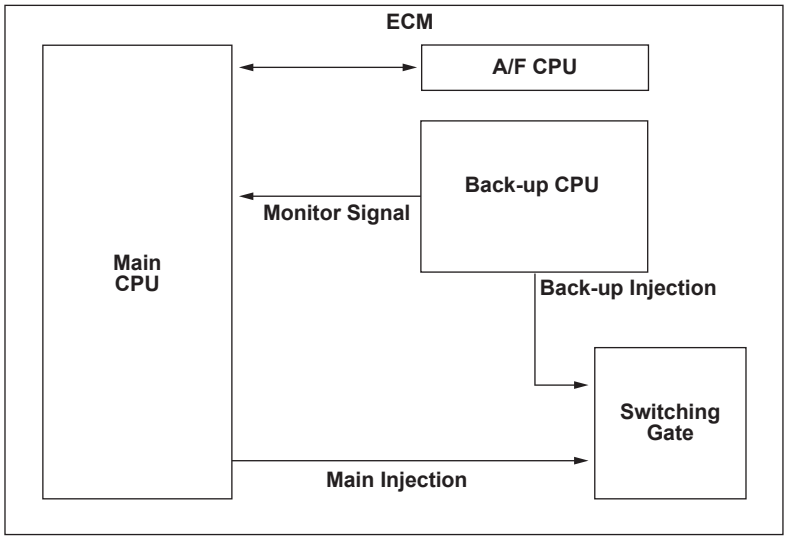
Advanced Diagnostics

DTC P1607: Engine Control Module (ECM) Internal Circuit Malfunction (CVT)



P1607-0176

General Description

If something is wrong in the engine control module (ECM), and there is a loss of monitor signals from the back-up CPU, or the communication signals from the A/F CPU are abnormal for a set time period, or an abnormality in the communication signals occurs a set number of times continuously, 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	
Ignition switch	ON
No active DTCs	ECM

Malfunction Threshold

One of the following conditions must be met.
- No signal from the back-up CPU is detected for at least 5 seconds.
- An abnormality in the A/F CPU lasts for at least 5 seconds.

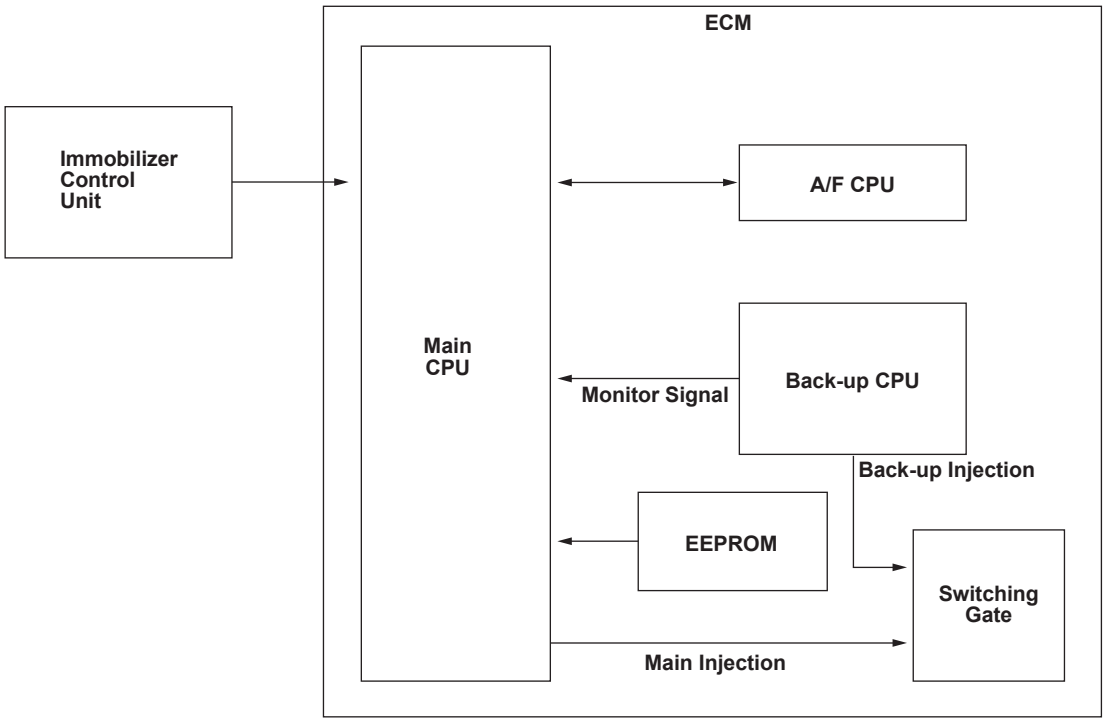
Diagnosis Details

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.

Advanced Diagnostics

DTC P1607: Engine Control Module (ECM) Internal Circuit Malfunction



P1607-0172

General Description

If something is wrong in the engine control module (ECM), and there is a loss of monitor signals from the back-up CPU, or an abnormality in the data that is read from EEPROM is detected a set number of times continuously, or the output from the circuit in the immobilizer is abnormal for at least a set time period, or the communication signals from the A/F CPU are abnormal for at least a set time period, or an abnormality in the communication signals occurs a set number of times continuously, a malfunction is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	5 seconds or more*, *** 24 seconds or less** 2.2 seconds or more****
DTC Type	One drive cycle, MIL ON

* : Back-up CPU failure
** : EEPROM data failure
*** : A/F CPU failure
**** : Immobilizer output signals failure

Enable Conditions

Condition	
Ignition switch	ON
No active DTCs	ECM

Malfunction Threshold

One of these conditions must be met.

- No signal from the back-up CPU is detected for at least 5 seconds.
- Abnormality of the data from EEPROM has been detected 5 times or more within 24 seconds.
- An abnormality in the A/F CPU lasts for at least 5 seconds.
- Output from the circuit in the immobilizer is abnormal for at least 2.2 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.