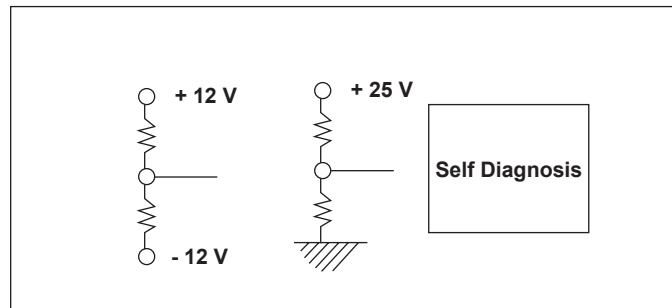


Advanced Diagnostics

DTC P1635 (79): Battery Condition Monitor (BCM) Module Problem

BCM Module



P1635-0071

General Description

The self-diagnostic function in the BCM (battery condition monitor) module checks if the divided voltage of the ± 12 V power-supply resistance and the divided voltage of the 25 V DC-DC converter resistance. If it is beyond a set value, a malfunction in the power-supply voltage to the sensor is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	2 seconds or more
DTC Type	One drive cycle, MIL ON, IMA system indicator ON

Enable Conditions

Condition	Minimum	Maximum
MCM power-supply voltage	7.5 V	—
Ignition switch	ON	
No active DTCs	BCM	

Malfunction Threshold

- The A/D value of the ± 12 V DC/DC is 1.2 V or less, or 3.7 V or more, for at least 2 seconds.
- The A/D value of the 25 V DC/DC is 2.25 V or less, or 2.7 V or more, for at least 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.