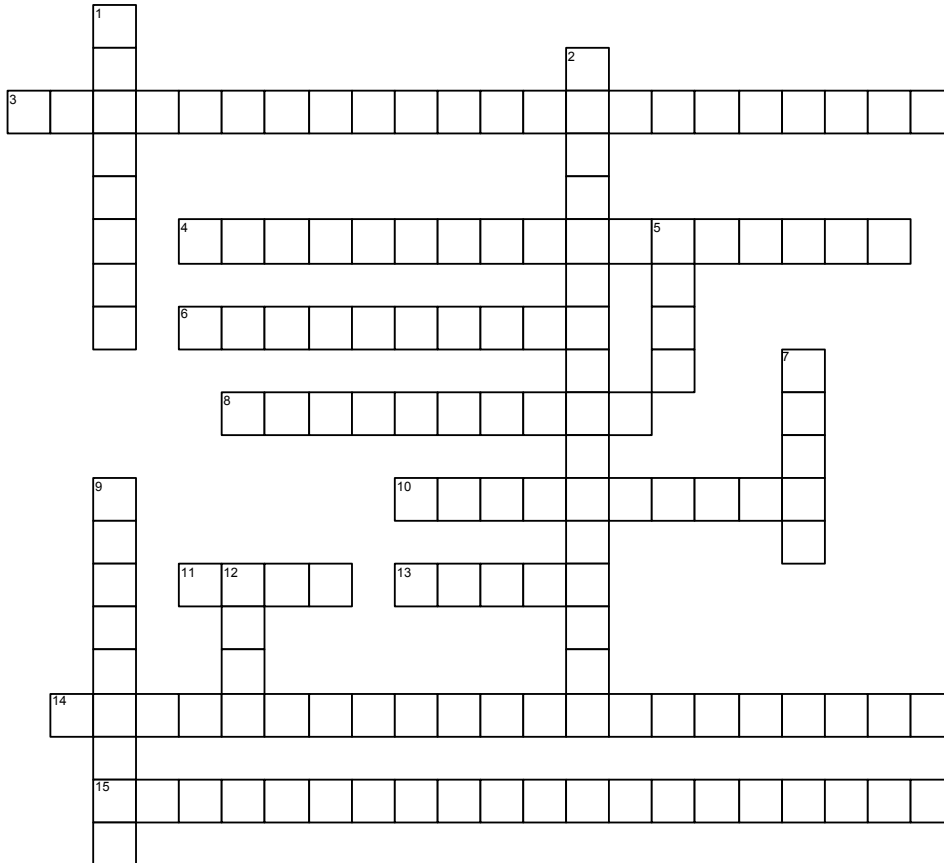


# Evaporative Emission Control Systems

## Chapter 25



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### ACROSS

- 3 Many \_\_\_\_\_ are set because the gas cap has not been properly installed.
- 4 Many vehicles use a vacuum operated \_\_\_\_\_ as part of the evaporative control system diagnosis equipment.
- 6 By a process called \_\_\_\_\_, the fuel vapor molecules adhere to the carbon surface.
- 8 The fuel tank \_\_\_\_\_ used on vehicles with modern EVAP systems are a special design.
- 10 The canister \_\_\_\_\_ is normally closed and is pulsed open by the PCM during purging.
- 11 The \_\_\_\_\_ system includes the charcoal canister, hoses, and valves.
- 13 Most purge valves are pulsed on and off to better control the amount of \_\_\_\_\_ being drawn into the intake manifold.
- 14 Another name for the canister purge valve is the \_\_\_\_\_.
- 15 A leak in a \_\_\_\_\_ can result in engine vacuum drawing in a constant flow of gasoline vapors from the fuel tank.

### DOWN

- 1 Activated \_\_\_\_\_ is an effective vapor trap because of its great surface area.
- 2 A \_\_\_\_\_ sensor monitors the rate with which vacuum increases in the system.
- 5 The primary feature of most \_\_\_\_\_ systems is the restricted tank filler tube, which is about 1 inch (25 mm) in diameter.
- 7 Pressures can build inside the fuel system and are usually measured in units of \_\_\_\_\_.
- 9 The canister \_\_\_\_\_ is a normally open valve and is closed only when commanded by the PCM during testing of the system.
- 12 The purpose of the evaporative emission control system is to trap and hold gasoline vapors, also called \_\_\_\_\_.