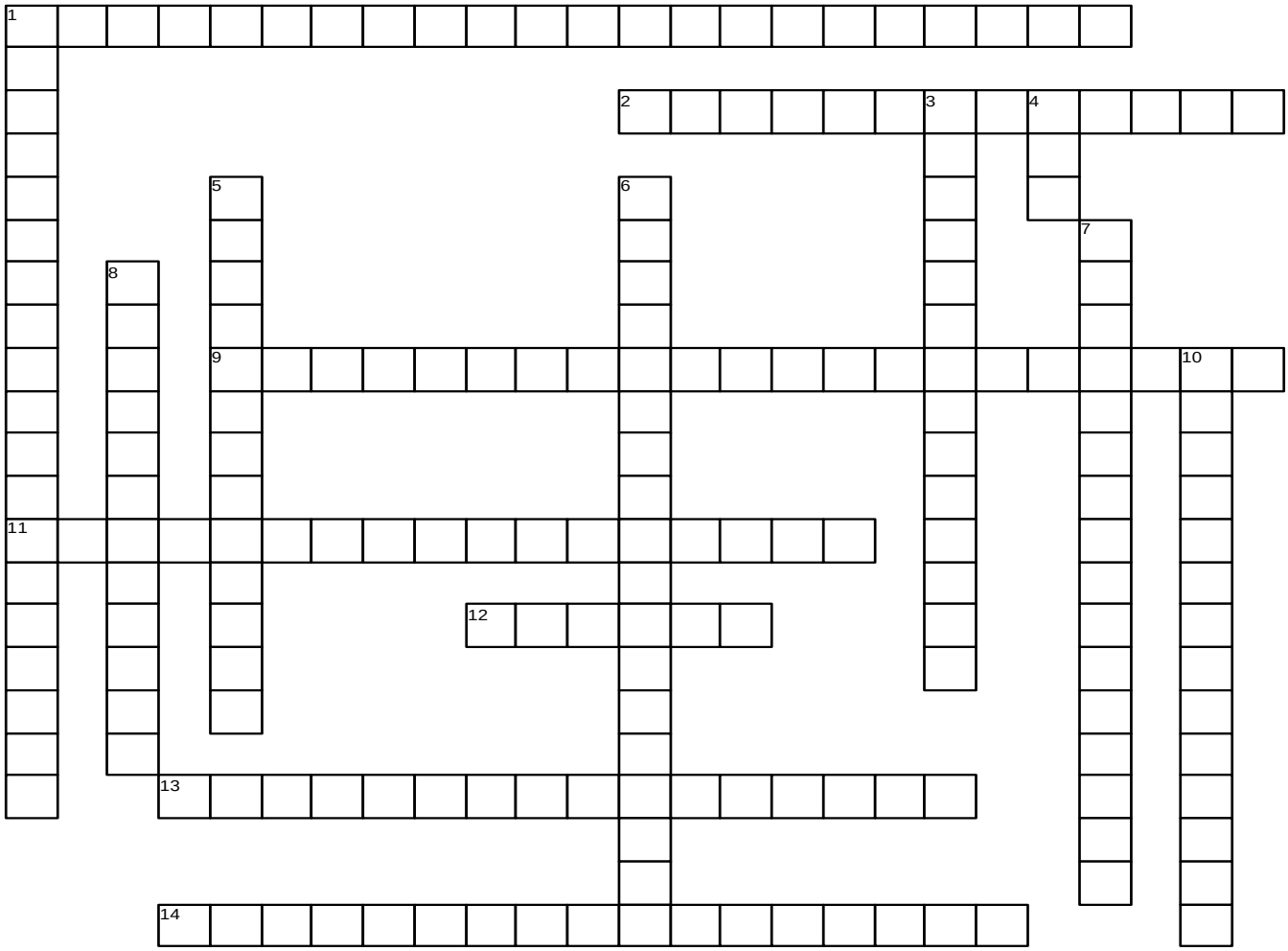
Throttle Position Sensors

Chapter 16



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ACROSS

1 Most computer-equipped engines use a _____ _____ _____ to signal to the computer the position of the throttle.

2 The TP sensor consists of a _____, a type of variable resistor.

9 The _____ _____ _____ will be released if the PCM detects rapid acceleration to help the transmission deliver maximum torque to the drive wheels.

11 A typical TP sensor has three wires, one is a _____ _____ ___ back to the computer.

12 If the 5 volts to the sensor is too high or too low, then the sensor output will be _____.

13 As part of the _____ _____ for the MAP and/or MAF sensor, the TP sensor signal is compared to the reading from other sensors to determine if they match.

14 A typical TP sensor has three wires, one is a ____-____ _____ feed wire from the computer.

DOWN

1 A P0123 DTC would indicate __ _____ ____ _____.

3 When the TP sensor voltage is at idle, the PCM then controls idle speed using the ____ ___ _____ and/or spark timing variation to maintain the commanded idle speed.

4 If the TP sensor is showing WOT, the ___ and/or MAF reading should also indicate that the engine is under a heavy load.

5 According to Ford, if the _____ _____ is at 40%, then the TP sensor voltage should be 2.37V.

6 A P0122 DTC would indicate __ _____ ___ _____.

7 The PCM supplies the TP sensor with a _____ _____ that ranges from 4.8 to 5.1 volts.

8 The TP sensor is mounted to the _____ ____.

10 If the throttle is depressed to the floor during engine cranking, the PCM will either greatly reduce or entirely eliminate any fuel-injector pulses to aid in cleaning a flooded engine, this is called _____ _____ ____.