

EMISSION RECALL BULLETIN

Subject: **Emission Recall D18R5**
GHG17 DD Platform Model Years 2016-2018 Software
Reprogramming For California Onboard Diagnostics

Issue Involved

Detroit Diesel Corporation (DDC) has determined that some certified Model Year 2016-2018 GHG17 DD platform engines that are registered in California will require reprogramming to a **minimum** of the software and fuel map part number version listed below.

- MCM software 6.6.0.1 with fuel map part number version ZGS 004 except:
 - o Non-DTNA OEM vehicles will be fuel map part number version ZGS 002
 - o New Cascadia® vehicles equipped with a PTO will be fuel map part number version ZGS 002
- ACM software 7.58.2.0 with fuel map part number version ZGS 002
- For non-New Cascadia® vehicles, CPC software R40_00_000A
- For New Cascadia® vehicles, CPC software 29.23.00
- For DT12™ equipped vehicles, TCM software NAMT130600

The software and fuel maps became effective with GHG17 vehicles manufactured after approximately March 15, 2018. Any GHG17 DD Platform engine in model years 2016-2018 vehicles manufactured before this date, registered in California and running older software and fuel maps may need the modules reprogrammed. Note that some vehicles may already have been reprogrammed and will be excluded from this Recall.

Note that the currently available software and fuel map levels may be higher than the minimum levels shown above.

Reprogramming will correct an issue regarding Onboard Diagnostic (OBD) monitors to ensure fulfillment of required in-use monitoring performance ratio targets.

There are approximately 3,110 engines affected by this Emission Recall.

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Engines Involved

A list of engines located in your area of responsibility that require this correction is attached.

The table below gives descriptive information to help identify the affected units:

Model Series	Model Number	Model Year	Inclusive Vehicle Mfg. Date (From) (To)	Descriptive Information
DD13	D471928 D471938 D471940 D471941	2016 2017 2018	May 1, 2015 to March 15, 2018	2016: non-line haul applications, registered in California 2017/2018: All applications, registered in California
DD15	D472910	2016 2017 2018	May 1, 2015 to March 15, 2018	2016: non-line haul applications, registered in California 2017/2018: All applications, registered in California
DD16	D473910	2016 2017 2018	May 1, 2015 to March 15, 2018	2016: non-line haul applications, registered in California 2017/2018: All applications, registered in California

Owner Notification

Detroit Diesel will notify owners of equipment which incorporate engines identified with this Emission Recall. A copy of the owner letter that will be used by Detroit Diesel is enclosed with this Emission Recall bulletin.

Distributor / Dealer Campaign Responsibility

Detroit Diesel repair facilities are to service all engines subject to this Emission Recall. Emission Recall D18R5 is to be performed at no charge to owners on all affected engines under the engine warranty. Please use the appropriate steps, noted below, for indicating that Emission Recall D18R5 has been completed.

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Daimler Trucks North America Vehicles

- Check the base label (**Form WAR259**) to see if **Emission Recall D18R5** has been completed. The base label is usually located on the passenger-side door about 30 cm (12 inches) below the door latch. If **Emission Recall D18R5** has been completed, no further work is needed. If base label is not located on the passenger-side door, please affix label (**Form WAR259**) 30 cm (12 inches) from the door latch.
- Upon completion of **Emission Recall 18R5**, clean a spot on the base label (**Form WAR259**), write the Emission Recall Number (**D18R5**) on a blank, black completion sticker (**Form WAR261**), and attach it to the base label.

Ordering Information

1. If you do not have the appropriate Form or Labels (DDC_WAR 259, DDC_WAR 260, DDC_WAR 261), they can be ordered from **EPI Printers** by emailing your order to ddc@epiinc.com
2. You can also fax in your order to **269-698-4240 Attn: Corrina Cotton**
3. Contact **EPI at 734-464-9000**.

Parts Information

There are **no parts** required for this Emission Recall.

Corrective Procedure

1. Apply the parking brake, chock the wheels, and perform any other applicable safety steps.
2. You **MUST** use DiagnosticLink® Professional 8.07 with Service Pack 2 (*or higher*) when reprogramming. **REFERENCE** Detroit Customer Service Announcement letter 18 CSA-4 for more information on DiagnosticLink® 8.07 with Service Pack 2.
3. Begin the process by connecting DiagnosticLink® to the vehicle. Make sure that all the modules (ACM, CPC, MCM, and if applicable, the TCM) are connected.

NOTICE:
BEFORE you begin reprogramming, make sure the VIN is correct in all modules (ACM, CPC, MCM, and if applicable, the TCM). If the VIN is not correct in all modules, you will get an error message when attempting to reprogram.

4. Make sure the VIN is correct in all modules (ACM, CPC, MCM, and if applicable, the TCM) by looking at the “Identification” screen in DiagnosticLink®. If the VIN is not correct in all modules, you can correct the VIN under the Actions drop-down menu in DiagnosticLink® by selecting the “Check VIN Synchronization” item. Select “Start” from this panel and follow the prompts. You will be prompted to cycle the key until the routine has completed. When synchronization is complete, turn the key back on and continue with the download process.

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5. On the Identification screen, check the current MCM and ACM software and fuel map part number ZGS level. Listed below are the **MINIMUM** levels required. See Figure 1 for an example of the Identification screen for the MCM and ACM.
 - a. MCM software **6.6.0.1** and fuel map part number version **ZGS 004** except:
 - i. Non-DTNA OEM vehicles will be fuel map version ZGS 002
 - ii. New Cascadia® vehicles equipped with a PTO will be fuel map version ZGS 002
 - b. ACM software **7.58.2.0** and fuel map part number version **ZGS 002**
 - c. For non-New Cascadia® vehicles, CPC software **R40 00 000A**
 - d. For New Cascadia® vehicles, CPC software **29.23.00**
 - e. For DT12™ equipped vehicles, TCM software **NAMT130600**

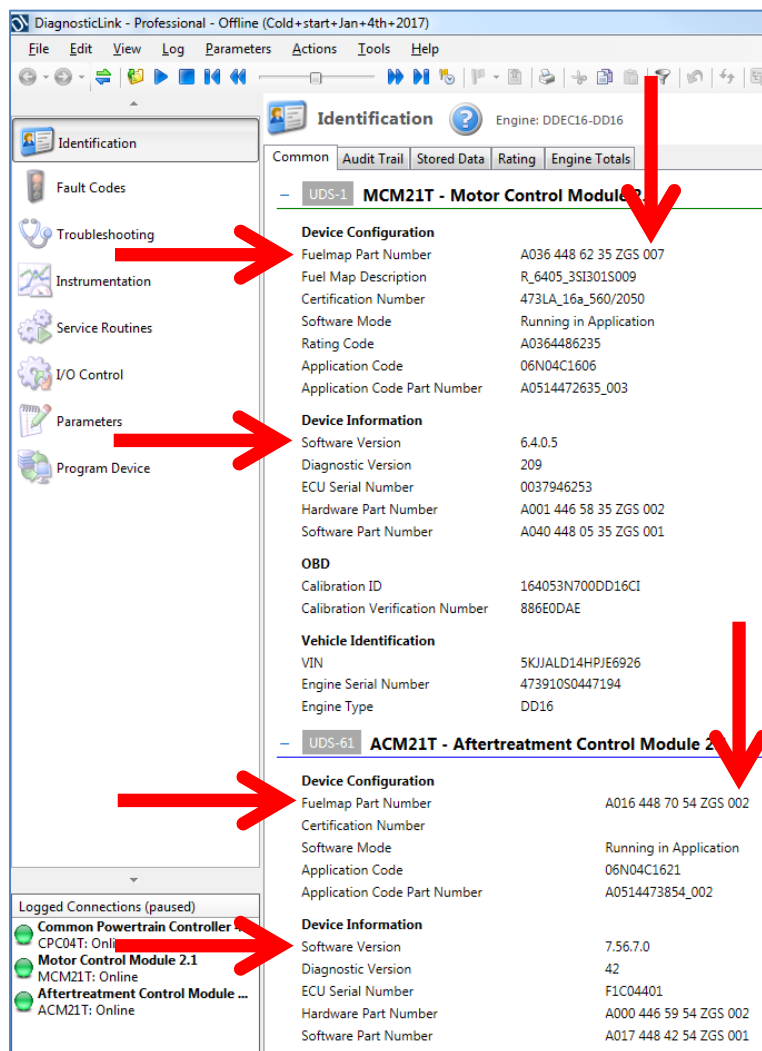


Figure 1 – DiagnosticLink® Identification Screen

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6. Is the **software** level for all modules less than, equal to, or higher than the minimum software levels listed in step 5? All modules must meet the **MINIMUM** requirements. For example in Figure 1, MCM software 6.4.0.5 and ACM software 7.56.7.0 are both less than the minimum levels of 6.6.0.1 and 7.58.2.0 and thus would require programming regardless of fuel map part number ZGS level.
 - a. If equal to the minimum software levels, proceed to step 7.
 - b. If less than the minimum software levels, proceed to step 8.
 - c. If greater than the minimum software levels, no programming is necessary. Proceed to step 13.

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7. Is the fuel map part number ZGS level for the MCM and ACM less than, equal to, or higher than the fuel map part number ZGS levels listed in step 5? The MCM and ACM fuel map part number ZGS levels must meet the **MINIMUM** requirements. For example in Figure 2, the MCM and ACM software levels meet the minimum required levels of 6.6.0.1 and 7.58.2.0, but the MCM fuel map part number ZGS level of 003 is less than the minimum level of 004, and ACM fuel map part number ZGS level of 001 is less than the minimum level of 002, and thus would require programming.
 - a. If less than the minimum fuel map part number ZGS levels, proceed to step 8.
 - b. If equal to or greater than the minimum fuel map part number ZGS levels, no programming is necessary. Proceed to step 13.

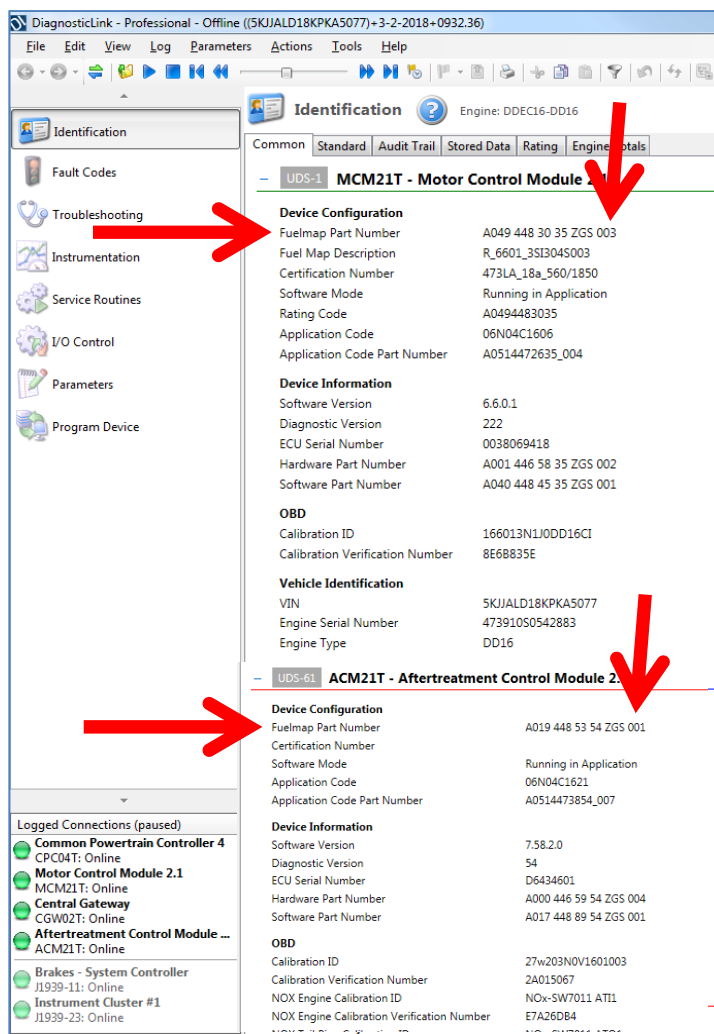


Figure 2 – DiagnosticLink® Identification Screen

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8. Select the “Program Device” option along the left side of the DiagnosticLink® screen.
9. Select the “Add” button in the upper right corner of the DiagnosticLink® screen and enter the engine serial number. Then click the “Connect to Server” button in the bottom right corner of the DiagnosticLink® screen. See Figure 3.

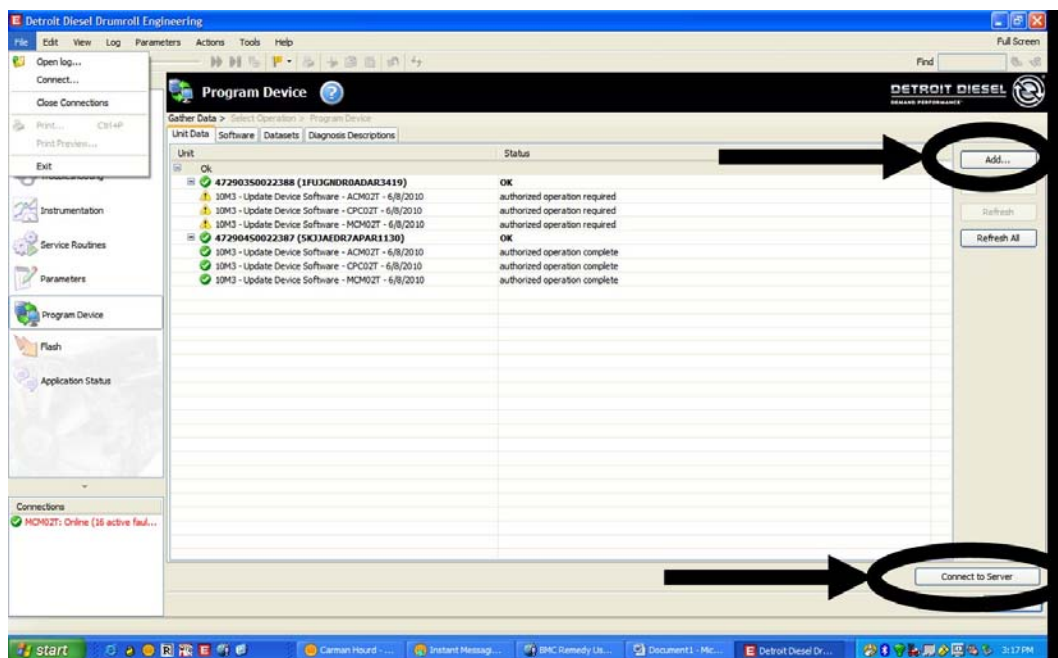


Figure 3 – Adding Engine Serial Number And Connecting To Server

10. Program the MCM, ACM, CPC, and if applicable, the TCM, based on the above inspection results and engine serial number listing included with this Emission Recall. If programming the TCM from software version NAMT095500, **REFERENCE** Detroit™ Technical Service Letter 17 TS-5.
11. When programming is complete, click the “Finish” button and perform the following to allow the modules to synchronize with each other:
 - a) Turn the vehicle ignition OFF, disconnect the USB Link at either the computer port or vehicle diagnostic port, and wait one minute.
 - b) Turn the vehicle ignition ON and wait one minute.
 - c) Turn the vehicle ignition OFF and wait one minute.
 - d) Turn the vehicle ignition ON and wait one minute.
 - e) Reconnect the USB Link, reconnect DiagnosticLink® to the MCM, ACM, CPC, and if applicable the TCM, and confirm the proper software and fuel map levels.

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NOTICE:
CHECK with the customer to see if Auto Elevate can be enabled. Auto Elevate can prevent Aftertreatment System (ATS) issues.

12. Ask the customer if they would like Auto Elevate activated. **REFERENCE** Detroit Technical Service letter 16 TS-18 for full details on Auto Elevate.

13. Repairs are complete.

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Notice	
Claim administration time, SRT 939-6010A, for 0.3 hours will automatically be added. No additional operation is required or will be allowed.	

Warranty Information

Claim Type:	Recall
Modification	D18R5
Cause Code:	A1-Campaign
Primary Failed Part:	DDC Reprogram1
Labor Code:	996-R185B
	Inspection Only
Labor:	0.1 Hours
Labor Code:	996-R185C
	Reprogram MCM, ACM, CPC
Labor:	0.5 Hours
Labor Code:	996-R185D
	Reprogram MCM, ACM, CPC, and TCM
Labor:	0.7 Hours
Parts Return:	NONE

Please contact the Detroit™ Customer Support Center at 800-445-1980 or email csc@daimler.com if you have any questions.

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BULLETIN