

FIELD SERVICE CAMPAIGN BULLETIN

Subject: **Field Service Campaign 18M1**
GHG14 Heavy Duty Engine Platform Vocational Application
Programming

Issue Involved

Detroit Diesel Corporation (DDC) has determined that some GHG14 Heavy Duty Engine Platform engines will require reprogramming to a **minimum** of the software and fuel map version listed below.

- MCM software 4.7.0.0 with fuel map version ZGS 003, except for three ratings that are ZGS 004:
 - o DD13 450/1450/1650 1-BOX™, fuel map P/N: A0294487935 ZGS 004
 - o DD15AT 455/1550/1750 1-BOX, fuel map P/N: A0304480035 ZGS 004
 - o DD15AT 400/1750 1-BOX, fuel map P/N: A0304480335 ZGS 004
- ACM software 5.57.0.0 with fuel map version ZGS 004
- CPC software R34_00_000A
- TCM software NAMT070700 (if equipped with a DT12™ transmission)

The software and fuel maps were released for service on October 17, 2016, after GHG14 vehicle production ended. Any GHG14 heavy duty engine platform engine running older software and fuel maps may need the modules reprogrammed. Note that some trucks may already have been reprogrammed and will be excluded from this campaign.

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

Reprogramming may prevent plugging of the Diesel Oxidation Catalyst (DOC), with some possible resulting fault codes noted below. Reference Technical Service letter 16 TS-23 for more information on DOC plugging.

- SPN: 3251, FMI: 0 - DPF Pressure Out of Range Very High
- SPN: 3251, FMI: 20 - DOC Inlet Pressure Sensor - Not Plausible
- SPN: 102, FMI: 18 - Intake Manifold Pressure Too Low
- SPN: 3556, FMI: 1 - Regen Temperature - Out of Range Low
- SPN: 3556, FMI: 18 - DOC Outlet Temp Low (Low Temp Regen).

There are approximately 12,154 engines affected by this Field Service Campaign.

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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	D471927	2013 2014 2015	March, 2012 to December, 2015	Vocational Applications
DD15	D472906 D472909	2013 2014 2015	March, 2012 to December, 2015	Vocational Applications
DD16	D473908	2013 2014 2015	March, 2012 to December, 2015	Vocational Applications

Owner Notification

Detroit Diesel will notify owners of equipment incorporating engines identified with this Field Service Campaign. A copy of the owner letter that will be used by Detroit Diesel is enclosed with this Field Service Campaign bulletin.

Distributor / Dealer Campaign Responsibility

Detroit Diesel repair facilities are to service all engines subject to this Field Service Campaign. Field Service Campaign 18M1 is to be performed at no charge to owners on all affected engines under the engine warranty or prior to March 31, 2019, under the provisions of this Field Service Campaign.

Please use the appropriate steps, noted below, for indicating that Field Service Campaign 18M1 has been completed.

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Daimler Trucks North America Vehicles

- Check the base label (**Form WAR259**) to see if **Field Service Campaign 18M1** has been completed. The base label is usually located on the passenger-side door about 30 cm (12 inches) below the door latch. If **Field Service Campaign 18M1** 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 **Field Service Campaign 18M1**, clean a spot on the base label (**Form WAR259**), write the Field Service Campaign Number (**18M1**) 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**.

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Parts Information

There are **no parts** required for this Field Service Campaign.

Corrective Procedure

1. Apply the parking brake, chock the wheels, and perform any other applicable safety steps.
2. You **MUST** use DiagnosticLink® Professional 8.06 with Service Pack 2 (*or higher*) when reprogramming. Note that the current version is DiagnosticLink 8.07. **REFERENCE** Detroit Customer Service Announcement letter 17 CSA-22 for more information on DiagnosticLink 8.07.

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, ACM, CPC, and if applicable the TCM, software and fuel map 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 **4.7.0.0 software** and fuel map version **ZGS 003**, except for three ratings that are ZGS 004:
 - i. DD13 450/1450/1650 1-box, fuel map P/N: A0294487935 ZGS 004
 - ii. DD15AT 455/1550/1750 1-box, fuel map P/N: A0304480035 ZGS 004
 - iii. DD15AT 400/1750 1-box, fuel map P/N: A0304480335 ZGS 004
 - b. ACM **5.57.0.0 software** and fuel map version **ZGS 004**
 - c. CPC **R34 00 000A software**
 - d. If applicable, TCM **NAMT070700 software**

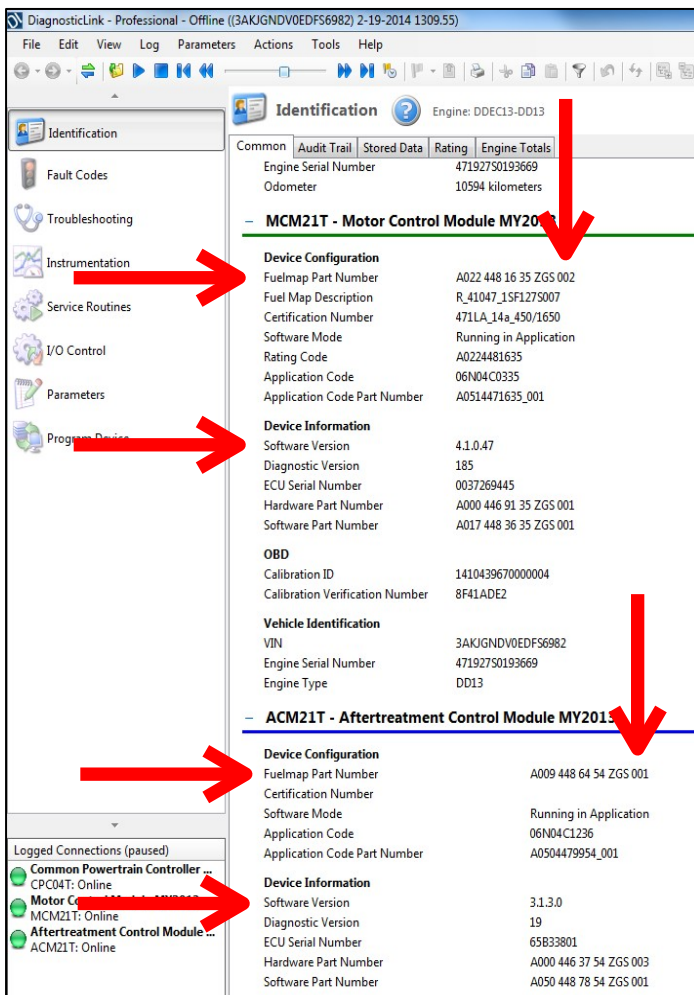


Figure 1 – DiagnosticLink® Identification Screen

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6. Is the software level for the MCM, ACM, CPC, and if applicable the TCM, 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 4.1.0.47 and ACM software 3.1.3.0 are both less than the minimum levels of 4.7.0.0 and 5.57.0.0, and thus would require programming, regardless of fuel map ZGS version.
 - a. If less than the minimum software levels, proceed to step 8.
 - b. If equal to the minimum software levels, proceed to step 7.
 - c. If greater than the minimum software levels, no programming is necessary. Proceed to step 13.

7. Is the fuel map ZGS version level for the MCM and ACM less than, equal to, or higher than the fuel map ZGS revision levels listed in step 5? The MCM and ACM fuel map ZGS version levels must meet the **MINIMUM** requirements. For example, in Figure 2, both the MCM and ACM software levels meet the minimum required of MCM 4.7.0.0 and ACM 5.57.0.0, but the fuel map ZGS version levels of MCM 002 and ACM 001 are less than the minimum levels of MCM 003 (except for three ratings that are 004) and ACM 004, and thus would require programming.
 - a. If less than the minimum fuel map ZGS version levels, proceed to step 8.
 - b. If equal to, or greater than, the minimum fuel map ZGS version levels, no programming is necessary. Proceed to step 13.

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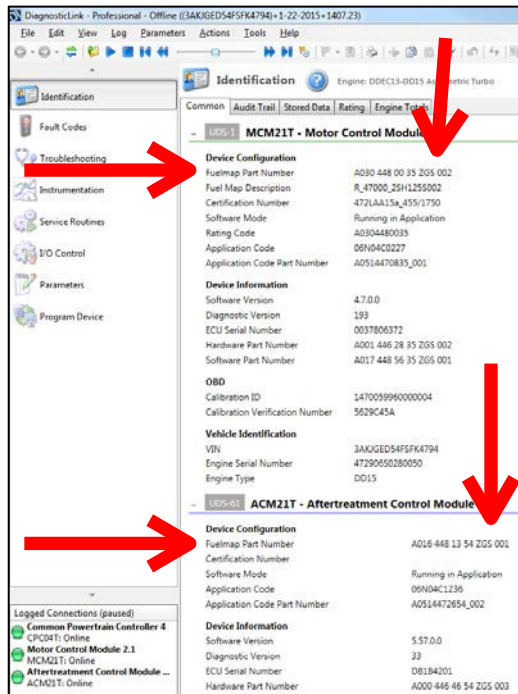


Figure 2 – DiagnosticLink® Identification Screen

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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.

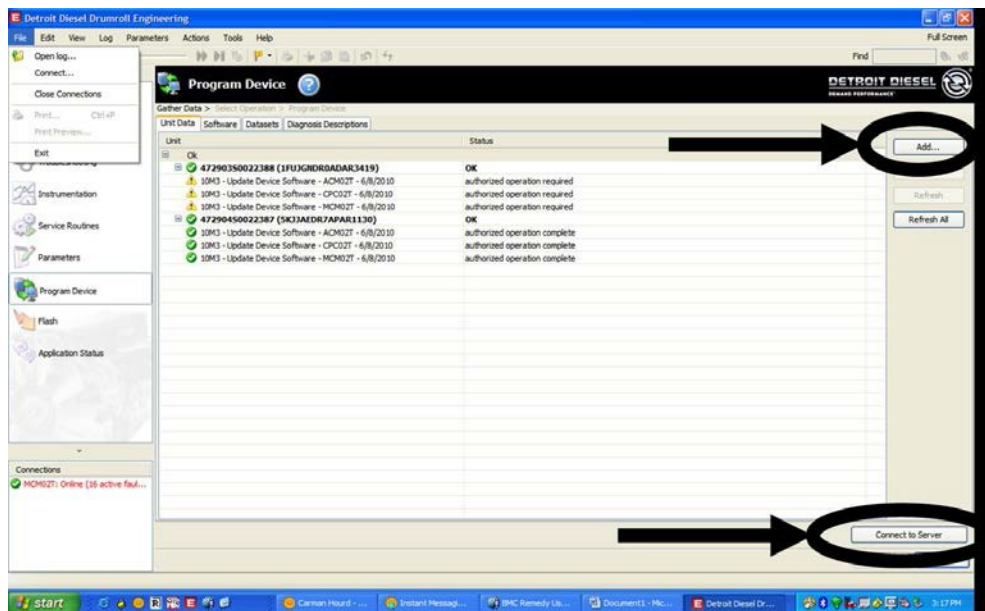


Figure 3 – Adding Engine Serial Number And Connecting To Server

10. Program the MCM, ACM, CPC, and if applicable, the TCM, based on the engine serial number listing included with this Field Service Campaign.
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.

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:	CAMPAIGN
Modification	D18M1
Cause Code:	A1-CAMPAIGN
Primary Failed Part:	DDC REPROGRAM1
Labor Code:	996-F181A
Labor:	Inspection Only
	0.1 Hours
Labor Code:	996-F181B Reprogram
Labor:	MCM, ACM, CPC
	0.5 Hours
Labor Code:	996-F181C Reprogram
Labor:	MCM, ACM, CPC, and TCM
	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