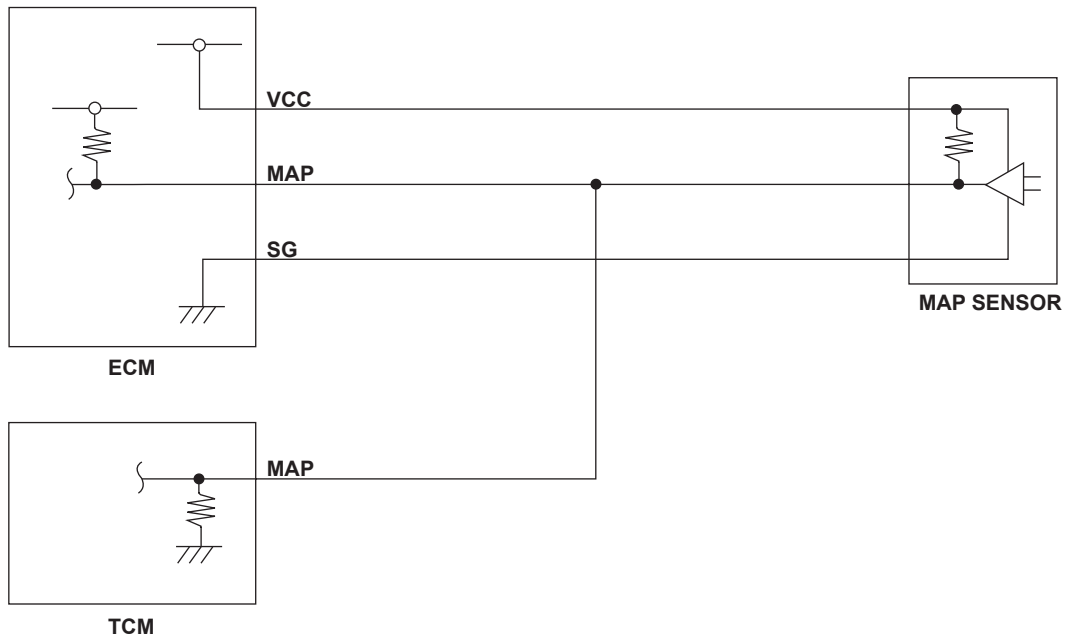


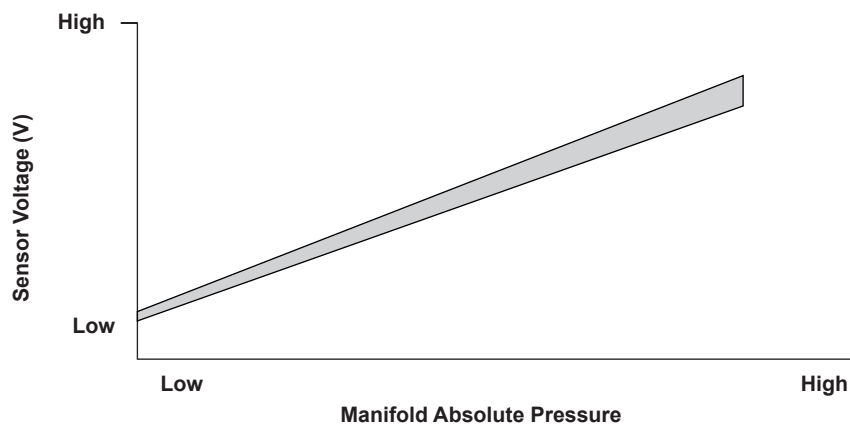
Advanced Diagnostics

DTC P1793: Problem in Manifold Absolute Pressure (MAP) Sensor Circuit



P1793-9601

Manifold Absolute Pressure (MAP) Sensor Output Voltage



P0107-9671

General Description

The manifold absolute pressure (MAP) sensor senses manifold absolute pressure (vacuum) and converts it into electrical signals. The MAP sensor outputs low signal voltage at high-vacuum (throttle valve closed) and high signal voltage at low-vacuum (throttle valve wide open).

The transmission control module (TCM) compares a computed MAP value based on a given throttle position and other information with the output voltage of the MAP sensor. If the input voltage to the TCM is out of a set value, a malfunction is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	10 seconds
DTC Type	One drive cycle, MIL ON, D indicator blinks

Enable Conditions

Condition	
Ignition	ON

Malfunction Threshold

The MAP sensor voltage is 0.2 V or less, or 4.5 V or more, for at least 10 seconds.

Diagnosis Details

Conditions for illuminating the MIL

When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored.

Conditions for clearing the MIL

The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.