Daimler Truck North America LLC

Field Service Campaign

March 2022
SF625A
Revised Notice v3

Subject: Freightliner Cascadia 3G to 4G Common Telematics Platform (CTP) Update

Models Affected: Specific model year 2017-2020 Freightliner Cascadia vehicles, manufactured September 14, 2016, through June 14, 2019.

Newest Revision: A screenshot of the DiagnosticLink image shown in Fig. 40, on page 31, with the message '**Activation OK**' must be kept on file with the repair order. The work instructions have been revised to account for this requirement starting with step 12, on page 31.

Previous Revision: A one-time purchase of new tools is required. A USB stick, with SF625 software already loaded, along with a USB stick-to-CTP adaptor harness that is On-the-Go (OTG) protocol compliant, now have part numbers available for purchase through the parts distribution center (PDC). These tools only need to be ordered once, as they will be reused for each SF625 repair. Refer to **Table 1**.

General Information

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF625A to modify the vehicles mentioned above.

The AT&T 3G network is being phased out beginning February 2022. 3G CTP will no longer be functional after the shutdown is complete.

The 3G CTPs will be updated with AT&T 4G hardware and software.

There are approximately 7,335 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 and Tools

A one-time purchase of new tools is required. A USB stick, with SF625 software already loaded, along with a USB stick-to-CTP adaptor harness that is On-the-Go (OTG) protocol compliant, now have part numbers available for purchase through the parts distribution center (PDC). These tools only need to be ordered once, as they will be reused for each SF625 repair. Refer to **Table 1**.

Replacement parts can be obtained by ordering the kit/part numbers listed in the table below from your facing PDC.

If our records show your dealership has ordered any vehicle(s) involved in campaign number SF625, a list of the customers and vehicle identification numbers will be available on **DTNAConnect**. Please refer to this list when ordering parts for this campaign.

Table 1 - Tools for SF625

Campaign Number	Tool	Tool Description	Qty.
SF625A	DDE DKICHA022003-1	USB STICK TO CTP ADAPTOR HARNESS	For Use On Multiple Vehicles
	DDE DKICHA022003-2	SF625 V1 USB STICK	For Use On Multiple Vehicles

Table 1

Table 2 - Replacement Parts for SF625

Campaign Number	Kit/Part Number	Part Description	Qty.
SF625A	A66-29671-000	AT&T UNITE EXPRESS 2 WI_FI HOTSPOT	1 ea
		WI_FI HOTSPOT BATTERY	
		BATTERY COVER	
		USB CHARGING CABLE FOR WI_FI HOTSPOT	
		VOITA 12v-5v DC CONVERTER	
	BUS BK/ATM 5	FUSE - MINI, 5AMP, MP280	1 ea
	WAR261	BLANK COMPLETION STICKER	1 ea

Table 2

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 3 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
SF625A	Install Wi-Fi Hotspot and Converter, Program CTP	1.7	996-F121A	12-Repair Recall/Campaign

Table 3

IMPORTANT - Before Beginning Work:

- Check OWL to ensure the vehicle is involved and the campaign has not previously been completed.
- Check the vehicle for a completion sticker.

IMPORTANT - After Repair is Complete:

- Attach a gray completion sticker (Form WAR261) to the base completion label (Form WAR259). If the vehicle does not already have a base completion label, clean a spot on the appropriate location of the vehicle, and attach a base completion label, prior to installing the completion sticker.

Claims for Credit

You will be reimbursed for your parts, labor, and handling (landed cost for Export Distributors) by submitting a claim. Please reference the following information in OWL:

- All claims must be submitted within 30 days of the repair date.
- Claim type is **Field Service Campaign**.
- In the Campaign field, enter the campaign number and appropriate condition code (**SF625-A**).
- In the Primary Failed Part field, enter **25-SF625-000**.

- In the Parts section, enter the appropriate kit and/or part number(s) as shown in **Table 2**. One or both tools may also be entered, if they were not already included on a previous claim, as they can be used for multiple vehicles.
- 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 December 19, 2022**. Dealers will be notified of any changes to the termination date via an Important Campaign Information Letter posted on **DTNAConnect.com.**

Excess Inventory: U.S. and Canadian dealers, following the conclusion of the campaign, within 90 days from the termination date, excess inventory in resalable condition may be returned to the appropriate PDC. U.S. dealers, submit a PAR to request return to the Memphis PDC. Canadian dealers, return inventory to your facing PDC. Export Distributors, excess inventory is not returnable.

For Support: Contact the Warranty Campaigns Department via the Warranty Support Center at **DTNAConnect.com/WSC**. Export distributors, submit a WSC ticket or contact your International Service Manager.

Copy of Original Notice to Owners

Subject: Freightliner Cascadia 3G to 4G Common Telematics Platform (CTP) Update

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF625A to modify specific model years 2017-2020 Freightliner Cascadia vehicles manufactured September 14, 2016, through June 14, 2019.

The AT&T 3G network will be shut down and no 3G CTP will be functional after the February 2022 planned shutdown date.

The 3G CTPs will be updated with AT&T 4G hardware and software.

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 two hours and will be performed at no charge to you. 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 December 19, 2022**. 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 1-800-547-0712, e-mail address DTNA.Warranty.Campaigns@Daimlertruck.com, or the Customer Assistance Center at 1-800-385-4357, 6:00 am to 3:30 pm Pacific time, Monday through Friday, if you have any questions or need additional information.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

Work Instructions

Subject: Freightliner Cascadia 3G to 4G Common Telematics Platform (CTP) Update

Models Affected: Specific model year 2017-2020 Freightliner Cascadia vehicles, manufactured September 14, 2016, through June 14, 2019.

Newest Revision: A screenshot of the DiagnosticLink image shown in Fig. 40, on page 31, with the message '**Activation OK**' must be kept on file with the repair order. The work instructions have been revised to account for this requirement starting with step 12, on page 31.

Previous Revision: A one-time purchase of new tools is required. A USB stick, with SF625 software already loaded, along with a USB stick-to-CTP adaptor harness that is On-the-Go (OTG) protocol compliant, now have part numbers available for purchase through the parts distribution center (PDC). See **Fig. 1** and **Fig. 2**. The required tools are also listed in **Table 1,** on page 2. The USB Stick and the adaptor harness only need to be ordered once, as they will be reused for each SF625 repair.



08/29/2022 f547962

Fig. 1, USB Stick with SF625 V1 (DDE DKICHA022003-2)



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Fig. 2, USB to CTP Adaptor Harness (DDE DKICHA022003-1)

CTP01T Software Update

1. Check the base label (Form WAR259) for a completion sticker for SF625 (Form WAR261) indicating this work has been done. The base label is usually located on the passenger door about 12 inches (30 cm) below the door latch. If a sticker is present, no work is needed. If there is no sticker, proceed with the next step.
2. Make sure the ignition key and battery cut-off switch (if equipped) are in the ON position.

IMPORTANT: Do not turn the ignition or the battery cut-off switch OFF until the software installation is complete.

3. Connect the Nexiq USBLink™ 2 box to the diagnostic connector on the vehicle.
4. Connect the Nexiq USBLink 2 box to the laptop.

5. Open DiagnosticLink®.

IMPORTANT: Make sure that DiagnosticLink is updated to the latest version (8.15 SP1 at the time of publication, or newer) before programming the vehicle. To verify, go to 'Help,' then select 'About.' See **Fig. 3** and **Fig. 4**.

To reduce the possibility of disruption during programming, make sure DiagnosticLink is connected to CTP01T only.

6. If other modules are already connected in the 'Connections' window, select 'Close Connections' to remove all connected devices.

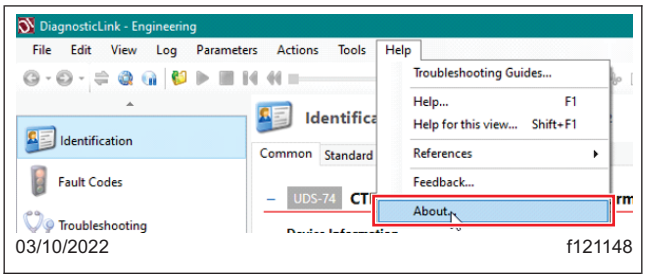


Fig. 3, Opening the About DiagnosticLink Professional Window

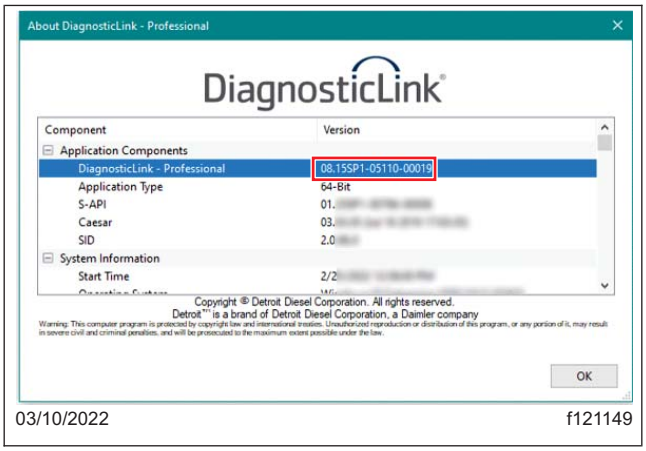
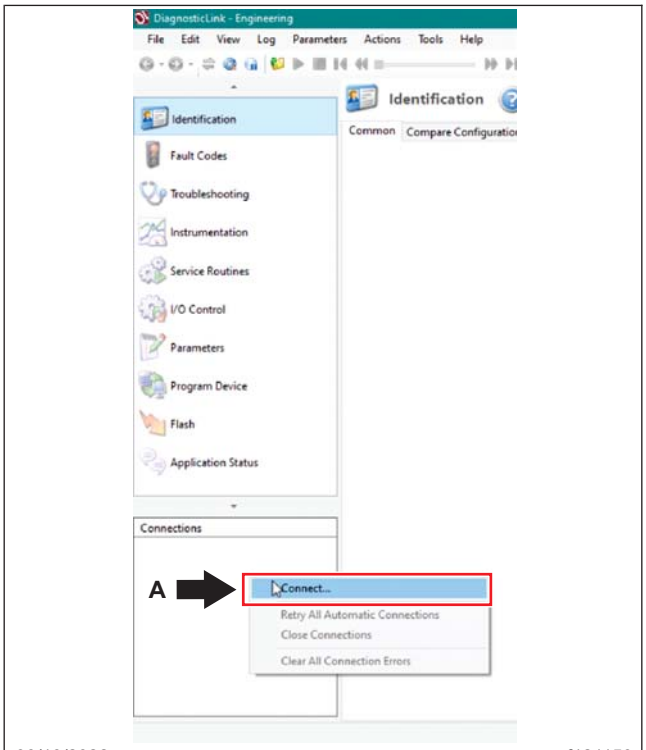


Fig. 4, DiagnosticLink Application Version

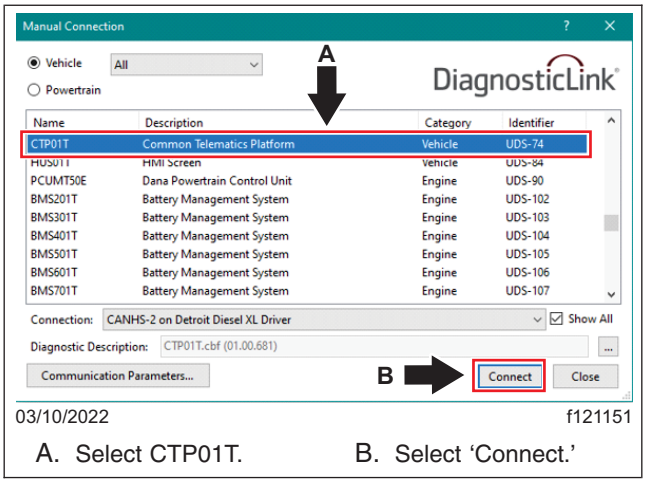
7. In the ‘Connections’ window, right click, and select ‘Connect.’ See **Fig. 5**.



A. Right click in the ‘Connections’ window, then select ‘Connect.’

Fig. 5, Establishing Manual Connection

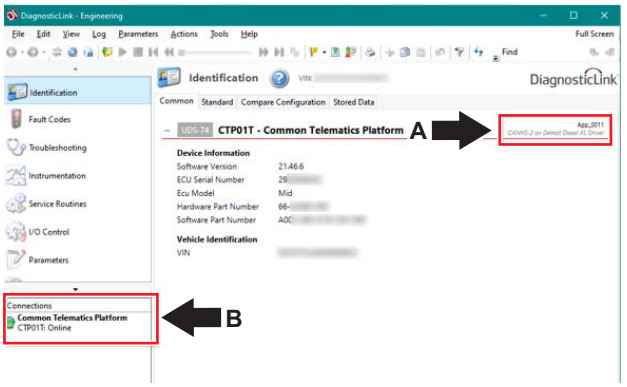
8. In the ‘Manual Connection’ window that appears, select ‘CTP01T,’ then select the ‘Connect’ button. Wait until the CTP01T connection turns green. See **Fig. 6**.



A. Select CTP01T. B. Select ‘Connect.’

Fig. 6, Manual Connection Window

9. After a successful connection to CTP01T, make sure the diagnostic application variant appears in the upper right corner, and starts with ‘App_.’ See **Fig. 7**. If the diagnostic application variant starting with ‘App_’ is not present, close the CTP01T connection and repeat the previous step.



A. Diagnostic application variant shown here.
B. CTP01T connected and online.

Fig. 7, Diagnostic Application Variant

10. Go to ‘Action,’ ‘Telematics,’ then select ‘CTP USB Stick Flashing.’ See **Fig. 8**.

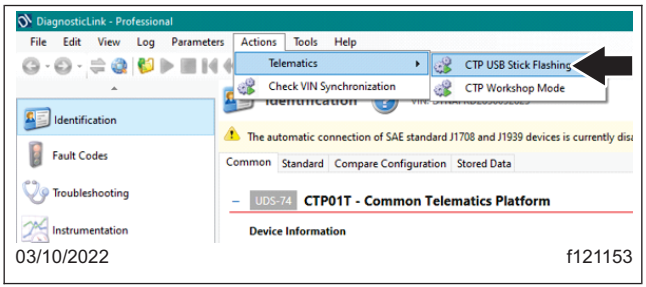
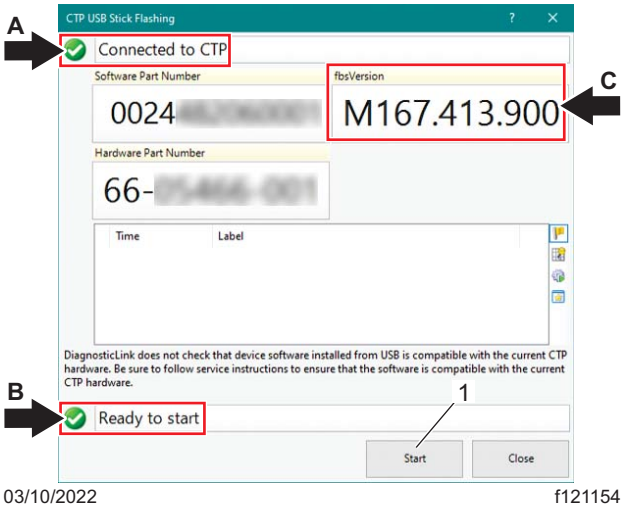


Fig. 8, Opening CTP USB Stick Flashing Window

11. In the ‘CTP USB Stick Flashing’ window that appears, verify that a green dot appears beside ‘Connected to CTP’ on the top, a green dot appears beside ‘Ready to start’ at the bottom, and the fbs version is M167.413.900. See **Fig. 9**.



A. Confirm green dot and ‘Connected to CTP’ appears.
B. Confirm green dot and ‘Ready to start’ appears.
C. Confirm the ‘fbsVersion’ is M167.413.900.

Fig. 9, CTP USB Stick Flashing Window

- If the green dot beside ‘Connected to CTP’ on the top, and the green dot beside ‘Ready to start’ at the bottom do not appear, disconnect the CTP01T, close and restart DiagnosticLink program. Repeat steps 6 through 11. If the issue still persists after a second attempt, contact Daimler Truck Technical Support at 1-855-253-0422, option 4, (5:00 A.M. to 4:00 P.M. Pacific time, Monday through Friday). If you do not receive an immediate response, submit a WSC ticket to the warranty campaigns group.
- If the ‘fbsVersion’ is at M167.600.900, the CTP is already at the correct software version and no software update is required. Proceed to **Unite Express 2 (UE2) Wi-Fi Hotspot Setup and DC Converter Installation, on page 14**.
- If neither ‘fbsVersion’ M167.600.900 or M167.413.900 is present, contact Daimler Truck Technical Support at 1-855-253-0422, option 4, (5:00 A.M. to 4:00 P.M. Pacific time, Monday through Friday).

12. Remove the electronics bay cover and the passenger-side lower dash cover. For instructions, see **Group 60** of the applicable workshop manual.

NOTICE

Make sure that the cab floor is clear of debris and tools. If the VPDM is lowered on to debris, especially metal objects, it could permanently damage the VPDM.

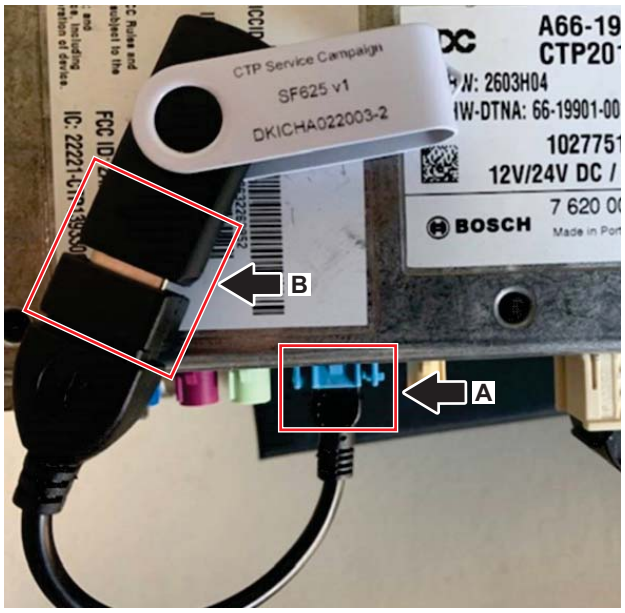
IMPORTANT: The VPDM is positioned on the mounting tabs to assist with retaining the VPDM in position while mounting fasteners are removed. Care should be taken so the VPDM does not fall to the floor after all four mounting fasteners have been removed.

13. Remove the four VPDM mounting fasteners, then gently lower the VPDM on to the cab floor. See **Fig. 10**.



Fig. 10, Lowering the VPDM to the Cab Floor

14. Locate the CTP on the upper shelf in the electronics bay. Using a USB mini to USB A adaptor, connect the USB drive containing the SF625 software to the CTP at the large blue USB mini connector. See **Fig. 11**. Some vehicles may already have a harness connected at the large blue CTP connector, which must be disconnected for this procedure. Make sure the USB adaptor and the USB stick are completely inserted.



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A. Connect the USB mini end of the USB adaptor to the CTP ECU USB connector.
B. Connect the USB drive that contains the SF625 software to the USB A female connector of the USB adaptor.

Fig. 11, USB Drive Connected to the CTP

IMPORTANT: In order to minimize the possibility of disruptions during the CTP flashing procedure:

- The USB flash drive and the mini USB adaptor must remain fully connected to the CTP.
- Vehicle power and ignition should remain ON.
- Laptop must not be unplugged from the vehicle.
- Laptop must not be allowed to go to sleep.
- Laptop must not be used for any purpose other than flashing the CTP.

15. After the USB drive and adaptor are connected to the CTP, select the ‘Start’ button in the ‘CTP USB Stick Flashing’ window to begin the flashing process. Make a note of the time when the flashing process starts.

NOTE: The flashing process is automated and requires no interaction with the panel throughout the process. The CTP will shut down and go offline before installing the update. The message ‘Waiting for CTP to Reset’ will now appear and remain at the bottom of the ‘CTP USB Stick Flashing’ window while the CTP is offline for approximately 30 minutes until the new software is installed and activated. The message ‘Flashing Complete’ may also appear at the bottom of the ‘CTP USB Stick Flashing’ window. See **Fig. 12** and **Fig. 13**.

16. Approximately 30 minutes after starting the CTP USB stick flashing process, or after the ‘Flashing Complete’ message is displayed, close the ‘CTP USB Stick Flashing’ window, then connect the DiagnosticLink to CTP01T. See steps 5 through 8.

    If the CTP01T does not connect, the software update may still be in progress and may not respond. Wait for an additional 10 minutes between attempting to connect with CTP01T. If CTP01T still does not connect to DiagnosticLink even after 50 minutes from the start time noted in step 15, follow the substeps below.

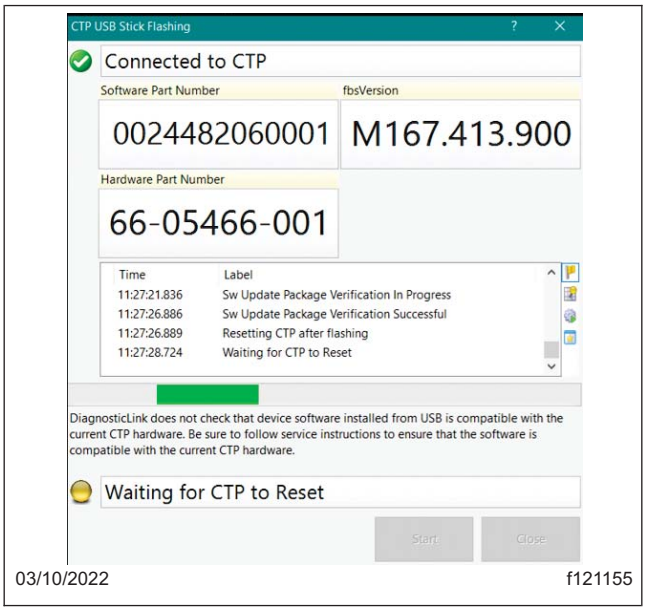


Fig. 12, Waiting for CTP to Reset Status Message

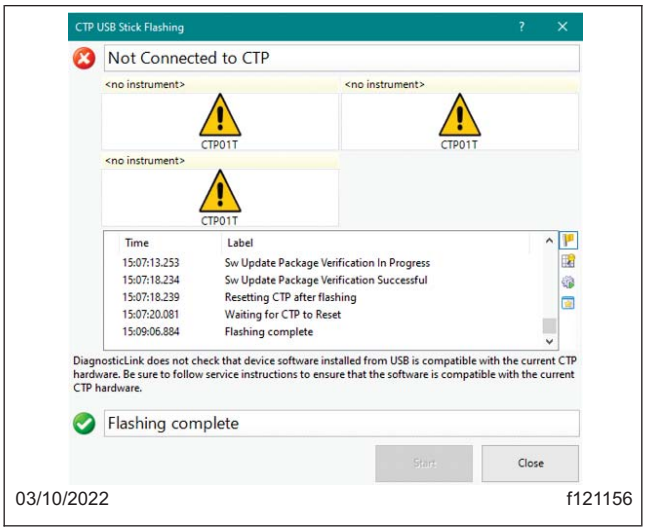


Fig. 13, Flashing Complete Status Message

16.1 Close and restart DiagnosticLink.

16.2 Turn OFF the ignition switch.

16.3 Turn OFF the cab load disconnect switch (CLDS), if so equipped.

16.4 Wait seven minutes, then turn ON the CLDS, if so equipped. Turn ON the ignition switch.

16.5 Connect the CTP01T to DiagnosticLink.

16.6 If no connection can be made to the CTP01T, contact Daimler Truck Technical Support at 1-855-253-0422, option 4 (5:00 A.M. to 4:00 P.M. Pacific time, Monday through Friday).

17. Once the CTP01T connection turns green and online in the ‘Connections’ window, go to ‘Identification,’ ‘Common’, and verify ‘Software Version’ is ‘21.46.6’ under ‘Device Information.’ See **Fig. 14**.

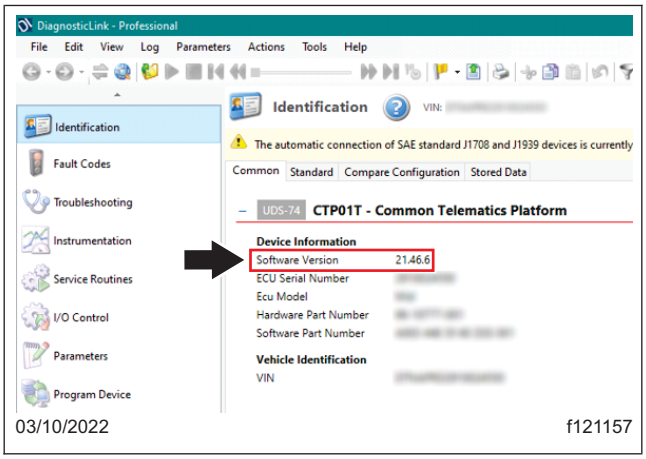


Fig. 14, Verifying CTP Software Version

18. Go to ‘Identification,’ ‘Stored Data’ and verify ‘FBS Sw Version’ is ‘167.600.900.’ If either ‘Software Version’ or ‘FBS Sw Version’ do not match the above versions, disconnect the CTP01T and connect again. See **Fig. 15**.

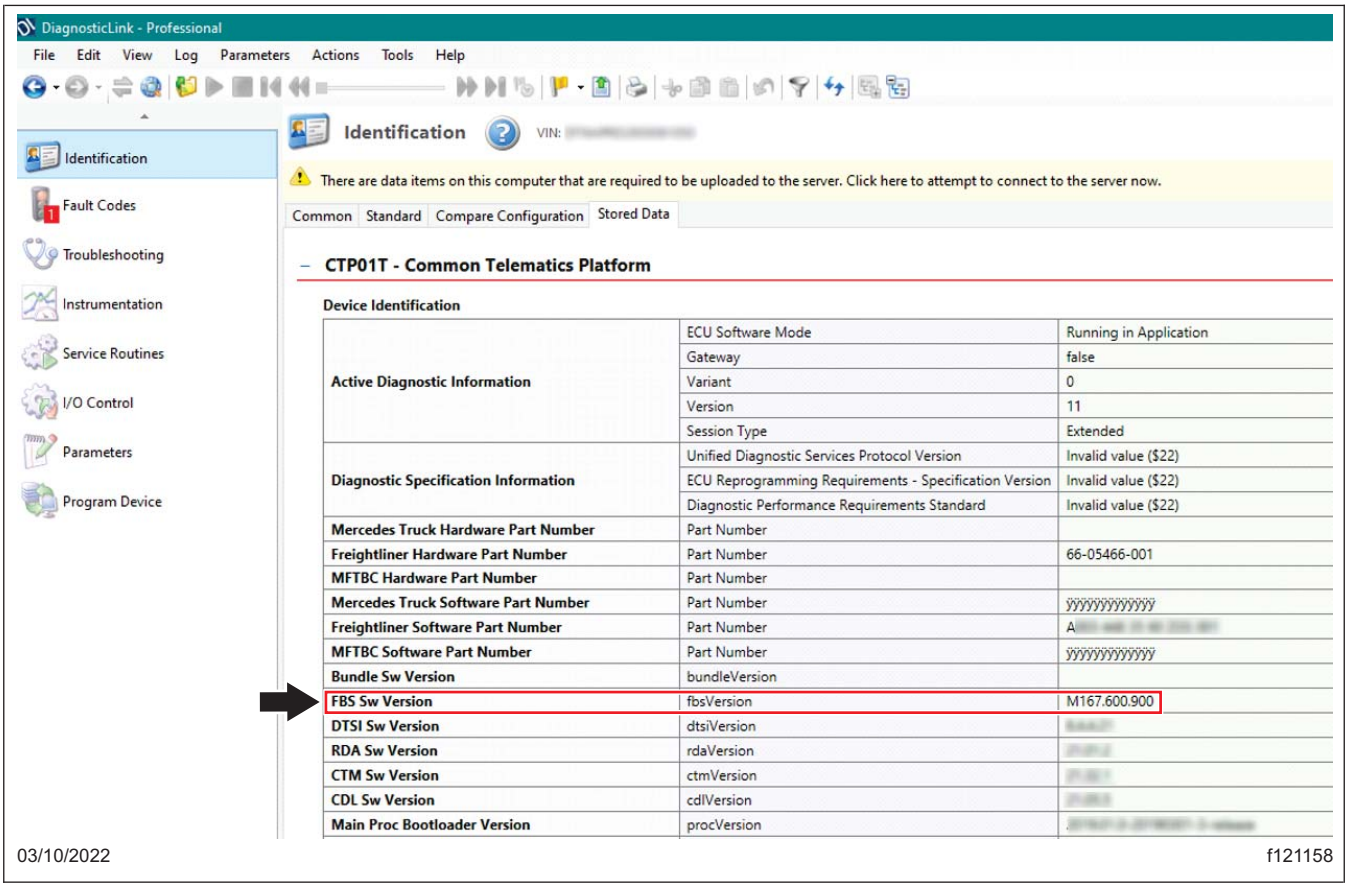
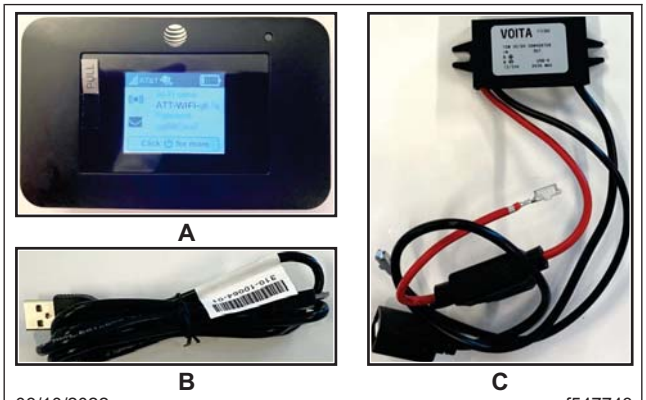


Fig. 15, Verifying FBS Version

19. Close DiagnosticLink and disconnect from the vehicle.

Unite Express 2 (UE2) Wi-Fi Hotspot Setup and DC Converter Installation

1. From the SF625 parts kit, open the 'AT&T Unite Express 2' box, and identify the following components which will be used to set up a Wi-Fi hotspot in the vehicle. See **Fig. 16**.
   - UE2 Wi-Fi hotspot device
   - USB charging cable
   - Voita 12v to 5v DC converter

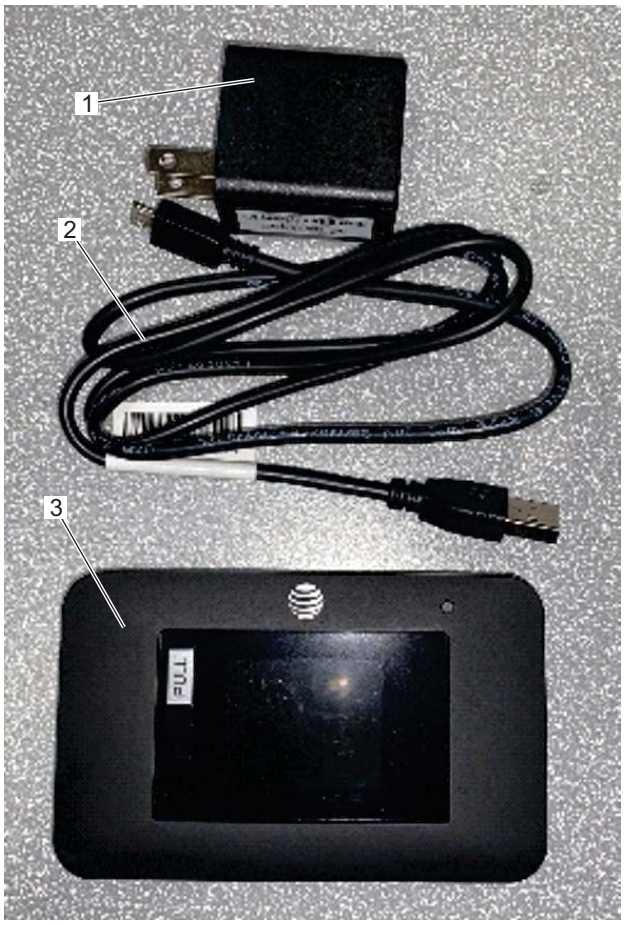


A. UE2 Wi-Fi hotspot device with SIM card, battery and back cover installed.
B. USB charging cable that connects the UE2 hotspot to the DC converter.
C. Voita 12v to 5v DC converter.

Fig. 16, Units Ready to be Installed in the Vehicle

IMPORTANT: If the UE2 hotspot device battery is low, the device may not turn on after 10 seconds of pressing the button. Use the 110 volts wall plug adaptor and USB charging cable to charge the UE2 hotspot device enough to make notes, or take a picture of the Wi-Fi name and password for later use. See **Fig. 17**.

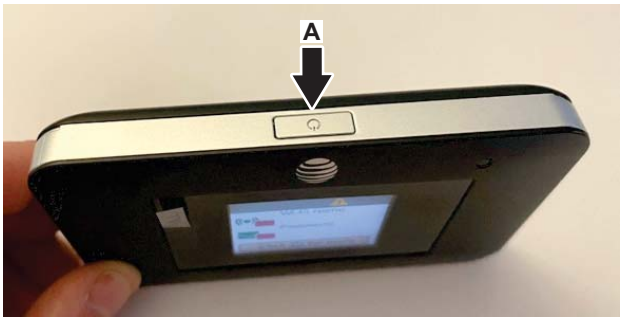
2. To turn on the UE2 Wi-Fi hotspot device, press and hold the power button for up to 10 seconds. The blue status indicator light should start blinking. Within two minutes, the hotspot device screen should turn on. See **Fig. 18**.



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1. Wall Plug Adaptor
2. USB Charging Cable
3. UE2 Wi-Fi Hotspot Device

Fig. 17, UE2 Wi-Fi Hotspot Device Wall Charger Setup



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A. Press and hold the power button to start the UE2 hotspot device.

Fig. 18, UE2 Wi-Fi Hotspot Device Power Button



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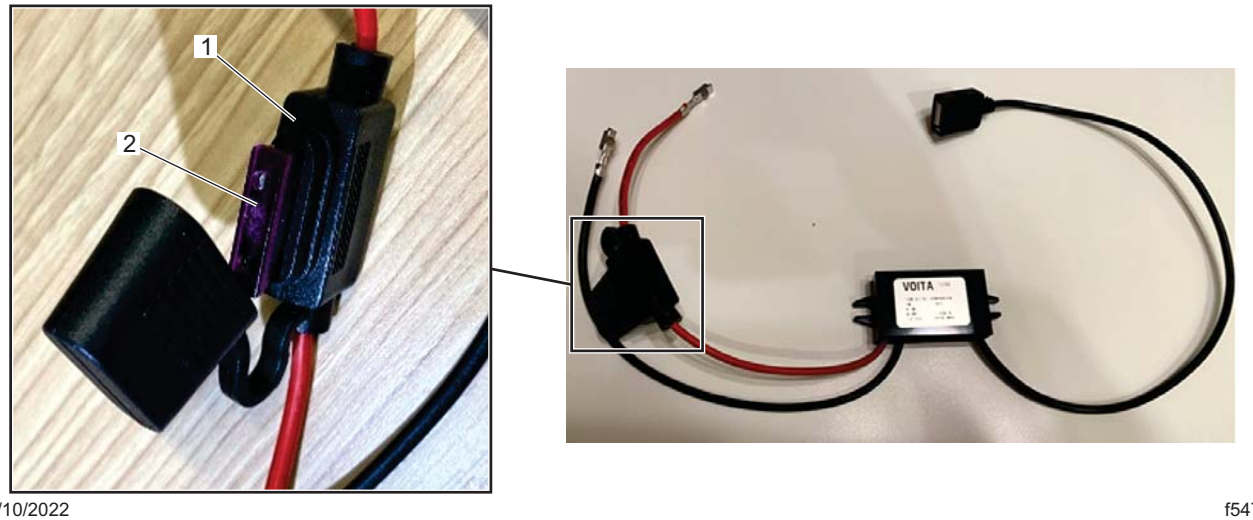
1. Wi-Fi Name
2. Password

Fig. 19, Wi-Fi Name and Password Displayed on the Screen

NOTE: When turned on, the UE2 hotspot device will display the Wi-Fi name and password on the screen. See **Fig. 19**. The information on this screen will be later used in the 'CTP 3G Sundown panel' window.

Some Wi-Fi hotspot devices have a Wi-Fi name that does not fit on one line, and the text on the hotspot screen will need to wrap to the next line in order to show the full name.

3. Open the fuse cover on the Voita 12v to 5v DC converter, and verify that a 3-amp mini fuse is installed. If not already installed, install a 3-amp mini fuse into the fuse housing. See **Fig. 20**.



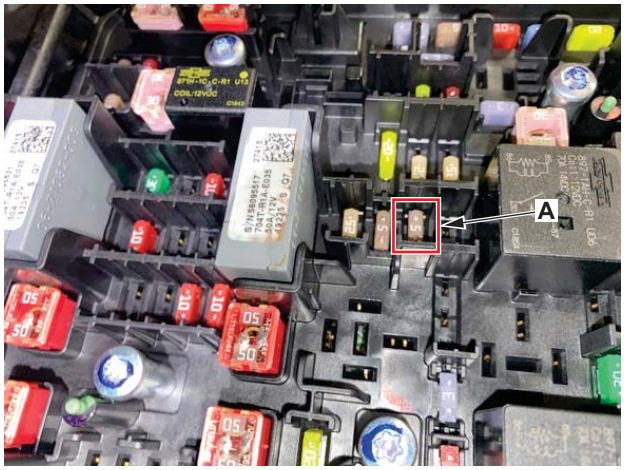
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1. Fuse Box
2. Fuse, 3-Amps

Fig. 20, Voita 12 Volts to 5 Volts DC Converter

4. If not already removed, remove the electronics bay cover and the passenger-side lower dash cover. For instructions, see **Group 60** of the applicable workshop manual.
5. Open the vehicle power distribution module (VPDM) front cover.

6. Locate the fuse location F68 in the VPDM. Verify that a 5-amp mini fuse is installed in the VPDM location F68. See **Fig. 21**.



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A. 5-amp fuse installed in fuse location F68.

Fig. 21, Fuse Location F68 in the VPDM

6.1 If there is no fuse installed, install a new 5-amp fuse into the F68 fuse location.

6.2 If a fuse of ampere value less than 5-amps is installed, remove the fuse using the white plastic fuse pick located in the VPDM, then install a 5-amp fuse into the F68 fuse location.

NOTE: The connector captured screw is captive and will not come out of the VPDM housing completely. The screw must be fully loosened to detach the J6 connector.

7. Loosen the J6 connector captured screw in the VPDM. See **Fig. 22**.



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1. J6 Connector Captured Screw

Fig. 22, J6 Connector Captured Screw

NOTICE

Make sure that the cab floor is clear of debris and tools. If the VPDM is lowered on to debris, especially metal objects, it could permanently damage the VPDM.

IMPORTANT: The VPDM is positioned on the mounting tabs to assist with retaining the VPDM in position while mounting fasteners are removed. Care should be taken so the VPDM does not fall to the floor after all four mounting fasteners have been removed.

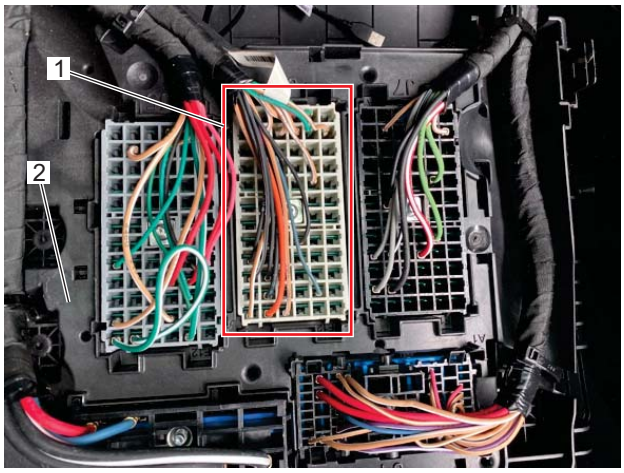
8. If not already removed, remove the four VPDM mounting fasteners, then gently lower the VPDM on to the cab floor. See **Fig. 23**.



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Fig. 23, Lowering the VPDM to the Cab Floor

9. Remove the VPDM back cover for access to the wiring and VPDM connector J6.
10. Remove the VPDM J6 connector from the VPDM. See **Fig. 24**.

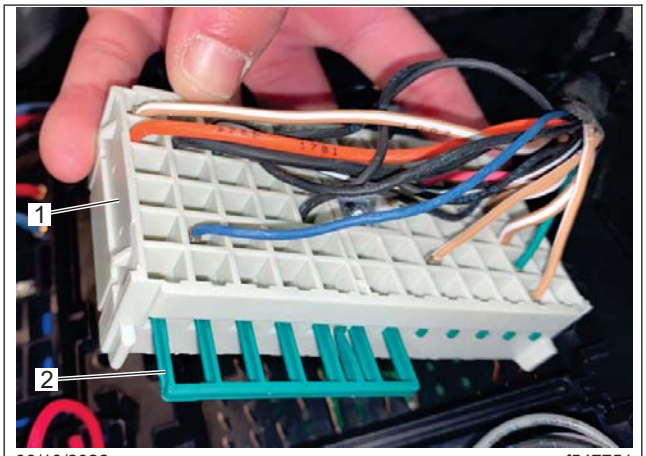


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1. J6 Connector
2. VPDM

Fig. 24, VPDM J6 Connector

11. Using a small screwdriver or similar tool, pull the green secondary lock for cavities 7 through 12 from the J6 connector. See **Fig. 25**.



1. J6 Connector
2. Green Secondary Lock

Fig. 25, J6 Connector Green Secondary Lock

12. Install the Voita 12v to 5v DC converter power and ground wires into the J6 connecter as follows.

    12.1 Insert the red (power) wire of the DC converter into the VPDM connector cavity J6-D12 until a click is heard or felt. See **Fig. 26**. If cavity J6-D12 is already in use by another wire, then install the red wire into cavity J6-D11. If both J6-D12 and J6-D11 cavities are occupied, contact Daimler Truck Technical Support at 1-855-253-0422, option 4 (5:00 A.M. to 4:00 P.M. Pacific time, Monday through Friday).

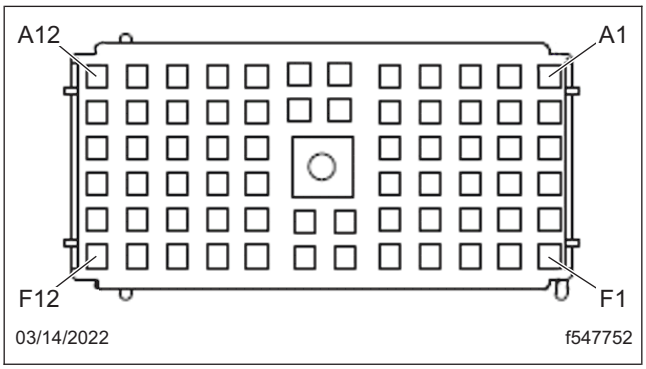
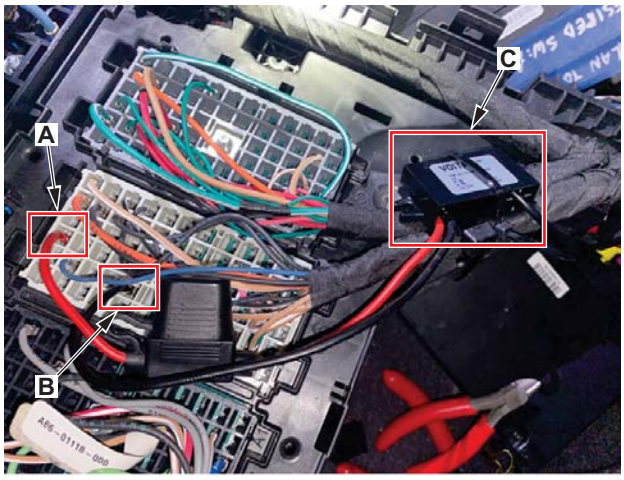


Fig. 26, J6 Connector Cavity Locations

    12.2 Insert the black (ground) wire of the DC converter into the VPDM connector cavity J6-E8 until a click is heard or felt. See **Fig. 26**. If cavity J6-E8 is already in use by another wire, then install the black wire into cavity J6-D8. If both J6-E8 and J6-D8 cavities are occupied, contact Daimler Truck Technical Support at 1-855-253-0422, option 4 (5:00 A.M. to 4:00 P.M. Pacific time, Monday through Friday).

13. Perform a gentle pull test to make sure the terminals are fully locked into the cavities.

14. Route the DC converter wires along the VPDM harness, then secure them with a tie strap. See **Fig. 27**.



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A. DC converter power (red) wire installed in the connector cavity J6-D12.
B. DC converter ground (black) wire installed in the connector cavity J6-E8.
C. DC converter secured to the VPDM wire harness with a tie strap.

Fig. 27, DC Converter Connected and Secured

15. Install the green secondary terminal lock into the VPDM J6 connector.
16. Install the J6 connector into the VPDM. Secure the J6 connector to the VPDM by tightening the center captured screw 35 to 53 lbf·in (395 to 599 N·cm). See **Fig. 22**.

17. Verify the J6 connector is fully seated into the VPDM by confirming the green indicator tab next to the captured screw extends outside the VPDM housing. See **Fig. 28**.



08/10/2016 f546495

A. When the green tab is recessed, the connector is not fully connected to the VPDM.
B. When the green tab is fully extended, the connector is properly installed.

Fig. 28, Tightening the Captured Screws

18. Install the VPDM back cover, route the DC converter USB power output cable out from the VPDM, along the lower harness, before closing and locking the VPDM back cover. Close and lock the VPDM cover. See **Fig. 29**.



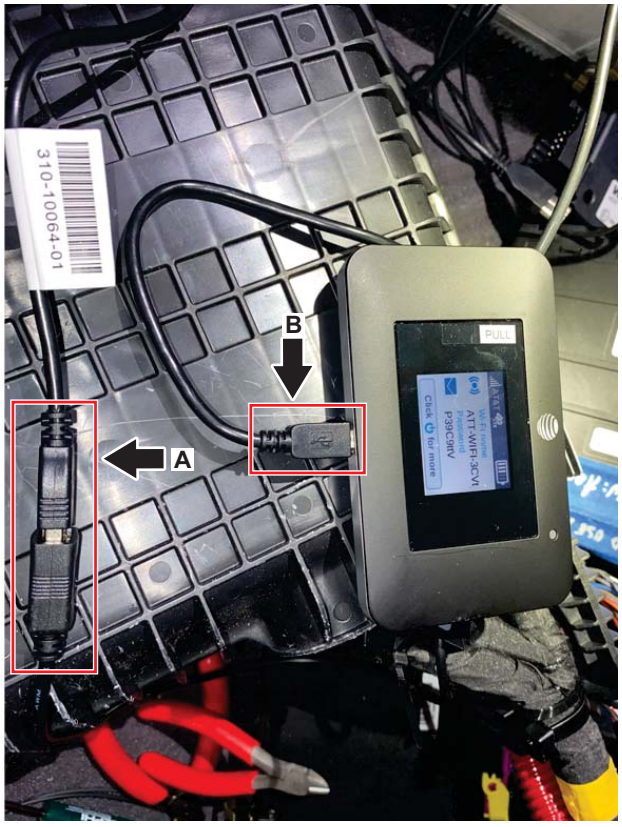
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A. USB power output cable routed out from the VPDM.
B. VPDM closed.

Fig. 29, USB Power Output Cable Routed Out from the VPDM

19. Turn the vehicle ignition switch to the ON position. If the vehicle is equipped with a battery cut-off switch, turn the cut-off switch ON.

20. Using the USB cable that is included in the SF625 kit, connect the UE2 Wi-Fi hotspot device to the Voita 12v to 5v DC convertor. See **Fig. 30**.



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A. Connect the USB power cable from the DC converter to the Wi-Fi hotspot USB cable.
B. Connect the Wi-Fi hotspot USB cable to the Wi-Fi hotspot.

Fig. 30, USB Charging Cable Connected to the UE2 Wi-Fi Hotspot Device

21. Verify the battery charge indicator in the upper-right side of the UE2 Wi-Fi hotspot device screen has a lightning bolt charging icon. See **Fig. 31**.

    If the UE2 Wi-Fi hotspot device's battery is completely drained, it may take 2 to 5 minutes for the hotspot to charge enough to turn on. Once the Wi-Fi hotspot device turns on, make sure the lightning bolt charging icon appears on the battery charge indicator in the upper-right side of the UE2 Wi-Fi hotspot device screen. If the lightning bolt charging icon still does not appear, follow the substeps below.



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A. The lightening bolt icon is displayed on the battery charge indicator, indicating the battery is being charged.

Fig. 31, Lightening Bolt Icon Displayed on the Battery Charge Indicator

21.1 Verify that a 5-amp fuse is installed in the VPDM fuse location F68.

21.2 Verify that 8v to 14v are being provided from the VPDM J6 connector cavities to the Voita 12v to 5v DC converter. It may be necessary to start and run the engine to rule out the possibility that a low voltage condition is causing an issue.

21.3 Verify that the DC converter power and ground terminals are connected to the correct J6 cavities.

21.4 If the lightning bolt charging icon still does not appear, contact Daimler Truck Technical Support at 1-855-253-0422, option 4 (5:00 A.M. to 4:00 P.M. Pacific time, Monday through Friday).

3G Sundown Programming

1. Make sure the ignition key and battery cut-off switch, if so equipped, are in the ON position.

IMPORTANT: Do not turn the ignition or the battery cut-off switch OFF until the software installation is complete.

2. Connect the Nexiq USBLink™ 2 box to the diagnostic connector on the vehicle.
3. Connect the Nexiq USBLink 2 box to the laptop.
4. Open DiagnosticLink.

IMPORTANT: Make sure that DiagnosticLink is updated to the latest version (8.15 SP1 at the time of publication, or newer) before programming the vehicle. To verify, go to 'Help,' then select 'About.' See **Fig. 32** and **Fig. 33**.

To reduce the possibility of disruption during programming, make sure DiagnosticLink is connected to CTP01T only.

5. If other modules are already connected in the 'Connections' window, select 'Close Connections' to remove all connected devices.

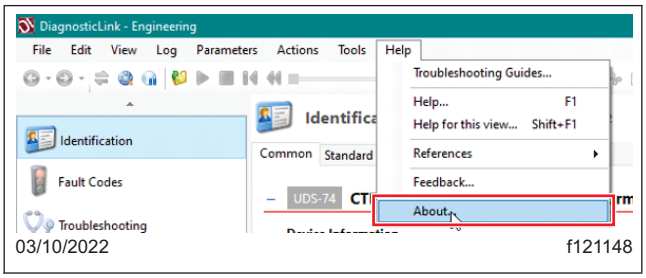


Fig. 32, Opening the About DiagnosticLink Professional Window

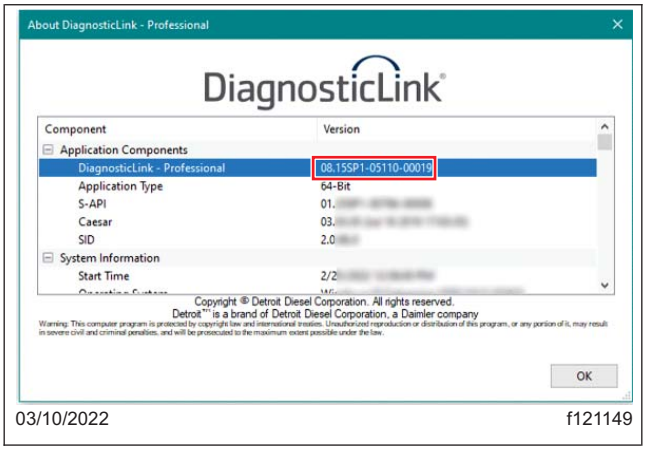
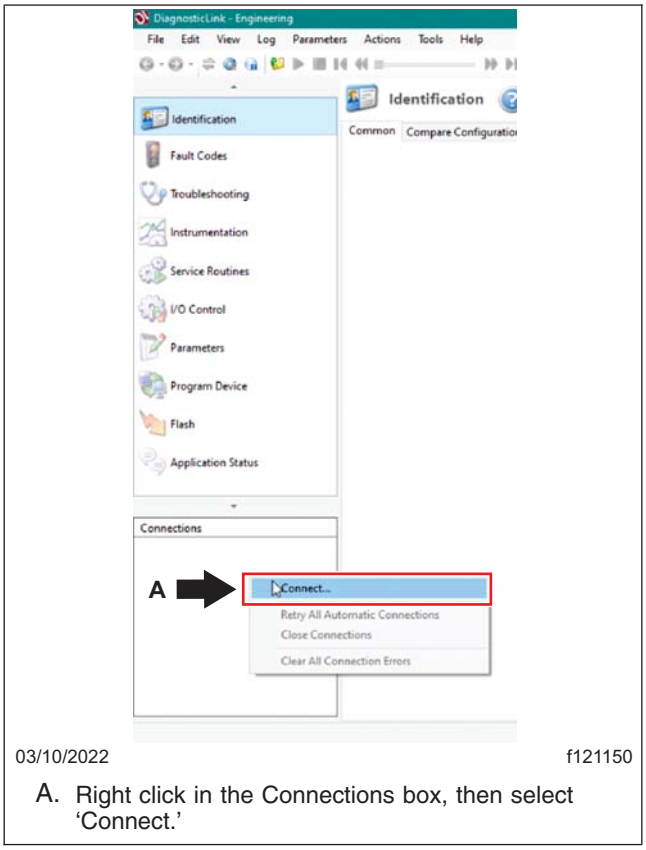


Fig. 33, DiagnosticLink Application Version

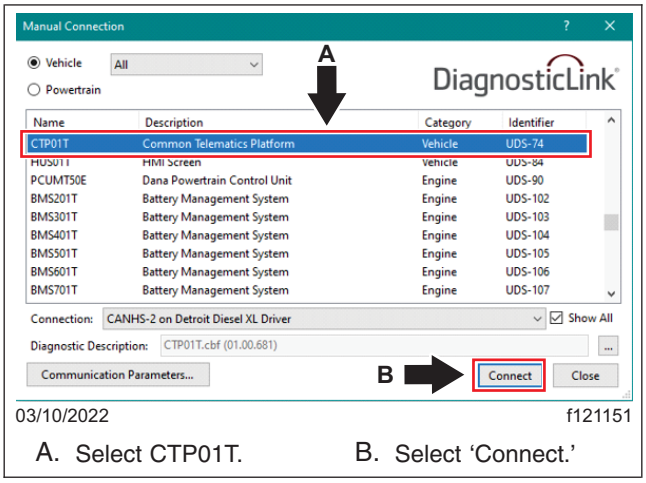
6. In the ‘Connections’ window, right click, and select ‘Connect.’ See **Fig. 34**.



A. Right click in the Connections box, then select ‘Connect.’

Fig. 34, Establishing Manual Connection

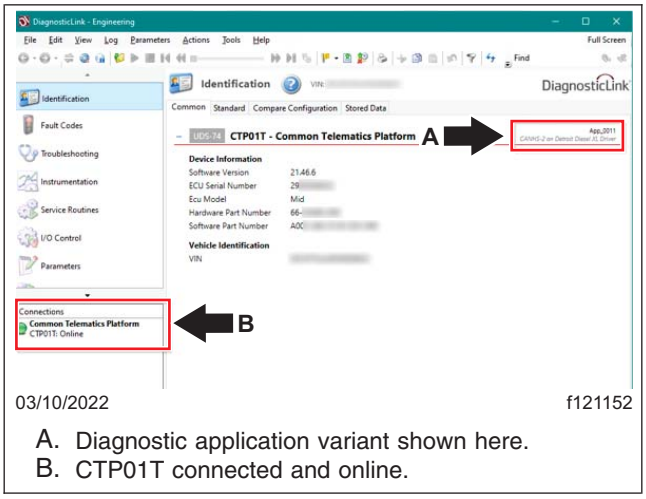
7. In the ‘Manual Connection’ window that appears, select ‘CTP01T,’ then select the ‘Connect’ button. Wait until the CTP01T connection turns green. See **Fig. 35**.



A. Select CTP01T. B. Select ‘Connect.’

Fig. 35, Manual Connection Window

8. After a successful connection to CTP01T, make sure the diagnostic application variant appears in the upper right corner, and starts with ‘App_.’ See **Fig. 36**. If the diagnostic application variant starting with ‘App_’ is not present, close the CTP01T connection and repeat the previous step.



A. Diagnostic application variant shown here.
B. CTP01T connected and online.

Fig. 36, Diagnostic Application Variant

9. Within the upper tool bar, go to ‘Action,’ ‘Telematics,’ then select ‘CTP 3G Sundown.’ In the ‘CTP 3G Sundown’ window that appears, verify a green dot with ‘Ready’ message appears at the bottom of the window. See **Fig. 37** and **Fig. 38**.

   If a green dot with ‘Ready’ message does not appear at the bottom of the window, disconnect the CTP01T, and restart DiagnosticLink. See steps 5 through 8. Open the CTP 3G Sundown panel. If a green dot with ‘Ready’ message still does not appear, contact Daimler Truck Technical Support at 1-855-253-0422, option 4 (5:00 A.M. to 4:00 P.M. Pacific time, Monday through Friday).

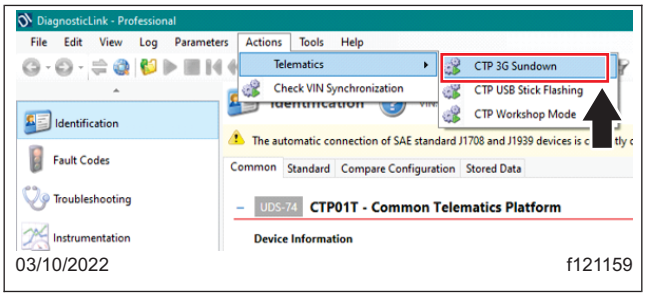
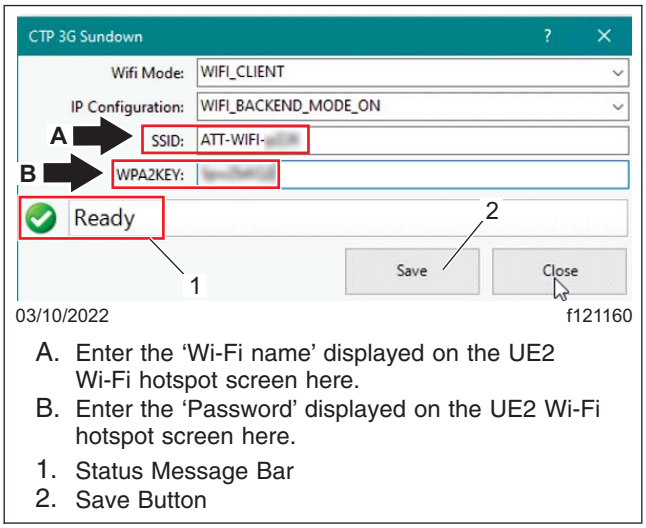


Fig. 37, Selecting CTP 3G Sundown



A. Enter the 'Wi-Fi name' displayed on the UE2 Wi-Fi hotspot screen here.
B. Enter the 'Password' displayed on the UE2 Wi-Fi hotspot screen here.
1. Status Message Bar
2. Save Button

Fig. 38, CTP 3G Sundown Window

10. In the 'CTP 3G Sundown' window enter the following parameters. See **Fig. 38**.

    10.1 In the 'Wi-Fi mode' drop down menu, select 'WIFI_CLIENT.'

    10.2 In the 'IP Configuration' drop down menu, select 'WIFI_BACKEND_MODE_ON.'

    IMPORTANT: The 'Wi-Fi name' and 'Password' must be entered exactly as displayed in the UE2 Wi-Fi hotspot device screen. Some Wi-Fi hotspot devices have a Wi-Fi name that does not fit on one line, and the text on the hotspot screen will need to wrap to the next line in order to show the full name. The Wi-Fi name begins with 'ATT-WI-FI-' followed by a four digit text that is unique to a device. There is a '-' between 'ATT' and 'WIFI', and also between 'WIFI' and the four digits. There are no blank spaces in the 'Wi-Fi name' and 'Password.'

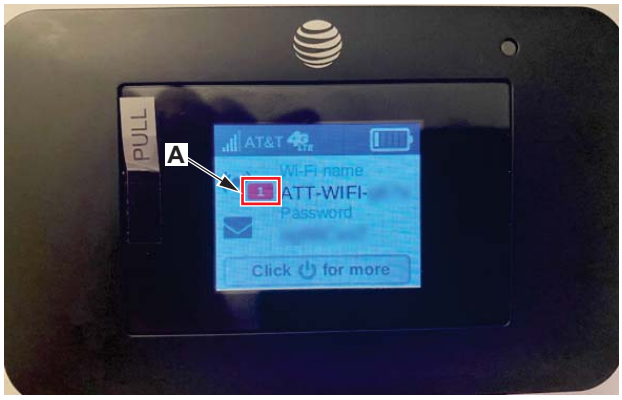
    10.3 Clear any spaces or characters in the 'SSID' text box and enter the 'Wi-Fi name' displayed on the UE2 Wi-Fi hotspot device screen. See **Fig. 19**.

    10.4 Clear any spaces or characters in the 'WPA2KEY' text box and enter the 'Password' displayed on the UE2 Wi-Fi hotspot device screen.

    IMPORTANT: Verify that the 'SSID' and 'WPA2KEY' entered in the 'CTP 3G Sundown' window exactly matches the 'Wi-Fi name' and 'Password' on the UE2 Wi-Fi hotspot device display screen. Check upper and lower case characters, and make sure there are no extra spaces in 'SSID' and 'WPA2KEY' text boxes.

    10.5 Select 'Save' in the 'CTP 3G Sundown' window and wait for DiagnosticLink to finish processing. The status message bar at the bottom will change from green 'Ready' to yellow 'Writing Parameters.' Once the processing is completed successfully, the status message bar will change to green 'Ready'. Select 'Close' to close the 'CTP 3G Sundown' window.

11. To verify the UE2 Wi-Fi hotspot device is connected to the CTP, check for a red connection indicator at the left side of the UE2 Wi-Fi hotspot device display screen with the number ‘1’ displayed in it. See **Fig. 39**. If the red connection indicator does not turn to ‘1’ after approximately 10 minutes, repeat step 17. If the red connection indicator still does not change to ‘1,’ contact Daimler Truck Technical Support at 1-855-253-0422, option 4 (5:00 A.M. to 4:00 P.M. Pacific time, Monday through Friday). If you do not receive an immediate response submit a WSC ticket to the warranty campaigns group.



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A. The number ‘1’ appears in a red box here after the CTP is connected.

Fig. 39, Red Connection Indicator

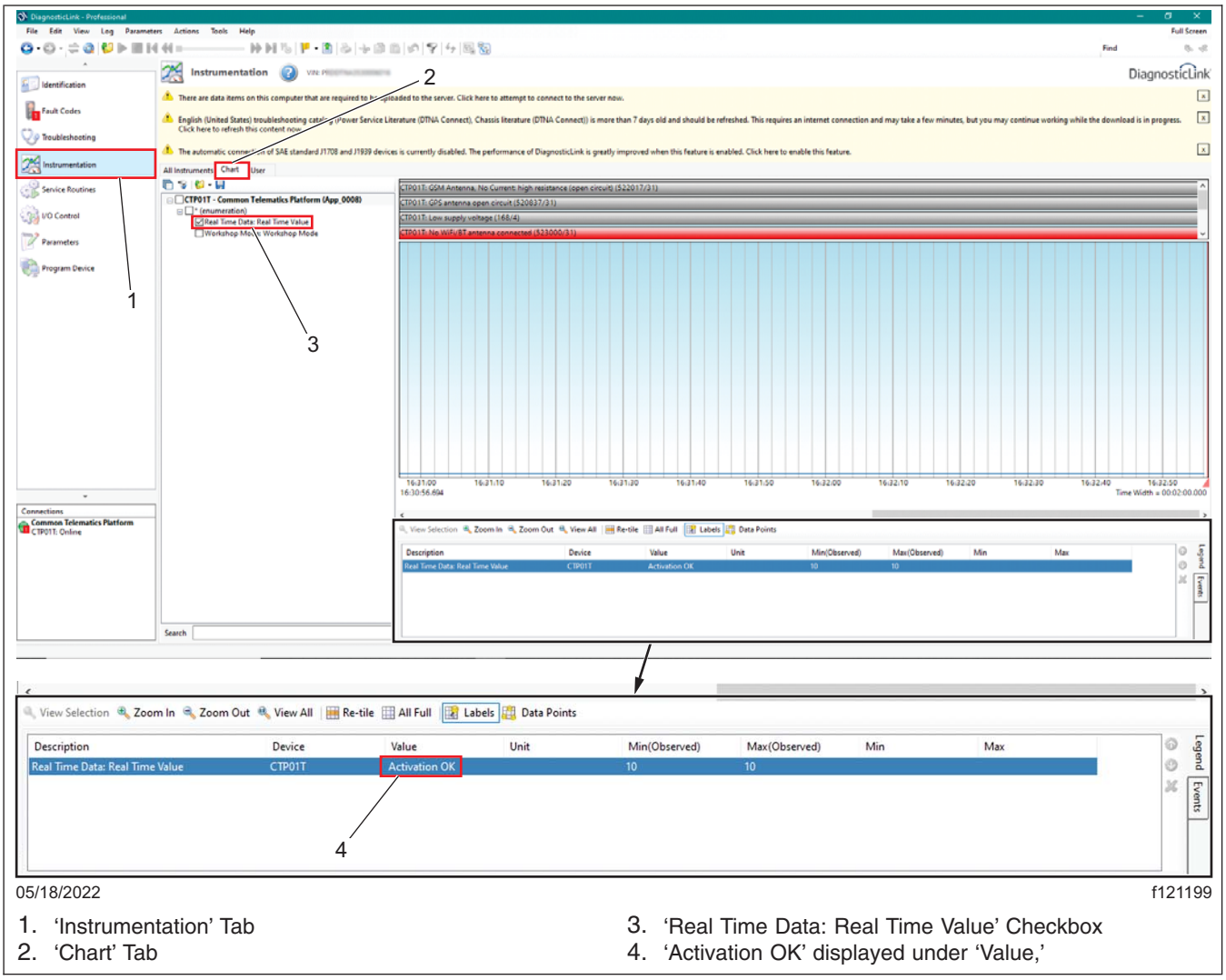
12. Verify the CTP is activated and enabled to communicate with the Daimler network.

    12.1 In the DiagnosticLink application, go to 'Instrumentation,' 'Chart,' then select the 'Real Time Data: Real Time Value' checkbox. Verify 'Activation OK' is displayed under 'Value,' as shown in **Fig. 40**.

    Is 'Activation OK' displayed under 'Value'?

    YES → The CTP01T software update is successful. Capture a screenshot showing '**Activation OK**' and retain with the repair order. Go to step 13.

    NO → Attempt to establish the network connection again. Follow the substeps 12.2 and 12.3.



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1. 'Instrumentation' Tab
2. 'Chart' Tab
3. 'Real Time Data: Real Time Value' Checkbox
4. 'Activation OK' displayed under 'Value,'

Fig. 40, CTP Software Update Successful

12.2 Disconnect the DiagnosticLink from the CTP and then wait for 5 minutes before reconnecting.

12.3 Wait for an additional 10 minutes for the CTP to reattempt establishing the network connection.

If the CTP does not connect to the network, and/or if 'Activation OK' is not displayed against 'Real Time Data: Real Time Value' after following substep 12.1, even after 10 minutes, contact Daimler Truck Technical Support at 1-855-253-0422, option 4, (5:00 A.M. to 4:00 P.M. Pacific time Monday through Friday).

IMPORTANT: The current software update process can be performed without an internet connection, but an internet connection is required to upload the vehicle data to the server. If the laptop does not have internet connectivity during this software update process, the vehicle data can be uploaded to the server by connecting to a network after completing the work on the vehicle.

13. DiagnosticLink should now display a yellow ribbon message 'There are data items on this computer that are required to be uploaded to the server.' See **Fig. 41**. To upload the vehicle data to the server, select the message to connect to the server. When prompted, log in to DTNAConnect using your DTNAConnect credentials, then select 'OK.' See **Fig. 42**.

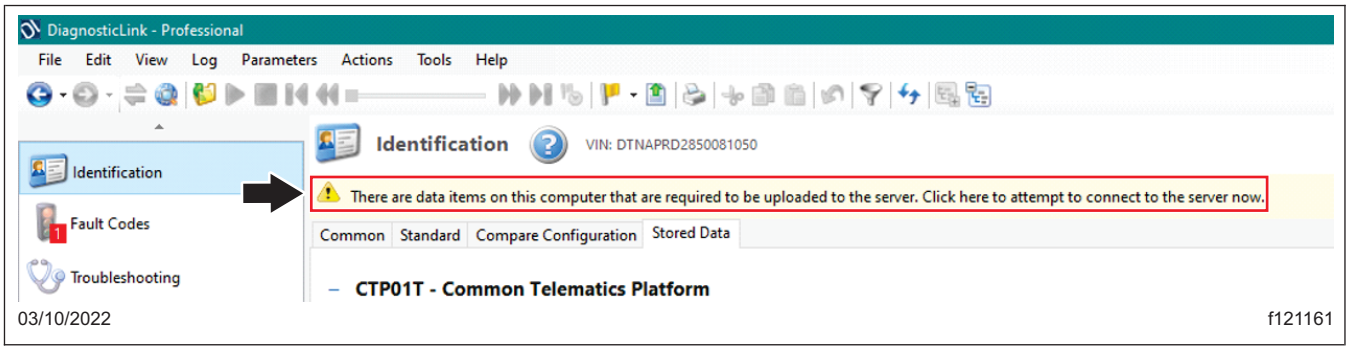


Fig. 41, Message to Upload Data to the Server

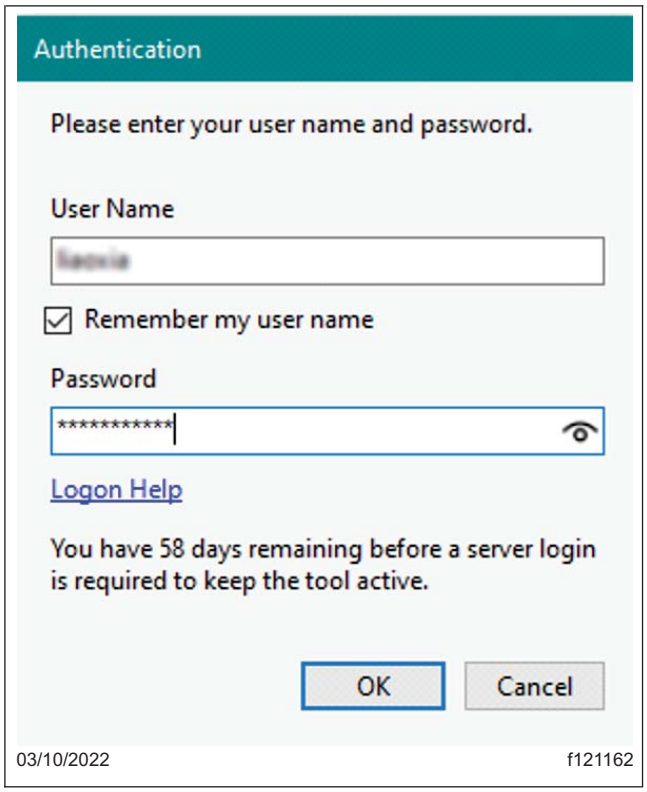


Fig. 42, DTNA Connect Authentication Window

14. Disconnect the USB adaptor from the CTP.
15. If the CTP blue USB mini connector was connected to any harness that was disconnected in step 11, connect the harness to the blue CTP USB mini connector.
16. To mount the UE2 Wi-Fi hotspot device in the electronics bay, locate an available space within the electronics bay that can accommodate the UE2 Wi-Fi hotspot device. Some vehicles may have an empty shelf that can be utilized for this purpose. If all electronics bay shelves are occupied, the UE2 Wi-Fi hotspot device can be mounted on the upper shelf of the electronics bay in the area just to the left of the CTP module.

NOTICE

When securing the UE2 Wi-Fi hotspot device to a shelf in the electronics bay, snug the tie strap enough only to secure the UE2 Wi-Fi hotspot device from moving. Overtightening the tie strap may damage the device. Prevent excess pressure on the USB charging cable. Excess pressure can permanently damage the USB charging cable.

17. Using a long tie strap, or two chained tie straps, secure the UE2 Wi-Fi hotspot device to the shelf from front to rear as shown in **Fig. 43**. A Velcro tape can also be used to secure the UE2 Wi-Fi hotspot device instead of a tie strap.



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1. UE2 Wi-Fi Hotspot
2. Tie Strap
3. Electronics Bay Shelf

Fig. 43, UE2 Wi-Fi Hotspot Device Installed

18. Verify that the USB charger cable is properly connected to the UE2 Wi-Fi hotspot device, and the Voita 12v to 5v DC converter is fully connected. Route the USB cable along the existing electronics bay harness, and coil the excess USB charger cable within the electronics bay. Secure the USB cable with tie straps.
19. Install the VPDM covers, VPDM, passenger-side lower dash cover, and the electronics bay cover. For instructions, see **Group 60** of the applicable workshop manual.
20. Clean a spot on the base label (Form WAR259), write the campaign number SF625 on a blank gray completion sticker (Form WAR261), and attach it to the base label, indicating this work has been completed.