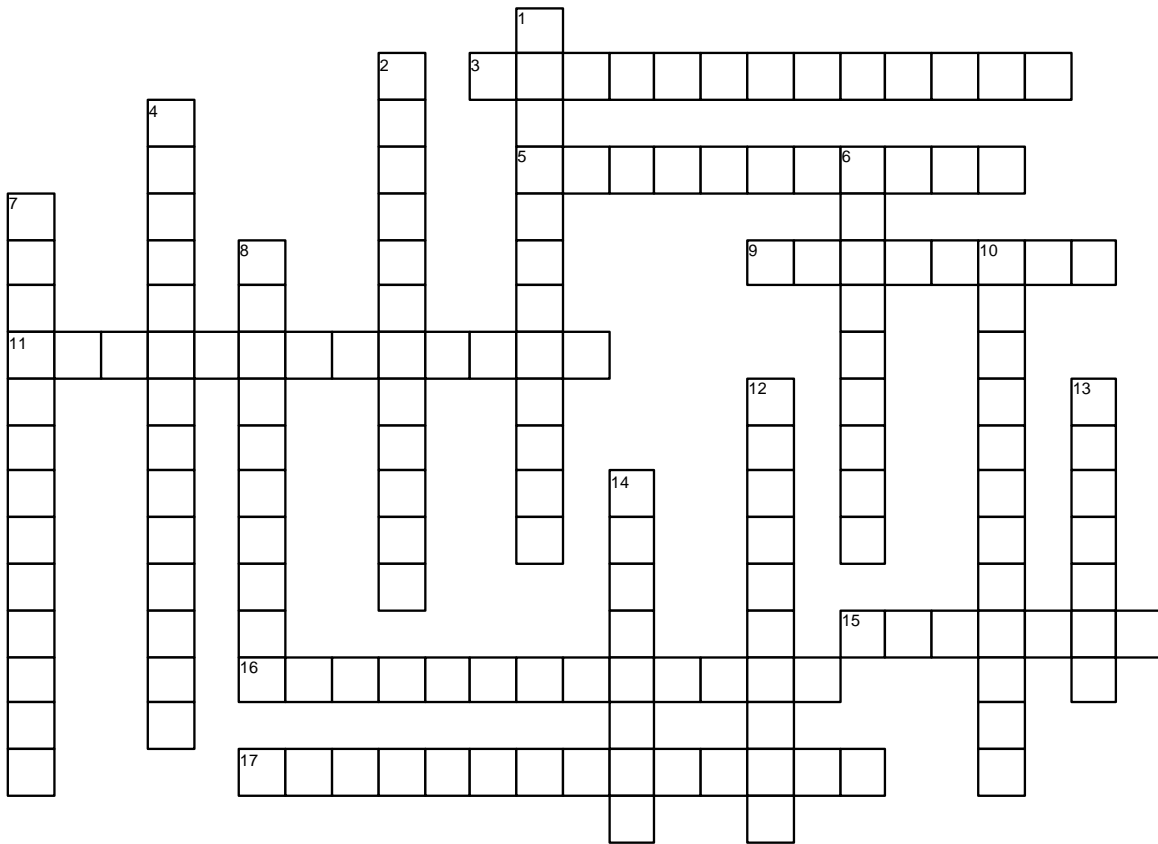


Mass Air Flow Sensors

Chapter 77



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ACROSS

- 3 A P0102 DTC would indicate _____ output.
- 5 Most newer fuel injection systems use a _____ sensor to calculate the amount of air volume delivered to the engine.
- 9 Chrysler uses a _____-type Karman Vortex sensors that uses a pressure sensor to detect vortices.
- 11 The _____ uses a temperature sensing resistor to measure the temperature of the incoming air.
- 15 In a _____, with engine running at idle, gently tap the MAF sensor with the fingers of an open hand. If the engine stumbles or stalls, the MAF sensor is defective.
- 16 The _____ is similar to the hot film type, but uses a hot wire to sense the mass air flow instead of the hot film.
- 17 A P0103 DTC would indicate _____ output.

DOWN

- 1 A _____ sensor sends a sound wave through the turbulence created by incoming air passing through the sensor.
- 2 Electronic fuel injection systems that do not use the _____ system for fuel calculation measure the air flow volume delivered to the engine.

- 4 Some high wire-type MAF sensors use a _____-_____ to keep the sensing wire clean of dust and dirt.
- 6 At WOT, the _____, as read on a meter or scan tool, should exceed 7kHz for a digital sensor.
- 7 A _____ sensor is a sensor that has a major influence over the amount of fuel being delivered to the engine.
- 8 The potentiometer provides the information the computer needs to vary the injector _____ proportionate to air flow.
- 10 If a sensor is defective yet still produces a signal to the computer, the computer will often accept the reading and make the required changes in fuel delivery and spark, to diagnose this, perform the _____.
- 12 _____ waves detect vortices that are produced, and produce a digital signal where frequency is proportional to the amount of air passing through the sensor.
- 13 With the engine running at idle speed, gently tap the MAF sensor with the fingers of an open hand, this is called the _____.
- 14 If an air hose between the MAF sensor and the throttle body was loose or had a hole, extra air could enter the engine without being measured, this air is called _____.