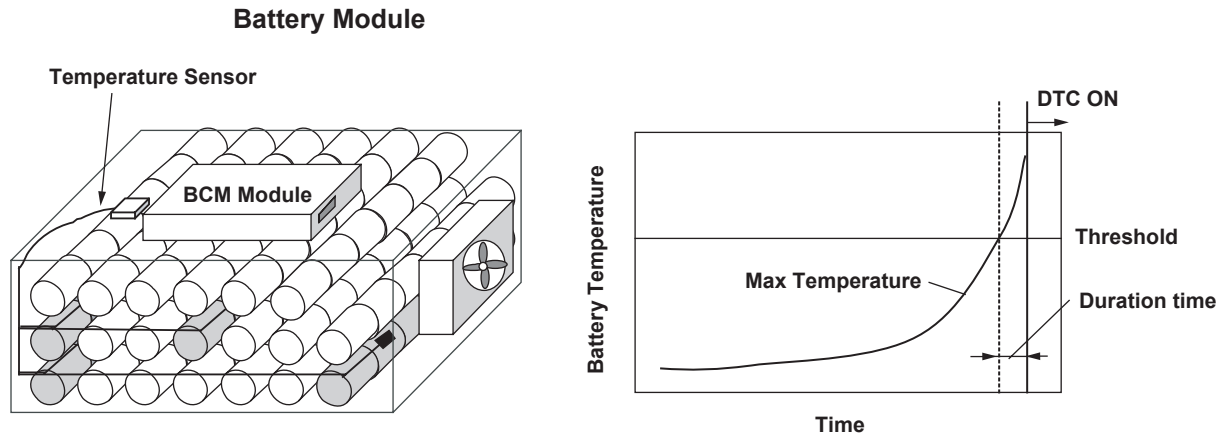


Advanced Diagnostics

DTC P1449 (72): Battery Module Overheating



P1449-0071

General Description

The high voltage battery for the IMA (integrated motor assist) system temperature can increase from exposure to high ambient temperature, overcharging, excessive battery drain, or a battery short. If the battery temperature increases beyond a set value, it is difficult to use the battery continuously due to the thermal deformation of the electrical insulating material or the deterioration of the pole plates.

If the battery temperature is out of a set value for at least a specified time period when driving, a malfunction in the battery 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
BCM module power-supply voltage	7.5 V	—
Ignition switch	ON	
No active DTCs	BCM, BM, IMA	

Malfunction Threshold

The IMA battery module temperature is 176°F (80°C) 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.