TECHNICAL

Subject: Radio Software Version V158 Update

This bulletin replaces PIT5829. Please discard PIT5829.

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Encore GX	2021	2022	—	—	—	—
	Envision						
Cadillac	CT4 (excluding China)	2021	2022				
	CT5 (excluding China)						
	XT4						
	XT5						
	XT6						
Chevrolet	Blazer	2021	2022				
	Bolt EV	2022	2022				
	Camaro						
	Corvette						
	Equinox						
	Malibu	2021	2021				
	Silverado 1500						
	SIlverado 2500HD/3500HD						
	Suburban						
	Tahoe						
	Trailblazer		2022				
GMC	Acadia	2021	2022				
	Sierra 1500		2021				
	Sierra 2500HD/3500HD						
	Terrain	2022	2022				
	Yukon	2021	2021				
	Yukon XL						

Involved Region or Country	North America, Chile, Colombia, Ecuador, Peru, Paraguay, Uruguay, Europe, Middle East, Israel, Palestine, Russia, Japan, Cadillac Korea (South Korea), GM Korea Company, China, Thailand, Australia/New Zealand
Additional Options (RPOs)	Equipped with Infotainment Systems IOS, IOU or IOT
Condition	Some customers may comment on software related issues. Continuous improvement software updates are being released with improvements made in several areas. V158 contains over 40 improvements. Refer to V158 Most Notable Improvements section below.
Cause	The cause of the condition may be software anomalies.
Correction	A new radio software update, version V158, was released to service for vehicles equipped with Infotainment system RPO IOS, IOU or IOT. In addition to providing general robustness and stability enhancements, this update includes all enhancements from previous software version releases. This update can occur remotely through in-vehicle prompts from the radio display. However, some customers may decline the vehicle update, or the update may be unsuccessful. Along with the vehicles mentioned above, vehicles in unconnected markets, and fleet customers may need the dealer to reprogram the radio with the new software package.

Important: Some technicians are reporting that the radio remains on an older software version after the radio displays the software update completed successfully. It is important to ensure that the technician is inspecting the full information found within Build Number and not other rows of information on the same screen. This requires the user to locate the Build Number, and then select the Information icon (circled lower-case i) to see the full software version file name. In these radios, the build number may begin with a letter other than "V" but this is NOT the software version and is not unique to the software release.

Important: After pressing the information icon, review the full software version file name. In the middle of this long file name you see the V158 (or numerically higher if newer versions were released and installed).

Important: Improvements will vary by model, build configuration, system, and sales region. Not all vehicles have all features.

V158 Most Notable Improvements

Most notable improvements contained in this release may include:

Bluetooth
- A blank or black screen may occur when making a slight adjustment to volume knob

Camera
- Automatic Park Assist (APA) may not switch to the 360-degree camera view at times
- APA may not launch.

Note: It is normal, design-intent behavior for APA to not launch while 360-degree view is active. This fix will not change that.

Energy
- Improves graph format in Energy app
- After pressing the Stop Charging and Unlock button the screen may not display a message that charging has stopped and that vehicle can be unplugged
- Charge completion time may display in an incorrect color

- If a user attempts to select Charging Options while the vehicle is being driven, it does not display feature unavailable while driving
- After setting "Stop Energy At:" the Rate Schedule Type may not change

HMI
- Non-responsive touch condition that self-recovers after 3 minutes may occur after installing any app
- While downloading an app the characters in notification that indicate time remaining may be incomplete, the lower portion is missing
- While using wireless charging and after ending a phone call CarPlay will show the phone is still charging but the Home screen charging status may not match
- Bluetooth phone signal and battery icons may appear and disappear intermittently when Performance Data Recorder (PDR) is active

IPC Interface
- A portion of the Press Handset overlay message may be missing in the IPC
- After merging two phone calls, the IPC may display a blank overlay box

Navigation
- When Head Up Display (HUD) transitions from Next Maneuver overlay to Lane Assist the display may flicker
- After changing Location Services from Off to On, the Traffic Flow feature may not become active
- The navigation interface may change to 2D and be inconsistent with Porch view display after sliding on the Destination card
- A speed camera icon may intermittently disappear and reappear on the map
- Improve navigation map data SD card VIN binding process
- Improve, but not yet eliminate, an SD card removed message that may occur only on startup when using a customer's User Profile
- The Speed Bump Alert may disappear at the beginning of route guidance on certain destinations

- Voice Recognition button may appear in regions that are not supporting the voice recognition feature
- Charging station POIs may be displayed on the opposite side of a roadway
- SD Card error message displayed with 0x8 error code
- Predictive navigation estimated time of arrival (ETA) appears on radio, but may display dashes on instrument cluster
- Navigation route may not start from Main screen if user selected "xx minutes to Home" by steering wheel controls in the clusters Navigation Menu screen
- Alerts for Charge Vehicle Soon and Charge Vehicle Now may not appear in the radios Navigation app while the vehicle is being driven but do appear in the cluster, and Charge Vehicle Now does appear in radio if vehicle is stopped
- (Non-GMNA) When GPS signal is blocked (example: parking structure) the dead reckoning may not go active causing vehicle to have to reacquire GPS location once leaving the structure or area that blocked GPS signals

Settings

- Door Lock/Unlock customization settings for All Doors or Driver Door Only may not be retained
- The Collision/Detection Systems customization settings may be missing some options after changing languages
- If in the Settings app when ignition is cycled off then on, the Settings page may be blank
- While scrolling in the Climate and Air Quality interface settings the display may flash

System

- After using the Infotainment Control Switch in the center console to change the station in the Tune screen, any input into the radio may change the station again. Example: Pressing the Radio button on the control switch to return to the Audio page or shifting to Reverse to pull up the rearview camera could cause the station to change again
- When attempting to adjust Lumbar position a message that "Massage Seats Unavailable" may appear for one to two minutes after startup. The memory seat function will still recall Lumbar settings
- At startup, the display may freeze on the myBrand splash animation screen. A radio sleep cycle recovers this condition
- Improve ethernet DTC diagnostic algorithms for U1008, U18B4, and U0078

Trailering

- When launching Trailer app, some trailer profiles may cause the display to go blank then return to Home screen

Translations (Non-GMNA)

- Chinese language translation errors for utility rate schedule type and engine sound
- Japanese language translation was incomplete

- Korean language translation error for target charge completed
- Russian language translation was incomplete or contained unnecessary marks in Settings

Service Procedure

Important: Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous goods. In the event of a conflict between the procedures set forth in this bulletin and the laws that apply to your dealership, you must follow those applicable laws.

Caution: Before downloading the update files, be sure the computer is connected to the internet through a network cable (hardwired). DO NOT DOWNLOAD or install the files wirelessly. If there is an interruption during programming, programming failure or control module damage may occur.

- Ensure 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. Install a GM Authorized Programming Support Tool to maintain system voltage. Refer to www.gmdesolutions.com for further information. If not available, connect a fully charged 12V jumper or booster pack disconnected from the AC voltage supply. DO NOT connect a battery charger.
- Follow the on-screen prompts regarding ignition power mode, but ensure that anything that drains excessive power (exterior lights, HVAC blower motor, etc) is off.
- Please verify that the radio time and date are set correctly before inserting USB drive into vehicle for programming, **otherwise an error will result.**
- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/Maintenance (I/M) system status indicators to NO.

Important: The service technician always needs to verify that the VIN displayed in the TLC left side drop down menu and the top center window match the VIN plate of the vehicle to be programmed prior to using Service Programming System 2 (SPS2) for programming or reprogramming a module.

- For the TLC application, service technicians need to always ensure that the power mode (ignition) is "ON" before reading the VIN from the vehicle's VIN master module and that they do not select a VIN that is already in the TLC application memory from a previous vehicle.
- If the VIN that shows up in the TLC top center window after correctly reading the VIN from the vehicle does not match the VIN plate of the vehicle, manually type in the VIN characters from

the vehicle VIN plate into the TLC top center window and use these for programming or reprogramming the subject module with the correct vehicle VIN and software and/or calibrations.

- The Engine Control Module (ECM) is the master module (for VIP vehicles) that TLC reads to determine the VIN of the vehicle. If the VIN read from the vehicle by TLC does not match the VIN plate of the vehicle, the ECM also needs to be reprogrammed with the correct VIN, software and calibrations that match the vehicle's VIN plate.

- The Body Control Module (BCM) is the master module (for GEM vehicles) that TLC reads to determine the VIN of the vehicle. If the VIN read from the vehicle by TLC does not match the VIN plate of the vehicle, the BCM also needs to be reprogrammed with the correct VIN, software and calibrations that match the vehicle's VIN plate.
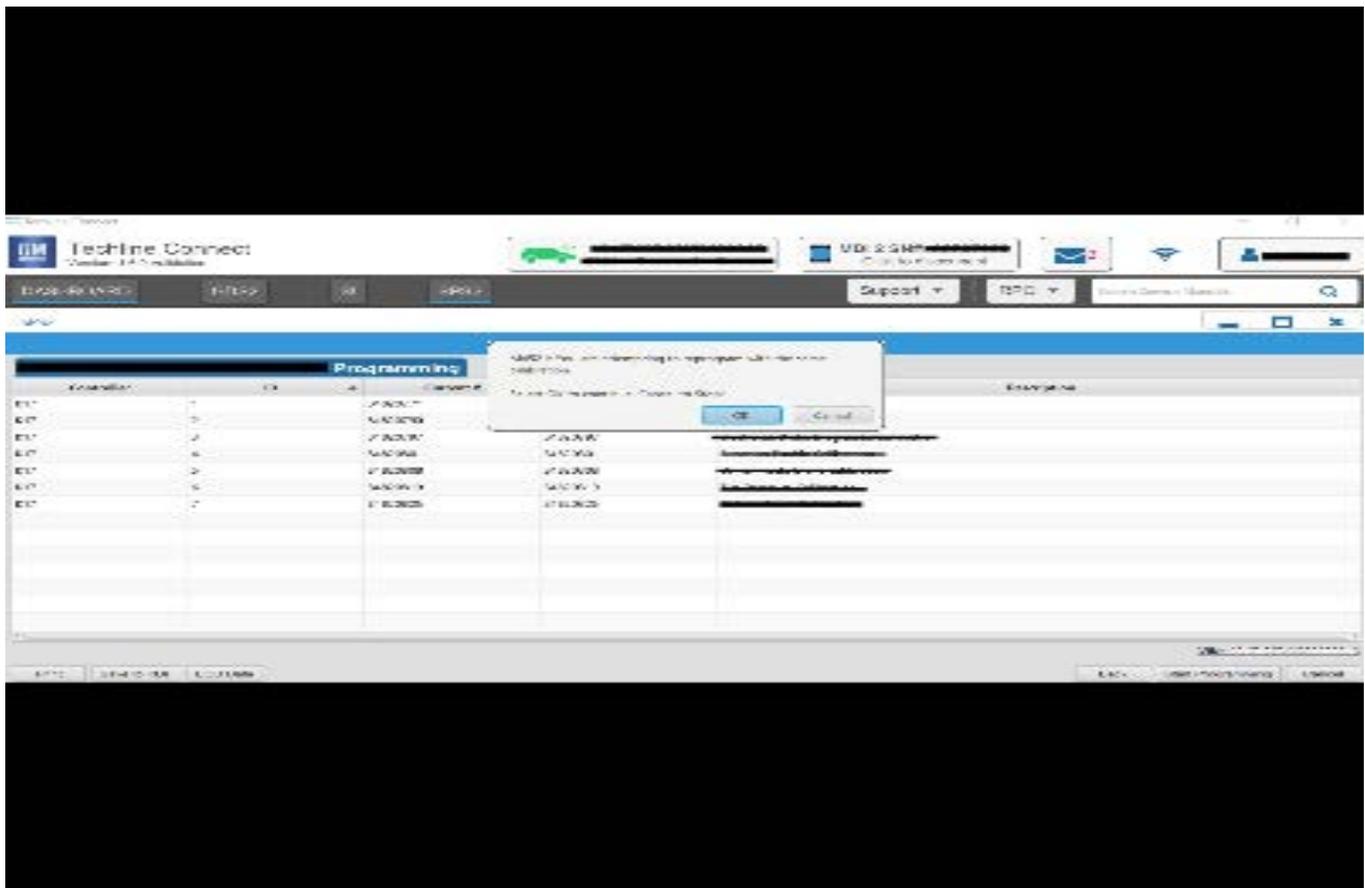
Caution: Be sure the VIN selected in the drop down menu (1) is the same as the vehicle connected (2) before beginning programming.

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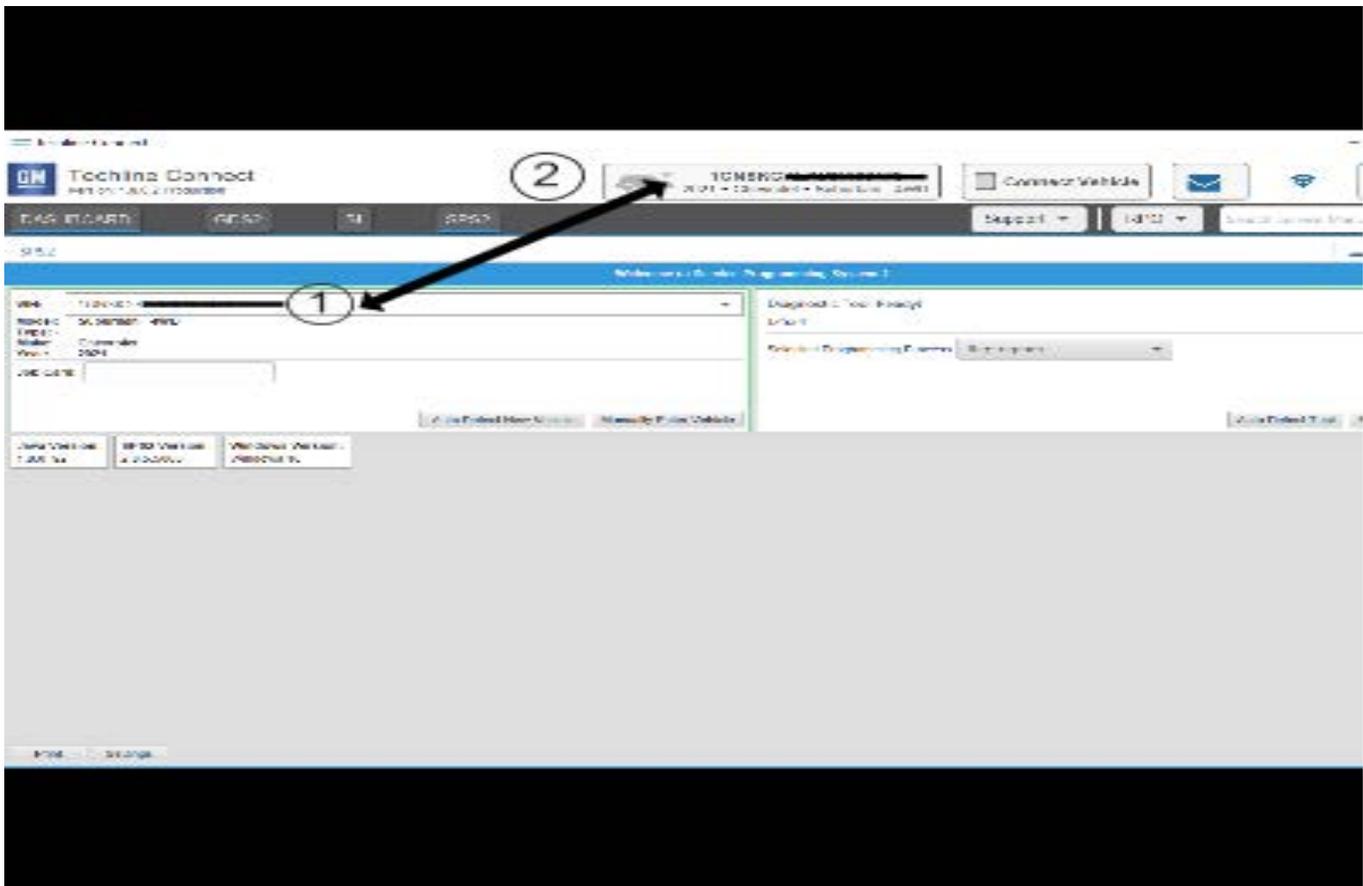
Important: If the vehicle VIN DOES NOT match, the message below will be shown.
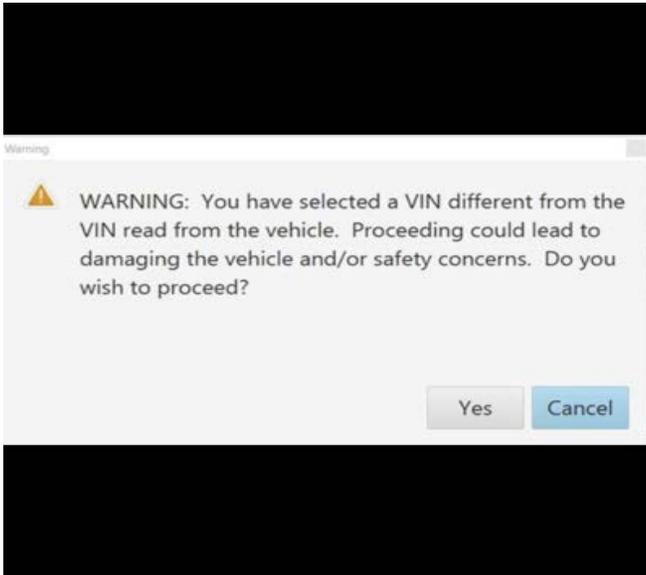
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Important: Techline Connect screen shown above.

Important: If the same calibration/software warning is noted on the TLC or SPS Summary screen, select OK and follow screen instructions. After a successful programming event, the WCC is located in the Service Programming System dialogue box of the SPS

Summary screen. Document the WCC on the job card. No further action is required. Refer to the Warranty Information section of this bulletin.

Important: It is normal operation of the Over-the-Air (OTA) update process for a radio to remain on for 30 seconds after ignition is turned off and retained accessory power (RAP) has been disabled. The radio will return to normal power down operations, i.e. off when RAP is disabled, once the OTA update has been installed.

1. Inspect the current radio software version. Navigate to Settings -> About -> Build Number -> Information "i" to view and verify the software version.

    •   If the build number is V158 or greater, this bulletin does not apply.

    •   If the build number is less than V158, proceed to Step 2.

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Note: The screenshot above is an example of module programming and may not be indicative of the specific module that is being programmed. Module selection and VIN information have been blacked out.

Important: To avoid warranty transaction rejections, you **MUST** record the warranty claim code provided on the Warranty Claim Code (WCC) screen shown above on the job card. Refer to callout 1 above for the location of the WCC on the screen.

Tip: Once the USB update is initiated, there is no need to monitor the progress.

If an Infotainment over the air (OTA) update is present in the radio Updates menu, check for and reference any applicable field action bulletins first.

If the radio displays Conditions are not ideal, there are many reasons this can display but be aware that stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming.

2. Install the software update via USB. Refer to *A11 Radio: Programming and Setup* in SI.

3. Record the Warranty Claim Code on the job card for warranty transaction submission.

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
2888168*	Radio Reprogramming with SPS/USB for V158 Update	0.6 hr
*This is a unique Labor Operation for bulletin use only.		

Version	2
Modified	Released August 18, 2021
	June 24, 2022 – Added the 2022 Model Year to certain vehicles and updated Programming procedure.