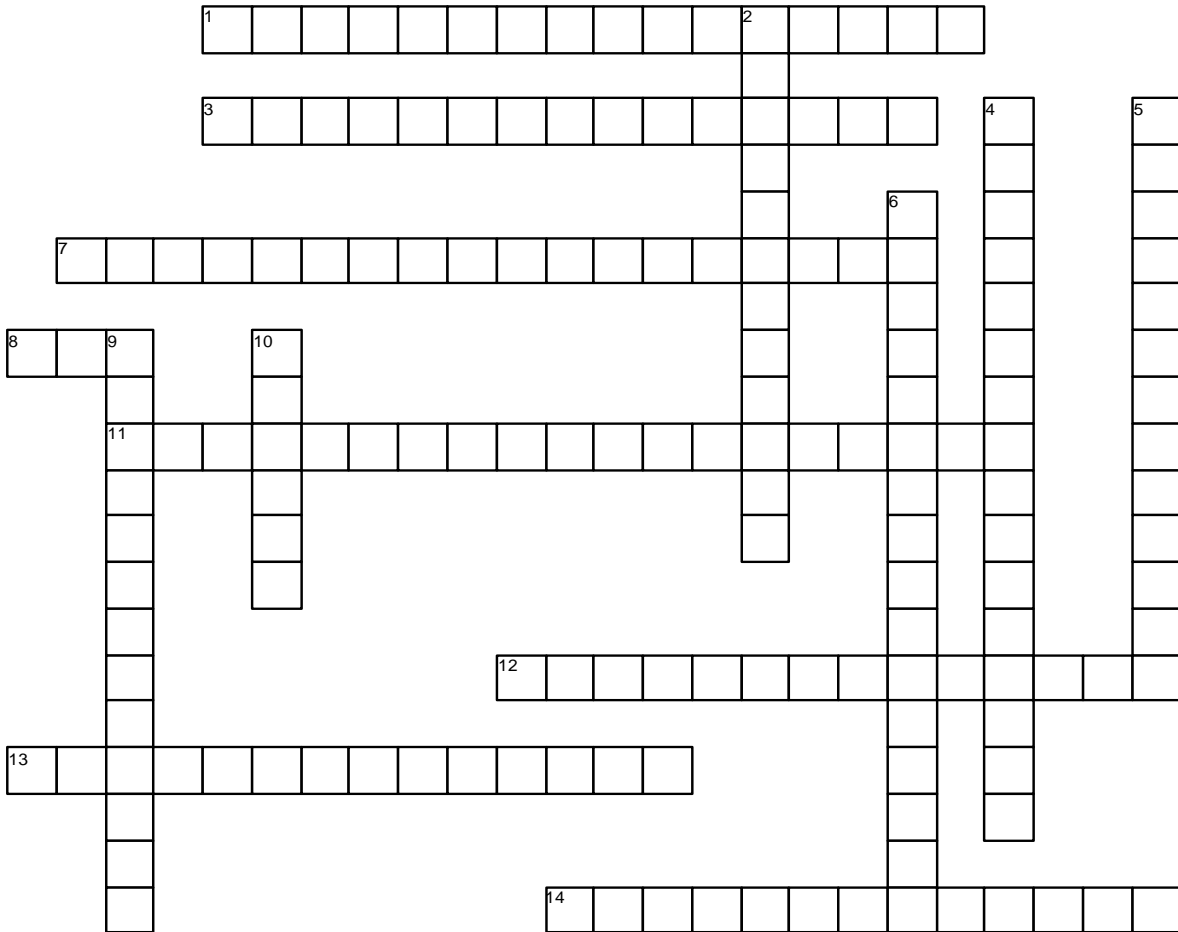


# Throttle Position (TP) Sensors

## Chapter 75



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### ACROSS

- 1 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.
- 3 The \_\_\_\_\_ clutch  
will be released if the PCM  
detects rapid acceleration to  
help the transmission deliver  
maximum torque to the drive  
wheels.
- 7 A P0122 DTC would indicate \_\_\_\_  
\_\_\_\_\_.
- 8 If the TP sensor is showing  
WOT, the \_\_\_\_ and/or MAF  
reading should also indicate that  
the engine is under a heavy  
load.
- 11 A P0123 DTC would indicate \_\_\_\_

- \_\_\_\_\_ voltage.
- 12 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.
- 13 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  
\_\_\_\_\_.
- 14 According to Ford, if the  
\_\_\_\_\_ is at 20  
degrees, then the TP sensor  
voltage should be 1.44V.

### DOWN

- 2 The TP sensor is mounted to the

- \_\_\_\_\_.
- 4 Most computer-equipped  
engines use a \_\_\_\_\_  
\_\_\_\_\_ sensor to signal to the  
computer the position of the  
throttle.
- 5 A typical TP sensor has three  
wires, one is a \_\_\_\_\_  
wire back to the computer.
- 6 The PCM supplies the TP  
sensor with a \_\_\_\_\_  
\_\_\_\_\_ that ranges from 4.8 to  
5.1 volts.
- 9 The TP sensor consists of a  
\_\_\_\_\_, a type of  
variable resistor.
- 10 If the 5 volts to the sensor is too  
high or too low, then the sensor  
output will be \_\_\_\_\_.