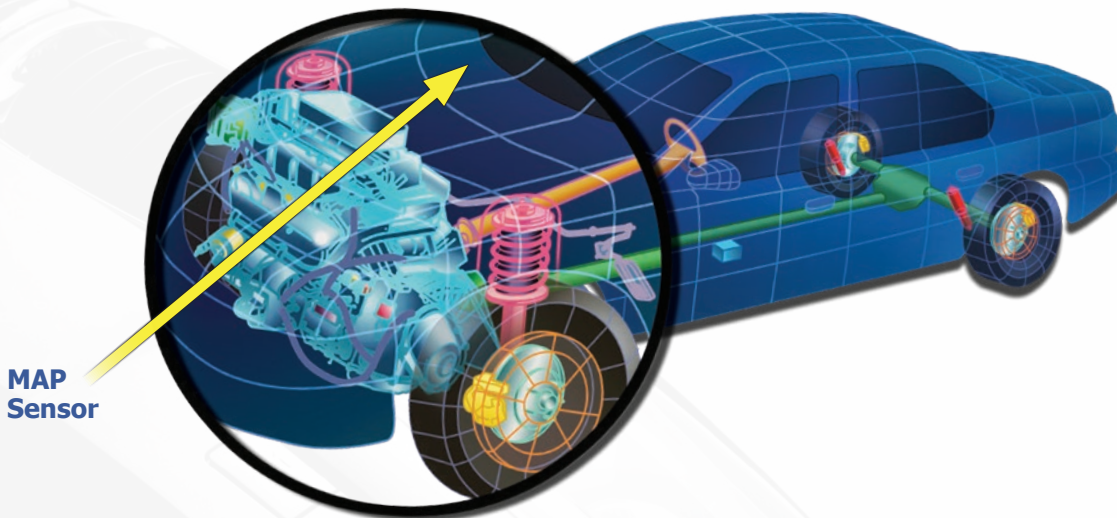


# « JUST THE FACTS »

## MAP (Manifold Absolute Pressure) Sensors



### What does a MAP Sensor do?

The MAP sensor converts engine vacuum/manifold pressure to an electrical signal so the computer knows how much load the engine is under. This data is the basis for fuel delivery and timing control.

### Where is the MAP Sensor located?

The MAP sensor is typically located in the air cleaner, fender wall, firewall, intake manifold or under the dash.

### Will a malfunctioning MAP Sensor illuminate the check engine light or affect vehicle operation?

Yes, a failing sensor can illuminate the MIL, and may cause the engine to have a rich or lean fuel mixture condition.

### What are the common causes of failure?

Typically these sensors fail due to the constant contact of the movable wiper arm over the sensor element and the exposure to the high under hood heat.

### How to determine if the MAP Sensor is malfunctioning?

The Diagnostic Monitor tests for voltages outside of the normal range. The PCM also compares actual MAP output to calculated values to determine sensor performance deterioration. The calculated values are based on TP and various engine load factors.

### What makes Standard® and Intermotor® MAP Sensors the best?

- As basic manufacturers, Standard® and Intermotor® have complete control of the manufacturing process from componentry to finished product to ensure precise operation
- Our manufacturing process includes extensive use of robotics for precision assembly
- 100% product in-line and end-of-line inspection from raw material to packaging of finished product



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