster. Disconnect the engine control sensor wiring at the two connectors

12. Disconnect the engine control sensor wiring from the mass air flow sensor, and the wiring from the evaporative emission canister purge valve.

13. Disconnect the evaporative emission hose at the crankcase vent connector and position it out of the way.

14. Remove the shield and disconnect the throttle and speed control cables from the throttle body and from the cable bracket. Move them out of the way.

15. Disconnect the manual lever control at the transmission range sensor.

16. Remove and disconnect the connectors from the engine control sensors wiring bracket from the top of the transaxle

17. Disconnect the main emission vacuum control connector at the connection near the fan shroud

18. Disconnect the oil cooler inlet tube from the transaxle. Remove the dipstick.

19. Disconnect the heater hoses and upper radiator hose.

20. Remove the power steering return hose and drain the reservoir.

21. Disconnect the wiring harness from the generator, and remove the retaining clip.

22. Partially raise the vehicle on a hoist, and remove the front tire assemblies

23. Disconnect the ride height sensors, if equipped, from the lower suspension arms.

24. Remove the stabilizer bar links from the front stabilizer bar.

25. Separate the RH and LH front suspension lower arms from the knuckles at the ball-joints.

26. Separate the tie rod ends from the steering knuckles.

27. Remove the RH and LH front axle wheel hub retainers from the halfshaft ends, and remove the halfshafts from the front wheel knuckle.

28. Raise the vehicle and remove the splash shield from the radiator support and from the front sub-frame.

29. Drain the engine oil.

30. Remove the dual converter Y pipe.

31. Disconnect the power steering pressure hose from the cooler connection and position it out of the way. Be sure to catch any fluid that may leak from the hose.

32. Disconnect the lower radiator hose at the thermostat housing and remove the lower hose.

33. Disconnect the starter wiring and remove the starter.

34. Disconnect the lower oil cooler from the transaxle.

35. Disconnect the retaining clips and the A/C compressor lines.

36. Support the front sub-frame, (engine and transaxle assembly), using a suitable powertrain lift.

37. Remove the front sub-frame retaining bolts, and lower the engine transaxle and front sub-frame from the vehicle.

38. Disconnect the power steering pressure hose from the power steering pump.

39. Install the necessary engine lifting brackets to the engine, and using a suitable crane, support the engine and transaxle assembly.

40. Remove the front engine support insulator, rear engine support insulator, (motor mounts) and the engine and transmission support.

41. Lift the engine and transaxle from the front sub-frame.

42. Lower the engine and transaxle support the transaxle on a level, stationary surface. Remove the transaxle-to-cylinder block mounting bolts and separate the engine from the transaxle assembly.

To install:

Installation is the reversal of the removal procedures

5.0L Engine

1. Disconnect the negative, then the positive battery cable. Drain the crankcase and the cooling system into suitable containers.

2. Drain and recycle the engine coolant.

3. Properly relieve the fuel system pressure.

➔ **If your vehicle is equipped with air conditioning, refer to Section 1 for information regarding the implications of servicing your A/C system yourself. Only an MVAC-trained, EPA-certified, automotive technician should service the A/C system or its components.**

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.

4. Mark the position of the hood on the hinges and remove the hood. Disconnect the battery ground cables from the cylinder block.

5. Remove the air intake duct and the air cleaner.

6. Disconnect the upper radiator hose from the thermostat housing and the lower hose from the water pump. Disconnect the oil cooler lines from the radiator.

7. Remove the bolts attaching the radiator fan shroud to the radiator. Remove the radiator. Remove the fan, belt pulley, and shroud.

8. Remove the alternator bolts and position the alternator aside.