

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

Subject: Cascadia ICUC Bulb Check Function

Models Affected: Specific Freightliner Cascadia vehicles manufactured May 3, 2016, through July 11, 2018, and equipped with a certain ICUC.

General Information

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, has decided that a defect that relates to motor vehicle safety exists on the vehicles mentioned above.

There are approximately 49,435 vehicles involved in this campaign.

On certain vehicles, under certain conditions, if the ignition is cycled off, then on quickly, the Instrument Cluster Unit Common (ICUC) may not perform a bulb check upon startup, as required by FMVSS 121/Antilock Brake System (ABS), and 136/Electronic Stability Control (ESC)

The ICUCs will be reprogrammed so that there will be a bulb check each time the key is switched to the "on" position. The Tire Pressure Monitoring System (TPMS) ECU will be replaced as needed.

FIFTH REVISION: Revisions were needed to match recent updates to the DiagnosticLink programming tool. Changes to both the programming procedure steps and images were updated.

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.

Work Instructions

Please refer to the attached work instructions. Prior to performing the campaign, check the vehicle for a completion sticker (Form WAR260).

Replacement Parts

IMPORTANT: The current TPMS ECU configuration file must be saved prior to installing new TPMS ECU.

Replacement parts are now available and can be obtained by ordering the part number(s) listed below from your facing Parts Distribution Center.

If our records show your dealership has ordered any vehicles involved in campaign number FL780B, a list of the customers and vehicle identification numbers will be available in OWL. Please refer to this list when ordering parts for this recall.

Table 1 - Replacement Parts for FL780B

Campaign Number	Part Number	Part Description	Qty.
FL780B	BW 200 0229N	TPMS ECU, FPT	1 ea
FL788AB	WAR260	BLANK COMPLETION STICKER	1 ea

Table 1

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.

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

Labor Allowance

Table 2 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
FL780A	Reprogram ICUC bulb check function	0.3	996-R051A	12-Repair Recall/Campaign
FL780B	Reprogram ICUC bulb check function, replace TPMS	0.9	996-R051C	12-Repair Recall/Campaign
FL780AB	Reprogram incompatible devices (claim optional SRT once for each incompatible device, up to 10)	0.2	996-R051B	12-Repair Recall/Campaign

Table 2

IMPORTANT: When the Recall has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the red completion sticker provided in the recall kit (Form WAR260). 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 recall kit is not required or there is no completion sticker in the kit, write the recall number on a blank sticker and attach it to the base completion label.

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 **Recall Campaign**.
- In the FTL Authorization field, enter the campaign number and appropriate condition code (**FL780-A** or **FL780-B**).
- In the Primary Failed Part Number field, enter **25-FL780-000**.
- In the Labor field, first 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 **003-006-016** and the Cause Code is **A1 - Campaign**.
- **U.S. and Canada -- Reimbursement for Prior Repairs.** When a customer asks about reimbursement, please do the following:
 - Accept the documentation of the previous repair.
 - Make a brief check of the customer's paperwork to see if the repair may be eligible for reimbursement. (See the "Copy of Owner Letter" section of this bulletin for reimbursement guidelines.)
 - Submit an OWL Recall Pre-Approval Request for a decision.
 - Include the approved amount on your claim in the Other Charges section.
 - Attach the documentation to the pre-approval request.
 - If approved, submit a based on claim for the pre-approval.
 - Reimburse the customer the appropriate amount.

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

**November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE**

U.S. and Canadian dealers, contact the Warranty Campaigns Department via Web inquiry at DTNACconnect.com / WSC, or the Customer Assistance Center at (800) 385-4357, after normal business hours, if you have any questions or need additional information. Export distributors, submit a Web inquiry or contact your International Service Manager.

U.S. and Canadian Dealers: To return excess kit inventory related to this campaign, U.S. dealers must submit a Parts Authorization Return (PAR) to the Memphis PDC. Canadian dealers must submit a PAR to their facing PDC. All kits must be in resalable condition. PAR requests must include the original purchase invoice number. Export Distributors: Excess inventory is not returnable.

The letter notifying U.S. and Canadian vehicle owners is included for your reference.

Please note that the National Traffic and Motor Vehicle Safety Act, as amended (Title 49, United States Code, Chapter 301), requires the owner's vehicle(s) be corrected within a reasonable time after parts are available to you. The Act states that failure to repair a vehicle within 60 days after tender for repair shall be prima facie evidence of an unreasonable time. However, circumstances of a particular situation may reduce the 60 day period. Failure to repair a vehicle within a reasonable time can result in either the obligation to (a) replace the vehicle with an identical or reasonably equivalent vehicle, without charge, or (b) refund the purchase price in full, less a reasonable allowance for depreciation. The Act further prohibits dealers from selling a vehicle unless all outstanding recalls are performed. Any lessor is required to send a copy of the recall notification to the lessee within 10 days. Any subsequent stage manufacturer is required to forward this notice to its distributors and retail outlets within five working days.

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

Copy of Notice to Owners

Subject: Cascadia ICUC Bulb Check Function

For the Notice to U.S. Customers: This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act. **For the Notice to Canadian Customers:** This notice is sent to you in accordance with the Canadian Motor Vehicle Safety Act.

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, has decided that a defect that relates to motor vehicle safety exists on specific Freightliner Cascadia vehicles manufactured May 3, 2016, through July 11, 2018, and equipped with a certain Instrument Cluster Unit Common (ICUC).

On certain vehicles, under certain conditions, if the ignition is cycled off, then on quickly, the ICUC may not perform a bulb check upon startup, as required by FMVSS 121/Antilock Brake System (ABS), and 136/Electronic Stability Control (ESC)

The ICUCs will be reprogrammed so that there will be a bulb check each time the key is switched to the "on" position. The Tire Pressure Monitoring System (TPMS) ECU will be replaced as needed.

Please contact an authorized Daimler Trucks North America dealer to arrange to have the Recall performed and to ensure that parts are available at the dealership. To locate an authorized dealer, go to www.Daimler-TrucksNorthAmerica.com. On the menu tab, select "Contact," scroll down to "Find a Dealer," and select the appropriate brand. The Recall will take approximately one to three hours and will be performed at no charge to you.

You may be liable for any progressive damage that results from your failure to complete the Recall within a reasonable time after receiving notification.

If you do not own the vehicle that corresponds to the identification number(s) which appears on the Recall Notification, please return the notification to the Warranty Campaigns Department with any information you can furnish that will assist us in locating the present owner. If you have leased this vehicle, Federal law requires that you forward this notice to the lessee within 10 days. If you are a subsequent stage manufacturer, Federal law requires that you forward this notice to your distributors and retail outlets within five working days. If you have paid to have this recall condition corrected prior to this notice, you may be eligible to receive reimbursement. Please see the reverse side of this notice for details.

For the Notice to U.S. Customers: If you have questions about this Recall, please contact the Warranty Campaigns Department at (800) 547-0712, 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, e-mail address DTNA.Warranty.Campaigns@Daimler.com, or the Customer Assistance Center at (800) 385-4357 after normal business hours. If you are not able to have the defect remedied without charge and within a reasonable time, you may wish to submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590; or call the Vehicle Safety Hotline at (888) 327-4236 (TTY: 800-424-9153); or to <http://www.safercar.gov>. **For the Notice to Canadian Customers:** If you have questions about this Recall, please contact the Warranty Campaigns Department at (800) 547-0712, 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, e-mail address DTNA.Warranty.Campaigns@Daimler.com, or the Customer Assistance Center at (800) 385-4357 after normal business hours.

We regret any inconvenience this action may cause but feel certain you understand our interest in motor vehicle safety.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

Reimbursement to Customers for Repairs Performed Prior to Recall

If you have already **paid** to have this recall condition corrected 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 an authorized Daimler Trucks North America LLC dealer. The following documentation must be presented 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 Daimler Trucks North America LLC dealer.

Please speak with your Daimler Trucks North America LLC authorized dealer concerning this matter.

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

Work Instructions

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Populations A and B - ICUC Programming

1. Check the base label (Form WAR259) for a completion sticker for FL780 (Form WAR260) 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 sticker is present, no work is needed. If there is no sticker, proceed with the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.

IMPORTANT: Make sure that DiagnosticLink® is updated to the latest version (8.14 SP3 at the time of publication, or newer) before programming the vehicle.

3. Open DiagnosticLink prior to connecting to the vehicle.
4. Using DTNACconnect credentials, connect DiagnosticLink to the server. The sign-in to the server will remain active until DiagnosticLink is closed. See [Fig. 1](#).

Authentication

Please enter your user name and password.

User Name

☐ Remember my user name

Password

[Logon Help](#)

You have 60 days remaining before a server login is required to keep the tool active.

OK Cancel

01/14/2021 f120845

Fig. 1, Sign-In Window

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

5. Connect the vehicle to DiagnosticLink. Ensure the instrument Cluster (ICUC01T) rollcalls, and is visible in the 'Connections' window. See [Fig. 2](#).

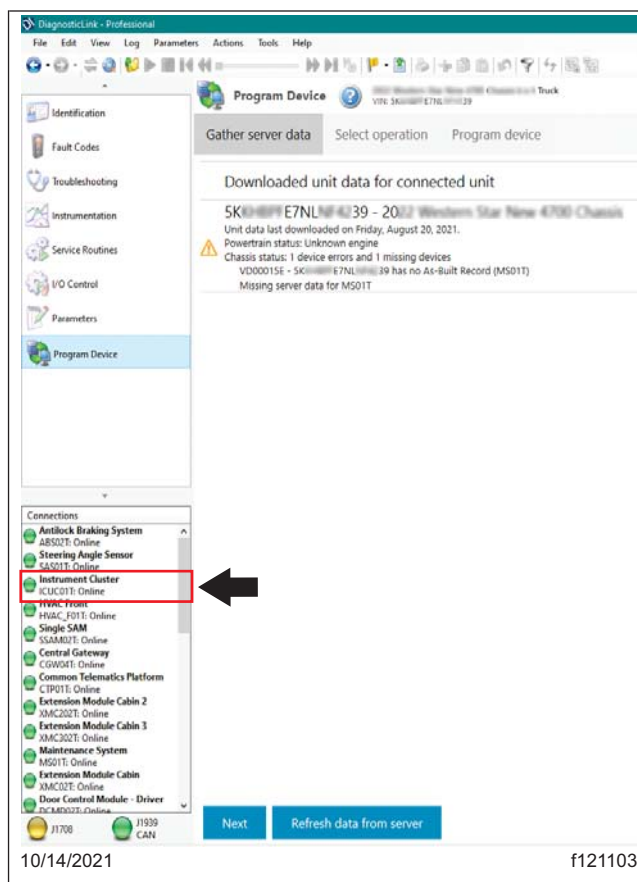


Fig. 2, ICUC01T ECU Connected

**November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE**

6. Open the 'Parameters' tab, and allow the parameters to be read completely by DiagnosticLink, as indicated by the status bar at the bottom of the screen. See [Fig. 3](#).

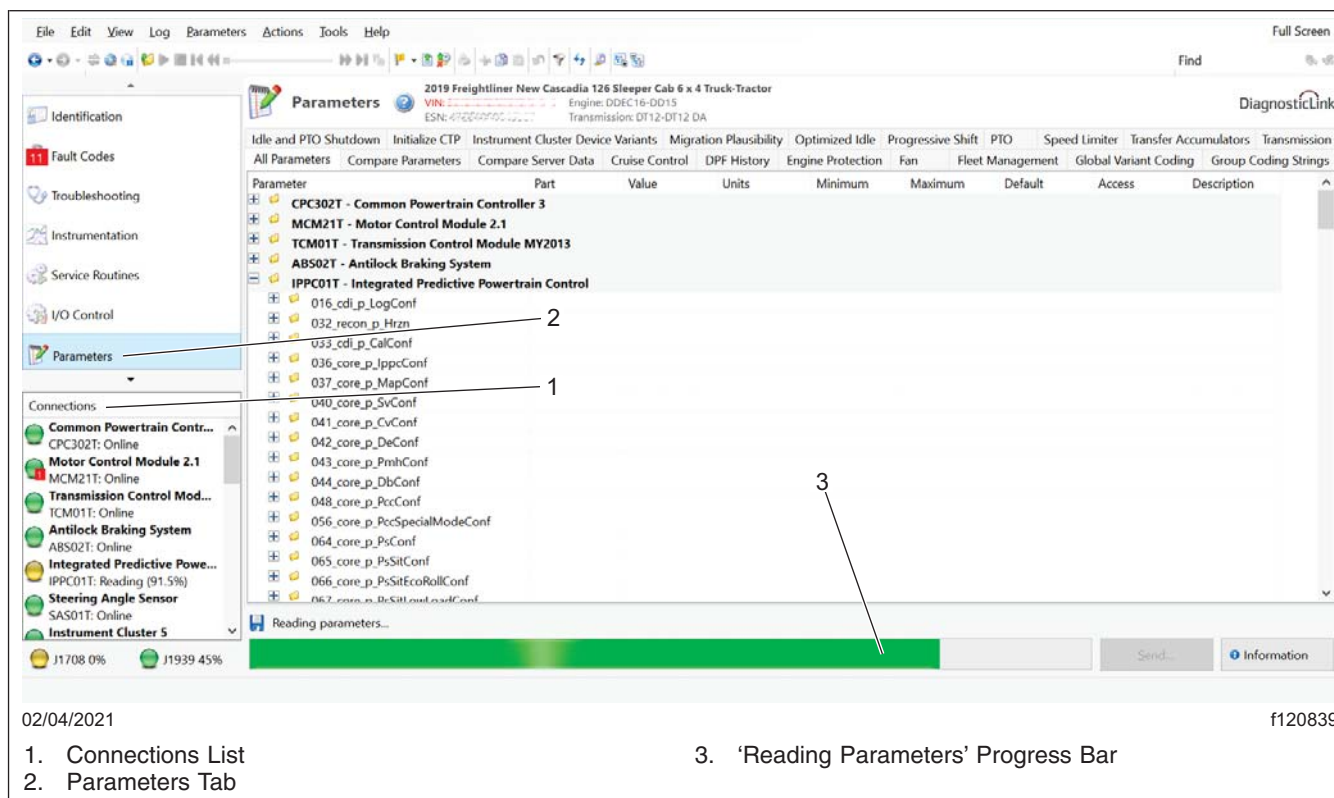


Fig. 3, Connecting Default ECUs and Reading Vehicle Parameters in DiagnosticLink

**November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE**

- Go to 'Program Device,' and make sure that the vehicle identification number (VIN) that appears is correct. If not, remove each VIN by selecting the 'Remove' button located at the far 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. 4](#).

If the VIN is not automatically detected, select 'Add request,' then enter the VIN. Select the electronic control unit (ECU) to be connected. See [Fig. 5](#) and [Fig. 6](#).

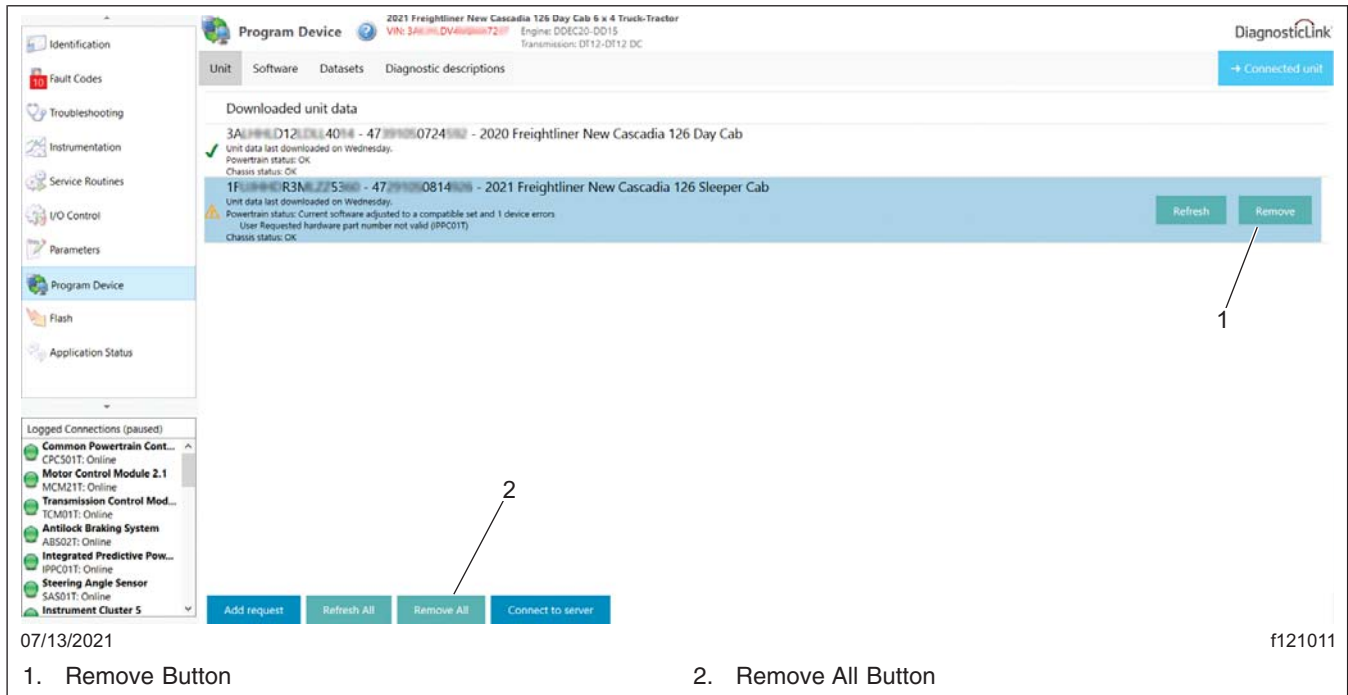


Fig. 4, Removing VINs

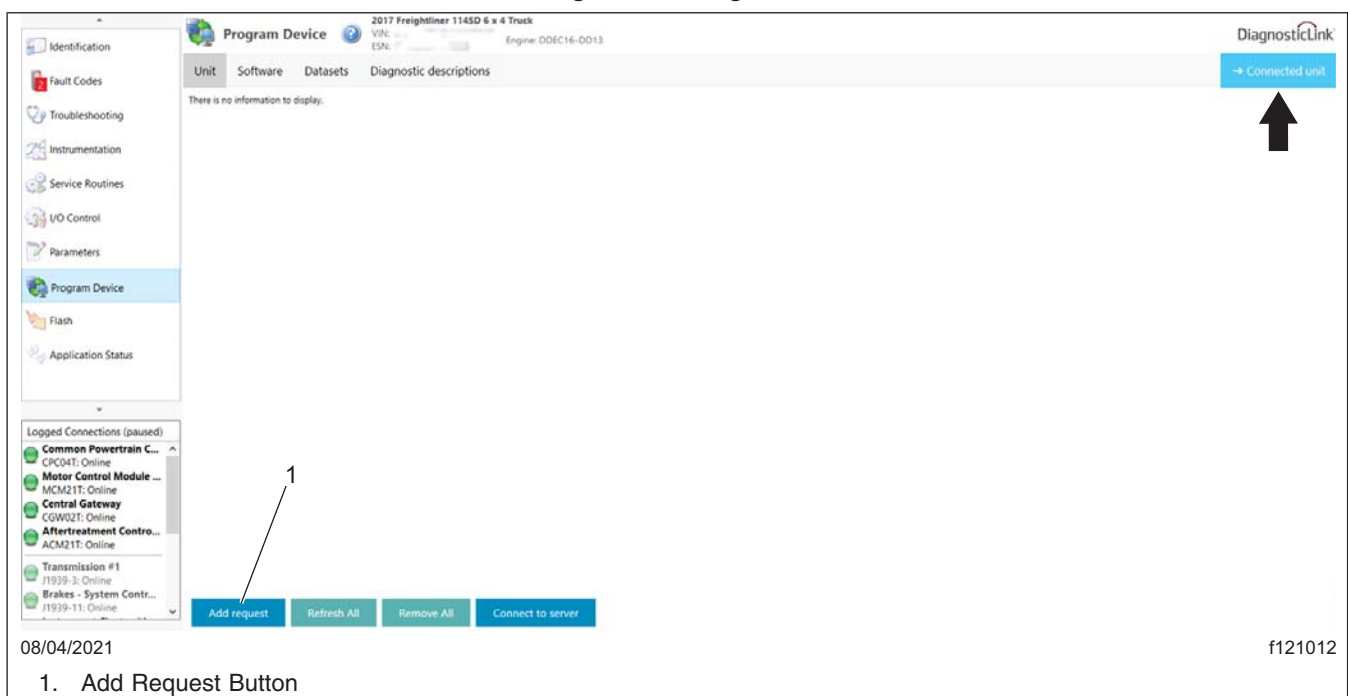


Fig. 5, Add Request and Connected Unit Button

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

Request Equipment Data Download

Enter the identity of the equipment you wish to program.

Vehicle Identification ☒ VIN ☐ PIN

3AK060V4M5MA7201

Engine Serial Number (Unit Number)

Device controllers for this equipment

+ Add - Remove

Device	Hardware Part Number
CPC501T	A0534462-02-001
MCM21T	A0034463-35-001
TCM01T	A0534464-09-003
IPPC01T	AInvalidval
SAS01T	A0034465-334-001
ICC501T	A0134466-521-001
HVAC_F01T	06-94732-000
SSAM02T	A06-94904-002
CGW04T	06-95599-001
RDE02T	A0034467-1349-001

Clear All OK Cancel

07/13/2021 f121013

Fig. 6, Manually Connecting to DiagnosticLink

8. Select 'Connected Unit.' Make sure the VIN information populated in the center window is correct, then select 'Download data from server' at the lower left-hand side of the screen. See [Fig. 7](#).

Logged Connections (paused)

- Common Powertrain C...
CPC04T: Online
- Motor Control Module ...
MCM21T: Online
- Central Gateway
CGW02T: Online
- Aftertreatment Contro...
ACM21T: Online
- Transmission #1
J1939-3: Online
- Brakes - System Contr...
J1939-11: Online

Download data from server

07/13/2021 f121014

Fig. 7, Downloading Data from the Server

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

9. When the data has finished downloading, select 'Next.' See [Fig. 8](#).

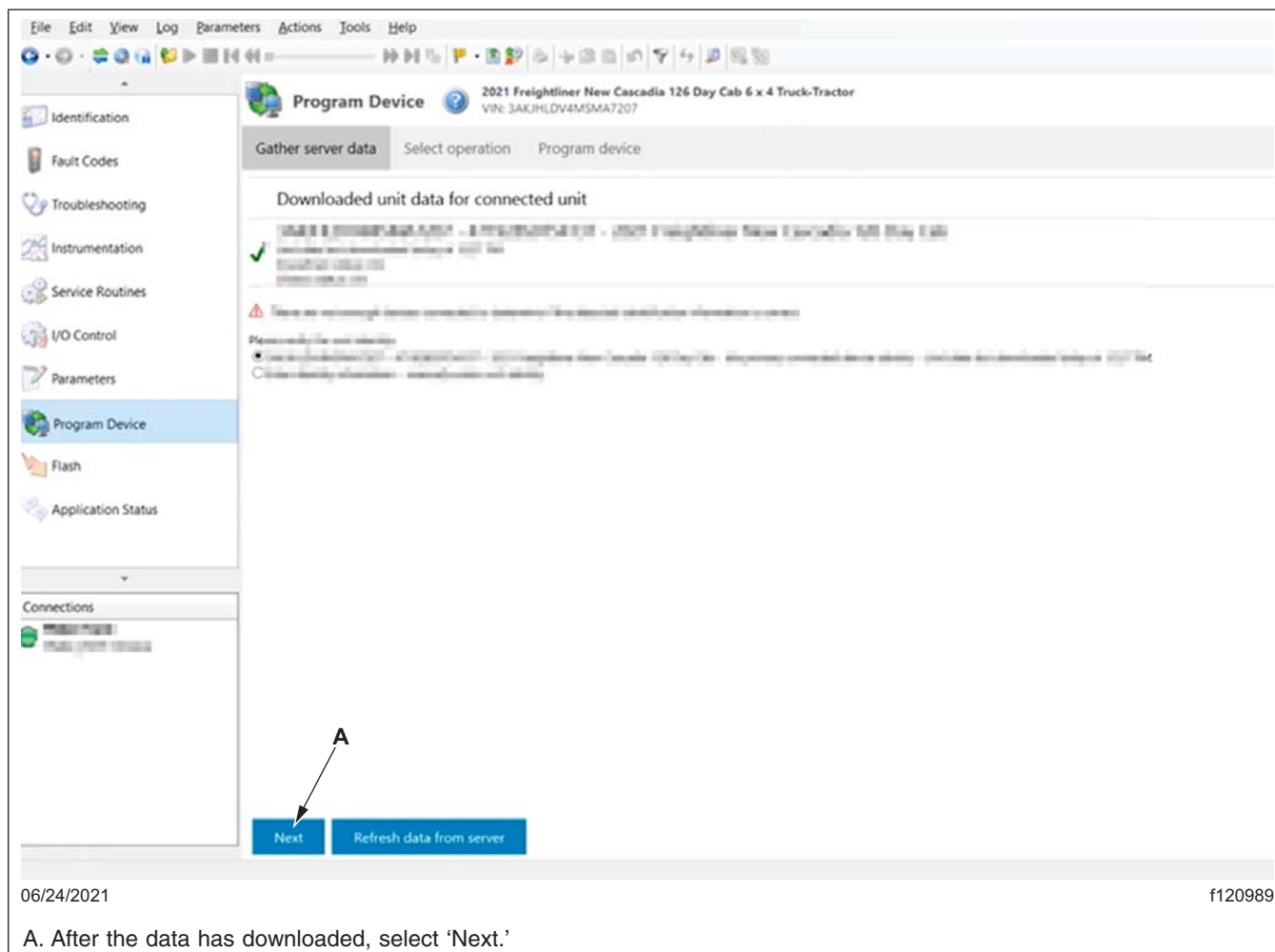


Fig. 8, Data Downloaded from the Server

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

NOTE: In DiagnosticLink, an ECU is called a 'device.'

10. Select the ICUC01T ECU to program. See [Fig. 9](#).

11. Select 'Replace Device Setting with Server Configuration' as shown in [Fig. 9](#).

NOTE: 'Latest' is the last service record (may be older software) and 'Newest' is the most up to date software available for the installed hardware. If the last service record is the most up to date software available, no 'Newest' record will be provided.

12. Select 'Newest' under 'Select the configuration to apply to the device,' as shown in [Fig. 9](#). If 'Newest' is not available, select 'Latest,' then select 'Next.'

10/27/2021 f121104

A. Select the ECU to program.
B. Select the programming operation to take place.
C. Select the configuration to apply to the device.
D. Select 'Next.'

Fig. 9, Programming the ICUC ECU

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

13. Verify the VIN, hardware and software information, then select 'Start' to program the ICUC. See [Fig. 10](#).

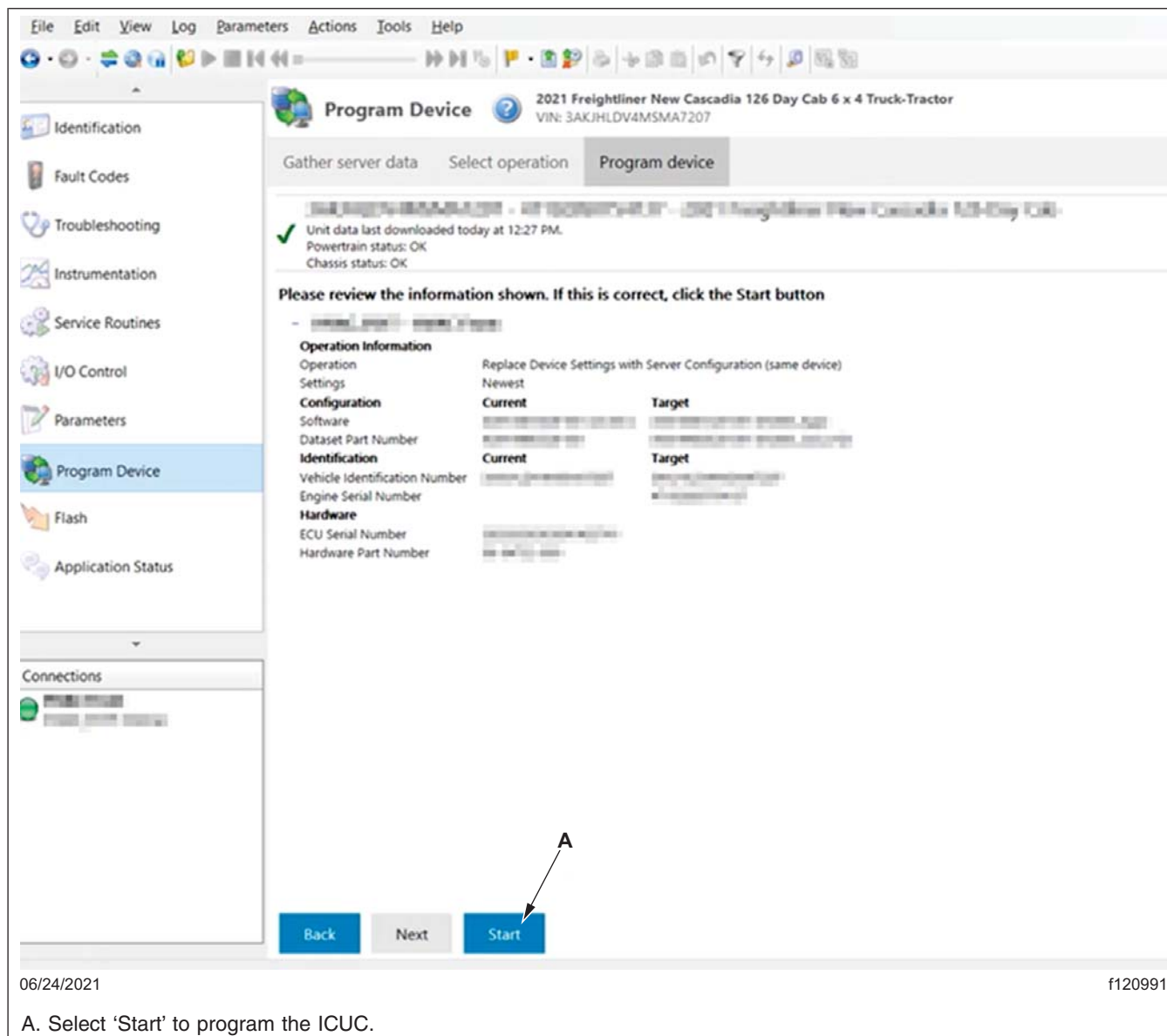


Fig. 10, Starting the ICUC Programming

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

14. When programming is complete, the message 'Success: Programming was successful' will be displayed on the screen indicating the ICUC ECU has been successfully updated.

If the 'Compatibility Information' window appears in DiagnosticLink, follow the substeps below. If the 'Compatibility Information' window does not appear, go to the next step.

- 14.1 Print or capture a screen shot of the 'Compatibility Information' window; an example of this window is shown in [Fig. 11](#).

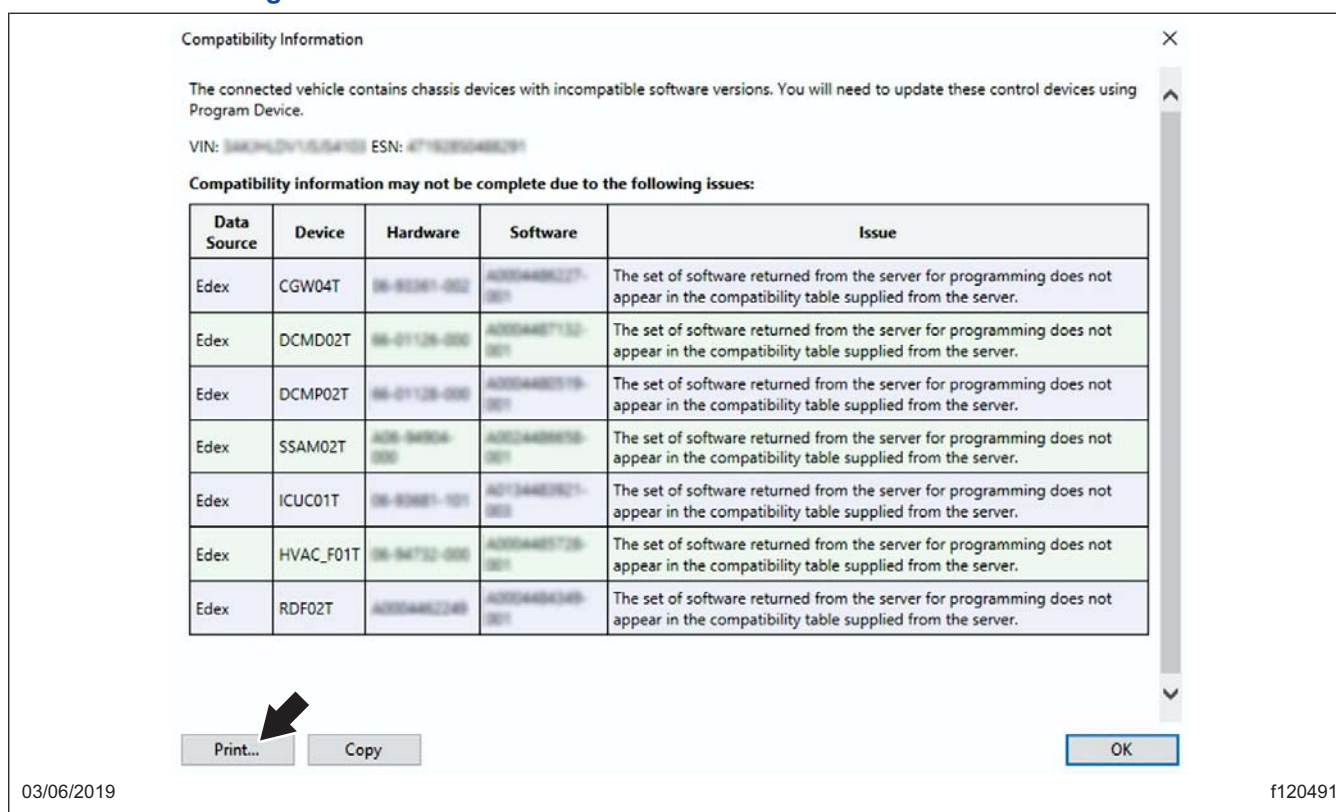


Fig. 11, Printing the Compatibility Information Window

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

14.2 If an ECU has a previous software version, program the ECU as follows.

- Select 'Program Device' on the left-hand side of the window. See [Fig. 12](#).

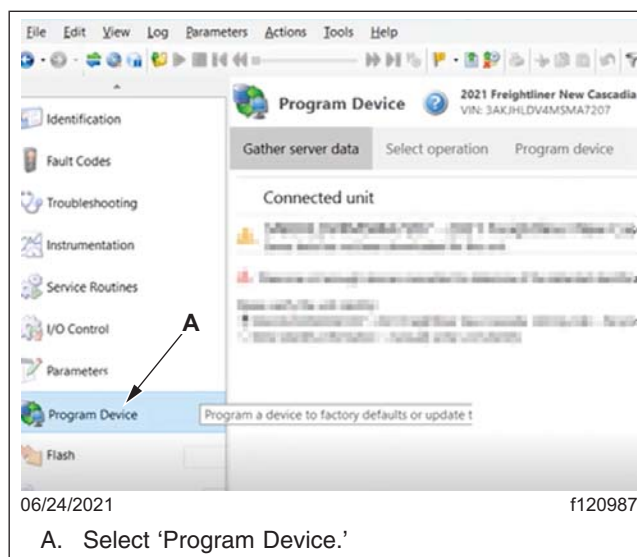


Fig. 12, Selecting Program Device

- Select the ECU to program, then select the VIN. Select either 'Newest' or 'Latest,' then select 'Next.'
- Verify the VIN and hardware part number, then select 'Start' to program the selected ECU.
- Repeat substep 12.2 for all incompatible ECUs, that require programming.

IMPORTANT: After programming, some fault codes may turn active, and some ECUs may not auto-connect. Cycling the ignition may clear the faults and connect the ECUs.

NOTE: If connected to the internet, DiagnosticLink will automatically upload the service record to the server. Otherwise, the service record will be uploaded to the server whenever DiagnosticLink is connected to the internet.

15. Turn the ignition to the OFF position, unplug the diagnostic port, and restart DiagnosticLink. Wait for one minute.

NOTE: The action listed below will enable intelligent predictive powertrain control (IPPC) to start communicating on roll call, and eliminate codes for the IPPC not communicating.

16. Cycle the ignition three times, waiting 30 seconds between key OFF and key ON.

17. Turn the key to the ON position for the fourth time, then connect the vehicle to DiagnosticLink.

18. If any ICUC faults are active, troubleshoot them as required.

19. Disconnect DiagnosticLink.

20. Verify the proper operation of the ICUC bulb check by quickly cycling the ignition OFF, then ON (key OFF less than 3 seconds).

21. **Population B only:** Go to **Population B - Tire Pressure Monitoring System (TPMS) ECU Replacement** procedure.

22. Clean a spot on the base label (Form WAR259) and attach a campaign completion sticker for SF780 (Form WAR260), indicating this work has been completed.

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

Population B - Tire Pressure Monitoring System (TPMS) ECU Replacement

1. In order to read and store the current TPMS ECU configuration, download the 'DTNA ECUSwap' files as follows.
 - 1.1 Go to http://www.smartire.com/downloads/DTNA_ECUSwap.zip.
 - 1.2 The laptop will prompt the user to save the DTNA_ECUSwap Zip file. Save the file in a preferred location in the laptop.
 - 1.3 Extract the downloaded zip (compressed) file.

NOTE: The zip file also includes additional information for this procedure, located in the file 'TPMS ECU Configuration Transfer Instructions.'

2. Once the file extraction is complete, open the file 'DTNA_ECUSwap.exe' and select 'Start ECU Replacement' to begin the configuration process. Turn the ignition ON, then connect the laptop to the vehicle. Follow the prompts to read and store the current TPMS ECU configuration.
3. When the ECU configuration is read, the following message will be displayed: 'The ECU configuration has been read. You may now replace the ECU with Part Number 200.0229. Please leave this window open until ECU has been replaced. Ensure power to ECU has been applied for at least 10 seconds and press OK.'
4. Turn the ignition OFF, then disconnect the batteries.
5. Remove the front bumper to gain access to the TPMS ECU receiver, which is mounted under the front engine support. For instructions, refer to **Group 31** of the *New Cascadia™ Workshop Manual*.
6. Disconnect the wiring harness and the antenna cable from the TPMS ECU receiver. See **Fig. 13**.

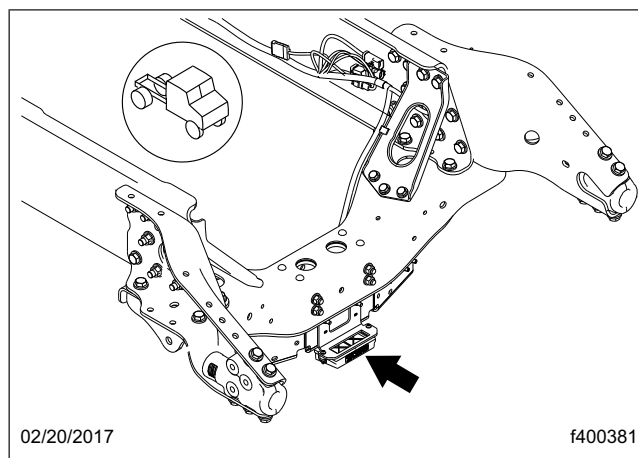


Fig. 13, TPMS Receiver

November 2021
FL780AB
NHTSA #18V-491
Transport Canada #2018-387
FIFTH REVISED NOTICE

7. Remove the two flange-head capscrews, then remove the TPMS ECU receiver.
8. Use the existing bolt holes and the two M6 x 1 flange-head capscrews to attach the new TPMS ECU receiver to the vehicle. Tighten the capscrews 7 to 10 lbf·in (79 to 158 N·cm).
9. With the ignition OFF, connect the wiring harness and the antenna cable to the TPMS ECU receiver.
10. Install the front bumper. For instructions, refer to **Group 31** of the *New Cascadia Workshop Manual*.
11. Connect batteries, then turn the ignition ON.
12. Wait 10 seconds, then follow the DTNA_ECUSwap prompts. Select 'OK.' Continue to follow the prompts to transfer the configuration to the new TPMS ECU. When complete, the message 'ECU Configuration has been successfully transferred' will be displayed.

NOTE: TPMS sensors may take several minutes to be read by the TPMS ECU after each ignition cycle, or after the batteries have been connected. Turn the ignition OFF, then disconnect the laptop.

13. Turn the ignition ON, then verify that the TPMS sensor readings are present. Use the left-hand side steering wheel buttons to navigate to the ICUC Tire Pressure Monitoring screen. See [Fig. 14](#). Tire pressures should be present for each configured axle.



Fig. 14, ICUC Tire Pressure Monitoring Screen

14. Clean a spot on the base label (Form WAR259). Write the recall number, FL780, on a completion sticker (Form WAR260), and attach it to the base label to indicate this recall has been completed.