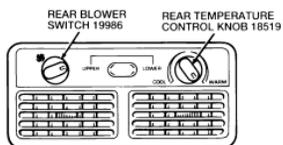


Cooling System, Draining, Filling and Bleeding

WARNING: THE ELECTRIC COOLING FAN MAY COME ON AT ANY TIME WHEN THE IGNITION SWITCH IS IN THE ON POSITION.

If the coolant has not been changed in the last 36 months, or 48,000 km (30,000 miles), or if the inspection reveals hoses, gaskets, or other components requiring service or replacement, the coolant must be drained and discharged, or saved for reuse, depending on its condition.

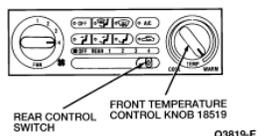
For a vehicle with a rear heater, set the rear blower switch to 4 and the rear temperature control knob to the full WARM position.



Q4103-A

1. For vehicles equipped with manual A/C-heater, turn the ignition switch to the ON position and set the front temperature control panel selectors in the following positions:

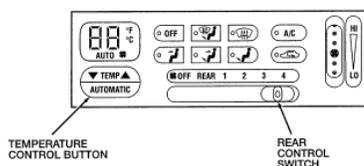
- The front blower switch to 4.
- The front temperature control knob to the full WARM position.
- The rear control switch to the 4 position.
- The mode selector switches to any mode except OFF.



Q3819-E

2. For vehicles equipped with electronic automatic temperature control (EATC), turn the ignition switch to the ON position and perform the following procedures:

- Turn the blower motor control to HI.
- Press the TEMP button to the maximum temperature setting.
- Turn the rear control switch to the 4 position.
- Turn the mode selector switches to any mode except OFF.



Q4199-A

3. Turn the ignition switch (11572) OFF.
4. Remove the RH engine and transmission splash shield (6776).
5. **NOTE: Do not use a galvanized drain pan if the coolant is going to be reused.**

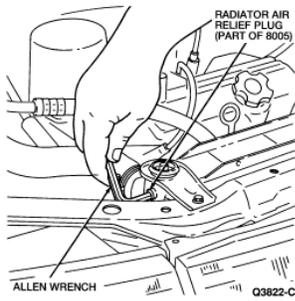
Position a drain pan under the radiator (8005).

6. Open the radiator draincock (8115) at the bottom of the radiator inlet tank (8079).

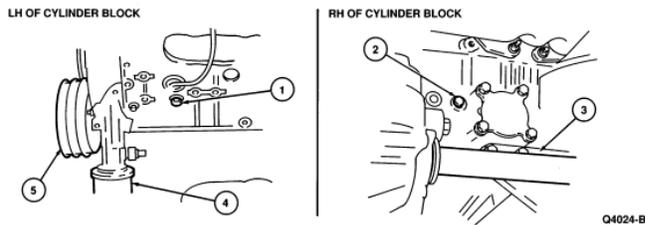
7. **CAUTION: Do not allow coolant to contact the drive belts (8620) or they will be damaged.**

Remove the radiator cap (8100) from the filler neck. If the system is hot and pressurized, carefully release the pressure before fully opening the radiator cap.

8. Use an Allen wrench to loosen the radiator air relief plug three turns. Do not remove the radiator air relief plug.

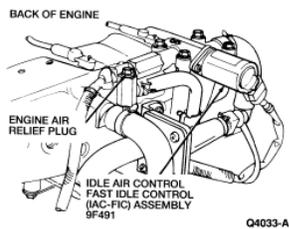


9. Remove the radiator coolant recovery reservoir (8A080) and drain the coolant.
10. **NOTE: Clean the radiator coolant recovery reservoir of any contaminants.**
Install the radiator coolant recovery reservoir.
11. If equipped with rear heater, remove the hoses for the rear heater from the underbody.
12. **NOTE: Position a drain pan under the cylinder blocks (6010) before removing the cylinder block drainplugs. To access the front cylinder block drainplug, remove the RH engine and transmission splash shield (6775).**
Remove the rear and front cylinder block drainplugs.

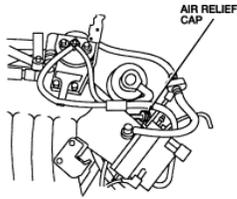


Item	Part Number	Description
1	—	Front Cylinder Block Drainplug
2	—	Rear Cylinder Block Drainplug
3	3B436	Front Wheel Driveshaft and Joint
4	6731	Oil Filter
5	6312	Crankshaft Pulley

13. Remove the engine air relief plug.

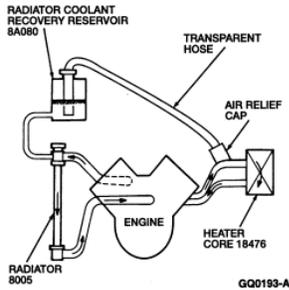


14. Flush the cooling system with clean water. If it is excessively rusty or dirty, reverse-pressure flush or use an approved flushing compound. If necessary, refer to the flushing procedures in this section.
15. **NOTE: Apply sealant to the threads of the cylinder block drainplugs prior to installation.**
Install and tighten the front and rear cylinder block drainplugs to 34-44 Nm (25-33 lb-ft).
16. Close the radiator draincock at the bottom of the radiator inlet tank.
17. If equipped with a rear heater, install and secure hoses for the rear heater.
18. Remove heater pipe air relief cap.



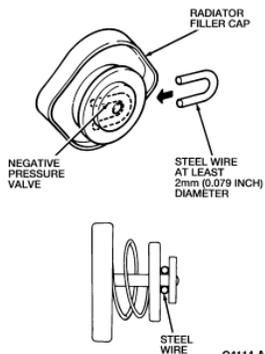
GG0194-A

19. Install 1 meter (40 inches) of 6 mm (0.24 in) I.D. heat resistant hose (minimum temperature rating 105°C [220° F]) to heater pipe air relief cap. Use transparent hose if available.



GG0193-A

20. Add a 50/50 mixture of coolant to the MAX mark on theradiator coolant recovery reservoir.
21. Place hose from heater pipe air relief into radiator coolant recovery reservoir. Make sure hose end is in coolant at all times.
22. **NOTE: Fill until coolant just starts to drip from the radiator air relief plug, and close the plug. Tighten the radiator air relief plug to 20-26 Nm (14-20 lb-ft).**
Slowly pour a 50/50 mixture of coolant into the radiator filler neck. Allow several minutes for air to escape.
23. **NOTE: Fill until coolant no longer lowers in the filler neck.**
Pour more coolant into the radiator while squeezing the upper radiator hose (8260).
24. Install a wire under the radiator cap negative pressure valve to allow flow of air and coolant regardless of pressure. Do not install the radiator cap.



Q4114-A

25. **NOTE: If the vehicle is equipped with a rear heater, turn the rear temperature switch to full WARM and turn the rear fan ON.**
With gearshift lever in PARK (P), engine air relief open, and radiator cap off, start and run the engine (6007) at 2,000 RPM for 15-30 minutes, allowing the cooling system to reach full operating temperature. The engine cooling fan motor (8K621) will turn on and off indicating that the system has reached full operating temperature.
26. If coolant level in radiator neck lowers, add coolant.
27. Install and tighten the engine air relief plug to 20-26Nm (14-20 lb-ft).
28. Stop the engine and allow it to cool down completely.
29. Refill the radiator and radiator coolant recovery reservoir as necessary
30. **NOTE: While performing this step, keep the radiator coolant reservoir coolant reservoir fluid level at maximum. Watch temperature gauge closely. If gauge begins to rise above normal, stop engine, repeat steps 23 through 27 before proceeding.**
Fill until coolant just starts to drip from the radiator air relief plug, and close the plug. Tighten the radiator air relief plug to 20-26 Nm (14-20 lb-ft).
Slowly pour a 50/50 mixture of coolant into the radiator filler neck. Allow several minutes for air to escape.
31. **NOTE: During cool down, make sure the radiator coolant reservoir tank fluid level does not drop below the MIN level.**

Stop the engine and allow it to cool down completely.

32. Remove the radiator cap.
33. **NOTE: Verify that the wire is removed from the radiator filler cap. Failure to do so will reduce cooling system performance.**

Remove the wire and reinstall the radiator cap.

34. Remove hose from heater pipe air relief and quickly install cap and clamp.
 35. Refill the radiator coolant recovery reservoir as necessary.
 36. Install radiator coolant recovery reservoir cap.
-