



Countries:
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Author: Matthew Carrigan

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Coding Information

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Title: New or Replacement Body Control Module (BC, BCM) Not Detected

Applies To: All Gen. 4 Body Control Modules

CHANGE LOG

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

10/12/2021 - Initial Article Release

DESCRIPTION

This document addresses how to troubleshoot a new or replacement gen 4 body control module not being detected (not programmable) in DLB.

SYMPTOM(s)

Observations or Concerns:

A new/replacement gen 4 body control module has been installed, but is not detected by DLB and is not programmable in DLB.

If you have installed a new or replacement BCM and DLB cannot connect to the BCM then follow the repair steps below. You will need to switch the BCM's baud rate to match the baud rate of the vehicle.

Gen 4 BCM Baud Rate Info

Gen 4 body control modules (BCM) can communicate at 2 different baud rates: 250k or 500k. However they cannot communicate at both baud rates at the same time. Every gen 4 BCM will be configured to communicate at either 250k or 500k. If the BCM's baud rate does not match the baud rate of your truck (black 9-pin data link connector = 250k, green 9-pin data link connector = 500k), then DLB will not be able to connect to the BCM.

How to establish communication with BCM: You must communicate with the new BCM at the baud rate that it is already set up to communicate at. If you try to connect to a 500k BCM on a 250k chassis, DLB will not detect the BCM (and vice versa). You need to connect to a 500k BCM on a 500k data link (use either a surrogate chassis or programming station). When you encounter a new or replacement BCM that cannot be detected in DLB you have 2 connection options:

1. Use Programming station (recommended): It is recommended to use the programming station with the BCM programming station harness. DO NOT connect all 3 BCM programming harness connectors to the BCM. When programming on the programming station use only the J5 connector if you need to communicate at 250k. Use only the J2 & J6 connectors if you

need to communicate at 500k.

2. or Connect BCM to a surrogate chassis that has the baud rate that your BCM is already communicating at. If you suspect that your BCM is currently set to communicate at 250k, then connect it to a 250k chassis. If you suspect your BCM is currently communicating at 500k then connect to a 500k surrogate chassis.

How To Determine a Vehicle's Baud Rate

International / Navistar vehicles with a 500k baud rate have a green 9-pin data link connector.

International / Navistar vehicles with a 250k baud rate have a black 9-pin data link connector

REPAIR STEP(s)

Switching BCM from 500k to 250k

1. Connect to BCM
 - A. If using the programming station, connect with only J2 & J6 connectors
 - B. If using a surrogate chassis, connect the BCM to a 500k chassis
2. Program the BCM with DLB to the 250k VIN that you are working with. Once you are done programming, DLB will lose connection to the BCM.
3. Disconnect the BCM
 - A. If using the programming station, disconnect the J2 & J6
 - B. If using a surrogate chassis, disconnect BCM from surrogate chassis.
4. Connect to BCM
 - A. If using the programming station, connect J5 connector
 - B. If you used a surrogate chassis, reconnect the BCM to the original (250k) chassis
5. Connect with DLB and verify that the BCM is programmed correctly.

Switching BCM from 250k to 500k

1. Connect to the BCM
 - A. If using the programming station, connect with only J5 connector
 - B. If using a surrogate chassis, connect the BCM to a 250k chassis
2. Program the BCM with DLB to the 500k VIN that you are working with. Once programming is completed, DLB will lose connection to the BCM.
3. Disconnect the BCM
 - A. If using the programming station, disconnect the J5 connector
 - B. If using a surrogate chassis, Disconnect the BCM from surrogate chassis
4. Connect to BCM
 - A. If using the programming station, connect J2 & J6 connectors
 - B. If you used a surrogate chassis, connect BCM to the original (500k) chassis
5. Connect with DLB and verify that the BCM is programmed correctly

OTHER RESOURCES

Programming Station: [TL2900048 - Control Module Programming Station – Tool Number 12-801-01 \(Full Service Locations\) & 12-801-02 \(Medium Duty Locations Only\) \(internationaldelivers.com\)](#)

Body Control Module Programming harness: [TL2900177 - 12-999-12 Body Control Module \(BCM\) Programming Harness \(internationaldelivers.com\)](#)

If you need further assistance you can submit a Vehicle Programming case file.

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