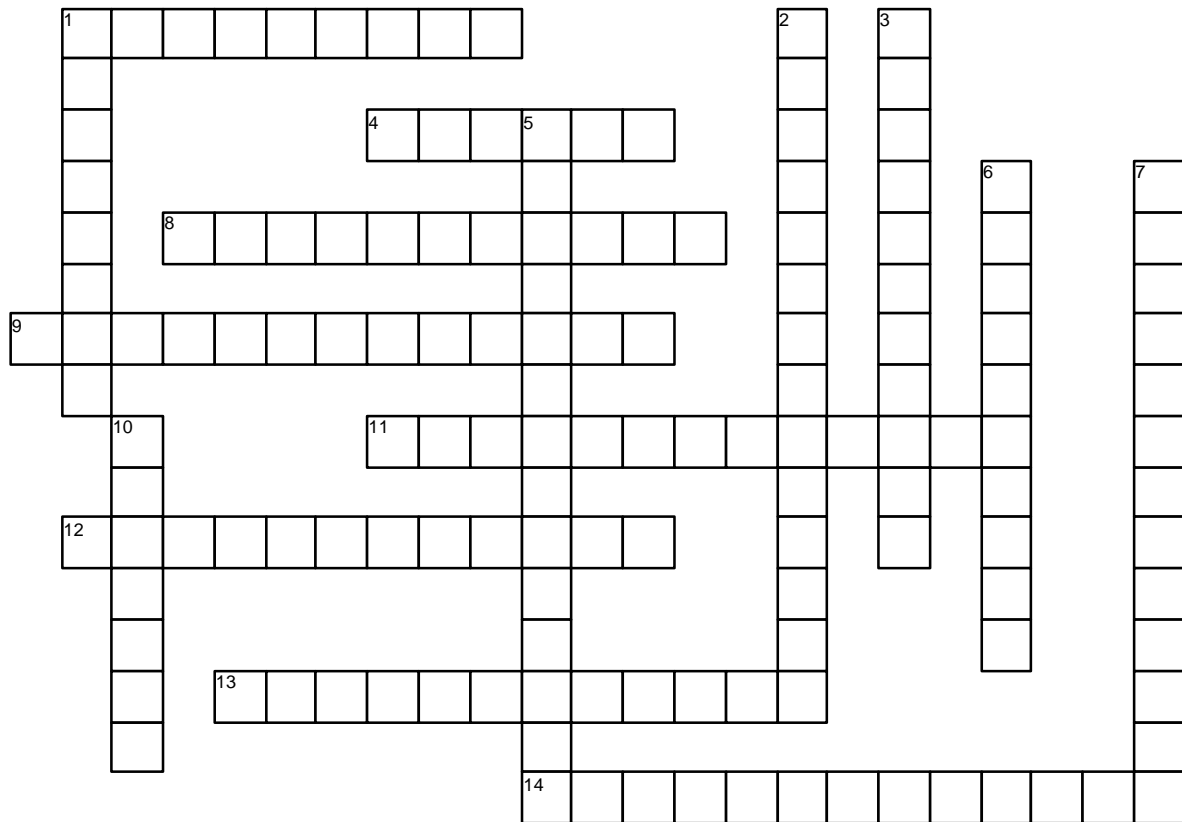


Mass Air Flow Sensors

Chapter 34



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ACROSS

- 1 _____ is measured in hertz.
- 4 A _____ vortex sensor sends a sound wave through the turbulence created by incoming air passing through the sensor.
- 8 Older systems use a movable vane in the intake stream called a _____ sensor.
- 9 A _____ sensor is a sensor that has a major influence over the amount of fuel being delivered to the engine.
- 11 A P0102 DTC would indicate _____ output.
- 12 Electronic fuel injection systems that do not use the _____ system for fuel calculation measure the air flow volume delivered to the engine.
- 13 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 _____.
- 14 The _____ is similar to the hot film type, but uses a hot wire to sense the mass air flow instead of the hot film.

DOWN

- 1 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 _____.
- 2 Some high wire-type MAF sensors use a _____ to keep the sensing wire clean of dust and dirt.
- 3 Most newer fuel injection systems use a _____ sensor to calculate the amount of air volume delivered to the engine.
- 5 A P0103 DTC would indicate _____ output.
- 6 The potentiometer provides the information the computer needs to vary the injector _____ proportionate to air flow.
- 7 The _____ uses a temperature sensing resistor to measure the temperature of the incoming air.
- 10 With the engine running at idle speed, gently tap the MAF sensor with the fingers of an open hand, this is called the _____.