

April 2021
D21R1

**Subject: Emission Recall GHG14 DETROIT™ DD13® with Two-Box Aftertreatment
Software Reprogramming**

Models Affected: GHG14 DD13 Engines

General Information

Daimler Trucks North America LLC, on behalf of its Detroit Powertrain Division, is initiating Emission Recall D21R1 to modify the vehicles mentioned above.

Certain Detroit Model Year 2013 to 2015 GHG14 DD13® engines that are registered in California will require reprogramming to a **minimum** of the MCM software version and fuel map version listed below:

- MCM Software Version 4.7.0.0 ZGS 005

Compatible Software:

- ACM Software Version 5.57.0.0 ZGS 004
- CPC Software Version X34_02_000A or R34_00_000A
- For DT12 equipped vehicles, TCM software version NAMT070700, NAMT076100, or NAMT076200

Updated programming became available January 2020 for GHG14 DD13® powered vehicles with Two-Box Aftertreatment, manufactured in 2013, 2014, and 2015. These GHG14 DD13® powered vehicles need to have the MCM reprogrammed. The ACM, CPC, and TCM (if equipped) may need reprogramming for compatibility.

The new fuel map was developed to reduce base NOx emissions for GHG14 DD13® Two-Box Aftertreatment system applications.

The California Air Resource Board (CARB) and the Environment Protection Agency (EPA) regulations require that software and fuel maps meet certification criteria. Reprogramming the MCM corrects the fuel map to a certified version

There are approximately 10 engines affected by this Emission Recall.

Note that some engines may already be reprogrammed. These engines will be excluded from this Emission Recall, also the currently available software levels may be higher than the minimum levels shown above.

Work Instructions

Please refer to the attached work instructions. **Prior to performing the emission recall, check the vehicle for a completion sticker (Form WAR261).**

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Labor Allowance

Table 1 – Labor Allowance for D21R1

Procedure	Time Allowed (hours)	SRT Number	Corrective Action
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No Reprogramming Required	0.1 hours	996-R033A	06-Inspect
Reprogram MCM	0.3 Hours	996-R033B	12-Repair Recall/Campaign
Reprogram MCM/ACM	0.4 Hours	996- R033C	12-Repair Recall/Campaign
Reprogram MCM/ACM/CPC	0.5 Hours	996- R033D	12-Repair Recall/Campaign
Reprogram MCM/ACM/CPC/TCM	0.7 Hours	996- R033E	12-Repair Recall/Campaign

Claim Reimbursement

You will be reimbursed for your parts, labor, and handling (landed cost for Export Distributors) by submitting your claim through the Warranty system within 30 days of completing this recall. Please reference the following information in OWL.

Table 2 – Claim Reimbursement for D21R1

Claim Type	Field Service Campaign
Campaign	D21R1
Component Code	044-003-286
Cause Code	A1-Campaign
Primary Failed Part	DDC REPROGRAM1
Procedure A¹	
Use this procedure if programming was NOT REQUIRED.	
Labor Number	996-R033A No Reprogramming Required
Labor Hours	0.1 Hours
Part Number	DDC REPROGRAM1
Parts Return	NONE
Use one of the following procedures if programming was REQUIRED.	

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Procedure B¹	
Labor Number	996-R033B Reprogram MCM
Labor Hours	0.3 Hours
Part Number	DDC REPROGRAM1
Parts Return	NONE
Procedure C¹	
Labor Number	996-R033C Reprogram MCM, ACM
Labor Hours	0.4 Hours
Part Number	DDC REPROGRAM1
Parts Return	NONE
Procedure D¹	
Labor Number	996-R033D Reprogram MCM, ACM, CPC
Labor Hours	0.5 Hours
Part Number	DDC REPROGRAM1
Parts Return	NONE
Procedure E¹	
Labor Number	996-R033E Reprogram MCM, ACM, CPC,TCM
Labor Hours	0.7 Hours
Part Number	DDC REPROGRAM1
Parts Return	NONE

¹ Administrative time (SRT 939-6010A) for 0.3 hours is automatically added to the claim.

IMPORTANT: OWL must be viewed prior to beginning work to ensure the vehicle is involved and the campaign has not previously been completed.

All claims must be submitted within 30 days of the repair and within 30 days of the termination date of the campaign.

For questions, U.S. and Canadian dealers, contact the Warranty Campaigns Department via Web inquiry at DTNAConnect.com / WSC.

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Detroit Diesel Corporation
13400 Outer Drive, West
Detroit, Michigan 48239-4001
Telephone: 313-592-5000

Copy of Notice to Owners

Subject: Emission Recall D21R1 GHG14 DD13® Model Year 2013, 2014, and 2015 Software Reprogramming

This notice is sent to you in accordance with the requirements of California emission standards and regulations. Daimler Trucks North America LLC, has determined that some certified Model Year 2013, 2014, and 2015 GHG14 DD13 engines registered in California will require reprogramming to a **minimum** software and fuel map version.

Your vehicle or engine may be releasing air pollutants which exceed California standards. Failure to receive the repair may cause the vehicle to fail a vehicle inspection when such tests are required under state law. There is no adverse effect on the performance, fuel economy, or durability of the vehicle or engine from the repair.

The software and fuel maps were released for service beginning in January 2020.

Note that some trucks may already have been reprogrammed and will be excluded from this Recall. Records indicate that your vehicle has one of these affected engines which will require reprogramming software and fuel maps. The procedure will be completed at no cost to you when performed by an Authorized Detroit Diesel Repair Facility. The scheduled time for the software update is approximately **0.7 hours**.

Please contact a Detroit Diesel Authorized Repair Facility to arrange to have the Field Service Campaign performed. To locate an authorized facility, search online at <https://demanddetroit.com/find-a-dealer/>

Please understand that the California DMV (Department of Motor Vehicles) will reject vehicle registration renewals if this emission related recall has not been completed.

A Proof of Correction form will be provided to you by the service facility upon completion of the repair. Please retain it as it may be requested by the DMV in order to register your vehicle.

In order to ensure your full protection under the emission warranty provisions, it is recommended that you have your engine serviced as soon as possible. Failure to do so could be determined as a lack of proper maintenance of your engine.

If you do not own the vehicle that corresponds to the identification number(s), which appears on the Recall Notification card, please return the notification to the Warranty Department, Attention Campaign Coordinator, with any information you can furnish that will assist us in locating the present owner.

If you have paid to have this recall condition corrected prior to this notice, you may be eligible to receive reimbursement. Requests for reimbursement may include parts and labor. Reimbursement may be limited to the amount the repair would have cost if completed by a Detroit Authorized Repair Facility.

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Detroit Diesel Corporation
13400 Outer Drive, West
Detroit, Michigan 48239-4001
Telephone: 313-592-5000

The following documentation must be present to your dealer for consideration for reimbursement. Please provide original or clear copies of all receipts, invoices, and repair orders that show:

- The name and address of the person who paid for the repair.
- The Vehicle Identification Number (VIN) of the vehicle that was repaired.
- What problem occurred, what repair was done, when the repair was done.
- Who repaired the vehicle.
- The total cost of the repair expense that is being claimed.
- Proof of payment for the repair (such as the front and back of a cancelled check or a credit card receipt).

Reimbursement will be made by check from your Detroit Diesel dealer. Please speak with your Detroit Diesel authorized dealer concerning this matter.

For those customers who had this issue and paid for the service prior to this recall, they can send in their receipts to DDC for reimbursement consideration.

We regret any inconvenience this action may cause but feel certain you understand our interest in conforming to required regulations and environmental protection.

If you have any questions or need further information, please contact the Customer Support Center at (800) 445-1980.

DETROIT WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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Work Instructions

Subject: Emission Recall GHG14 Detroit™ DD13® with Two-Box Aftertreatment Software Reprogramming

Models Affected: GHG14 DD13 Engines

Corrective Procedure

1. Apply the parking brake, chock the wheels, and perform any other applicable safety steps.
2. You **MUST** use DiagnosticLink® Professional 8.13 with Service Pack 1 (*or higher*) when reprogramming.
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.
5. On the Identification screen, check the current MCM, ACM, CPC, and if applicable the TCM, software. Listed below are the **MINIMUM** levels required. See Figure 1 for an example of the Identification screen.
 - a) MCM software **4.7.0.0 with ZGS 005**
 - b) ACM software **5.57.0.0 with ZGS 004**
 - c) CPC software **R34 00 000A or X34 01 000A**
 - d) For DT12 equipped vehicles, TCM software **NAMT070700, NAMT076100, or NAMT076200**

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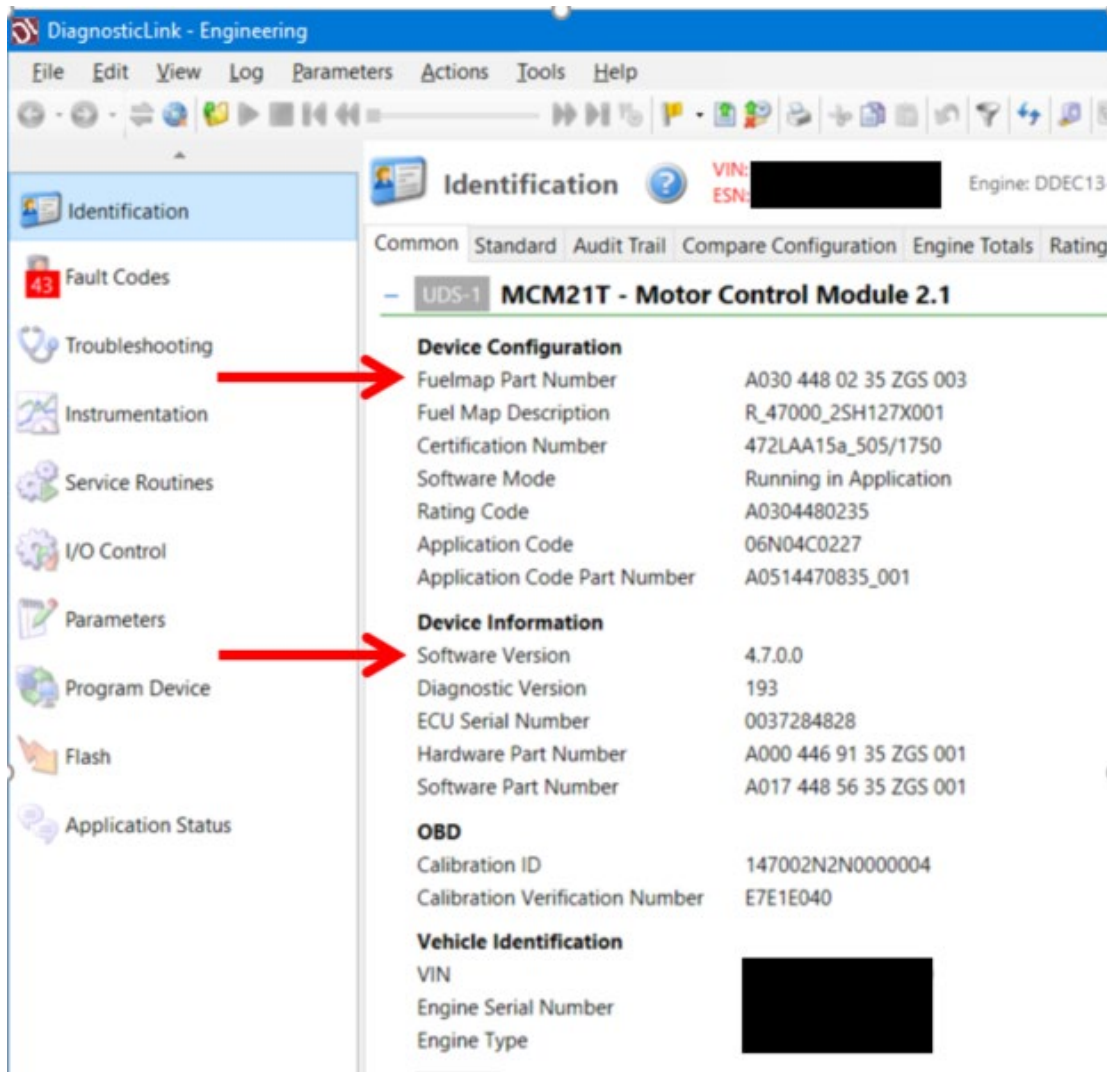


Figure 1 – DiagnosticLink® Identification Screen

6. Is the **software** level for all modules less than, equal to, or higher than the software levels listed in step 5? (For example in Figure 1, MCM software 4.7.0.0 with ZGS 003, is equal to required software of 4.7.0.0, but less than the required ZGS 005).
 - a) If less than the required software levels, proceed to step 7.
 - b) If equal to required software, but ZGS is less than 005, proceed to step 7.
 - c) If higher than the required software levels, no programming is necessary. Proceed to step 13.
7. Select the “Program Device” option along the left side of the DiagnosticLink® screen.
8. 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 2.

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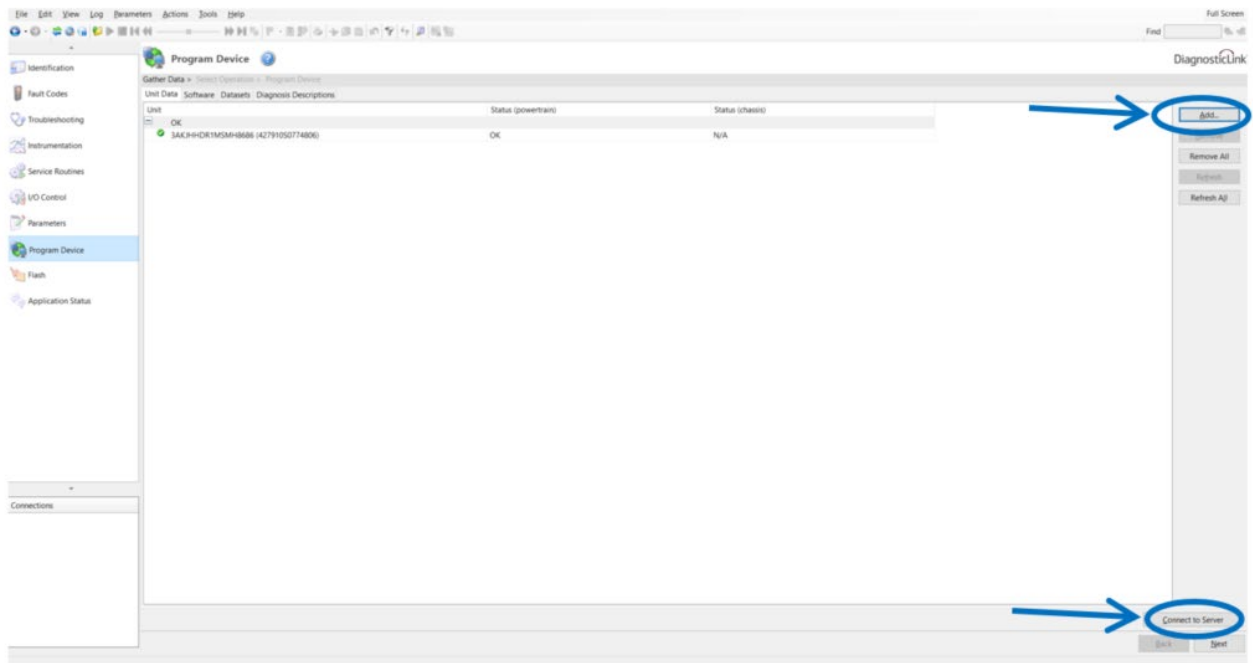


Figure 2 – Adding Engine Serial Number and Connecting To Server

9. 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 Campaign.
10. When programming is complete, click the “Finish” button and perform the following to allow the modules to synchronize with each other:
 - a) Disconnect the USB Link at the 9-pin vehicle diagnostic port
 - b) Turn the vehicle ignition OFF and wait one minute.
 - c) Turn the vehicle ignition ON and wait one minute.
 - d) Turn the vehicle ignition OFF and wait one minute.
 - e) Turn the vehicle ignition ON and wait one minute.
 - f) Reconnect the USB Link, reconnect DiagnosticLink® to the MCM, ACM, CPC, and if applicable the TCM, and confirm the proper software.
11. Update the server by clicking the “Connect to Server” button in the bottom right corner of the DiagnosticLink® screen.

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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Completion Stickers

- Upon completion of Emission Recall **D21R1**, clean a spot on the base label (Form WAR259), write the Emission Recall **D21R1** on a blank, black completion sticker (Form WAR261), and attach it to the base label.
- Label ordering info: [DTNAConnect](#) > Services and Reference > Publications & Warranty Supplies > Warranty

Vehicle Emission- Proof of Correction

A blank Copy of the Vehicle Emission – Proof of Correction is attached and must be completed by the repairing outlet and provided to the customer. Customer may need this at the time of vehicle registration renewal. **For this campaign, it is critical that the Proof of Correction form states: Emission Recall Number D21R1.**

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Vehicle Emission Recall - Proof of Correction

License Number	Make	Year Model	Body Type	Vehicle Identification Number
				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Manufacturer _____ Recall Number D21R1

The above described vehicle has been repaired, modified and/or equipped with new emission control devices to meet applicable California Emission Control Laws.

Dealer's _____ Address, City, State _____

Dealership's Authorized

X

Return this certificate to DMV only when required - otherwise retain for your records.