



TECH TIPS

Dixie Part Numbers: S-1409

Applications: 2000 – 2001 Saturn SC, SL and SW vehicles

Condition: Some vehicle operators may complain of intermittent cranking without starting or that the engine starts and the fuel gauge and tachometer are not working. The technician may have problems with the scan tool not communicating with the powertrain control module and code U1016 may be stored in the body control module or sensing and diagnostic module.

Cause: A potential cause is poor or intermittent battery cable disconnection that may lead to a powertrain communication failure. Disconnecting and reconnecting the battery may restore communication.

Correction: The vehicle manufacturer recommends the following procedure:

- With the ignition ON, verify the loss of communication with the powertrain control module and that diagnostic code U1016 is stored in the memory of the body control module or sensing and diagnostic module. If the error code is present perform the following steps.
- Using a test light or voltmeter verify that both PCM B and PCM 1 fuses in the under hood fuse box are not blown.
- Disconnect the negative and then the positive battery cables, in that order, and remove the bolts from the terminals. Inspect the terminal for signs of damaged threads, if damaged replace the battery terminal bolt. If the battery terminal threads are damaged and can not be repaired, replace the battery.
- Reinstall the battery cables (positive first). And torque the bolts to 17 Nm (13 ft-lbs) unless otherwise specified by the manufacturer.
- Inspect both the main and rear engine grounds located at the top of the transaxle housing for tight connections.
- Inspect the positive battery cable at the starter solenoid for proper connection.
- With the engine OFF and the ignition ON connect the scan tool and see if communication can be established. If communication can now be established clear all diagnostic codes. If communication can not be established refer to the diagnostic chart for code U1016 in the manufacturer's service manual.