

2022 CHEVROLET CORVETTE SERVICE MANUAL

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K56 Serial Data Gateway Module: Programming and Setup

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 vehicles battery such as; interior lights, exterior lights (including daytime running lights), HVAC, radio, etc.
- Programming must begin with the Ignition/Vehicle OFF. Programming will direct the appropriate control module(s) to change power mode as needed during the procedure, independent of the vehicle's power mode.
- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/Maintenance (I/M) system status indicators to NO.
- To prevent programming failure due to unintended wireless drops, it is recommended that a wired MDI connection be used when programming the control module.

Reference Information

Special Tools

EL-52100 Multiple Diagnostic Interface 2 (MDI 2)

Replace and Program Control Module

To program a replacement K56 Serial Data Gateway Module, perform the following procedure:

1. Note:

Verify all modules are connected and communicating before attempting to program the K56 Serial Data Gateway Module.

2. Ignition/Vehicle OFF.

3. Access the Service Programming System (SPS) and follow the on-screen instructions.

4. On the SPS Supported Controllers screen, select K56 Serial Data Gateway Module - Programming and follow the on-screen instructions.

5. On the SPS Supported Controllers screen, select K56 Serial Data Gateway Module - Setup and follow the on-screen instructions.

6. Note:

If an error message indicates that a module is missing after the learn procedure is complete, diagnose that module to make sure that it's connected and communicating and then perform the Programming and Learn procedures again.

7. Clear DTCs.

Reprogram Control Module

To program an existing K56 Serial Data Gateway Module, perform the following procedure:

1. Note:

Verify all modules are connected and communicating before attempting to program the K56 Serial Data Gateway Module.

2. Ignition/Vehicle OFF.
3. Access the Service Programming System (SPS) and follow the on-screen instructions.
4. On the SPS Supported Controllers screen, select K56 Serial Data Gateway Module - Programming and follow the on-screen instructions.
5. Clear DTCs.

Unsuccessful Programming Recovery

Note:

Ensure the *EL-52100* is used when programming the vehicle.

In the event of an interrupted or unsuccessful programming event, perform the following steps:

1. Verify the K56 Serial Data Gateway Module, X84 Data Link Connector, and programming tool connections are secure and the SPS software is up to date.
2. Ignition/Vehicle OFF.
3. Access SPS and follow the on-screen instructions for the K56 Serial Data Gateway Module.
4. Verify the K56 Serial Data Gateway Module can be reprogrammed.
5.
 - **If the K56 Serial Data Gateway Module cannot be reprogrammed**
6.
 1. Ignition/Vehicle OFF for greater than 1 min.
 2. Access SPS and follow the on-screen instructions for the K56 Serial Data Gateway Module.
 3. Verify the K56 Serial Data Gateway Module can be reprogrammed.
 4.
 - If the K56 Serial Data Gateway Module cannot be reprogrammed, replace the K56 Serial Data Gateway Module.
 5.
 - If the K56 Serial Data Gateway Module can be reprogrammed.
 6. All OK.
7.
 - **If the K56 Serial Data Gateway Module can be reprogrammed**
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.