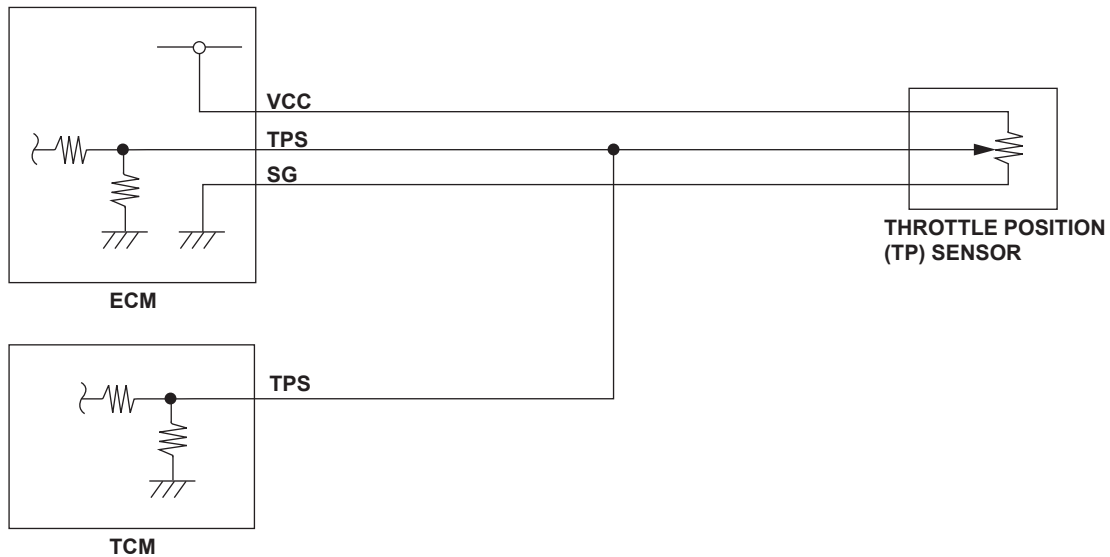


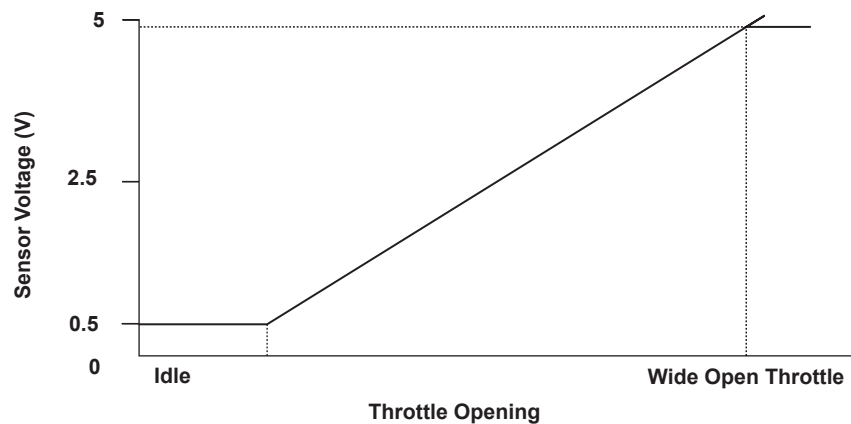
Advanced Diagnostics

DTC P1790: Throttle Position (TP) Sensor Circuit



P1790-9601

Throttle Position (TP) Sensor Output Voltage



P0122-9672

General Description

The throttle position (TP) sensor is installed in the throttle body, and it detects the position of the throttle valve. This sensor includes a brush that moves with the throttle valve. The brush outputs a voltage to the transmission control module (TCM) that varies linearly with the throttle position by sliding on a resistor.

The TCM monitors the throttle position according to the TP sensor output voltage, and detects an open or a short in the harness and a malfunction in the input circuit.

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 switch	ON

Malfunction Threshold

The TP sensor output voltage is 0.09 V or less or 4.93 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.