

Automotive Technology 7th Edition
Chapter 72: MAP and MAF Sensors
Matching Quiz

Name: _____

Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|--|--|-----------|
| 1. Mass Airflow (MAF) sensor | A. The low pressure within the engine, measured in inches of Mercury (in. Hg). | 1. _____ |
| 2. Barometric Pressure (BARO) sensor | B. The change in resistance of resistors attached to a silicon wafer when strain is applied. | 2. _____ |
| 3. Manifold Absolute Pressure (MAP) sensor | C. A sensor that measures the amount and density of air entering the engine, and typically outputs a frequency based on the airflow. | 3. _____ |
| 4. Pressure differential | D. A sensor that measures the pressure inside the intake manifold compared to a perfect vacuum, and outputs a signal based on this pressure. | 4. _____ |
| 5. Vacuum (engine) | E. A circuit used in some MAF sensors to keep the sensing wire clean of dust and dirt by heating it. | 5. _____ |
| 6. Piezoresistivity | F. Extra air that enters the engine without being measured, often due to a loose air inlet hose or a hole. | 6. _____ |
| 7. Hot Wire Sensor | G. A sensor that senses subtle changes in atmospheric air pressure, often used to determine altitude. | 7. _____ |
| 8. Hot Film Sensor | H. The difference in pressure between two areas, causing higher-pressure air to flow into a low-pressure area. | 8. _____ |
| 9. Burn-off circuit | I. A type of MAF sensor that uses a temperature-sensing resistor (thermistor) to measure incoming air temperature. | 9. _____ |
| 10. False air | J. A type of MAF sensor that uses a hot wire to sense the mass airflow. | 10. _____ |

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Answer Key

Answer Key:

1. C
2. G
3. D
4. H
5. A
6. B
7. J
8. I
9. E
10. F