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Current Language: English **Last Modified:** 12/6/2018
Other Languages: NONE **Author:** Charles Schroeder
Viewed: 1039

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Coding Information

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Title: Cummins ECM Programming Procedure for LT, HV, MV, LoneStar

Applies To: EPA 2017 Cummins equipped LT, HV, MV, LoneStar built prior to June 4, 2018

Change Log

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

12/06/2018 - Updated "Applies to"
11/16/2018 - Added LoneStar based on dealer feedback. Corrected software version from 2.0 to 1.9.
11/05/2018 - Updated repair steps based on dealer feedback.
06/12/2018 - Door pod software is available to correct the issue. Updated repair steps to reflect this.
05/10/2018 - Added additional detail stating this does not affect a parameter only change. Added image for fuse panel location.
05/09/2018 - Initial Article Release.

Description

When updating the calibration in a Cummins ECM through the vehicle 9-pin diagnostic connector on LT, HV, MV or LoneStar the vehicle door pods will need to be disabled to ensure proper programming of the calibration and parameters occurs. If the procedure is not properly followed, the programming event will not properly complete.

- ECM Calibration update will be successful.
- Restore of ECM parameters will fail.
- Applies to vehicles with Cummins X15 engine and feature 0508097
- Only applies to vehicles built prior to 6/4/2018.

NOTE:

This does not apply to setting or changing a parameter only, such as maximum vehicle speed, when the ECM calibration is not changed.

Symptoms

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description
No Faults or Warning Lights	

Customer Observations or Concerns:**Special Tools / Software**

Tool Description	Tool Number	Comments	Instructions
Cummins INSITE		EZ-Tech Software	

Service Parts Information

Kit Description	Part Number	Quantity Required	Notes
Not Applicable			

Diagnostic Steps

Not Applicable

Repair Step(s)

An interaction between the Engine ECM and Vehicle Door Pods requires the door pods to be disabled during the ECM calibration update.

Door Pod software has been released to correct this issue. Vehicles built 06/04/2018 and later will have 1.90 or higher door pod software.

- [Follow IK0800550 - Multi Module Programming Information for In-Cab Modules](#) to update all door pods to software 1.90 (or higher)
 - Shown as Kernel 190 in Diamond Logic Builder (or higher, such as 200)
- Programming the door pods must be completed prior to programming the Cummins ECM

Alternative methods:

- A. Use the 3 pin connector in the engine compartment
- B. Remove the fuses for the door pods (no longer recommended):
 1. Remove the fuse panel cover located at the top of the dash on the passenger side of the vehicle.
 2. Reference the fuse panel graphic and locate the fuse locations for **Driver Side Window/Door/Mirror** and **Passenger Side Window/Door**
 3. Remove both fuses
 4. Connect to the ECM using the vehicle 9-pin diagnostic connector
 5. Update the ECM calibration with INSITE
 6. Once all programming is complete disconnect the service tool from the vehicle 9-pin diagnostic connector
 7. Re-install fuses for Driver Side Window/Door/Mirror and Passenger Side Window/Door

Figure 1 - Fuse Panel Location



1. Fuse Panel Cover

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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