

February 2024
SF683A-B

Subject: Detroit Engine Fan HVAC Integration

Models Affected: Specific model years 2023-2024 Freightliner 114SD, and Business Class M2 vehicles, manufactured August 18, 2022, through July 31, 2023.

General Information

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF683 to modify the vehicles mentioned above.

On certain vehicles, the engine fan is not activating with A/C request or the A/C compressor runs continuously. The Central Gateway (CGW) module parameters will be updated, and some vehicles will also update the Single Signal Activation Module (SSAM) parameters.

There are approximately 650 vehicles involved in this campaign.

Additional Repairs

Dealers must complete all outstanding recall and field service campaigns prior to the sale or delivery of a vehicle. A dealer will be liable for any progressive damage that results from its failure to complete campaigns before sale or delivery of a vehicle.

Owners may be liable for any progressive damage that results from failure to complete campaigns within a reasonable time after receiving notification.

Please contact Warranty Campaigns for consideration of additional charges prior to performing the repair.

Work Instructions

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

Replacement Parts

No replacement parts are required for this repair.

Removed Parts

U.S. and Canadian Dealers, please follow Warranty Failed Parts Tracking shipping instructions for the disposition of all removed parts. Export distributors, please destroy removed parts unless otherwise advised.

Labor Allowance

Table 1 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
SF683A	Update the CGW and SSAM parameters	0.4	996-F207A	12-Repair Recall/Campaign
SF683B	Update the CGW parameter	0.3	996-F207B	12-Repair Recall/Campaign

Table 1

IMPORTANT: When the campaign has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the gray completion sticker provided in the field service kit (Form WAR261). If the vehicle does not have a base completion label, clean a spot on the appropriate location of the vehicle and first attach the base completion label (Form WAR259). If a field service kit is not required or there is no completion sticker in the kit, write the campaign number on a blank sticker and attach it to the base completion label.

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Claims for Credit

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 campaign. Please reference the following information in OWL:

- Claim type is **Field Service Campaign**.
- In the Campaign field, enter the campaign number and appropriate condition code (**SF683-A or SF683-B**).
- In the Primary Failed Part field, enter **25-SF683-000**.
- No replacement parts required.
- In the Labor section, enter the appropriate SRT from the Labor Allowance Table. Administrative time will be included automatically as SRT 939-6010A for 0.3 hours.
- The VMRS Component Code is **F99-999-005** and the Cause Code is **A1 - Campaign**.
- This Field Service Campaign will **terminate on February 28, 2025**. Dealers will be notified of any changes to the termination date via an Important Campaign Information Letter (ICI) posted on the DTNA Portal.

IMPORTANT: OWL must be viewed prior to beginning work to ensure the vehicle is involved and the campaign has not previously been completed. Also, check for a completion sticker before beginning work.

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 using the Warranty Support Center (WSC) app located on the DTNA Portal. Export distributors submit a WSC inquiry or contact your International Service Manager.

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Copy of Notice to Owners

Subject: Detroit Engine Fan HVAC Integration

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF683 to modify specific model years 2023-2024 Freightliner 114SD, and Business Class M2 vehicles, manufactured August 18, 2022, through July 31, 2023.

On certain vehicles, the engine fan is not activating with A/C request or the A/C compressor runs continuously.

The Central Gateway (CGW) module parameters will be updated, and some vehicles will also update the Single Signal Activation Module (SSAM) parameters.

Please contact an authorized DTNA dealer to arrange to have the campaign performed and to ensure that parts are available at the dealership. The campaign will take approximately one hour and will be performed **free of charge**. To locate an authorized dealer, search online at northamerica.daimlertruck.com/contact-us. Scroll down to "Locate a Dealer," and select the appropriate brand.

This Field Service Campaign will **terminate on February 28, 2025**. Please make sure the campaign is completed prior to this date. Work completed after this date will be done at the customer's expense.

As stated in the terms of your express limited warranty, DTNA will not pay for any damage caused by failure to properly maintain your vehicle. DTNA considers the work necessary under this campaign to be proper maintenance and will, therefore, not pay for any damage to your vehicle caused by your failure to have the repairs that are the subject of this campaign performed in a reasonable time.

Contact the Warranty Campaigns Department at (800) 547-0712, from 7 a.m. to 4 p.m. Pacific Time, Monday through Friday, e-mail address DTNA.Warranty.Campaigns@DaimlerTruck.com, or the Customer Assistance Center at (800) 385-4357, if you have any questions or need additional information.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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Work Instructions

Subject: Detroit Engine Fan HVAC Integration

Models Affected: Specific model years 2023-2024 Freightliner 114SD, and Business Class M2 vehicles, manufactured August 18, 2022, through July 31, 2023.

Updating the Heating, Ventilating, and Air Conditioning (HVAC) Fan Parameter

1. Check the base label (Form WAR259) for a completion sticker for SF683 (Form WAR261), indicating this work has been done. The base label is usually located on the passenger-side door, about 12 inches (30 cm) below the door latch. If a completion sticker is present, no work is needed. If a completion sticker is not present, proceed to the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
3. Open DiagnosticLink® prior to connecting to the vehicle.

IMPORTANT: Make sure that DiagnosticLink is updated to the latest version (8.18 SP1 at the time of publication, or newer) before programming the vehicle. To update DiagnosticLink, from the menu bar, select 'Tools,' then select 'Update' from the dropdown menu.

4. Connect an RP1210B-compliant vehicle diagnostic adaptor to the diagnostic connector on the vehicle.
5. Connect the other end of the RP1210B-compliant vehicle diagnostic adaptor to the laptop.

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6. Ensure the 'Single SAM (SSAM02T)' and 'Central Gateway (CGW04T)' devices rollcall, and are visible in the 'Connections' panel, as shown in [Fig. 1](#).

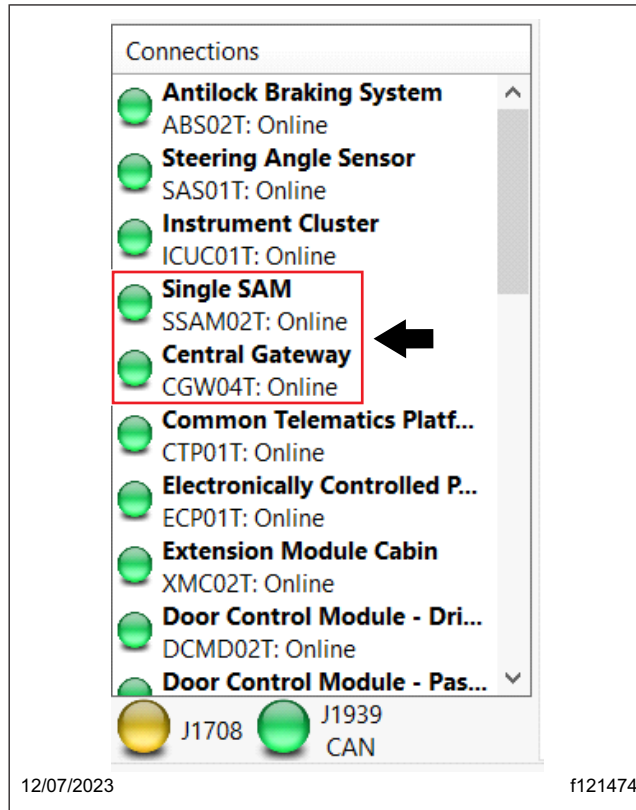


Fig. 1, SSAM02T and CGW04T Connected

7. Go to the 'Program Device' tab, and make sure that the vehicle identification number (VIN) that appears is correct.
 - If the VIN that appears is incorrect, remove each VIN by selecting the 'Remove' button on the right-hand side of that VIN. To remove all the VINs at once, select the 'Remove All' button at the bottom of the screen. See [Fig. 2](#).
 - If the VIN is not automatically detected, select 'Add request,' then enter the VIN in the designated field. Select the device to be connected, then select 'OK.' See [Fig. 3](#) and [Fig. 4](#).

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The screenshot shows the DiagnosticLink interface for a 2021 Freightliner New Cascadia 126 Day Cab 6 x 4 Truck-Tractor. The left sidebar contains navigation options: Identification, Fault Codes, Troubleshooting, Instrumentation, Service Routines, I/O Control, Parameters, Program Device (selected), Flash, and Application Status. The main content area is titled 'Program Device' and includes tabs for Unit, Software, Datasets, and Diagnostic descriptions. A 'Connected unit' button is in the top right. Below, 'Downloaded unit data' lists two units. The second unit, VIN 1F...R3N...Z75... - 2021 Freightliner New Cascadia 126 Sleeper Cab, has a warning icon and a message: 'Powertrain status: Current software adjusted to a compatible set and 1 device errors. User Requested hardware part number not valid (IPPC01T). Chassis status: OK'. A 'Remove' button is next to this unit, with a callout '1' pointing to it. At the bottom, there are buttons for 'Add request', 'Refresh All', 'Remove All' (with callout '2'), and 'Connect to server'. The date '07/13/2021' is at the bottom left and 'f121011' at the bottom right.

07/13/2021

1. 'Remove' Button

2. 'Remove All' Button

Fig. 2, Removing the VINs

The screenshot shows the DiagnosticLink interface for a 2017 Freightliner 1145SD 6 x 4 Truck. The left sidebar is the same as in Fig. 2. The main content area is titled 'Program Device' and includes tabs for Unit, Software, Datasets, and Diagnostic descriptions. A 'Connected unit' button is in the top right, with an upward-pointing arrow callout. Below, the text 'There is no information to display.' is shown. At the bottom, there are buttons for 'Add request' (with callout '1'), 'Refresh All', 'Remove All', and 'Connect to server'. The date '08/04/2021' is at the bottom left and 'f121012' at the bottom right.

08/04/2021

1. 'Add request' Button

Fig. 3, Add Request and Connected Unit Button

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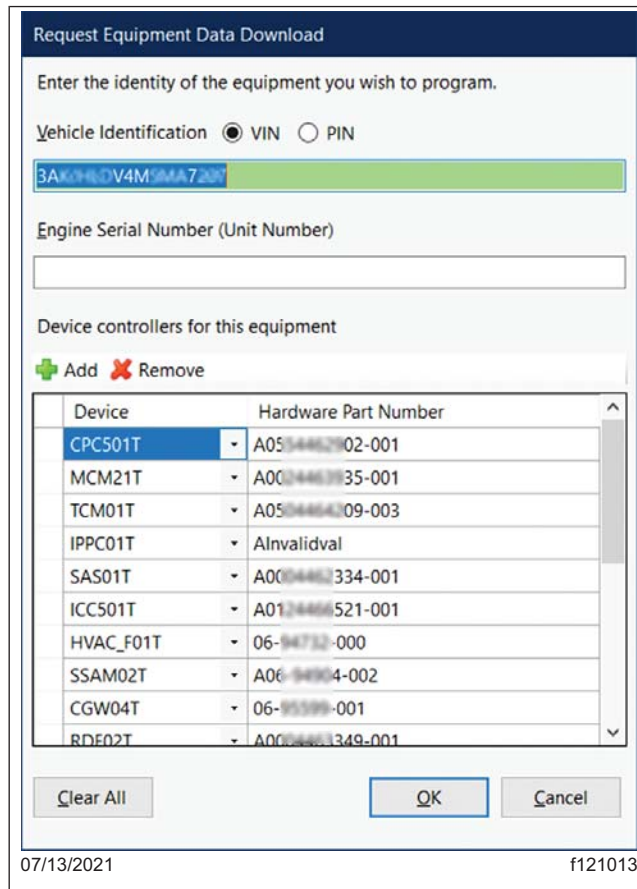


Fig. 4, Manually Connecting to DiagnosticLink

8. Select the 'Connected unit' panel, and make sure the VIN that now appears is correct.
9. Select 'Download data from server' at the bottom-left of the screen. See Fig. 5.

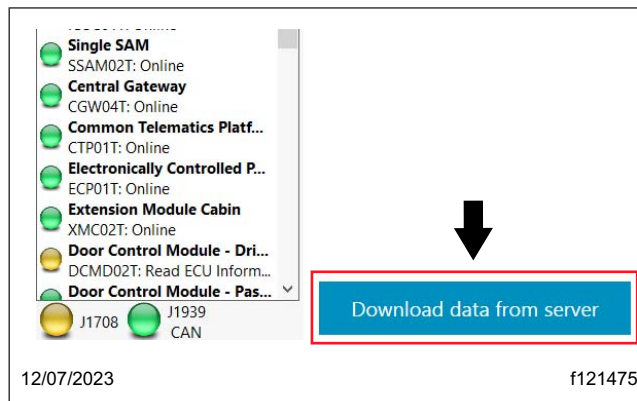


Fig. 5, Downloading the Data from the Server

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- Once the server data download is complete, go to the 'Parameters' tab. DiagnosticLink will read the parameters of the connected devices. Wait until the 'Reading parameters' bar indicates this process is complete. See **Fig. 6**.

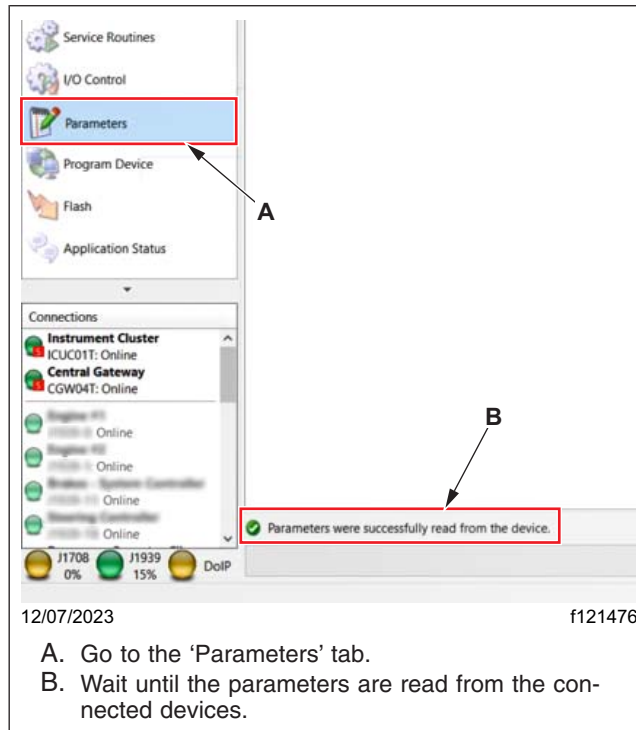


Fig. 6, Reading the Vehicle Parameters

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NOTE: In some vehicles, the CGW parameter 'A0504477327-001 Parm Routing: HVAC Fan Cabin to Chassis' may have already been updated to what is shown in step 11. If the parameter is updated already, the 'Send' button appears inactive, and it is not required to upload the parameter to the server.

11. Follow the substeps to set the CGW04T parameter. See [Fig. 7](#).
 - 11.1 Select and expand the 'CGW04T - Central Gateway' folder, then select the 'Parameterized Routing Table Cabin' sub-folder.
 - 11.2 Set the parameter value to 'A0504477327-001 Parm Routing: HVAC Fan Cabin to Chassis.'

Parameters for CTP01T, DCMD02T, DCMP02T cannot be edited because it was not possible to verify their Last Serviced data. Click here to open the Program Device view to download parameter changes.

Parameter	Part	Value	Units	Minimum
CGW04T - Central Gateway				
Monitor parameter ECU92	A0274475027-001	ECU 92: HVCR not installed		
Monitor parameter ECU93	A0304477427-002	ECU 94: MDD not installed_not monitored_DTNA		
Monitor parameter ECU94	A0464476427-002	ECU 95: MDP not installed_not monitored_DTNA		
Monitor parameter ECU95	n/a			
Monitor parameter ECU96	A0464476527-002	ECU 97: ICS not installed_not monitored_DTNA		
Monitor parameter ECU97	A0464476627-002	ECU 98: HUS not installed_not monitored_DTNA		
Monitor parameter ECU98	A0464476727-002	ECU 99: FNPD not installed_not monitored_DTNA		
Monitor parameter ECU99	n/a			
Parameterized Routing Table	n/a			
Parameterized Routing Table Cabin	n/a			
Parameterized Routing Table Chassis	A0294477727-001	A0584475027-001 Routing ASA2 14FF2121x Cabin to Exterior		
Parameterized Routing Table Diagnostic	n/a	A0504474927-001 Routing Cabin EIS_C05, VDHR_EIS		
Parameterized Routing Table Exterior	n/a	A0384475927-001 Routing S RO IC HVAC to Chassis		
Parameterized Routing Table J1939 500K	A0294474127-001	A0504477327-001 Parm Routing: HVAC Fan Cabin to Chassis		
SSR Allison Shift Panel	n/a	A0494476727-001 Routing for TCO China		
SSR Message Counter Evaluation	n/a			
Third Party PTO Engine RPM Control	n/a			
Third Party PTO Engine RPM Control2	n/a			
Transmission_Retarder	A0294476227-001	Transmission Retarder = 0_0_0_0_0		
VIN broadcast	A0274474627-001	Broadcast VIN Current:No		
CTP01T - Common Telematics Platform				
ECP01T - Electronically Controlled Pneumatics				
XMC02T - Extension Module Cabin				
DCMD02T - Door Control Module - Driver				
DCMP02T - Door Control Module - Passenger				

Parameters were successfully read from the device.

12/07/2023 f121477

- A. Select and expand the 'CGW04T - Central Gateway' folder.
- B. Select the 'Parameterized Routing Table Cabin' sub-folder.
- C. Set the parameter value to 'A0504477327-001 Parm Routing: HVAC Fan Cabin to Chassis.'

Fig. 7, Setting the CGW04T Parameter

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IMPORTANT: For vehicles in SF683A, one more parameter update is needed, continue with step 12. For vehicles in SF683B, skip step 12, and go to step 13.

NOTE: In some vehicles, the SSAM parameter 'A0294571658-007 FSC Logic Block 21 25 Default 007' may have already been updated to what is shown in step 12. If the parameter is updated already, the 'Send' button appears inactive, and it is not required to upload the parameter to the server.

12. Follow the substeps to set the SSAM02T parameter. See [Fig. 8](#).
 - 12.1 Select and expand the 'SSAM02T - Single SAM' folder, then select the 'FSC Logic Block 21_25' sub-folder.
 - 12.2 Set the parameter value to 'A0294571658-007 FSC Logic Block 21 25 Default 007.'

Parameters for CTP01T, DCMD02T, DCMP02T cannot be edited because it was not possible to verify their Last Serviced data. Click here to open the Program Device view to download parameter changes.

Parameter	Part	Value	Units	Minimum
SSAM02T - Single SAM				
FSC CAN Event Source				
FSC CAN Output Block 1_4	A0334473958-001	FSC CAN Output Block 1_4 - Default		
FSC DTC Output Block 1_10	A0334475258-001	FSC DTC Output Block 1_10 - Default		
FSC Flex Input Config	A0374578958-003	FSC Input Config - M2 Default -003		
FSC - HW Config	A0334474058-001	FSC HW Config - Default		
FSC Logic Block 1_5	A0334473458-002	FSC Logic Block 1 5 - Default		
FSC Logic Block 11_15	A0284573158-001	FSC Logic Block 11 15 43N LG2b		
FSC Logic Block 16_20	A0224434058-004	FSC Logic Block 16-20 43N -005		
FSC Logic Block 21_25	A0294571658-007	Block 21 25 Default 007	ult 007	
FSC Logic Block 26_30	A0384574358-004	A0294571658-003 FSC Logic Block 21 25 Default 001		
FSC Logic Block 31_35	n/a	A0294571658-001 Default Logic Block 21 25 M2		
FSC Logic Block 36_40	n/a	A0394575258-002 FSC Logic Block 21 25 Default GEN 9 ZGS 002		
FSC Logic Block 6_10	A0284573058-004	A0294571658-007 FSC Logic Block 21 25 Default 007		
FSC Output Pin Block 1_16	A0294571558-004	A0294571658-006 FSC Logic Block 21 25 Default 006		
FSC Service Output Block 1	n/a	A0394575258-001 FSC Logic Block 21 25 Default GEN 9		
FSC Service Output Block 2	A0294570858-002	A0294571658-004 FSC Logic Block 21 25 Default - 004		
FSC Service Output Block 3	A0284573258-001	A0294571658-005 FSC Logic Block 21 25 Default 005		
FSC Timer Block 1_20	A0294573558-002	A0294571658-002 FSC Logic Block 21 25 Default		
GPC - Continued	n/a	FSC Timer Block		
GPC - Continued 2	n/a			
GPC Global Parameter Control	n/a			
IBS Intelligent Battery Sensor	n/a			
ILC Ambience Light	n/a			
ILC Basic light function	n/a			
ILC Dome lamps	n/a			

Parameters were successfully read from the device.

12/07/2023 f121478

- A. Select and expand the 'SSAM02T - Single SAM' folder.
- B. Select the 'FSC Logic Block 21_25' sub-folder.
- C. Set the parameter value to 'A0294571658-007 FSC Logic Block 21 25 Default 007.'

Fig. 8, Setting the SSAM02T Parameter

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13. Select the 'Send' button to write the parameter changes to the vehicle. A window will open asking to confirm the parameter changes. Select 'OK.' See Fig. 9.

The screenshot shows the DiagnosticLink interface for a 2023 Freightliner M2 106 Medium Duty 4 x 4 Truck. The main window displays a list of parameters under 'CGW04T - Central Gateway'. A 'Confirm Parameter Send' dialog box is open, showing a table of parameter changes. Below the table, it states 'There is a total of 1 parameter changes.' and has 'Print...', 'OK', and 'Cancel' buttons. An arrow labeled 'B' points to the 'OK' button. At the bottom of the main window, a 'Send...' button is highlighted with a red box and an arrow labeled 'A'. The date '12/07/2023' is visible in the bottom left, and 'f121479' is in the bottom right.

Parameter	Part	Value	Original Part	Original Value	Unit
Parameterized Routing Table Cabin

There is a total of 1 parameter changes.

Print... OK Cancel

Send... Information

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A. Select the 'Send' button. B. Select 'OK' to confirm the parameter changes.

Fig. 9, Writing the Parameter Changes to the Vehicle

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- Once the parameter change is complete, go to the 'Program Device' tab, and verify there is a pending upload data visible under the 'Unit data for upload' panel, as shown in **Fig. 10**.
 - If there is a pending upload data → Select 'Connect to Server' to upload the parameter updates to the server.

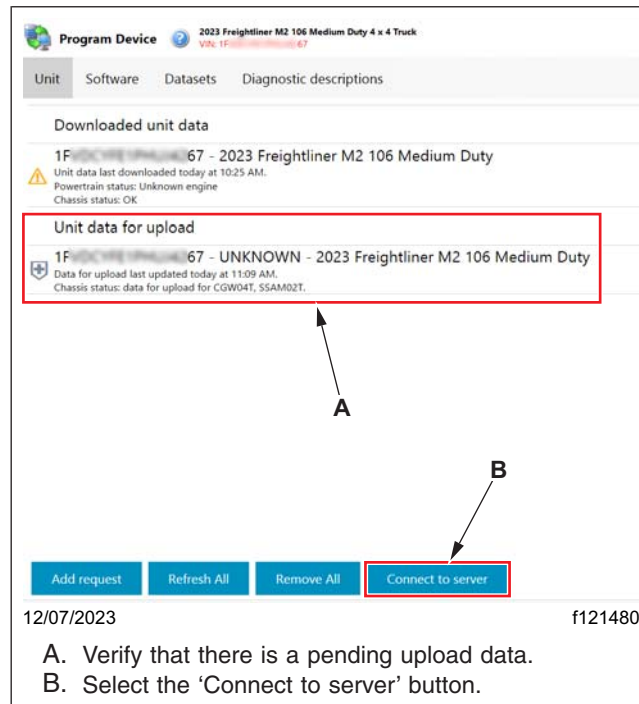


Fig. 10, Uploading the Parameter Updates to the Server

- If there is no pending upload data → Go to the 'Parameters' tab, and select the 'Refresh' button. Verify the parameter value is correctly set, as instructed in steps 11 and 12. Go to the 'Program Device' tab again, and make sure the pending upload data is visible under the 'Unit data for upload' panel. Select 'Connect to Server' to upload the parameter updates to the server.
- Once the parameter updates are uploaded to the server, disconnect the vehicle from DiagnosticLink.
 - Clean a spot on the base label (Form WAR259), and attach a campaign completion sticker for SF683 (Form WAR261), indicating this work has been completed.