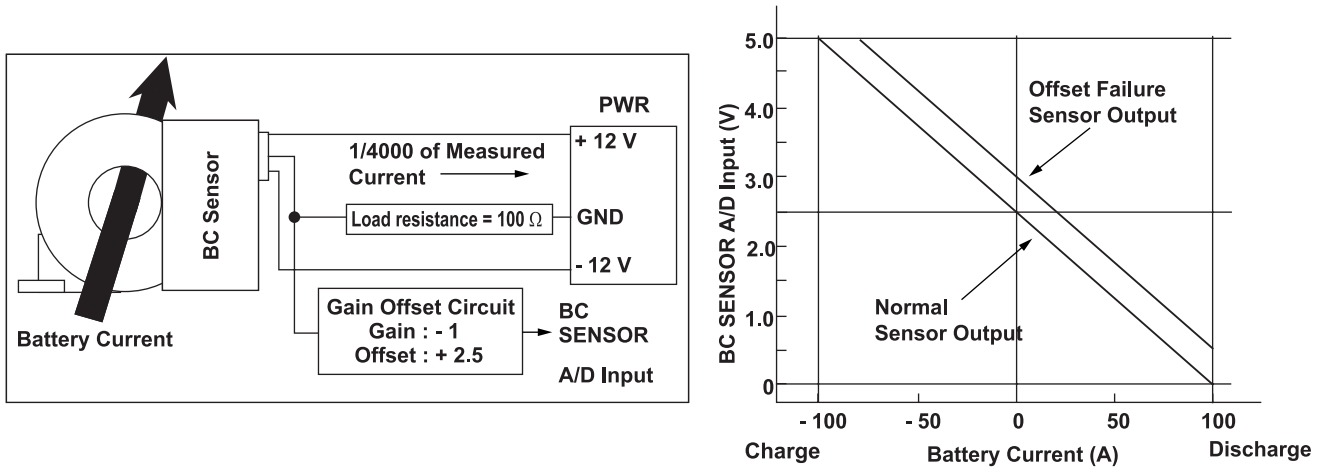


# Advanced Diagnostics

## DTC P1580 (65): Battery Current Circuit Problem



P1580-0071

### General Description

The BCM (battery condition monitor) module samples the BC sensor value several times during a set time period until the power supply is stabilized after activation, and determines the amount of offset by using a moving average technique. The offset is at the midpoint ( $\pm 6.7$  A) between the maximum tolerance ( $\pm 3.4$  A) and the maximum offset error that allows the system to work normally ( $\pm 10.0$  A), and it is used as an offset failure threshold.

If the offset is beyond the threshold, a malfunction is detected and a DTC is stored.

### Monitor Execution, Sequence, Duration, DTC Type

Execution	Once per driving cycle
Sequence	None
Duration	0.5 second or more
DTC Type	One drive cycle, MIL ON, IMA system indicator ON

### Enable Conditions

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

### Malfunction Threshold

The battery current sensor voltage is more than 167.2 mV, or less than -167.2 mV, for at least 0.5 second.

## **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.