



Bulletin No.: PIT5832N
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Preliminary Information

PIT5832N Diagnostic Tip: Unable to complete the Serial Data Authentication Configuration/ No Start Or Unable To Perform Theft Relearn After Replacing Or Programming A Module / DTC U1962

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	Envision	2021 - 2023	All	All	All	All
BrighDrop	Zevo 400	2023	All	All	All	All
Brightdrop	EV600	2022 - 2024	All	All	All	All
Cadillac	CT4	2020 - 2024	All	All	All	All
Cadillac	CT5	2020 - 2024	All	All	All	All
Cadillac	Escalade Models	2021 - 2024	All	All	All	All
Cadillac	LYRIQ	2023 - 2024	All	All	All	All
Cadillac	XT4	2024	All	All	All	All
Chevrolet	Blazer EV	2024	All	All	All	All
Chevrolet	Colorado	2023	All	All	All	All
Chevrolet	Corvette	2020 - 2024	All	All	All	All
Chevrolet	Silverado 1500 New (RPO J22, VIN Digit 12 = A or D)	2022	All	All	All	All
Chevrolet	Silverado 1500	2023 - 2024	All	All	All	All
Chevrolet	Silverado EV Models	2024	All	All	All	All
Chevrolet	Silverado 2500HD/3500HD	2024	All	All	All	All
Chevrolet	Suburban	2021 - 2024	All	All	All	All
Chevrolet	Tahoe	2021 - 2024	All	All	All	All
GMC	Canyon	2023	All	All	All	All
GMC	HUMMER EV	2022 - 2024	All	All	All	All
GMC	HUMMER EV SUV	2024	All	All	All	All
GMC	Sierra 1500 New (RPO J22, VIN Digit 12 = A or D)	2022	All	All	All	All
GMC	Sierra 1500	2023 - 2024	All	All	All	All
GMC	Sierra 2500HD/3500HD	2024	All	All	All	All
GMC	Yukon Models	2021 - 2024	All	All	All	All

Involved Region or Country	North America, Europe, Kazakhstan, Uzbekistan, Russia, Middle East, Israel, Palestine, Argentina, Brazil, Bolivia, Chile, Columbia, Ecuador, Paraguay, Peru, Uruguay, Japan, S. Korea, Thailand, Australia/New Zealand, Other Africa
Condition	<p>Some technicians may experience one or more of the following concerns after replacing or reprogramming a module on one of the new Vehicle Intelligence Platforms. or VIP Vehicles.</p> <ol style="list-style-type: none">1. Unable to complete the Serial Data Authentication Configuration.2. DTC: U1962 set current in ANY Module.

	<ol style="list-style-type: none"> 3. No Start. 4. Invalid Data codes with certain modules even though you can still review the data with GDS2. 5. Unable to perform a theft relearn or learn remotes back to the vehicle. 6. Unable to perform Module setup or learn. 7. Airbag Indicator may illuminate. 8. You may also notice that the VIN number will not self-populate in GDS2.
Cause	<p>The Serial Data Authentication Configuration procedure runs automatically as part of the programming procedure.</p> <p>The Serial Data Authentication Configuration is a security handshake between all the modules on the vehicle. One of the main indicators the Serial Data Authentication Configuration did not complete properly is DTC: U1962 is current in one or more modules.</p> <p>See Example below:</p>

Control Module	Type	DTC	Symptom Byte	Description
Engine Control Module		U2A91	00	Odometer Vehicle Identification Number
Transmission Control Module	○	U0100	00	Lost Communication with Engine Control Module
Transmission Control Module	○	U1962	00	Unable to Authenticate Serial Data Message
Power Steering Control Module		U0401	00	Invalid Data Received From Engine Control Module
Electronic Suspension Control Module		U0401	00	Invalid Data Received From Engine Control Module
Electronic Suspension Control Module	○	U1962	00	Unable to Authenticate Serial Data Message
Body Control Module	○	U1611	00	Lost Communication with Engine Control Module on CAN Bus 2
Lighting Control Module		U0401	00	Invalid Data Received From Engine Control Module
Serial Data Gateway Module		U0401	00	Invalid Data Received From Engine Control Module
Restraints Control Module		U0401	00	Invalid Data Received From Engine Control Module
Instrument Panel Cluster Control Module		U0401	00	Invalid Data Received From Engine Control Module
Instrument Panel Cluster Control Module	○	U1962	00	Unable to Authenticate Serial Data Message
Image Processing Module		U0401	00	Invalid Data Received From Engine Control Module
Telematics Control Module		U1962	00	Unable to Authenticate Serial Data Message
Rear Gate Module		U0401	00	Invalid Data Received From Engine Control Module
Rear Gate Module	○	U1962	00	Unable to Authenticate Serial Data Message
Frontview Camera - Windshield		U0401	00	Invalid Data Received From Engine Control Module
Steering Column Lock Control Module	○	U1962	00	Unable to Authenticate Serial Data Message
Restraints Occupant Classification Module		U1962	00	Unable to Authenticate Serial Data Message
Restraints Occupant Classification Module	○	U0401	00	Invalid Data Received From Engine Control Module

Correction:

The dealer will need to perform the Serial Data Authentication Configuration (SDAC) following Instructions in SI using Document ID: 5404959. Be sure the vehicle is in the Off Power Mode position before running the Serial Data Authentication Configuration procedure.

For EV vehicles that have Hands free start, you may not be able to shut off the vehicle using the off soft button of the virtual cockpit smart control of the radio. If you experience this concern, you will have to access SPS programming in Techline Connect and select BCM and select "control function/ power mode off". See screen shot below.

Note: After you use this function, you may notice that the SDAC box may be missing from the bottom of the controller list, if you experience this, you will need to back out to the VIN screen and then go back to the controller screen for it to appear again.

Select Controller

Code	
Z4	Vehicle wide Capture of Module Identification Data
K16	Battery Energy Control Module
K9	Body Control Module
K160	Brake System Control Module
K107	Drive Motor Control Module
B233B	Forward Range Radar Sensor - Long Range
B174W	Front View Camera - Windshield
Z1	Immobilizer Learn
K36	Inflatable Restraint Sensing and Diagnostic Module
K219	Lighting Control Module
K182	Parking Assist Control Module
K43	Power Steering Control Module
K241	Powertrain Compartment Cover Module
...	...

Select Function/Sequence

Programming
Setup
Immobilizer Only - Keypad Learn
Control Function (Power Mode Off)

If a vehicle will not complete the Serial Data Authentication Configuration (SDAC) after updating or replacing a module, please perform the following:

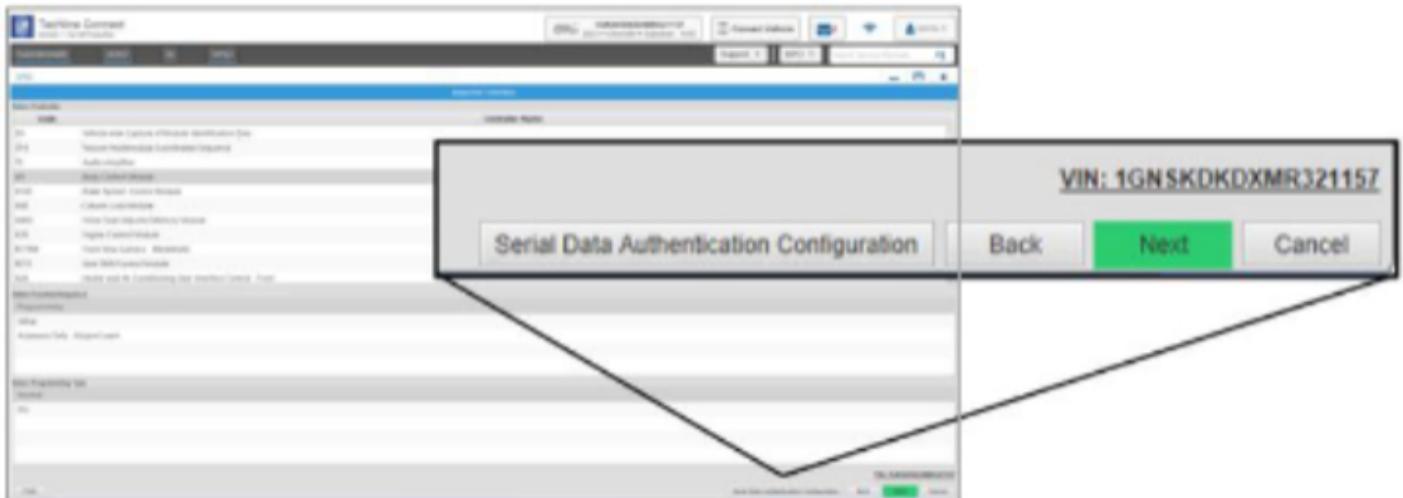
1. If a module was replaced, make sure the new module was SPS programmed correctly or the SDAC will fail and not complete correctly.
2. If a module such as the BCM is replaced, and the immobilizer learn needs to be completed after replacement, the tech needs to make sure that the SDAC completes correctly, or a pop-up message like the one below will be displayed:

Device Programming System (SPS) - Special Function

IMMO - Immobilizer Learn

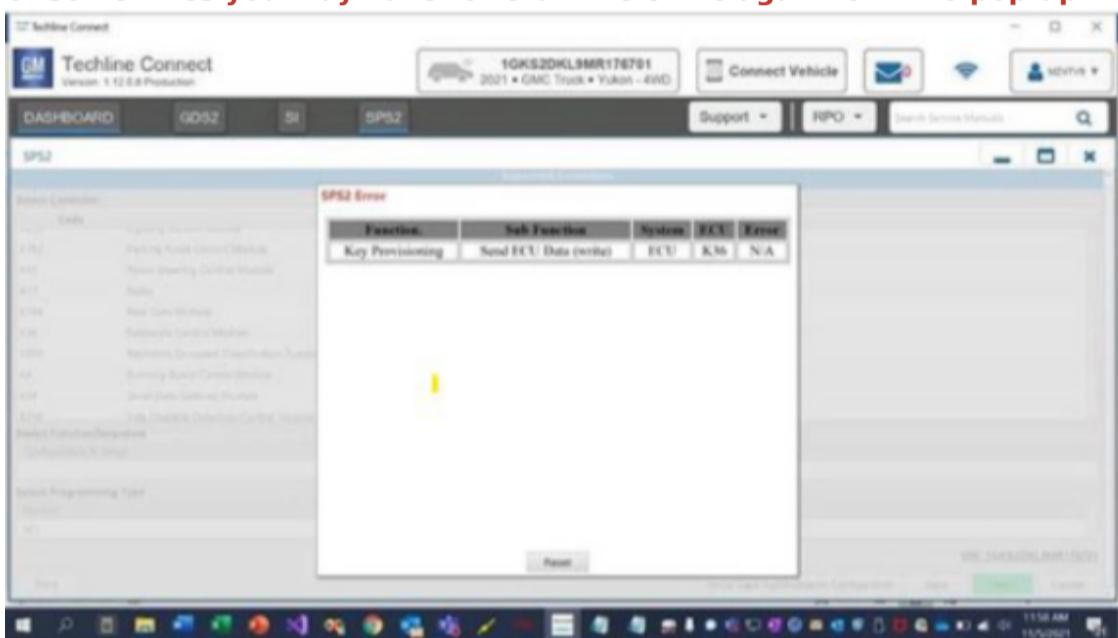
VTD Secure Access Locked

3. If a vehicle will not complete the SDAC, run the SDAC (using the Serial Data Authentication selection in Techline Connect) again. Verify the key fob is inside the vehicle. If the key fob is not inside the vehicle, the serial data authentication configuration procedure which runs automatically at the end of the programming step will fail even though the programming appears to run successfully. If the serial data authentication configuration procedure fails, DTC U1962 will set and/or the setup step will fail or be incomplete. Select the box in SPS controller list in the lower right-hand corner labeled "Serial Data Authentication Configuration".



4. The SDAC will run up to 3 times before it fails. When it fails, there should be a pop box that shows up on the screen like the one below. Check and record the items listed under System and ECU. If the system box reads "Server" then the issue is related to the SPS system server or internet connection and not related to the vehicle. Attempt the SDAC again at a later time or the next day early in the morning. (If the box doesn't read "Server" continue to step 5).

NOTE: Be patient because it can take a few moments for it to actual pop-up box to appear or sometimes you may have to rerun the SDAC again for it. to pop-up



5. If the system box reads "ECU", then the Global ID of the module that is causing the concern should be able to be obtained. In the example above, the Global ID is listed as K36, which is for the SDM. The module's name can be found by looking at the global codes listed under "Control Module References" document in SI for the vehicle that is being working on

6. Sometimes the pop-up box will read "ECU" but it will not give you a Module ID in the ECU box. In this case, the servicing dealer will have to contact Techline support and they will have to assist by getting a SPS log file from the dealership's system. If this is the case, they must be contacted right after the SDAC failure. If any other programming is attempted before contacting Techline, then the SPS log will be erased.

5.

SPS2 Error					
Function.	Sub Function	System	ECU	Error	
Key Provisioning	Request ECU Data (read)	ECU	N/A	N/A	

7. Once the module that caused the concern has been identified, attempt to SPS program the module if a update is available and then attempt to run the SDAC again.

8. If the vehicle is repaired, you may release to the customer. If the SDAC still fails, Continue to step 9.

9. Pull the fuse that supplies battery power to that module. Sometimes the fuse is a three-prong fuse that feeds other modules. In this case, the servicing technician will need to find a two-prong fuse to power the other module that was not involved in the SDAC failure.

10. If the SDAC completes after removing battery power from the module in question, that module will need to be replaced.

11. Replace the effected module before releasing the vehicle to the customer and verify that the SDAC completes after SPS programming of the new module.

12. If you keep running the SDAC and each time it fails it keeps showing a different module as the cause, this may be caused by the vehicle not going to sleep. Let the vehicle sit for 30 minutes and make sure the key fobs are at least 10 feet away from the vehicle and perform the SDAC again.

Additional SI Keywords

U1960 U1961 U3034 U3035

Version History

Version	14
Modified	<p>04/06/2021 - Created on.</p> <p>01/26/2022 - Update to add models and model years and to add to diagnosis.</p> <p>08/29/2022- Update to add Truck models with VIP communications.</p> <p>09/29/2022- Update PI to fix model descriptions for Pick up models.</p> <p>11/18/2022- Update PI to make changes to steps 4 and add steps.</p> <p>01/31/2023- Update to change title to make PI easier to find and add 2023 truck models.</p> <p>02/16/2023- Update to add 2023 Cadillac LYRIQ.</p> <p>03/06/2023- Update to add Brightdrop EV600 Model.</p> <p>05/11/2023- Update to add Hummer SUV and Canyon/Colorado models.</p> <p>08/30/2023- Update to add 2024 models years and add Blazer EV and 2024 Silverado and Sierra HD models.</p> <p>11/14/2023- Update to add models and model years and also add export countries per Brand Quality.</p> <p>03/11/2023-Add additional steps to the correction field to address new concerns seen in the field.</p> <p>05/10/2024 to add Silverado EV and add steps to correction field for hands free start</p> <p>05/17/2024 to add Bright drop vehicles</p>



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