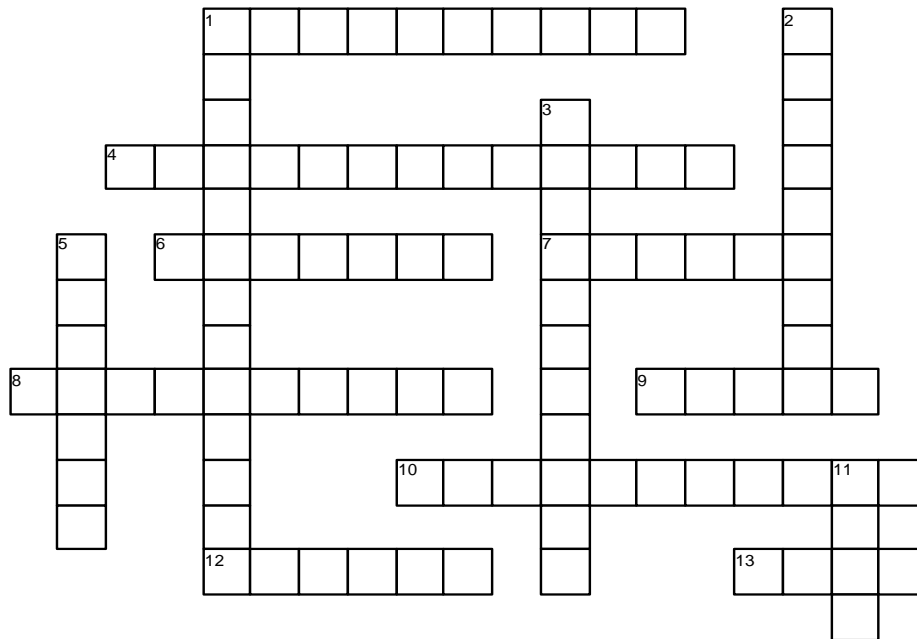


Automotive Electrical and Engine Performance 9th Edition

Chapter 44 - On-Board Diagnosis



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ACROSS

- 1 _____ Air Resources Board (CARB): A government agency responsible for regulating air quality, including establishing emission standards for vehicles sold in California.
- 4 _____ Weighted Moving Average (EWMA) Monitor: A type of monitor that averages values over time to detect gradual changes in performance.
- 6 _____ Test Procedure (FTP): A standardized test that simulates urban driving conditions to measure vehicle emissions and ensure compliance with emission standards.
- 7 _____-frame: A snapshot of engine data recorded at the moment a Diagnostic Trouble Code (DTC) is set, providing details to aid in troubleshooting.
- 8 _____ Executive: A special software segment within the PCM, responsible for coordinating the running of diagnostic tests and managing their results.
- 9 On-_____Diagnostics (OBD): A system that monitors and reports the performance of vehicle components and emissions systems.
- 10 A test that compares sensor values to expected parameters, ensuring signals make sense logically.
- 12 _____ Criteria: Specific conditions that must be met for a diagnostic monitor to run, such as temperature or speed requirements.
- 13 _____ Identification (TID): A number used to identify specific diagnostic tests performed by the vehicle's PCM.

DOWN

- 1 _____ Component Monitor (CCM): A monitor in the vehicle's powertrain control module (PCM) that continuously checks for proper operation of emission-related and non-emission-related circuits.
- 2 _____ Identification (PID): Data points used by scan tools to display information from the vehicle's PCM, such as sensor readings.
- 3 _____ Indicator Lamp (MIL): Also known as the Check Engine Light, it alerts the driver to malfunctions in the engine or emission control system.
- 5 _____ of Automotive Engineers (SAE): An organization that sets technical standards for automotive systems, including those related to diagnostics.
- 11 _____ Manager: A software function in the PCM that determines when diagnostic monitors should run and in what order, prioritizing them as needed.