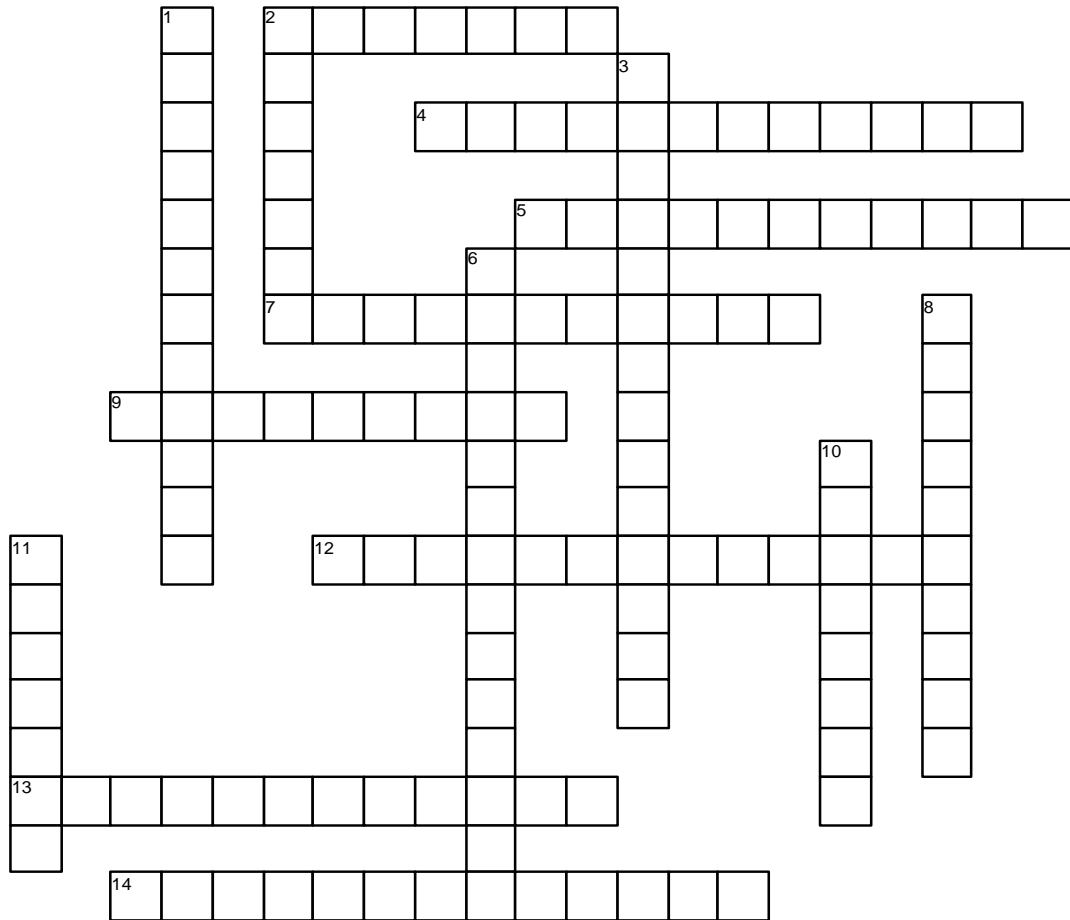


Mass Air Flow Sensors

Chapter 23



<http://jameshalderman.com>

ACROSS

- 2 The ___ ___ sensor is similar to the hot film type, but uses a hot wire to sense the mass air flow instead of the hot film.
- 4 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 ___ ___ ___.
- 5 Older systems use a movable vane in the intake stream called a ___ ___ sensor.
- 7 Most newer fuel injection systems use a ___ ___ ___ sensor to calculate the amount of air volume delivered to the engine.
- 9 ___ is measured in hertz.
- 12 A P0102 DTC would indicate ___ ___ ___ output.
- 13 Electronic fuel injection systems that do not use the ___ ___ system for fuel calculation measure the air flow volume delivered to the engine.
- 14 A ___ - ___ sensor is a sensor that has a major influence over the amount of fuel being delivered to the engine.

DOWN

- 1 A ___ ___ sensor sends a sound wave through the turbulence created by incoming air passing through the sensor.
- 2 The ___ ___ sensor uses a temperature sensing resistor to measure the temperature of the incoming air.
- 3 Some high wire-type MAF sensors use a ___ - ___ ___ to keep the sensing wire clean of dust and dirt.
- 6 A P0103 DTC would indicate ___ ___ ___ output.
- 8 The potentiometer provides the information the computer needs to vary the injector ___ ___ proportionate to air flow.
- 10 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 ___ ___.
- 11 With the engine running at idle speed, gently tap the MAF sensor with the fingers of an open hand, this is called the ___ ___.