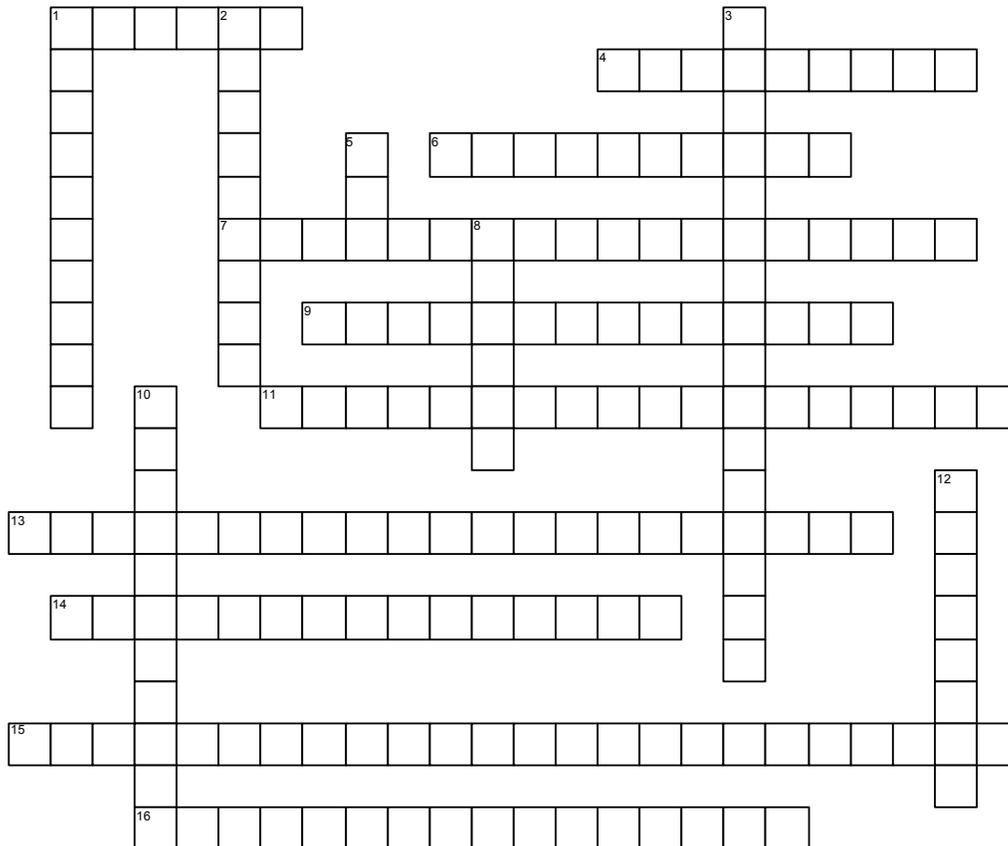


Engine Cooling System Service

Chapter 19



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ACROSS

- 1 A _____ around the closed thermostat allows a small part of the coolant to circulate within the engine during warm-up.
- 4 In most vehicle radiators, the coolant flows through oval-shaped _____.
- 6 Another name for bleed holes is _____.
- 7 A second type of thermal fan has a _____ added to the silicone coupling fan drive.
- 9 Some engines use _____, which means that the coolant flows from the radiator to the cylinder heads before flowing to the engine block.
- 11 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.
- 13 Vacuum pulls the coolant from the plastic container back into the cooling system, keeping the system full, this system is called a _____.
- 14 The water pump is a _____ that can move a large volume of coolant without increasing the pressure of the coolant.
- 15 Some engines use a combination of two coolant flow systems and call it a _____.
- 16 The _____ fan drive is mounted between the drive pulley and the fan.

DOWN

- 1 In series flow systems, _____ in the gasket, block, and head perform the function of

letting out the steam.

- 2 Some vehicles use a _____, which is located at the highest level of the cooling system and holds about 1 quart of coolant.
- 3 In the _____, the coolant flows around all the cylinders on each bank.
- 5 Many vehicles manufactured in Japan or Europe use radiator pressure indicated in a unit called a _____.
- 8 Coolant leaving the pump impeller is fed through a _____.
- 10 Heat is transferred through the tube wall and soldered joint to _____.
- 12 The pump pulls coolant in at the center of the _____.