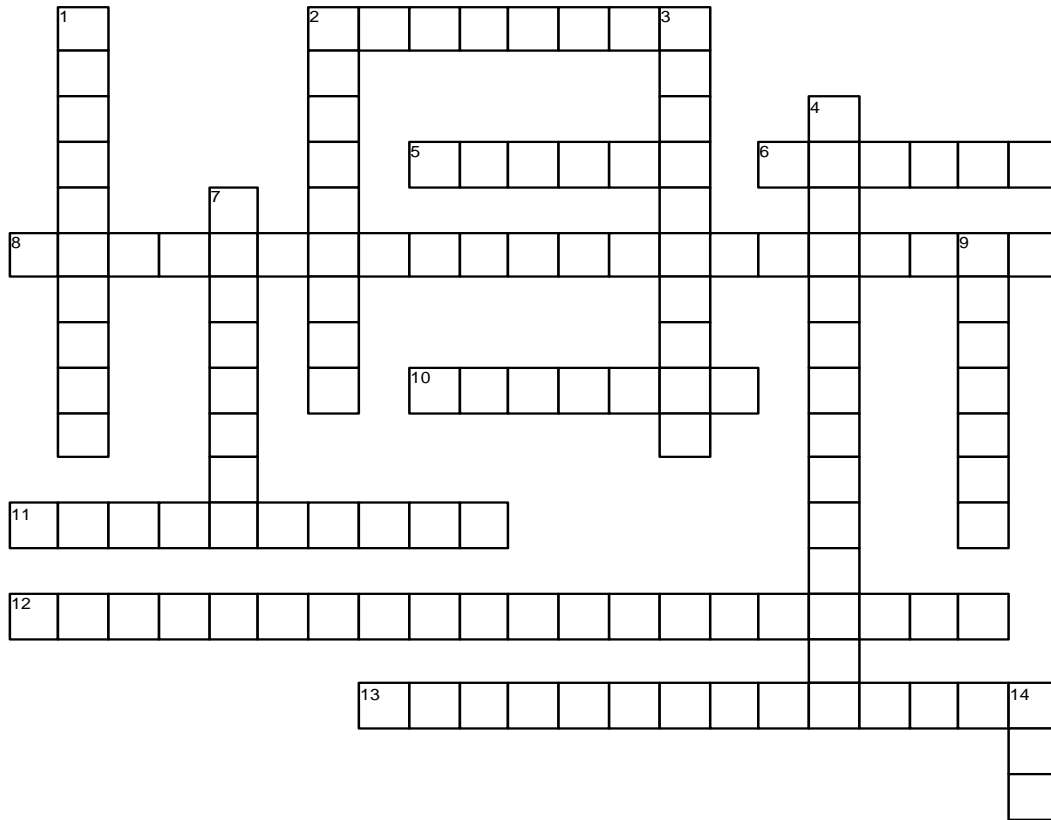


Positive Crankcase Ventilation And Secondary Air-Injection Systems

Chapter 87



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ACROSS

- 2 Another name for an SAI pump is a ____.
- 5 When manifold _____ is high, the PCV valve restricts the airflow to maintain a balanced air-fuel ratio.
- 6 The process of gases leaking past the rings is called _____, and the gases form crankcase vapors.
- 8 The _____-_____ system provides the air necessary for the oxidizing process either at the exhaust manifold or inside the catalytic converter.
- 10 A P0101 DTC indicates a MAF or _____ circuit range problem.
- 11 A _____ contains a spring-type metallic disc or reed that closes under exhaust back pressure.
- 12 A secondary air-injection system is most commonly called _____.
- 13 Another name for an SAI pump is a _____.

DOWN

- 1 The _____ is performed by simply removing the PCV valve and giving it a shake.
- 2 Turbocharged and many fuel-injected engines use an oil/vapor or oil/water _____ and a calibrated orifice instead of a PCV valve.
- 3 The _____ will fail if the PCM detects an opening between the crankcase and the PCV valve or between the PCV valve and the intake manifold.
- 4 Ford uses an _____ to prevent ice from forming inside the PCV valve and causing blockage.
- 7 The proper operation of the PCV valve can be checked by placing a finger over the inlet hole in the valve when the engine is running and removing the finger rapidly, the valve should _____.
- 9 An oil/vapor or oil/water separator is used in some systems instead of a valve or _____, particularly with turbocharged and fuel injected engines.
- 14 _____ systems were developed to ventilate the crankcase and recirculate the vapors to the engine's induction system so that they can be burned in the cylinders.