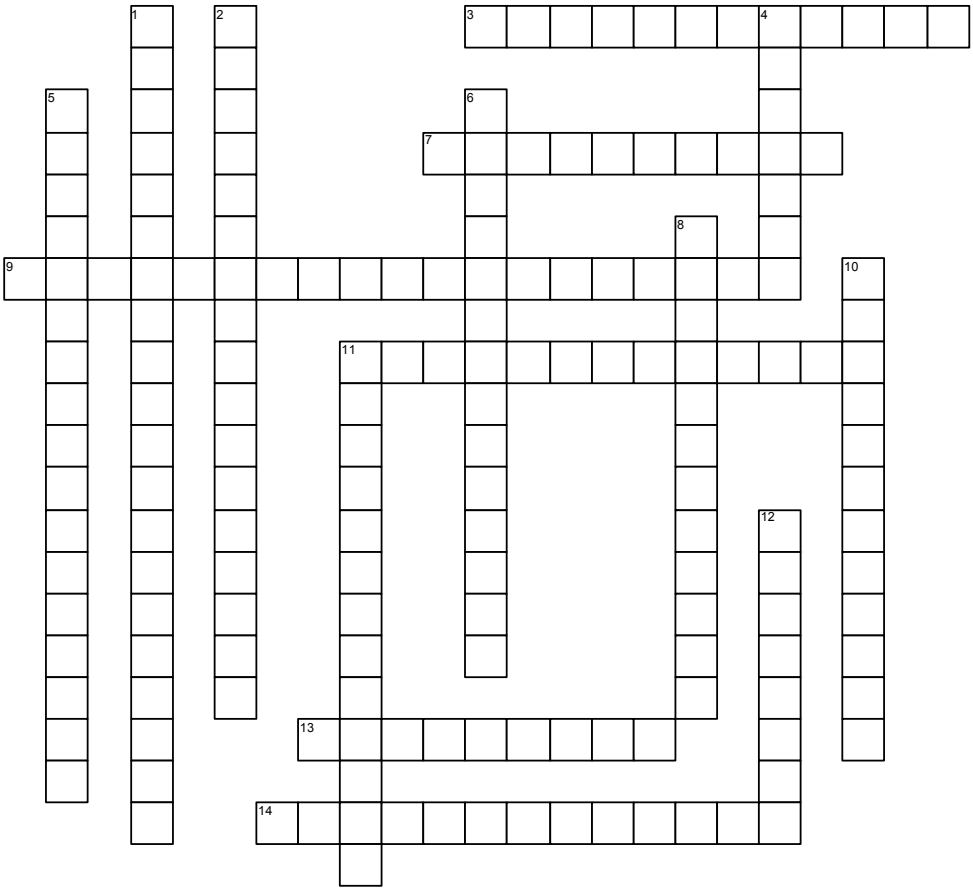
Mass Air Flow Sensors

Chapter 75



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ACROSS

3 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 _____ __ ____.
7 The potentiometer provides the information the computer needs to vary the injector _____ _____ proportionate to airflow.
9 A P0102 DTC would indicate ___ _____ ___ _____.
11 The ___ ____ _____ uses a temperature sensing resistor to measure the temperature of the incoming air.
13 _____ is measured in hertz.
14 The ___ ____ _____ is similar to the hot film type, but uses a hot wire to sense the mass airflow instead of the hot film.

DOWN

1 A P0103 DTC would indicate ___ _____ ____ _____.
2 Most newer fuel injection systems use a ____ ___ ___ _____ to calculate the amount of air volume delivered to the engine.
4 With the engine running at idle speed, gently tap the MAF sensor with the fingers of an open hand, this is called the ___ ____.
5 Older systems use a movable vane in the intake stream called a ____ _____ _____.
6 Some high wire-type MAF sensors use a ____-___ _____ to keep the sensing wire clean of dust and dirt.
8 Electronic fuel injection systems that do not use the _____ _____ system for fuel calculation measure the airflow volume delivered to the engine.
10 A _____ _____ sensor sends a sound wave through the turbulence created by incoming air passing through the sensor.
11 A ____-_____ sensor is a sensor that has a major influence over the amount of fuel being delivered to the engine.
12 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 _____ ___.