



Countries: Document ID: IK2600251
Availability: Revision: 0
Major System: PROGRAMMING SUPPORT Created: 3/29/2021
Current Language: English Last Modified: 10/19/2021
Other Languages: NONE Author: Matthew Carrigan
Viewed: 65

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Coding Information

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Title: Cummins As-Built Parameter List

Applies To: International/Navistar vehicles with Cummins engines

CHANGE LOG

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

03/29/2021 - Initial Article Release

DESCRIPTION

This article explains how to (1.) obtain a list of as-built Cummins ECM parameters, and (2.) how to interpret the Cummins multiplexing parameters as seen in an as-built parameter list.

NOTES

The only parameter data Navistar has for a Cummins engine is the as-built parameter data. Navistar does not have any way to know what those parameter values were changed to after the vehicle left the factory.

1. You can submit an iKNow case file to the Vehicle Programming group with a request to provide the "as-built parameter list" for any International/Navistar vehicle that has a Cummins engine. We will attach a .pdf file to the case that contains the as-built data. (It is possible that we might not have the data for older vehicles.)

2. As-Built parameter ID numbers and parameter naming structure are different than what you would see in Cummins Insite. Please download this [Sample As-Built Parameter File](#) and follow along with the information below to help you understand how to read the multiplexing parameters in an as-built parameter file.

The information below only pertains to the sample file that can be downloaded from the link above. Parameter data for the VIN you are working on will likely be similar, but not exactly the same.

1. The top of the file calls out the VIN. Please make sure that your as-built parameter file matches the VIN you're working on.
2. We will be looking at 3 different columns from the list: Sequence, Parm Name Description, & Parm Value

Vin 3HSDZAPR6KN406979

Build Date 2018-09-11

ESN 80097575

Unit Electric Family
Code C2350

Parameters						
Sequence	Parm Name Description	Alternate Parm Name	Parm Value	Start Date	End Date	Unit Code
0	CC-TYPE-06 CC-TYPE-06	N/A	1.00	09/11/2018	12/31/9999	0012EGP
0	PASSWORD2-OEM-06 PASSWORD2-OEM-06	N/A	*****	09/11/2018	12/31/9999	0012EGP
5	VEH-MODEL-06 VEH-MODEL-06	N/A	LT62F00	09/11/2018	12/31/9999	0012EGP

3. You can find the multiplexing parameters from sequence number 5100 to 5730 in the list.

A. Many of the multiplexing functions in the Cummins ECM have 2 parameters: an enable/disable parameter, and a source address parameter.

1. Both parameters need to be set correctly in order for that function to work (in the example below we will look at the fuel level sensor).

2. Parameter 5700 - "MUX-FUEL-LVL-06" is set to "128" (128 means "enabled") - that parameter enables the fuel level sensor feature in the ECM.

a. if 5700 was disabled, it would show as "0.00" instead of "128".

3. Parameter 5710 - "MUX-FUEL-LVL-SA-06" (SA = Source Address) is set to 33 (33 is the source address number of the body controller - the body controller sends out the fuel level sensor data onto the data link).

4. **Note - all multiplexing parameter names start with "MUX"**

5700	MUX-FUEL-LVL-06 MUX-FUEL-LVL-06	N/A	128.00	09/11/2018	12/31/9999	0012EGP
5710	MUX-FUEL-LVL-SA-06 MUX-FUEL-LVL-SA-06	N/A	33.00	09/11/2018	12/31/9999	0012EGP

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