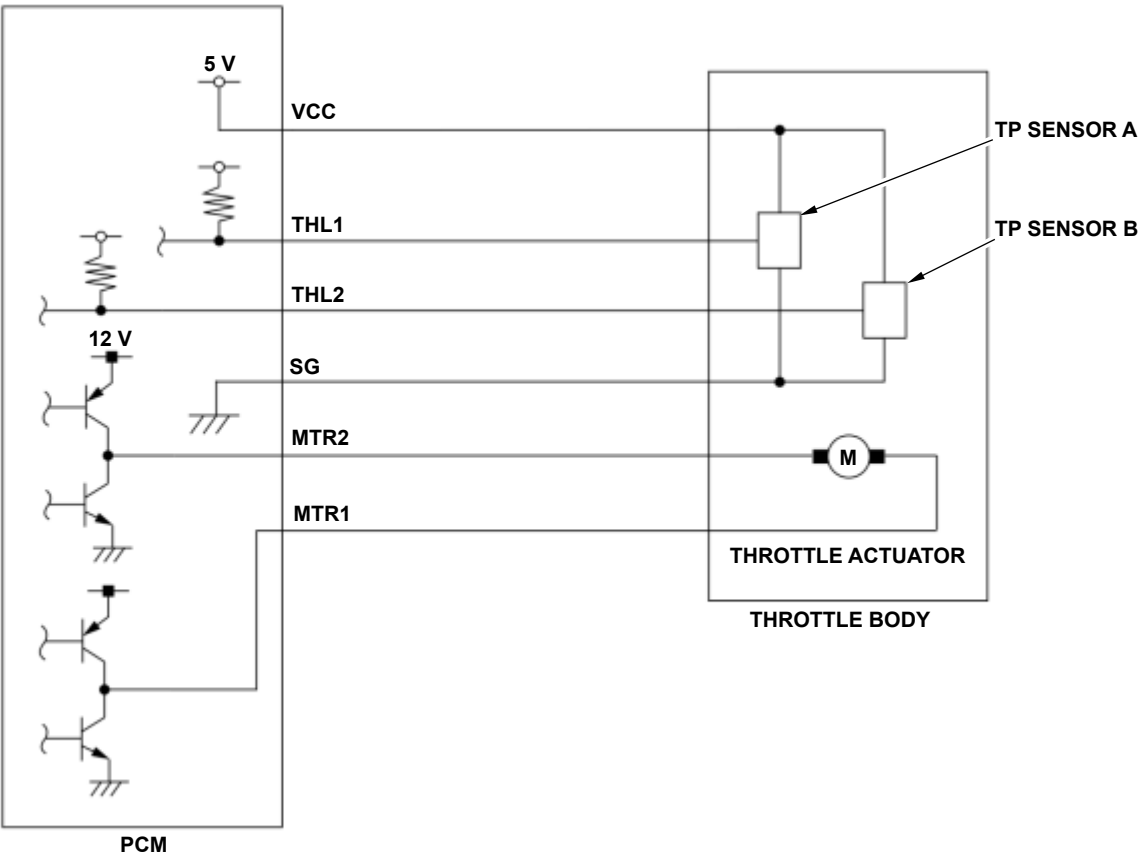


DTC Advanced Diagnostics: P0122, P0123

DTC P0122:Throttle Position (TP) Sensor A Circuit Low Voltage
DTC P0123:Throttle Position (TP) Sensor A Circuit High Voltage

General Description



The electronic throttle control system controls the throttle valve opening. The system includes the throttle actuator, the throttle valve, throttle position (TP) sensors A and B, the PGM-FI subrelay circuit, the accelerator pedal position (APP) sensor, and the powertrain control module (PCM). TP sensor A is a semiconductor type, and it is attached to the throttle body and shaft to determine throttle valve position. The throttle valve position signal from TP sensor A is transmitted to the PCM for target position feedback control. If the signal from TP sensor A is a fixed value for a set time, the PCM detects a TP sensor A malfunction and stores a DTC.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	200 milliseconds or more
DTC Type	One drive cycle, MIL on

Enable Conditions

Condition	
Vehicle	ON mode

Malfunction Threshold

DTC: P0122

The TP sensor A output voltage [TP Sensor A] is 0.3 V or less for at least 200 milliseconds.

DTC: P0123

The TP sensor A output voltage [TP Sensor A] is 4.8 V or more for at least 200 milliseconds.

[]: HDS Parameter

Possible Cause

NOTE: The causes shown may not be a complete list of all potential problems, and it is possible that there may be other causes.

DTC: P0122

- TP sensor A THL1 line short to ground
- TP sensor A VCC line open

DTC: P0123

- TP sensor A THL1 line open
- TP sensor A SG line open

Common

- TP sensor A failure
- PCM internal circuit failure

Diagnosis Details

Conditions for setting the DTC

When a malfunction is detected, the MIL comes on and a Pending DTC, a Confirmed DTC, and the freeze data are stored in the PCM memory.

Conditions for clearing the DTC

The MIL is cleared if the malfunction does not return in three consecutive trips in which the diagnostic runs. The MIL, the Pending DTC, the Confirmed DTC, and the freeze data can be cleared with the scan tool Clear command or by disconnecting the 12 volt battery.