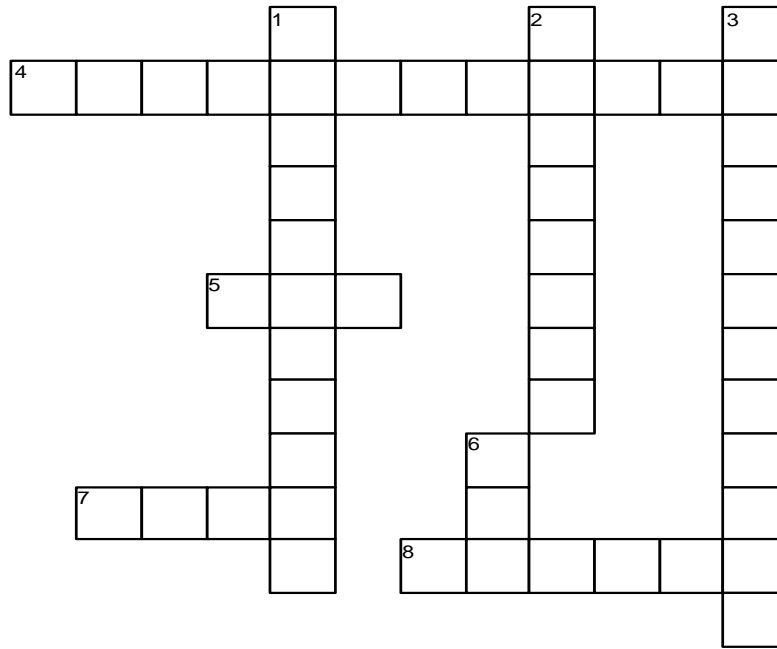


Advanced Engine Performance Diagnosis 8th Edition

Chapter 15

Variable Valve Timing and Displacement Systems



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ACROSS

- 4** A _____ controlled vane phaser is controlled by the PCM by using a 12-volt pulse-width-modulated signal to an electromagnet, which operates the OCV.
- 5** _____ control valve: A valve that controls the flow of oil to the variable valve timing system, allowing precise control over camshaft timing.
- 7** _____ phaser: A type of phaser used in variable valve timing systems to rotate the camshaft, adjusting the valve timing for better performance and efficiency.
- 8** _____ phaser: A device used in some variable valve timing systems to adjust the camshaft timing by rotating the camshaft relative to the crankshaft.

DOWN

- 1** In variable displacement systems, when cylinders are _____, the fuel injectors are turned off.
- 2** _____ valve timing and lift electronic control: A system used by Honda/Acura that adjusts both valve timing and valve lift for optimal performance at different engine speeds.
- 3** Conventional camshafts are permanently _____ to the crankshaft.
- 6** camshaft position sensor abbreviation.