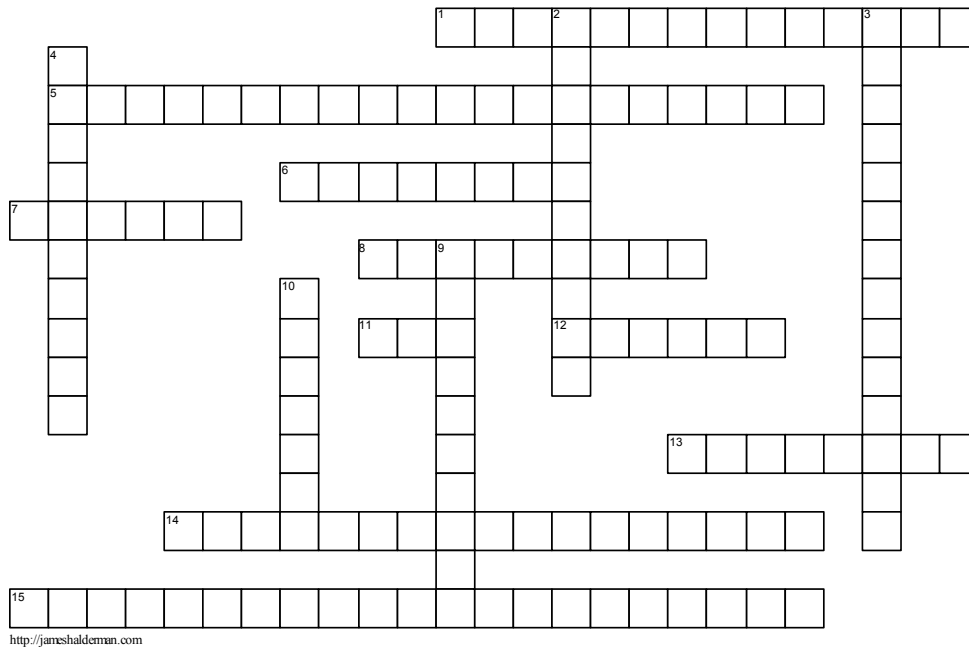


# Positive Crankcase Ventilation And Secondary Air-Injection Systems

## Chapter 27



### ACROSS

- 1 Ford uses an \_\_\_\_\_ to prevent ice from forming inside the PCV valve and causing blockage.
- 5 A secondary air-injection system is most commonly called \_\_\_\_-\_\_\_\_\_.
- 6 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 \_\_\_\_\_.
- 7 The process of gases leaking past the rings is called \_\_\_\_\_, and the gases form crankcase vapors.
- 8 Turbocharged and many fuel-injected engines use an oil/vapor or oil/water \_\_\_\_\_ and a calibrated orifice instead of a PCV valve.
- 11 \_\_\_\_\_ 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.
- 12 When manifold \_\_\_\_\_ is high, the PCV valve restricts the airflow to maintain a balanced air-fuel ratio.
- 13 Another name for an SAI pump is a \_\_\_\_\_.
- 14 A P0505 DTC would indicate an \_\_\_\_\_ problem.
- 15 The \_\_\_\_\_-\_\_\_\_\_ system provides the air necessary for the oxidizing process either at the exhaust manifold or inside the catalytic converter.

### DOWN

- 2 A \_\_\_\_\_ contains a spring-type metallic disc or reed that closes under exhaust back pressure.
- 3 Another name for an SAI pump is a \_\_\_\_\_.
- 4 The \_\_\_\_\_ is performed by simply removing the PCV valve and giving it a shake.
- 9 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.
- 10 An oil/vapor or oil/water separator is used in some systems instead of a valve or \_\_\_\_\_, particularly with turbocharged and fuel injected engines.