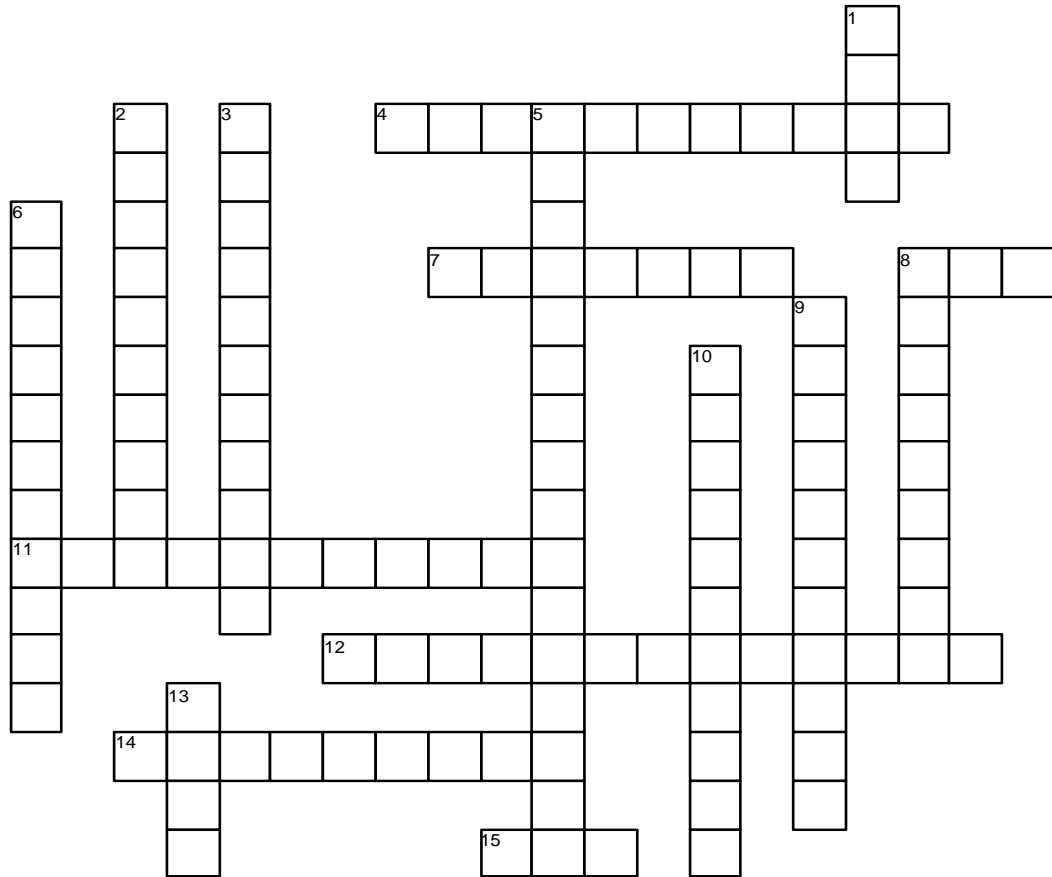# Onboard Diagnosis
## Chapter 19

## ACROSS

**4** All new vehicles must pass the _____ _____ procedure for exhaust emissions while being tested for 1874 seconds on dynamometer rollers that simulate the urban drive cycle around downtown Los Angeles.

**7** Early __-_____ diagnostics systems were meant to reduce emissions and speed up vehicle repair.

**8** The ___ watches the sensors and actuators in the OBD-II system.

**11** On OBD-II systems, the PCM incorporates a special segment of software, on Chrysler systems, this software is called _____ _____.

**12** OBD-II requires that outputs to powertrain components from the PCM be tested for _____.

**14** Mode one of operation is _____ identification.

**15** Every OBD-II scan tool will be able to read all generic ___ DTCs from any vehicle.

## DOWN

**1** Hexadecimal coding is also used to identify _____ identification.

**2** On OBD-II systems, the PCM incorporates a special segment of software, on Ford and GM systems, this software is called the diagnostic _____.

**3** Record a _____-_____, which is a snapshot of important engine data at the time the DTC was set.

**5** _____ _____ are a set of conditions that must be met before the task manager will give the go-ahead for each monitor to run.

**6** An instrument panel warning lamp able to alert the driver of certain control system failures, now called a _____ indicator lamp.

**8** Hexadecimal coding is also used to identify _____ identification.

**9** OBD-II requires that inputs from powertrain components to the PCM be tested for _____.

**10** The ____ _____ is a mathematical method used to determine performance.

**13** The _____ developed the first regulation requiring manufacturers selling vehicles in that state to install OBD.