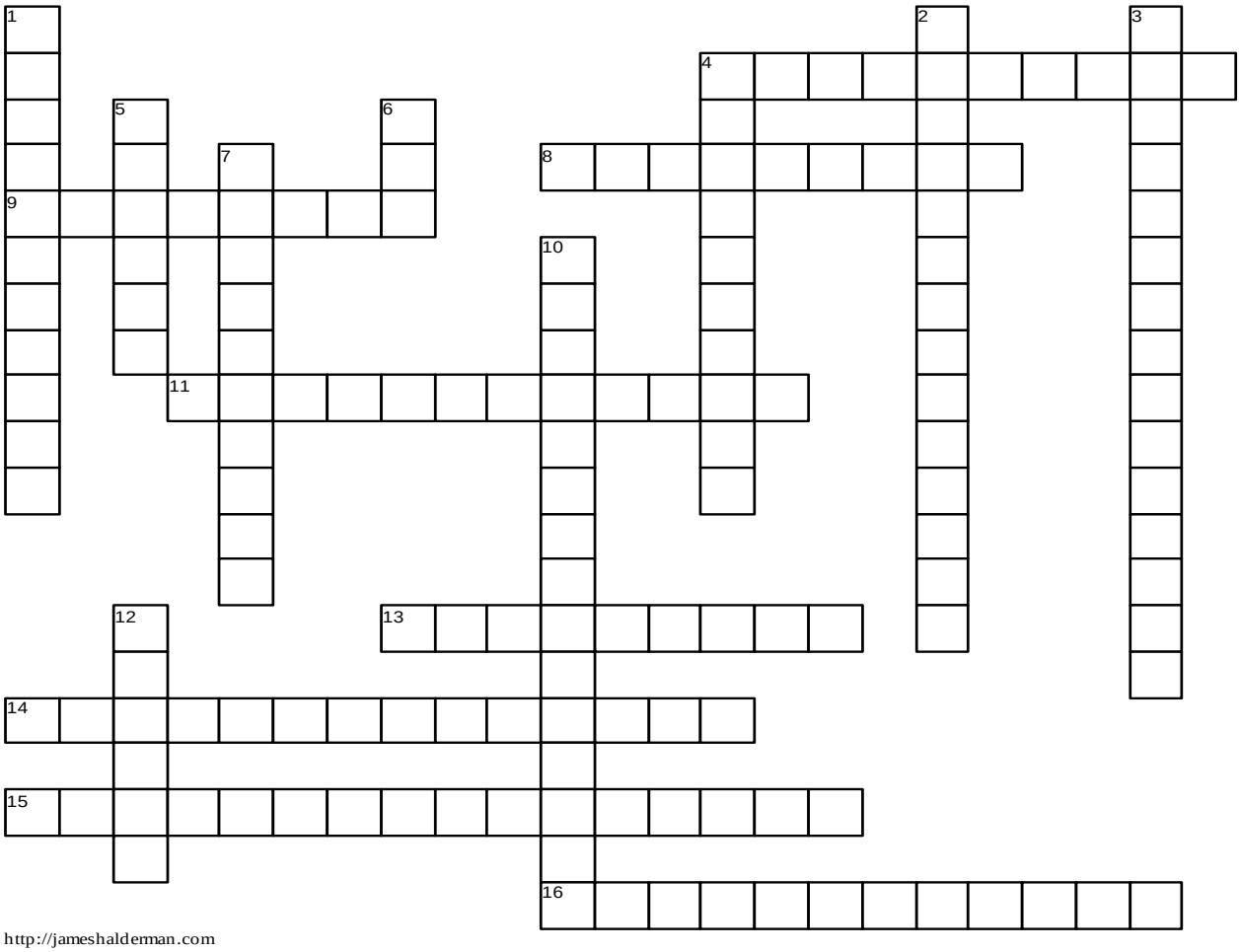
Cooling System Operation And Diagnosis

Chapter 9



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ACROSS

4 In the _____ ____ system, the coolant flows around all the cylinders on each bank.

8 In most vehicle radiators, the coolant flows through oval-shaped ____ _____.

9 The pump pulls coolant in at the center of the _____.

11 A second type of thermal fan has a _____ spring added to the silicone coupling fan drive.

13 Some vehicles use a _____ ____, which is located at the highest level of the cooling system and holds about 1 quart of coolant.

14 Some engines use a combination of two coolant flow systems and call it a _____-_____ flow system.

15 The _____ _____ fan drive is mounted between the drive pulley and the fan.

16 In the _____ ____ system, 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 Heat is transferred through the tube wall and soldered joint to _____ ____.

2 Some engines use _____ _____, which means that the coolant flows from the radiator to the cylinder heads before flowing to the engine block.

3 Vacuum pulls the coolant from the plastic container back into the cooling system, keeping the system full, this system is called a _____ _____ system.

4 Another name for bleed holes is _____ _____.

5 A _____ around the closed thermostat allows a small part of the coolant to circulate within the engine during warm-up.

6 Many vehicles manufactured in Japan or Europe use radiator pressure indicated in a unit called a ___.

7 In series flow systems, _____ _____ in the gasket, block, and head perform the function of letting out the steam.

10 The water pump is a _____ ____ that can move a large volume of coolant without increasing the pressure of the coolant.

12 Coolant leaving the pump impeller is fed through a _____.