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Coding Information

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Title: How to Get from History and Program a BCM or ESC

Applies To: All Vehicles with a BCM or ESC

Change Log

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

<p>11/05/2018 - Added BCM programming harness instructions under Special Tools / Software and at Step 6 of Troubleshooting</p> <p>10/16/2018 - Added additional steps under troubleshooting to correct a BCM programmed to the incorrect baud rate.</p> <p>10/12/2018 - Added special tool information for bench programming based on dealer feedback.</p> <p>08/28/2017 - Author updated for feedback purposes.</p>
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Description

How to get from history and program a Body Control Module (BCM) or Electronic System Controller (ESC) with Diamond Logic Builder (DLB). This instruction applies to modules that are new and blank, or if an update has been performed remotely and sent to the server for retrieval. Please read instructions through one complete time before attempting to program.

Special Tools / Software

Tool Description	Tool Number	Comments	Instructions
EZ-Tech® or Electronic Service Tool (EST) with Diamond Logic Builder (DLB) Software			
Harness, Body Control Programming	12-999-12	Used to bench program / re-flash 250K and 500K Body Control. Must be used in combination with ECM Programming Station 12-801-01 and EZ-Tech computer with Diamond Logic Builder (DLB) software loaded.	4328530R1
Programming Station with PCB	12-801-01-01	Control Module Programming Station. Part of 12-801-01. This kit includes: x1 pc of p/n: 12-801-01-08 (12 Amp Power Supply), x1 pc of p/n: 12-801-01-09 (Cigarette Power Adapter) x1 pc of p/n: 12-801-01-10 (Battery Terminal Power Adapter).	

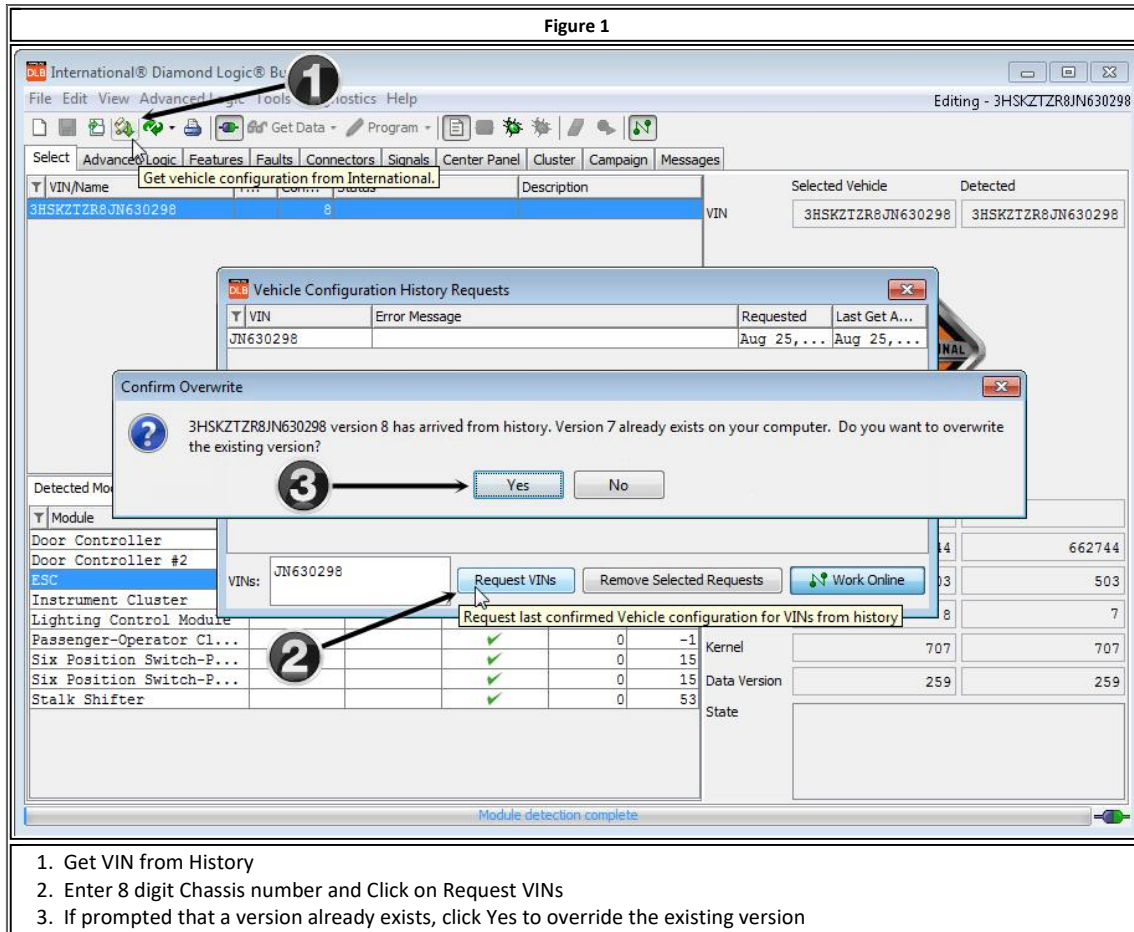
Service Parts Information

Body Control Module (2007 and newer vehicles)	Electronic System Controller (Pre-2007 vehicles)
4044470C5 Always refer to the Parts Catalog for the VIN you are working on for accuracy	3833155C2 5011081R1

Always refer to the Parts Catalog for the VIN you are working on for accuracy

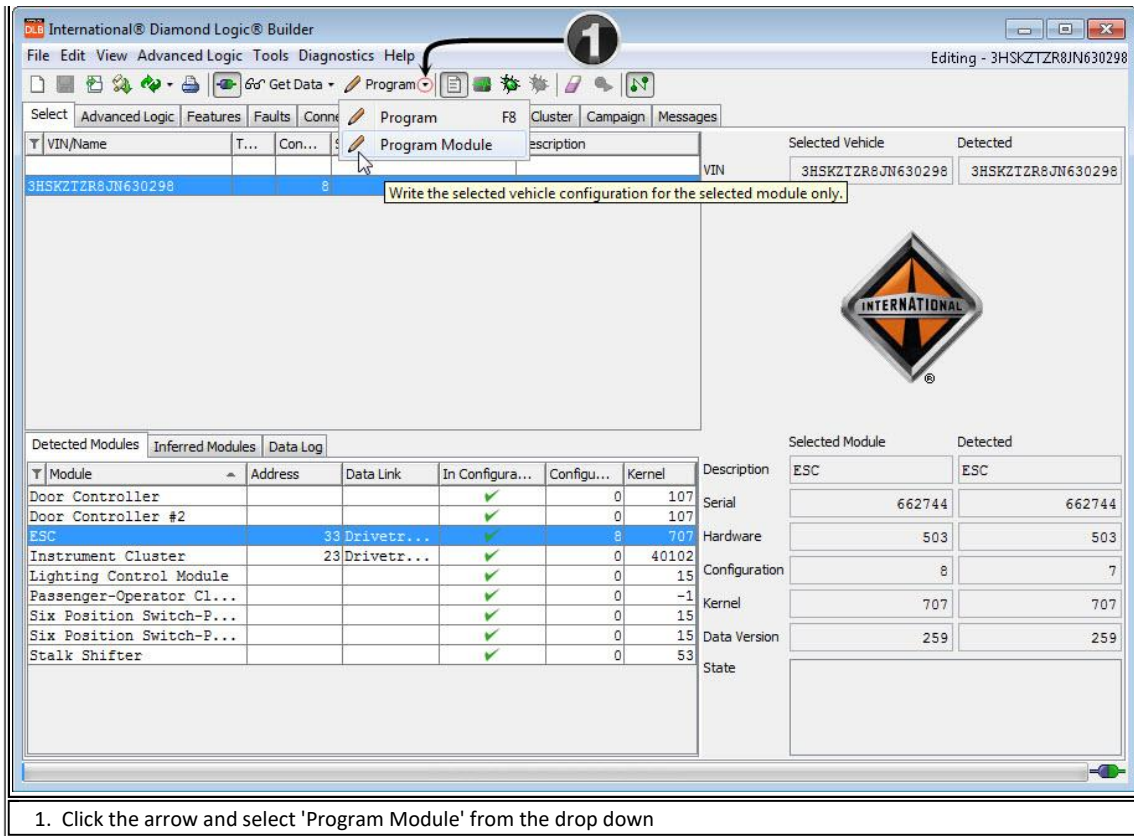
Service Procedure

1. Install the new BCM or ESC
2. Connect the smart charger to the truck batteries and verify voltage is between 12.5vDC and 14.0vDC
3. Ensure the key is in the OFF position and the dome light or park lights are turned ON
4. Open DLB and connect to the BCM or ESC using an appropriate RP1210 COM adapter, such as a Nexiq cable
5. Get the VIN from History. Refer to Figure 1



6. Make sure the correct VIN is selected (It will be highlighted blue as shown)
7. Click on the arrow at the 'Program' button and select 'Program Module' from the drop down. Refer to Figure 2
 - The Key should be in the OFF position while programming the BCM
 - The dome light or park lights should be ON to ensure the BCM remains awake during the programming process

Figure 2

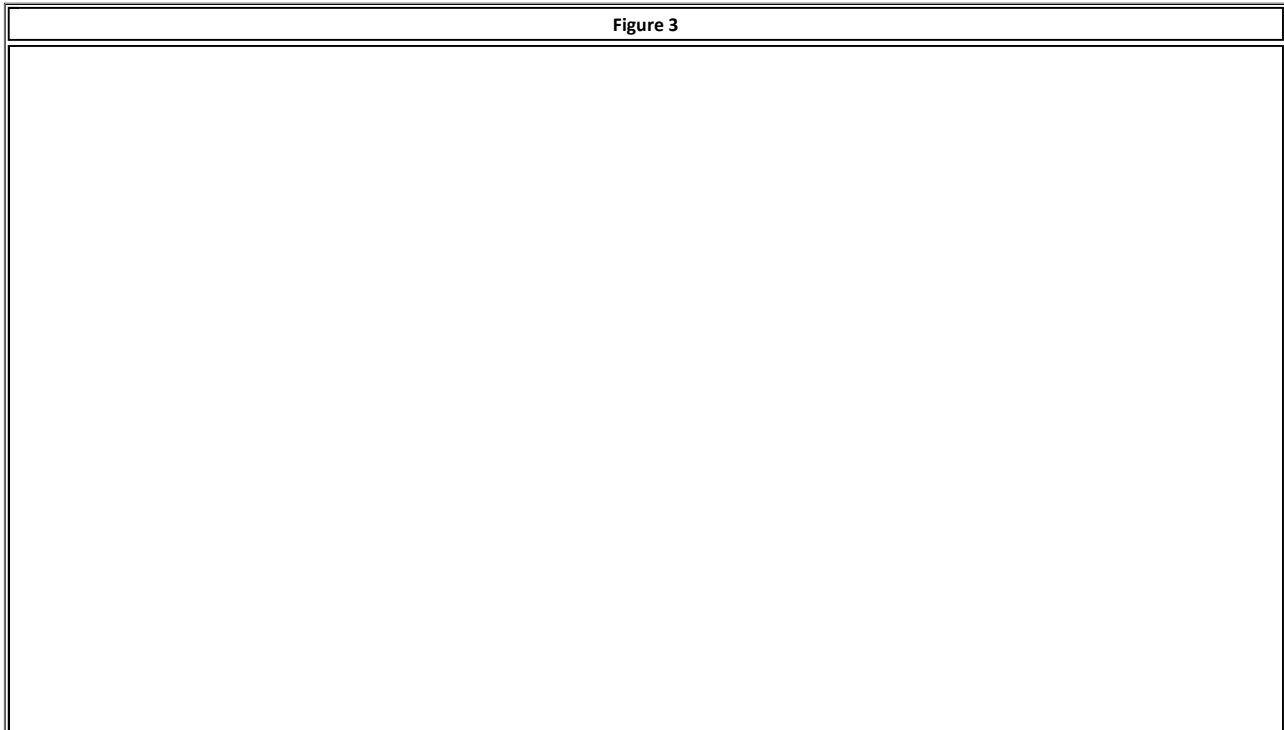


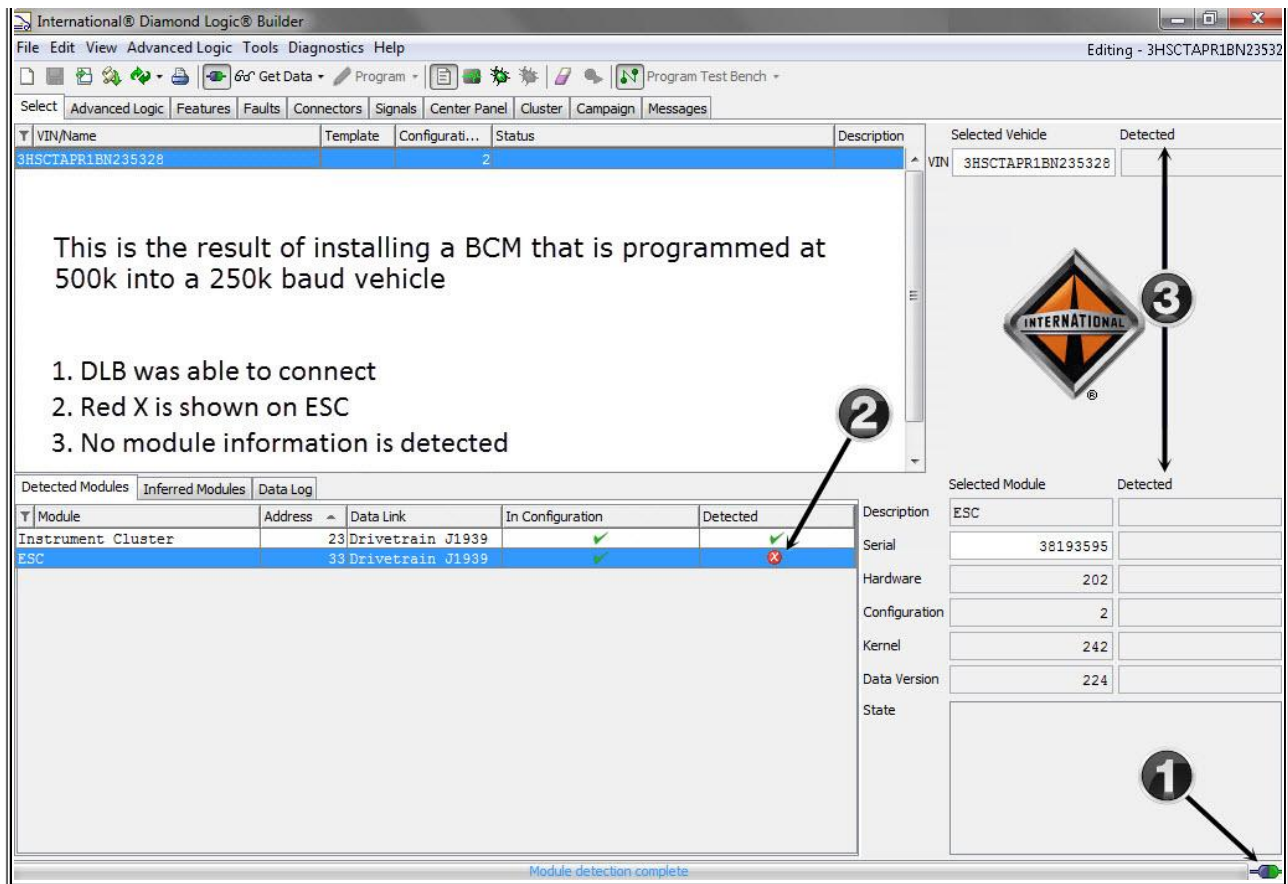
1. Click the arrow and select 'Program Module' from the drop down

8. Verify 'Selected Vehicle' and 'Detected' columns match after programming

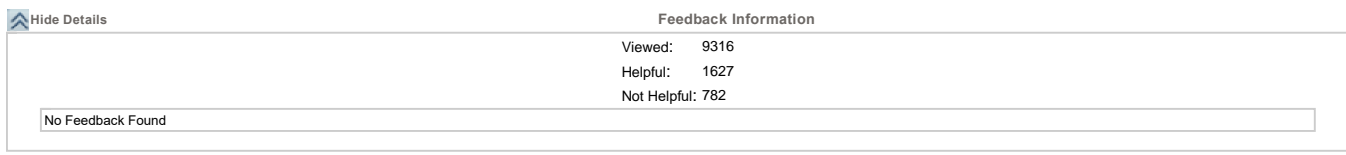
Troubleshooting

1. If you have problems or questions programming an ESC / Body Controller then create an iKNOW case file
2. State any error messages or on screen notifications
3. Figure 3 below shows an error when a programmed module is installed into a vehicle with a different baud rate





- You can use the BCM programming harness 12-999-12 along with the programming station 12-801-01-01 to correct the issue in figure 3.
 - Connect to the BCM, you will most likely find it is already programmed with a VIN.
 - Once connected, program the BCM to the desired VIN.
 - Reinstall the BCM into the desired vehicle.
 - Connect with DLB and verify operation in vehicle.
- Alternatively to step 4, you can also install the BCM into a different baud rate vehicle, and reprogram to correct the issue in figure 3.
 - If you cannot connect to the BCM in a 250k baud rate vehicle, install the BCM into a 500k baud rate vehicle
 - If you cannot connect to the BCM in a 500k baud rate vehicle, install the BCM into a 250k baud rate vehicle
 - Attempt to connect to the BCM with the key off, you will most likely find it is already programmed with a VIN.
 - Once connected, program the BCM to the desired VIN.
 - Remove the BCM, and install it back into the desired vehicle.
 - Connect with DLB and verify operation in vehicle.
- [Tool Instruction 4328530R1 for BCM Programming Harness](#)



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