2012 Buick Regal L4-2.4L
Vehicle > ALL Diagnostic Trouble Codes (DTC) > Testing and Inspection > B Code Charts > B389A

IMMOBILIZER

DTC B389A

Diagnostic Instructions

 * Perform the Diagnostic System Check - Vehicle See: Vehicle > Initial Inspection and Diagnostic Overview > Diagnostic System Check - Vehicle prior to using this diagnostic procedure.

 * Review Strategy Based Diagnosis See: Vehicle > Initial Inspection and Diagnostic Overview > Strategy Based Diagnosis for an overview of the diagnostic approach.

 * Diagnostic Procedure Instructions See: Vehicle > Initial Inspection and Diagnostic Overview > Diagnostic Procedure Instructions provides an overview of each diagnostic category.

DTC Descriptor

DTC B389A 00

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Environment Identification

Circuit/System Description

When certain modules are programmed and configured during installation, the module learns a specific environment identifier which is unique to the vehicle. The environment identifier is used to prevent the swapping modules between vehicles. The body control module (BCM) is the keeper of the environment identifier. The instrument cluster electronic brake control module (EBCM), HVAC control module, inflatable restraint sensing and diagnostic module (SDM), engine control module (ECM), and steering column lock control module, if equipped, each learn the environment identifier during their configuration process. During vehicle operation, each of these modules compare their environment identifier to that of the BCM. If the identifiers match, vehicle starting is allowed. If an environment identifier does not match, vehicle starting is disabled.

Conditions for Running the DTC

Ignition is in the ACCESSORY or RUN position.

Conditions for Setting the DTC

An incorrect environment identifier is stored by the BCM.

Action Taken When the DTC Sets

 * The security indicator in the instrument cluster will illuminate.

  * Vehicle starting will be disabled.

Conditions for Clearing the DTC

A current DTC will be cleared when the BCM learns a correct environment identifier.

Diagnostic Aids

If BCM programming is not completed after BCM replacement, the environment identifier will not be learned. If DTC B389A sets immediately after the replacement and programming of a BCM, perform the programming procedure again.

Reference Information

Schematic Reference

Immobilizer Schematics See: Antitheft and Alarm Systems > Electrical > Immobilizer Schematics

Connector End View Reference

Component Connector End Views See: Vehicle > Connector Views > Connector End Views By Name

Description and Operation

Immobilizer Description and Operation See: Antitheft and Alarm Systems > Components > Immobilizer

Electrical Information Reference

  * Circuit Testing See: Vehicle > Component Tests and General Diagnostics > Circuit Testing

  * Connector Repairs See: Vehicle > Component Tests and General Diagnostics > Connector Repairs

  * Testing for Intermittent Conditions and Poor Connections See: Vehicle > Component Tests and General Diagnostics > Testing for Intermittent Conditions and Poor Connections

  * Wiring Repairs See: Vehicle > Component Tests and General Diagnostics > Wiring Repairs

Scan Tool Reference

Control Module References See: Vehicle > Programming and Relearning for scan tool information

Circuit/System Verification

  1. Verify DTC B389A did not set immediately following the replacement and programming of a BCM.

   ♦ **If the DTC set immediately after the replacement and programming of a BCM**

The immobilizer learn procedure was not properly completed. Perform the BCM immobilizer learn using the Body

Control Module IMMO Function with Existing Transponder or Remote Key in SPS. Refer to Immobilizer System Component Programming (without BTM) See: Antitheft and Alarm Systems > Programming and Relearning > Immobilizer System Component Programming (without BTM)Immobilizer System Component Programming (with BTM) See: Antitheft and Alarm Systems > Programming and Relearning > Immobilizer System Component Programming (with BTM).

- ♦ **If the DTC did not set immediately after the replacement and programming of a BCM**

2. Verify DTC B3902 is not set in any of the control modules listed below:

* ECM

* SDM

* EBCM

* HVAC control module

* Instrument cluster

* Steering column lock control module, if equipped

- ♦ **If DTC B3902 is set in any of the modules**

Refer to DTC B3902 See: A L L Diagnostic Trouble Codes (DTC) > B Code Charts > Immobilizer.

- ♦ **If DTC B3902 is not set in any of the modules**

3. Perform the BCM immobilizer learn using Body Control Module IMMO Function with Existing Transponder or Remote Key in SPS. Refer to Immobilizer System Component Programming (without BTM) See: Antitheft and Alarm Systems > Programming and Relearning > Immobilizer System Component Programming (without BTM)Immobilizer System Component Programming (with BTM) See: Antitheft and Alarm Systems > Programming and Relearning > Immobilizer System Component Programming (with BTM).

4. Verify DTC B389A does not set after programming.

- ♦ **If the DTC sets after programming**

Replace the K9 body control module.

- ♦ **If the DTC does not set after programming**

5. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification See: A L L Diagnostic Trouble Codes (DTC) > Verification Tests > Diagnostic Repair Verification after completing the repair.

Control Module References See: Vehicle > Programming and Relearning for BCM replacement, programming, and setup