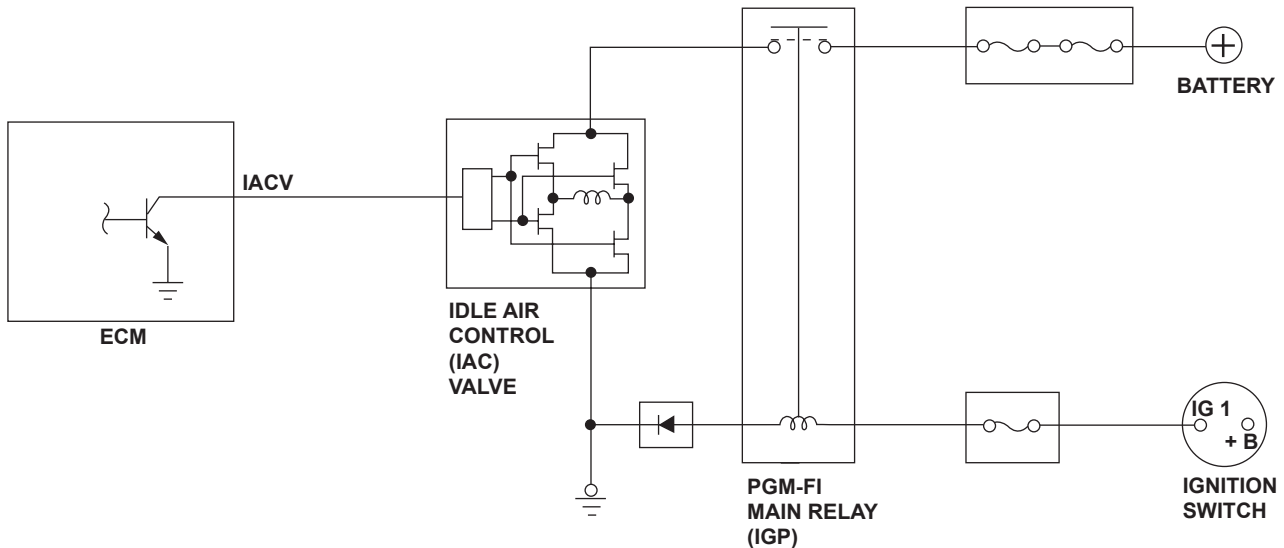


Advanced Diagnostics

DTC P1519: Idle Air Control (IAC) Valve Circuit Failure



P0505-0002

General Description

The target idle speed is in the engine control module (ECM) memory for various engine conditions (coolant temperature, A/C operation, and other functions). The ECM keeps the actual idle speed at the target idle speed by switching the idle air control valve (IACV) ON/OFF to control the intake airflow. In addition, the IACV functions as the first idle valve to control the actual speed according to the engine coolant temperature. If the duty cycle signals are not input to a circuit that checks return signals in the ECM, a malfunction is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	5 seconds or more
DTC Type	One drive cycle, MIL ON

Enable Conditions

Condition	Minimum	Maximum
Battery voltage	10.05 V	—
IACV duty value	5%	95%
State of the engine	Running	
No active DTCs	IACV	

Malfunction Threshold

The return circuit does not return duty signals from the ECM for at least 5 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 in the ECM memory.

Conditions for clearing the MIL

The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs.

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