Chapter 8
Cooling System Operation and Diagnosis

ACROSS

1. In each of these types, the coolant flows through oval-shaped _______.
2. In series flow systems, bleed holes or ________ in the gasket, block, and head perform the function of letting out the steam.
3. Heat is transferred through the tube wall and soldered joint to ________.
4. Some vehicles use a ________, which is located at the highest level of the cooling system and holds about 1 quart (1 liter) of coolant.
5. The pump pulls coolant in at the center of the ________.
6. A ________ around the closed thermostat allows a small part of the coolant to circulate within the engine during warm-up.
7. The ________ fan drive is mounted between the drive pulley and the fan.
8. In the ________, coolant flows into the block under pressure and then crosses the head gasket to the head through main coolant passages beside each cylinder.

DOWN

1. The water pump is a ________ that can move a large volume of coolant without increasing the pressure of the coolant.
2. Some engines use _________. This means that the coolant flows from the radiator to the cylinder head(s) before flowing to the engine block.
3. In series flow systems, bleed holes or steam slits in the gasket, block, and head perform the function of letting out the steam.
4. A second type of thermal fan has a ________ added to the silicone coupling fan drive.
5. Coolant leaving the pump impeller is fed through a ________.
6. However, many vehicles manufactured in Japan or Europe use radiator pressure indicated in a unit called a ________.