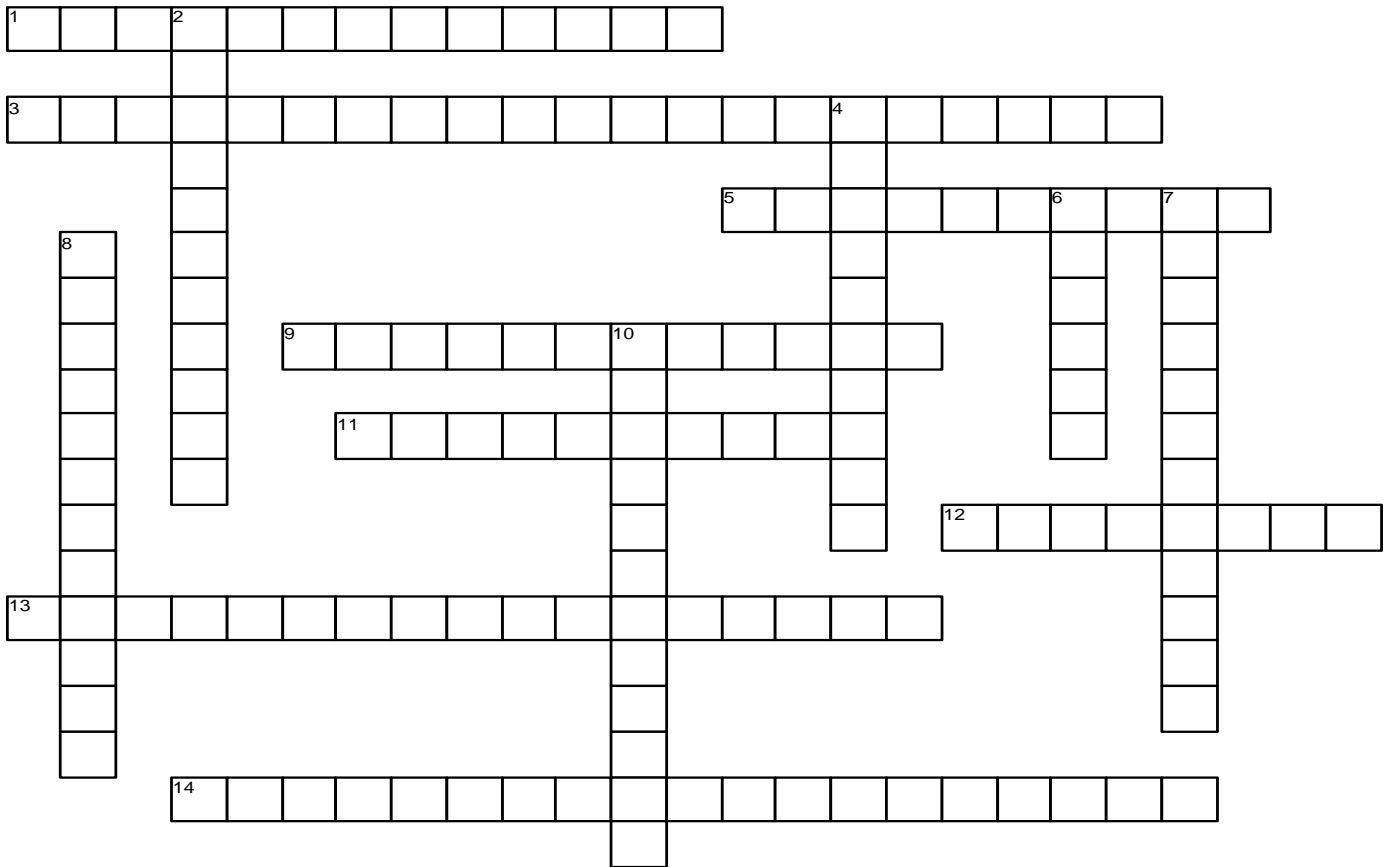


Valve Train and Variable Valve Timing Diagnosis

Chapter 7



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ACROSS

- 1 In an _____ engine the intake valve is kept open longer and remains open during part of the compression stroke.
- 3 VTEC is the abbreviation for variable valve timing and _____.
- 5 The oil control valve is controlled using a _____ modulation signal from the PCM.
- 9 At _____ pulse width the PCM is holding the cam in the calculated position based on engine RPM and load. The oil flow through the phaser drops to zero.
- 11 A type of camshaft phaser used on overhead camshaft (OHC) and overhead valve (OHV) cam-in-block engines.
- 12 The major function of the _____ is to open the valves.
- 13 Another term for variable valve timing.
- 14 _____ involves the use of electronic and hydraulic actuators that are used to change the timing of the camshaft in relation to the crankshaft.

DOWN

- 2 The _____ should open slightly before the piston reaches TDC and starts down on the intake stroke.
- 4 The camshaft position actuator _____ valve directs oil from the oil feed in the head to the appropriate camshaft position actuator oil passages.
- 6 Changing the _____ camshaft timing results in improved engine performance.
- 7 The camshaft is driven by timing gears, timing belts and _____.
- 8 A type of camshaft phaser used on overhead camshaft (OHC) engines.
- 10 The _____ opens while the piston is traveling down on the power stroke, before the piston starts up on the exhaust stroke.