

2022 CHEVROLET CORVETTE SERVICE MANUAL

- **SEARCH**

1. **Diagnostic Overview, Starting Point, and Programming**

2. **Programming and Setup**

3. **Repair Instructions**

- 4.

K36 Restraints Control Module: Programming and Setup

Diagnostic Instructions

- Perform the Diagnostic System Check prior to using this diagnostic procedure: Diagnostic System Check - Vehicle
- Review the description of Strategy Based Diagnosis: Strategy Based Diagnosis

Note :

- Do NOT program a control module unless directed to by a service procedure or a service bulletin. If the control module is not properly configured with the correct calibration software, the control module will not control all of the vehicle features properly.
- Verify the programming tool is equipped with the latest software and is securely connected to the data link connector. If there is an interruption during programming, programming failure or control module damage may occur.
- Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. When required, install a battery maintainer or power supply that provides a steady and stable voltage. Do not use a battery charger, as charging voltage will often fluctuate when connected to the vehicle. This may interrupt programming. If a battery maintainer is not available, connect a fully charged 12 V jumper or booster pack disconnected from the AC voltage supply.
- Turn Off or disable systems that may put a load on the vehicle's battery. For example, interior lights, daytime running lights, HVAC, and radio.
- During the programming procedure, follow the Service Programming System (SPS) prompts for the correct ignition switch position.
- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/Maintenance (I/M) system status indicators to No.

Programming an Existing or New Control Module

To program an existing or new control module, perform the following procedure:

1. Place the vehicle on level ground (the vehicle must be level or the IMU setup may fail)
2. Ignition OFF
3. Access SPS and follow the on-screen instructions for the control module: K36 Restraints Control Module
4. Perform the SPS function: Programming
5. Perform the SPS function: Setup

Unsuccessful Programming Recovery

Note :

GMNA Regions: When SPS failure message E4489 occurs during programming or calibration, do NOT call TCSC immediately. Record at which point the failure occurred before it displayed the E4489 message. When this occurs, proceed to GDS2. Download the appropriate vehicle configuration and select the Restraints Control Module. Under Identification Information, look at parameters: Software Module 1 Identifier and Software Module 2 Identifier. If either of these are populated with a value of 1 or more, replace the Restraints Control Module. Record these parameter values on the back of the job card.

Non GMNA Regions: When SPS displays a message indicating that programming may fail and the programming event fails at 0%, replace the Restraints Control Module. Verify no other DTCs or issues exist with the module prior to replacement. Record all DTCs and relevant information on the back of the job card.

If programming a control module is not successful, perform the following procedure:

1. Verify the control module, data link connector and programming tool connections are secure and the tool software is up to date.
2. Ignition >> On / Vehicle >> In Service Mode
3. Perform the SPS function: Programming and Setup
4. Verify the control module programming is successful.
5.
 - **If the programming is not successful**
6.
 1. Ignition/Vehicle >> Off- For greater than 1> min
 2. Ignition >> On / Vehicle >> In Service Mode
 3. Perform the SPS function: Programming and Setup
 4.
 - If the programming is not successful >> Replace the component: K36 Restraints Control Module
 5.
 - If the programming is successful
 6. All OK.
7.
 - **If the programming is successful**
8. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair: Diagnostic Repair Verification

For control module replacement, programming, and setup refer to: Control Module References