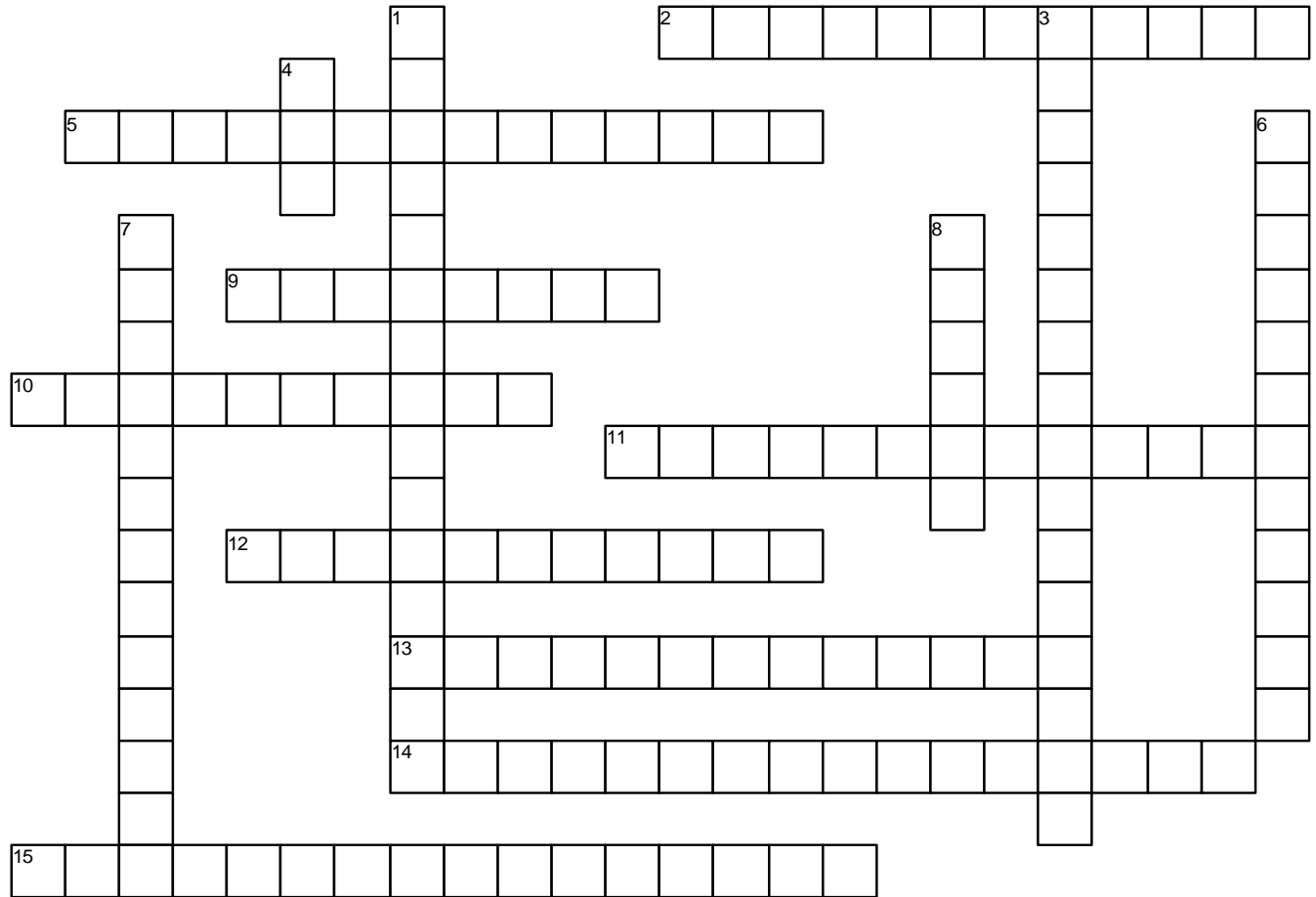


Throttle Position (TP) Sensors

Chapter 32



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ACROSS

- 2 A P0123 DTC would indicate _____ v voltage.
- 5 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.
- 9 A typical TP sensor has three wires, one is a _____ reference feed wire from the computer.
- 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 _____ mode.
- 11 A typical TP sensor has three wires, one is a _____ wire back to the computer.
- 12 A P0122 DTC would indicate _____ v voltage.
- 13 According to Ford, if the _____ is at 40%, then the TP sensor voltage should be 2.37V.
- 14 The PCM supplies the TP sensor with a _____ that ranges from 4.8 to 5.1 volts.
- 15 Most computer-equipped engines use a _____ sensor to signal to the computer the position of the throttle.

DOWN

- 1 The _____ clutch will be released if the PCM detects rapid acceleration to help the transmission deliver maximum torque to the drive wheels.
- 3 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.
- 4 If the TP sensor is showing WOT, the _____ and/or MAF reading should also indicate that the engine is under a heavy load.
- 6 The TP sensor is mounted to the _____.
- 7 The TP sensor consists of a _____, a type of variable resistor.
- 8 If the 5 volts to the sensor is too high or too low, then the sensor output will be _____.