

DTC B3031 Security System Controller In Learn Mode

Diagnostic Instructions

- Perform the Diagnostic System Check – Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

DTC Descriptor

DTC B3031 00: Security System Controller In Learn Mode

Circuit/System Description

When learning a coded key, the theft deterrent module (TDM) is placed in learn mode. DTC B3031 will set automatically as an indicator that the system is in learn mode and not as a fault indicator. Once the coded key is learned, learn mode will be exited and the DTC cleared. If the TDM does not exit learn mode, B3031 will remain current and indicate a fault.

Conditions for Running the DTC

The immobilizer system is the learn coded keys state.

Conditions for Setting the DTC

DTC B3031 will set any time the TDM enters the learn coded keys state.

Action Taken When the DTC Sets

The security indicator will illuminate.

Conditions for Clearing the DTC

- A current DTC B3031 will be cleared upon the successful exit of learn mode.
- A history DTC will be cleared after 100 malfunction-free ignition cycles or

when a scan tool is used to clear DTCs.

Reference Information

Schematic Reference

Immobilizer Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Immobilizer Description and Operation

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

Important: When performing the 10-Minute VehicleKey Relearn Procedure, all keys not learned at that time will be erased and not be recognized.

Perform the Adding Keys procedure on all keys or instruct the customer how to perform the Adding Keys procedure should all keys not be present at the time of repair.

- 1). Verify DTC B3055 is not set. If the DTC is set, refer to DTC B3055.
- 2). Verify the scan tool TDM Learn Coded Key parameter displays Yes.If not the specified value, perform the 10 Minute Vehicle Key Relearn procedure. Refer to Replacing Keys (North America except Canada) or Replacing Keys (Canada).
- 3). Perform the 10 Minute Vehicle Key Relearn procedure. Refer to Replacing Keys (North America except Canada) or Replacing Keys (Canada). The TDM should exit the learn coded key state and DTC B3031 should clear.If the TDM does not exit the learn coded key state after the programming attempt, replace the TDM.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the diagnostic

procedure. Control Module References for TDM replacement, setup and programming

LAUNCH