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FLC 112 Conventional

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Argosy
Cargo
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122SD and Coronado

Business Class M2
Cascadia
108SD/114SD
> New Cascadia

**Freightliner
Service Bulletin**

Description of Revisions: *This bulletin replaces the version dated 11/28/2022. The CTP replacement part number has been updated.*

General Information

This service bulletin provides instructions for the replacement of common telematics platform (CTP) modules. When replacing a CTP module, it is important that the correct module and components are installed for proper operation of the system. This document applies to CTP modules that communicate on 500K chassis CAN typically used on New Cascadia vehicles built from November 2, 2016 to September 9, 2019.

Parts

Table 1 lists CTP1 parts and supporting parts used when installing the CTP2 module.

Parts List			
CTP Part Number Being Replaced	Supporting Parts to Remove	Supporting Parts to Add	CTP Replacement Part Number
66-05463-001 (CTP1, 3G)	66-03942-001 ANTENNA-GSM/GNSS,INTERIOR MT	66-11663-000 ANTENNA-4G CELL	A66-19900-506
		66-03942-002 ANTENNA-GSM/GNSS,INTR MT,4G	
		A66-12157-000 ANTENNA-CABLE,WIFI/BT,INT	
66-05466-001 (CTP1 3G)	66-03942-001 (ANTENNA-GSM/GNSS,INTERIOR MT)	66-03942-002 (ANTENNA-GSM/GNSS,INTR MT,4G)	
		66-11663-000 (ANTENNA-4G CELL)	
66-10777-001 (CTP1,4G)		66-11663-000 (ANTENNA-4G CELL)	
66-13928-001 (CTP1,4G)		66-11663-000 (ANTENNA-4G CELL)	

Table 1, Parts List

CTP and Antenna Mounting Location

Figure 1 shows the mounting location of each component used with the CTP2 module.

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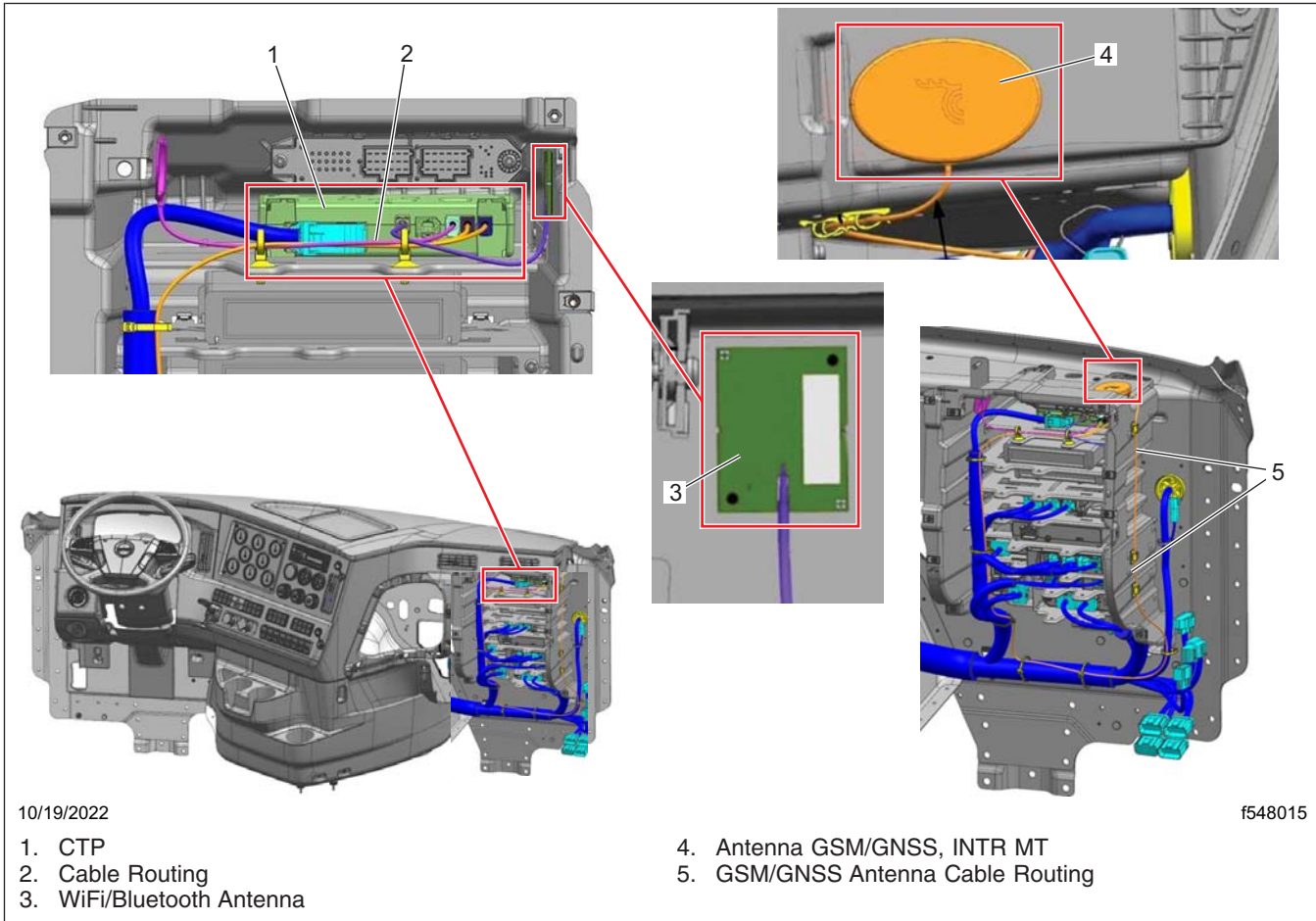


Fig. 1, CTP2 Component Mounting Locations

Connection Locations CTP1 vs CTP2

Figure 2 identifies the CTP connection locations for CTP1 and CTP2 components. When replacing a CTP1 with a CTP2 module, use the parts listed in **Table 1**.

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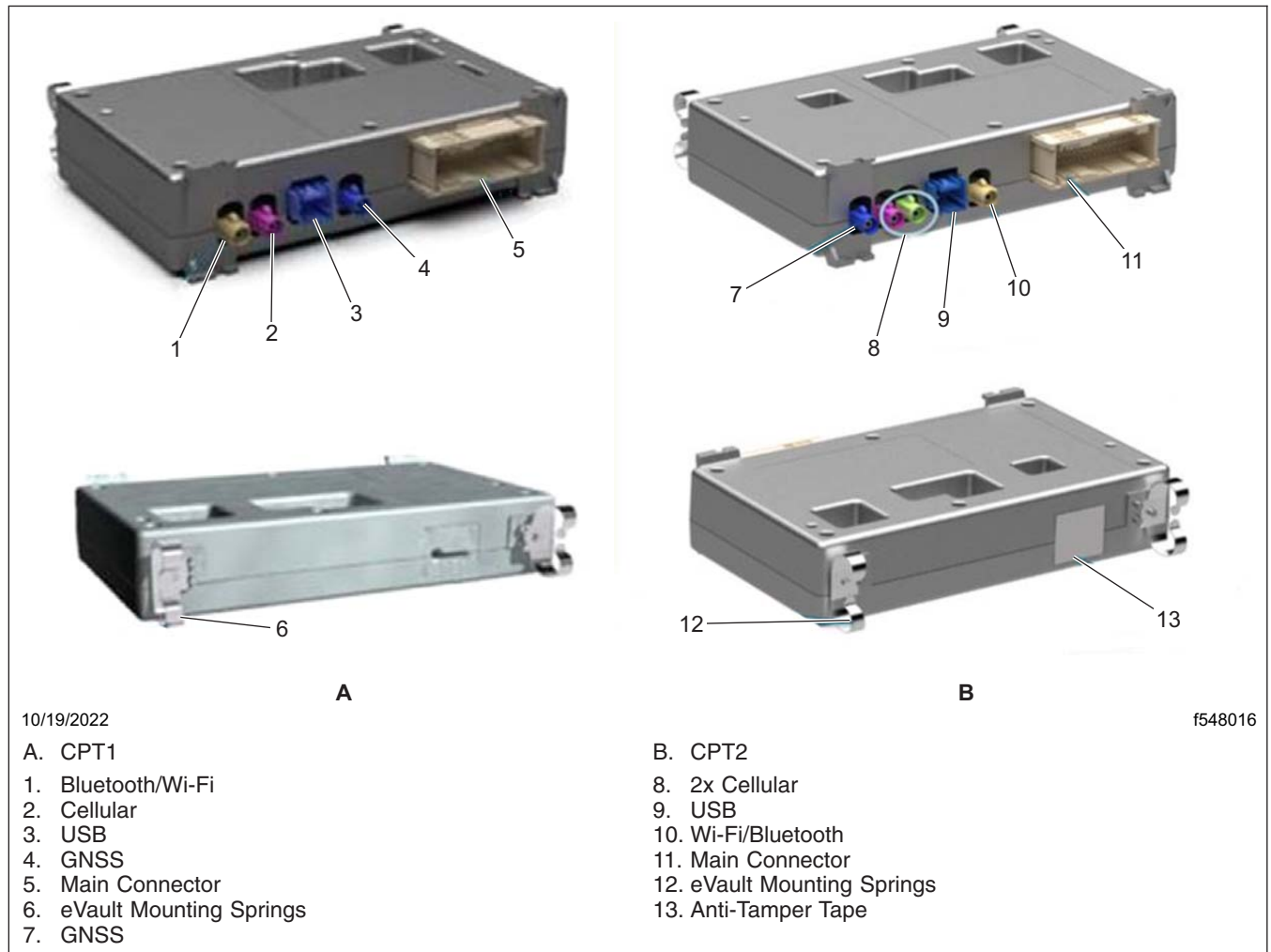


Fig. 2, CPT1 and CPT2 Connection Locations

Antenna Identification

Figure 3, Figure 4, and Figure 5 identify each antenna type.

CPT1 and CPT2 GSM/GNSS Antenna

CPT1 and CPT2 antennas appear identical. The only way to identify the antenna type is by the part number shown on the reference label in Figure 3

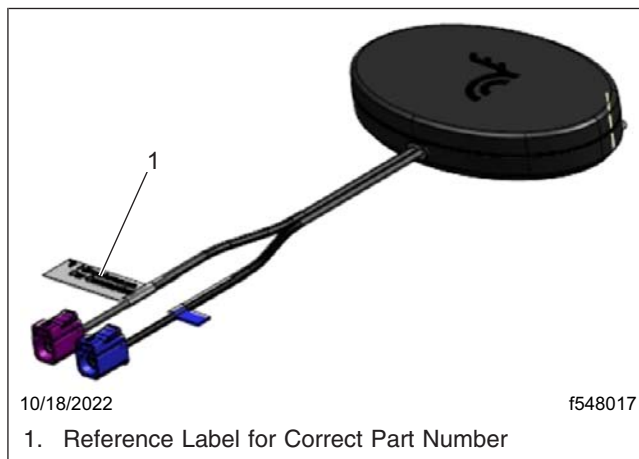
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Fig. 3, GSM/GNSS Antenna

4G Cellular Antenna

Figure 4 shows an example of a 4G cellular antenna.



Fig. 4, 4G Cellular Antenna

Wi-Fi Bluetooth Antenna

Figure 5 shows an example of a Wi-Fi Bluetooth antenna.

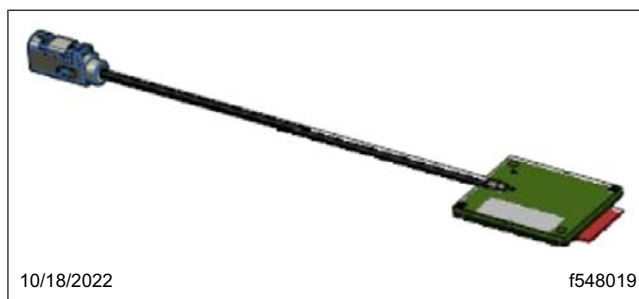


Fig. 5, Wi-Fi Bluetooth Antenna

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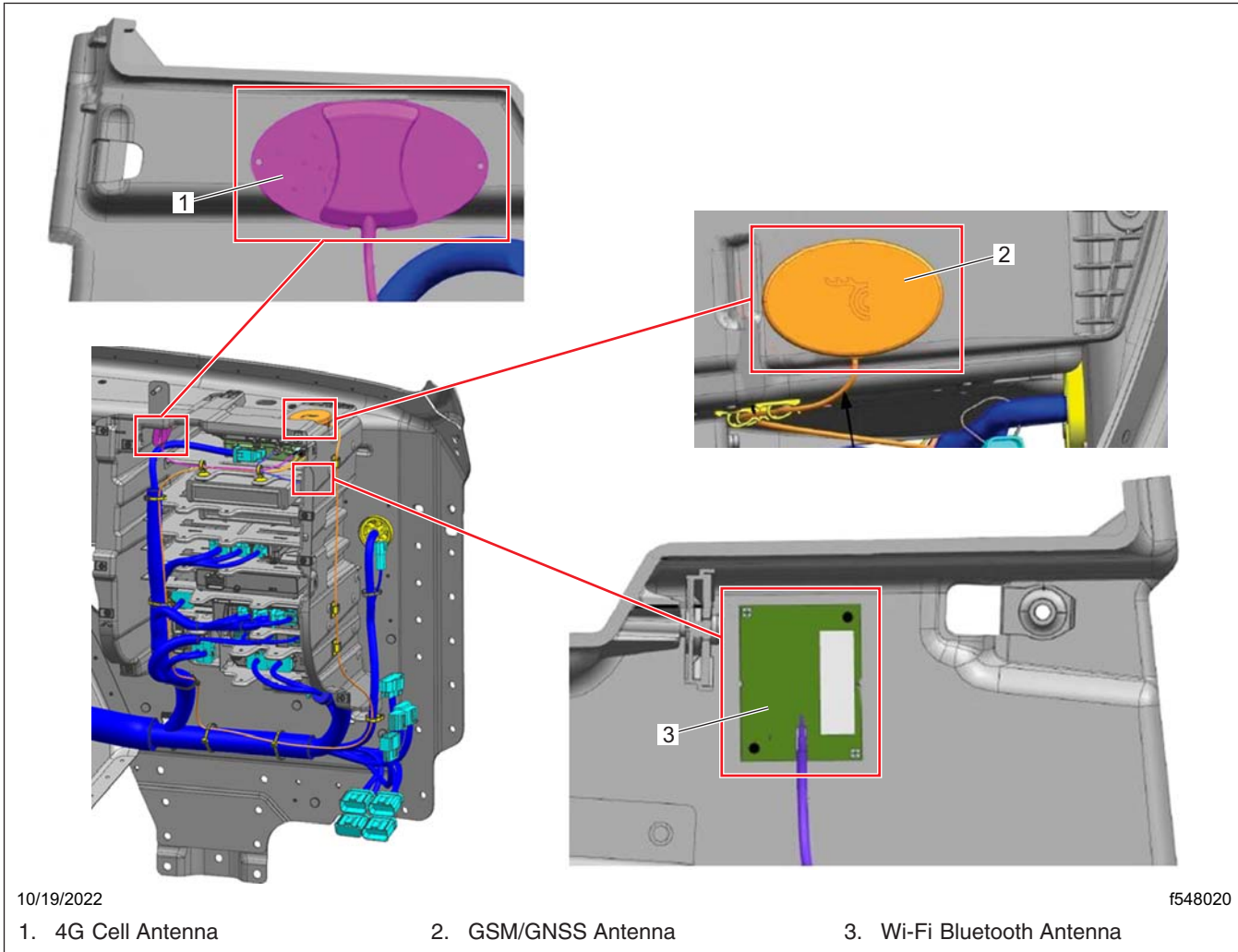
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CTP Replacement and Initialization

DiagnosticLink® version 8.12 SP2 or later is required to complete this procedure. This procedure cannot be performed without an internet connection.

IMPORTANT: The loss of an internet connection during installation may result in failure of the CTP activation.

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. Follow the steps below based on the components being replaced.
3. Remove the electronics bay cover and the passenger side lower dash cover. For more information, see **Section 60.06** in the *New Cascadia Workshop Manual*.
4. Remove the vehicle power distribution module (VPDM) from the front of the electronics bay. See **Section 54.08, Subject 100** in the *New Cascadia Workshop Manual*.
5. Disconnect the connectors from the CTP ECU.
6. Press the CTP ECU firmly towards the back of the electronics bay to release the ECU from the forward mounting slots and then lift the ECU.
7. Remove the CTP ECU from the vehicle.
8. After removing the ECU, mark an 'X' on the CTP label to identify it as old and to eliminate any chance of installing the ECU on another vehicle.
9. Position the new CTP ECU in the electronics bay and then press the ECU firmly towards the back of the shelf. Lower the front of the ECU on to the surface of the shelf and adjust its position horizontally until the tabs on the ECU are fully seated in the mounting slots.
10. Identify and replace the antenna described in **Table 1**. Route the cable for each of the antenna using **Fig. 1** as a reference. Mounting locations for each antenna being replaced is identified in **Fig. 6**. Before installation, clean the antenna mounting area using isopropyl alcohol. Make sure the mounting surface is completely dry before using the included adhesive foam tape.

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11. After mounting all antennas and routing and fastening of the cables, connect each of the antenna ends to the CTP2 shown in [Fig. 2](#). Each antenna connector is a different color that will match the color on the CTP2. Color ends aid in making sure each antenna is attached correctly to the CTP2.
 12. Connect the 54-Pin connector.
 13. Install the VPDM. See **Section 54.08, Subject 100** in the *New Cascadia Workshop Manual* for instructions.
 14. Install the electronics bay cover, passenger-side lower dash cover, and top dash cover. See **Section 60.06** in the *New Cascadia Workshop Manual* for instructions.
- IMPORTANT:** The newly installed CTP must be activated using DiagnosticLink 8.12 SP2 or later before installation is complete.
15. Turn the ignition switch on.
 16. Connect the vehicle to DiagnosticLink 8.12 SP2 or later.

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17. Allow all automatic connections to complete.
18. Right-click in the Connections window and select 'Close Connections.' If any failed controller connections remain (shown with a red indicator), right-click and select 'Clear All Connection Errors.'
19. In DiagnosticLink, select 'File' and then select 'Connect' from the drop down menu. Select the following controllers, one at a time, to manually connect to them.
 - ICUC01T
 - CGW04T
 - CTP01T

IMPORTANT: Any other controllers connected to DiagnosticLink (other than the three listed above) may cause the initialization process to fail.

20. Wait until all three controllers are fully connected and the connection indicators turn green. See [Fig. 7](#).

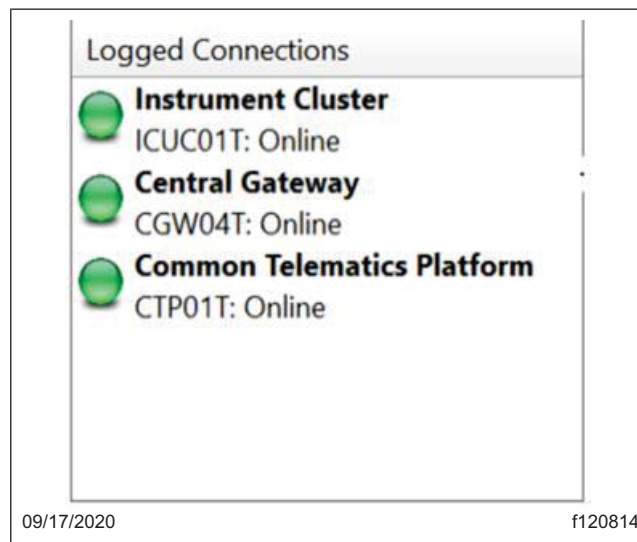


Fig. 7, DiagnosticLink Connections Panel

21. Navigate to 'Parameters' and allow the parameters to be read. Select the 'Initialize CTP' tab. See [Fig. 8](#).

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1. Initialize CTP Tab
2. VIN from CTP
3. VIN from Connected Truck
4. Initialize Button
5. Initialize Progress Text Field
6. CTP Current Status

Fig. 8, Initialize Truck Data Center Panel

22. Verify the VIN from the new CTP2 reads the default AAAAAAAAAAAAAAAAAAAAAA or the VIN from the connected vehicle. Otherwise, remove the CTP and install a new CTP.
23. Run the initialization procedure by selecting 'Initialize.'
24. If prompted, enter a user name and password to connect DiagnosticLink to the server.
25. Wait until the initialization procedure completes and the last line in the initialize progress text field reads: "VIN written to device and the required data was sent to the server."
26. Monitor in the CTP Current Status area of the panel, located in the upper right side of CTP Activation Status from ECU. The status message should display 'Activation OK.' Note that this may take up to ten minutes.
27. Within ten minutes from the end of the initialization procedure, does the CTP Activation Status from the ECU read 'Active OK'?
YES → Go to the next step.
NO → Contact the Detroit® Connect Operations Support team at detroitconnect@daimlertruck.com or by calling 1-855-253-0420, option 2.
28. With the Initialize CTP panel still open, select the full screen button located on the top-right of the DiagnosticLink window. See [Fig. 9](#).

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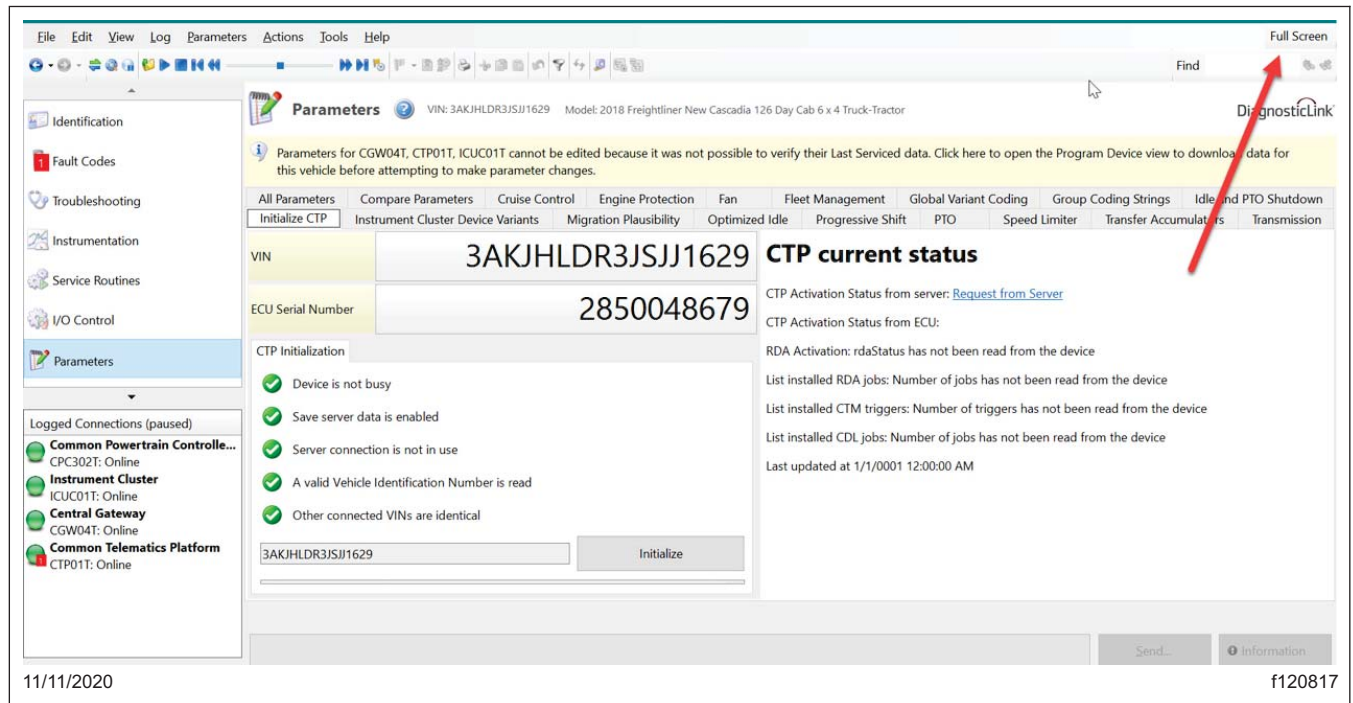


Fig. 9, CTP Activation Status

- For validation that the CTP2 was properly initialized and for the dealership records, take a screen capture of the DiagnosticLink window and make sure that the VIN and the last line in the dialog box 'VIN written to device and required data was sent to the server' are visible, as shown in Fig. 10. The image should be kept as part of the work order.

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CTP current status

CTP Activation Status from server: [Request from Server](#)

CTP Activation Status from ECU:

RDA Activation: rdaStatus has not been read from the device

List installed RDA jobs: Number of jobs has not been read from the device

List installed CTM triggers: Number of triggers has not been read from the device

List installed CDL jobs: Number of jobs has not been read from the device

Last updated at 1/1/0001 12:00:00 AM

CTP Initialization

- Device is not busy
- Save server data is enabled
- Server connection is not in use
- A valid Vehicle Identification Number is read
- Other connected VINs are identical

3AKJHLDR3JSJJ1629 Initialize

Time Label

- 07.17.2020 07:11:34... Send results to server.
- 07.17.2020 07:11:34... Parameters were successfully read from device.
- 07.17.2020 07:12:14... Server connection was successful.
- 07.17.2020 07:12:14... Vin written to device and required data was sent to server.

Logged Connections (p...

Common Po...
CPC302T: Onli...

11/11/2020

Send... Information

f120818

Fig. 10, Screen Capture of DiagnosticLink

30. Select the full screen button to return to normal view.
31. Disconnect from DiagnosticLink.

Warranty

This is an informational bulletin only. Warranty does not apply.