



**Countries:** CANADA, UNITED STATES **Document ID:** IK0800684  
**Availability:** ISIS, Bus ISIS, FleetISIS, Body Builder, NotSIR **Revision:** 1  
**Major System:** Electrical **Created:** 6/26/2025  
**Current Language:** English **Last Modified:** 1/29/2026  
**Other Languages:** NONE **Author:** Sean McGannon  
**Viewed:** 748

[Less Info](#)

Hide Details

Coding Information

<b>Copy Link</b> 	<b>Copy Relative Link</b> 	<b>Bookmark</b>  <a href="#">View My Bookmarks</a>	<b>Add to Favorites</b> 	<b>Print</b> 	<b>Provide Feedback</b> 	<b>Helpful</b>  3	<b>Not Helpful</b>  0
----------------------	-------------------------------	--	-----------------------------	------------------	-----------------------------	-------------------------	-----------------------------

**Title:** Erratic BCM and RPM Behavior with Kernel 747-752

**Applies To:** All MV, HV, HX with RPM modules

## CHANGE LOG

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

01/29/2026 - Added note for issue with kernel 756  
 06/27/2025 - Initial Article Release

## DESCRIPTION

This document is to inform dealers, customers, and body builders/TEMs of a known BCM software issue with kernels 747 through 752. Units built after November of 2024 as well as older units that were updated with DLB between 11/5/2024 and 6/26/2025 with Remote Power Modules (RPM) modules, can experience loss of RPM functionality as well as other electrical system concerns. Kernel 753 was released to DLB on 6/26/2025 to address these concerns.

**Note:** as of 1/26/26 we are aware of the same issue on kernel 756 that DLB is currently updating BCMs to. Kernel 757 is expected to be available in DLB by 2/6/26. Do not update BCMs on vehicles with RPM modules until that is available. If you have already updated to 756, revert the BCM to an older configuration or start a programming case file for assistance with installing a different kernel.

## SYMPTOM(s)

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

SPN	FMI	Fault Description
520469	14	RPM 1 Channel 1 Analog Input Data Unavailable
520471	14	RPM 1 Channel 2 Analog Input Data Unavailable
520473	14	RPM 1 Channel 3 Analog Input Data Unavailable
520475	14	RPM 1 Channel 4 Analog Input Data Unavailable
520477	14	RPM 1 Channel 5 Analog Input Data Unavailable
520479	14	RPM 1 Channel 6 Analog Input Data Unavailable
520481	14	RPM 2 Channel 1 Analog Input Data Unavailable
520483	14	RPM 2 Channel 2 Analog Input Data Unavailable
520485	14	RPM 2 Channel 3 Analog Input Data Unavailable

520487	14	RPM 2 Channel 4 Analog Input Data Unavailable
520489	14	RPM 2 Channel 5 Analog Input Data Unavailable
520491	14	RPM 2 Channel 6 Analog Input Data Unavailable
520493	14	RPM 3 Channel 1 Analog Input Data Unavailable
520495	14	RPM 3 Channel 2 Analog Input Data Unavailable
520497	14	RPM 3 Channel 3 Analog Input Data Unavailable
520499	14	RPM 3 Channel 4 Analog Input Data Unavailable
520501	14	RPM 3 Channel 5 Analog Input Data Unavailable
520503	14	RPM 3 Channel 6 Analog Input Data Unavailable
520505	14	RPM 4 Channel 1 Analog Input Data Unavailable
520507	14	RPM 4 Channel 2 Analog Input Data Unavailable
520509	14	RPM 4 Channel 3 Analog Input Data Unavailable
520511	14	RPM 4 Channel 4 Analog Input Data Unavailable
520513	14	RPM 4 Channel 5 Analog Input Data Unavailable
520515	14	RPM 4 Channel 6 Analog Input Data Unavailable
520517	14	RPM 5 Channel 1 Analog Input Data Unavailable
520519	14	RPM 5 Channel 2 Analog Input Data Unavailable
520521	14	RPM 5 Channel 3 Analog Input Data Unavailable
520523	14	RPM 5 Channel 4 Analog Input Data Unavailable
520525	14	RPM 5 Channel 5 Analog Input Data Unavailable
520527	14	RPM 5 Channel 6 Analog Input Data Unavailable
520529	14	RPM 6 Channel 1 Analog Input Data Unavailable
520531	14	RPM 6 Channel 2 Analog Input Data Unavailable
520533	14	RPM 6 Channel 3 Analog Input Data Unavailable
520535	14	RPM 6 Channel 4 Analog Input Data Unavailable
520537	14	RPM 6 Channel 5 Analog Input Data Unavailable
520539	14	RPM 6 Channel 6 Analog Input Data Unavailable
520541	14	RPM 7 Channel 1 Analog Input Data Unavailable
520543	14	RPM 7 Channel 2 Analog Input Data Unavailable
520545	14	RPM 7 Channel 3 Analog Input Data Unavailable
520547	14	RPM 7 Channel 4 Analog Input Data Unavailable
520549	14	RPM 7 Channel 5 Analog Input Data Unavailable
520551	14	RPM 7 Channel 6 Analog Input Data Unavailable

**Customer Observations or Concerns:**

- All inputs and outputs through RPM modules do not function
- Switches or indicator lights tied to RPM inputs or outputs can fast flash red
- Dome/panel/marker lights flashing
- Windshield wipers turning on without command
- Warning lights in the cluster after adjusting the rear HVAC settings
- Rear HVAC fan and temp display showing erratically in the cluster
- Relays clicking/cycling in the cab and sleeper PDM

---

**SPECIAL TOOLS / SOFTWARE**



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 753 or later (Figure 3, Item 1).

	Selected Vehicle	Detected
VIN	3HSDZTZR1LN864780	3HSDZTZR1LN864780

  
  

	Selected Module	Detected
Description	ESC	ESC
Serial	902010	902010
Hardware	504	504
Configuration	62	62
Kernel	753	753
Data Version	475	475

**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](#)

 Hide Details

Feedback Information

Viewed: 747  
Helpful: 3  
Not Helpful: 0

No Feedback Found