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Coding Information

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Title: Electrical Concerns with latest BCM software

Applies To: All LT, RH, MV, HV models, 2021MY and up HX, 2024MY and up CE Bus with BCM kernel version 752, 753, and 754.

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

11/04/2025 - Updated with new kernel information to address this issue.
10/13/2025 - Initial Article Release

DESCRIPTION

This document is to notify the field of an issue with BCM that causes various electrical system concerns after the vehicle sits for 2-3 days. This can affect all LT, RH, MV, HV models, 2021MY and up HX, 2024MY and up CE Bus with BCM kernel version 752, 753, and 754. Vehicles built or updated with DLB between 6/1/25 and 11/4/25 are suspected of having these kernels installed on the BCM. The most common complaint is that the steering wheel switches do not function, which, depending on the vehicle model and options, can cause the bus door, pupil warning lights, radio controls, marker interrupt, and cruise control to stop working. Other complaints can include short circuit faults from multiple sensor circuits attached to the BCM setting at the same time, the vehicle will not go into gear, the headlights are stuck on, the brake lights are stuck on, or the parking brake alarm is sounding (horn chirping) with the parking brake set. As of 11/4/25, these symptoms can be resolved by updating the BCM to kernel 755 or later with DLB.

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

Note: The following is an example of four faults that are typically seen set together and are active at the same time when this issue occurs. Other faults can occur when this occurs, depending on vehicle options.

DTC/Light	Description
33-SPN830-0	Right Fuel Level Sensor: Data Valid But Above Normal Operational Range - Most Severe Level
33-SPN2609-0	Cab A/C Refrigerant Compressor Outlet Pressure: Data Valid But Above Normal Operational Range - Most Severe Level
33-SPN516778-6	Short Circuit Detected on Freeze Probe Sensor or Temperature is Above Normal Range
33-SPN116-0	Brake Application Pressure: Data Valid But Above Normal Operational Range - Most Severe Level

After the vehicle sits undisturbed 2-3 days, one or more of the following observations or concerns can be noted by the operator after the BCM is woken up (door opened, ignition moved out of off position, keyless entry used, etc):

1. Steering wheel switches are not responding
2. Cruise control is not functioning

3. Unable to adjust the radio setting from the steering wheel
4. The marker interrupt button is not responding
5. Steering wheel-mounted PWL/Door controls for the bus are not working.
6. Cluster pagination switch for premium clusters is not working.
7. Short circuit faults from multiple sensor circuits attached to the BCM are active at the same time.
8. The vehicle will not go into gear due to a missing brake switch circuit
9. Parking brake alarm sounding (horn chirping) with parking brake set.
10. Headlights stuck on
11. Brake lights stuck on
12. Windshield wipers on with switch off.

REPAIR STEP(s)

Note: These symptoms will only present themselves after the BCM is woken up after an extended period of the vehicle at rest. If any of the symptoms started while the vehicle was operating/driving, continue to diagnose those faults/symptoms.

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

1. Connect to the vehicle with DLB software with the ignition key on.

NOTE: DLB will automatically download the latest kernel when launching. It is recommended to restart DLB with an internet connection before starting programming.

2. With the correct VIN selected, hit the update all button (Figure 1, Item 1).

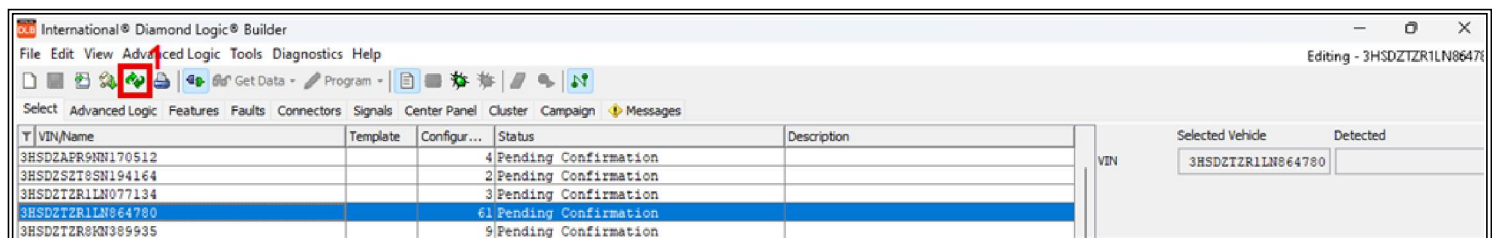


Figure 1: DLB Select Tab

Item 1: Update All Button

3. Verify the selected kernel shows as 755 or later (Figure 2, Item 1), then hit the program button (Figure 2, Item 2).

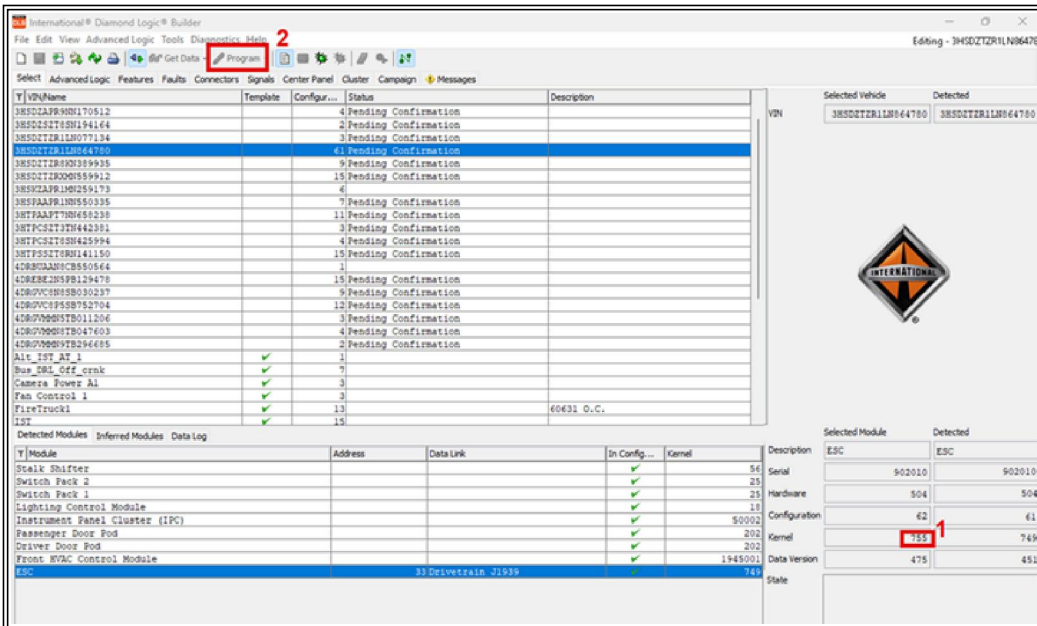


Figure 2: Preparing for Programming

- Item 1: Selected Kernel Version
- Item 2: Program Button

4. After programming is complete, verify the detected BCM version matches the selected and shows kernel 755 or later (Figure 3, Item 1).

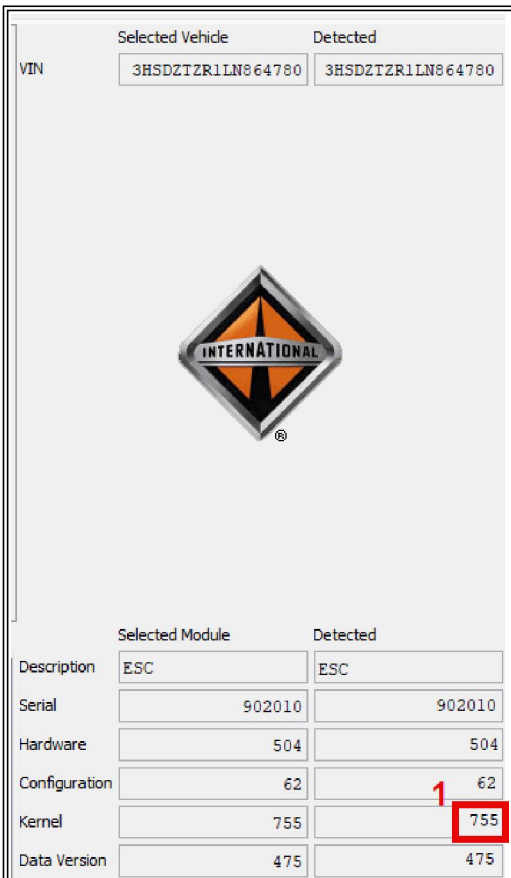


Figure 3: After Programming

- Item 1: Detected Kernel currently programmed to BCM

5. Verify the function of the truck and return to service.

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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