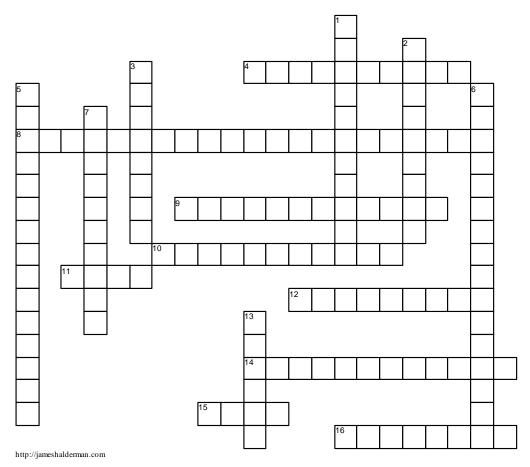
In-Vehicle Engine Service

Chapter 27



ACROSS

4 All ______ valves move during operation to maintain the desired coolant temperature.

- 8 Because _____ are used to seal oil, air, and coolant in most causes, determining that the intake manifold gasket is the root cause can be a challenge.
- **9** Dropping _____ is one sign of a leaking intake manifold gasket.
- 10 A _____ thermostat will likely cause the engine to
- **11** Gasoline engines used in ___s can be a hazard to be around under some condition.
- **12** A _____ replacement is needed if the bearing is noisy or loose.
- 14 _____ are made from rubber attached to a steel backing on both sides. One side is attached to the engine and the other to the body or frame.
- **15** The abbreviation for extended range electric vehicle is $__$

16 Expansion/contraction rate difference between the cast-iron head and the aluminum intake manifold can cause the intake manifold gasket to be damaged by the relative motion of the head and intake manifold, this type of failure is called

DOWN

2

3

5

100,000 miles.
A thermostat can cause the operating
temperature of the engine to be less than normal.
Hybrid vehicles are designed to stop the gasoline engine
unless needed, this feature is called
Stuck partially open is one of the for a
thermostat.
Use a to check for evidence of oil or
coolant between the intake manifold and the cylinder heads

replacement interval ranging from 60,000 miles to about

have a limited service and a specified

- 6 Use a ______ to check for evidence of oil or coolant between the intake manifold and the cylinder heads to indicate a leaking intake manifold.
- 13 A _____ thermostat works, but not within the correct temperature range.

