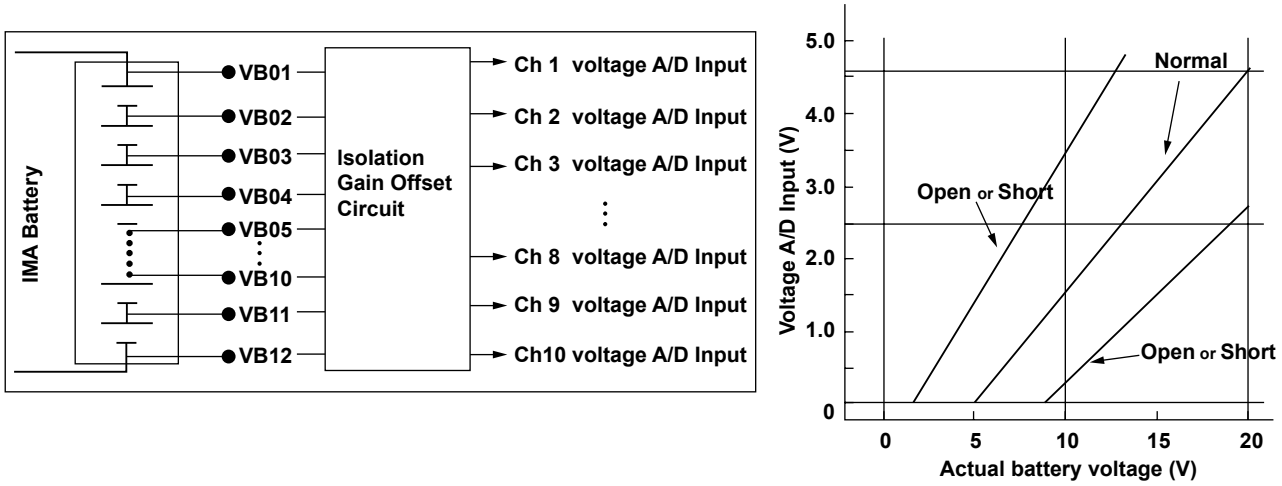
Advanced Diagnostics

DTC P1568 (66): Battery Module Individual Voltage Input Problem



P1568-0071

General Description

The high voltage side resistance of the voltage sensor is divided into two (2 MΩ and 1 MΩ) to measure the voltage that is divided at adjacent channels (individual voltage) when the circuit is open. If the combination of batteries is normal, the voltage hardly varies (about 1 V at the maximum). However, if there is an open in the line shared by adjacent channels, a voltage of four thirds or two thirds is measured, that is, if the individual voltage output from each battery is 12 V, a voltage of 16 V or 8 V is detected. Consequently, judging by the difference between the maximum and minimum voltage, a malfunction is detected and a DTC is stored.
If there are no adjacent channels, the high voltage side is considered to be short to the resistance and the minimum voltage is detected.

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
Detected individual voltage (one or more channels between ch1 - ch10)	15 V	—
BCM module power-supply voltage	7.5 V	—
No active DTCs	BCM	

Malfunction Threshold

The difference between the maximum and minimum voltage is 4 V or more for at least 2 seconds.

Driving pattern

1. Do the BCM module reset procedure. (Disconnect the 12 V battery terminal and reconnect it.)
2. Remove the No.15 EPS (40A) fuse from the under-dash fuse/relay box.
3. Hold the engine at a speed between 3,500 - 4,000 rpm with no load (in neutral) and wait until 14 segments of the indicator on the IMA battery charge gauge are illuminated.
4. Turn the ignition switch OFF.
5. Reinstall the No.15 EPS (40A) fuse.
6. Turn the ignition switch ON.
7. Let it idle 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.