

October 2021
SF630A

Subject: Cascadia Lane Assist Software

Models Affected: Specific model year 2019-2021 Freightliner Cascadia vehicles manufactured June 18, 2019 through, June 15, 2021.

General Information

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF630A to modify the vehicles mentioned above.

Certain vehicles may experience the loss of Active Lane Assist (ALA) while driving due to decreased sensitivity of the steering wheel, with no visible indicator to the operator. ALA is an accessory system and the driver controlled steering function including power steering is not affected.

The software will be updated to resolve the loss of ALA.

There are approximately 7,150 vehicles involved.

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

There are no replacement parts.

If our records show your dealership has ordered any vehicle(s) involved in campaign number SF630, a list of the customers and vehicle identification numbers will be available on DTNAConnect.

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
SF630A	Lane Assist Software Update	0.6	996-F104A	12-Repair Recall/Campaign

Table 1

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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.

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 (**SF630-A**).
- In the Primary Failed Part field, enter **25-SF630-000**.
- 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 for all vehicles.
- The VMRS Component Code is **F99-999-005** and the Cause Code is **A1 - Campaign**.
- This Field Service Campaign will **terminate on October 31, 2022**. Dealers will be notified of any changes to the termination date via Important Campaign Information Letter posted on DTNACConnect.com.

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. U.S. and Canadian Dealers: All excess inventory to be returned to the PDC following the conclusion of the campaign must be returned in resaleable condition to the Memphis PDC within 90 days from the termination date. Please submit a PAR to request return to the Memphis PDC. (Canadian dealers should return the kits to their facing PDC.). Export Distributors: Excess inventory is not returnable.

For questions, 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, if you have any questions or need additional information. Export distributors submit a Web inquiry or contact your International Service Manager.

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Copy of Notice to Owners

Subject: Cascadia Lane Assist Software

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF630A to modify specific model year 2019-2021 Freightliner Cascadia vehicles manufactured June 18, 2019, through June 15, 2021.

Certain vehicles may experience the loss of Active Lane Assist (ALA) while driving due to decreased sensitivity of the steering wheel, with no visible indicator to the operator. ALA is an accessory system and the driver controlled steering function including power steering is not affected.

The software will be updated to resolve the loss of ALA.

Please contact an authorized Daimler Trucks North America dealer to arrange to have the campaign performed. To locate an authorized dealer, go to Daimler-TrucksNorthAmerica.com/Contact-Us/. Scroll down to "Locate a Dealer," and select the appropriate brand. The campaign will take approximately one hour and will be performed at no charge to you.

This Field Service Campaign will **terminate on October 31, 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, Daimler Trucks North America LLC will not pay for any damage caused by failure to properly maintain your vehicle. Daimler Trucks North America LLC 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@Daimler.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: Cascadia Lane Assist Software

Models Affected: Specific model year 2019-2021 Freightliner Cascadia model vehicles manufactured June 18 2019 through, June 15, 2021.

Programming the APS3

1. Check the base label (Form WAR259) for a completion sticker for SF630 (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. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.

IMPORTANT: To ensure good battery voltage during programming, it is recommended to connect an appropriate battery charger to the vehicle batteries.

3. Connect a battery charger to the vehicle batteries.

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.

4. Connect the vehicle to DiagnosticLink®.
5. Turn the ignition ON, and make sure the default vehicle electronic control units (ECUs) are listed under the 'Connections' window at the bottom-left side of the screen.

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- Go to 'Program Device,' then select 'Gather Server Data.' Verify and select the vehicle identification number (VIN), then select 'Download Data from Server.' See [Fig. 1](#) and [Fig. 2](#).

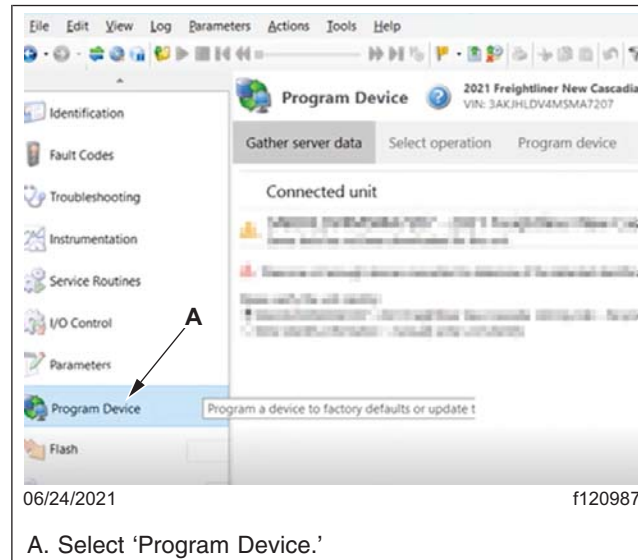


Fig. 1, Selecting Program Device

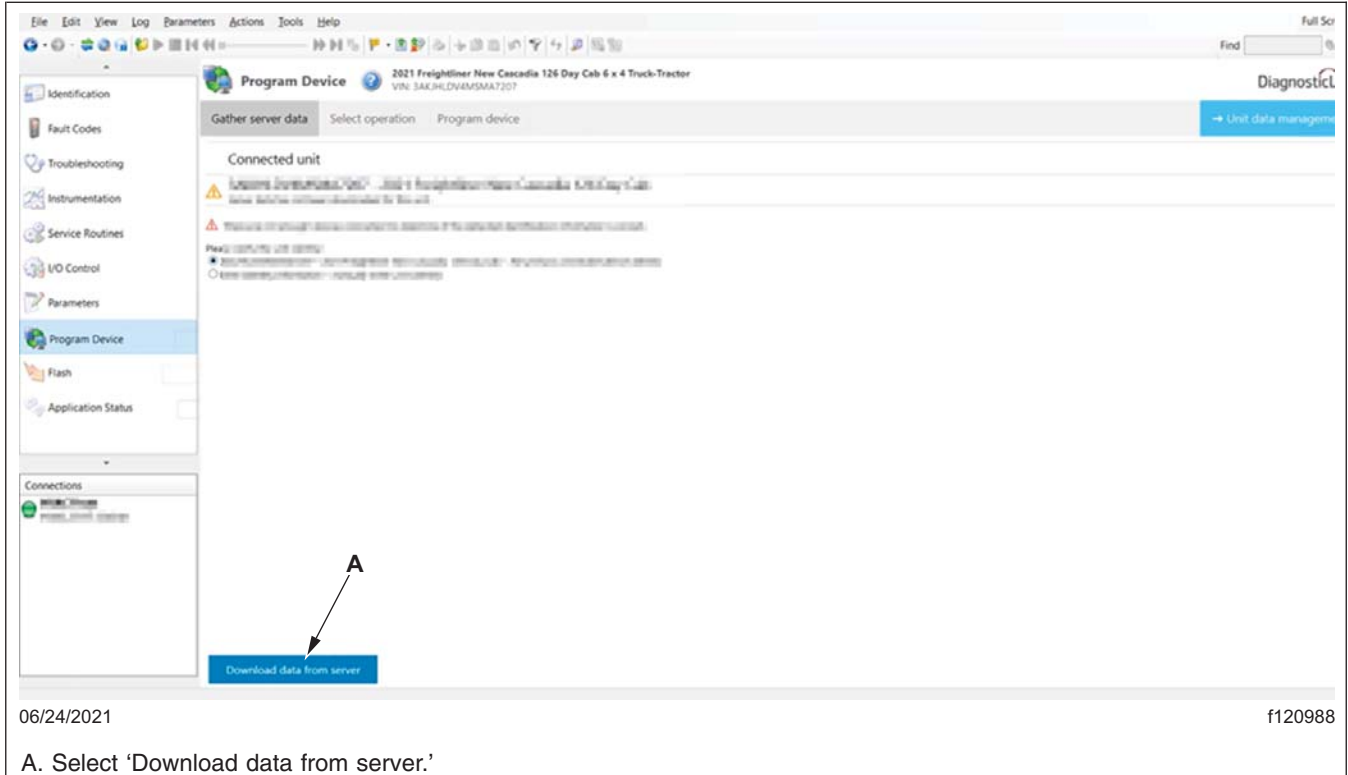


Fig. 2, Downloading Data from Server

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7. When the data has finished downloading, select 'Next.' See [Fig. 3](#).

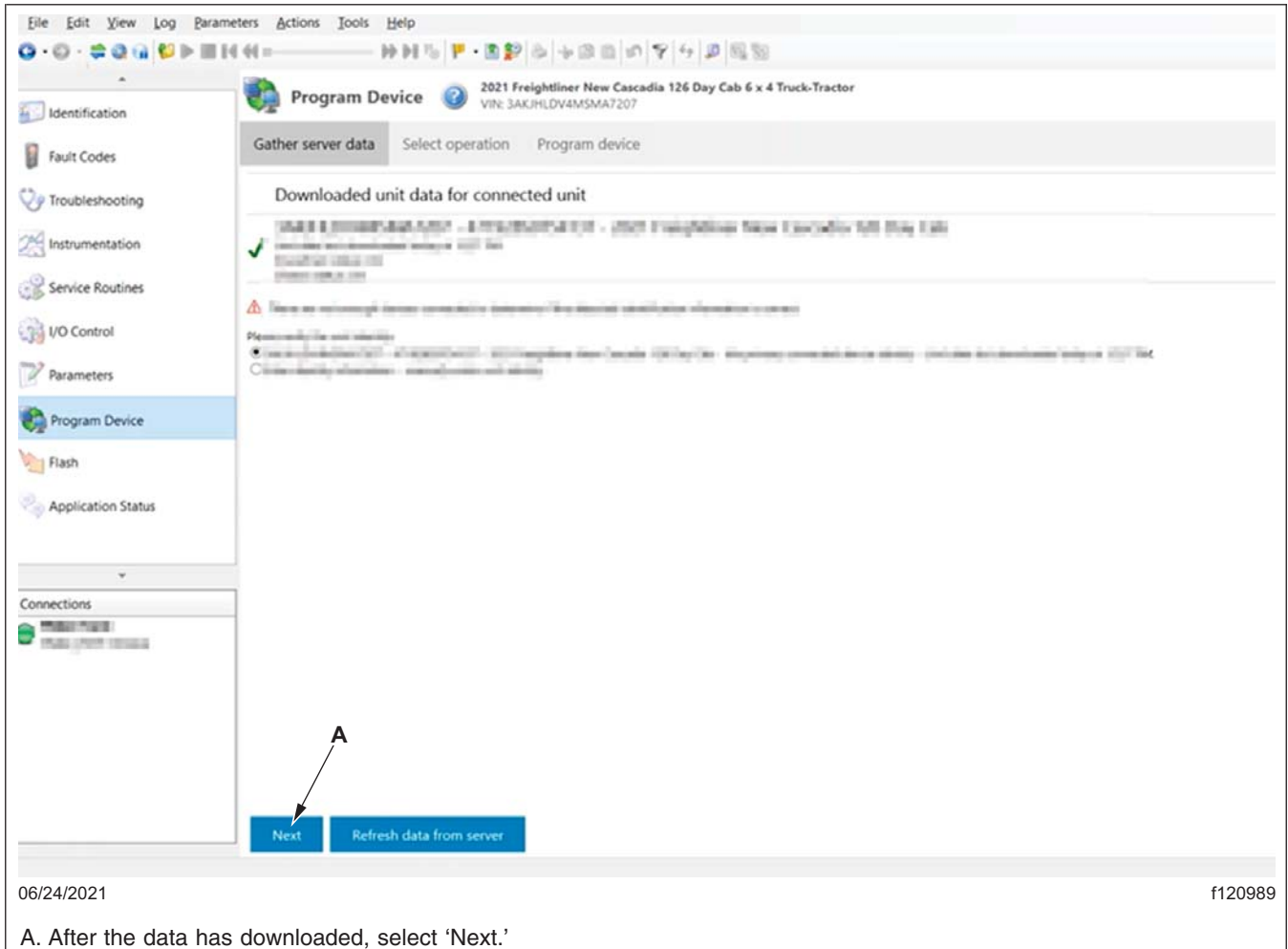


Fig. 3, Data Downloaded from Server

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

8. Select the APS3 ECU to program. See [Fig. 4](#).
9. Select 'Replace Device Setting with Server Configuration' as shown in [Fig. 4](#).

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.

10. Select 'Newest' under 'Select the configuration to apply to the device,' as shown in [Fig. 4](#). If 'Newest' is not available, select 'Latest,' then select 'Next.'

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

Fig. 4, Programming an ECU

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11. Verify the VIN, hardware and software information, then select 'Start' to program the APS3. See [Fig. 5](#).

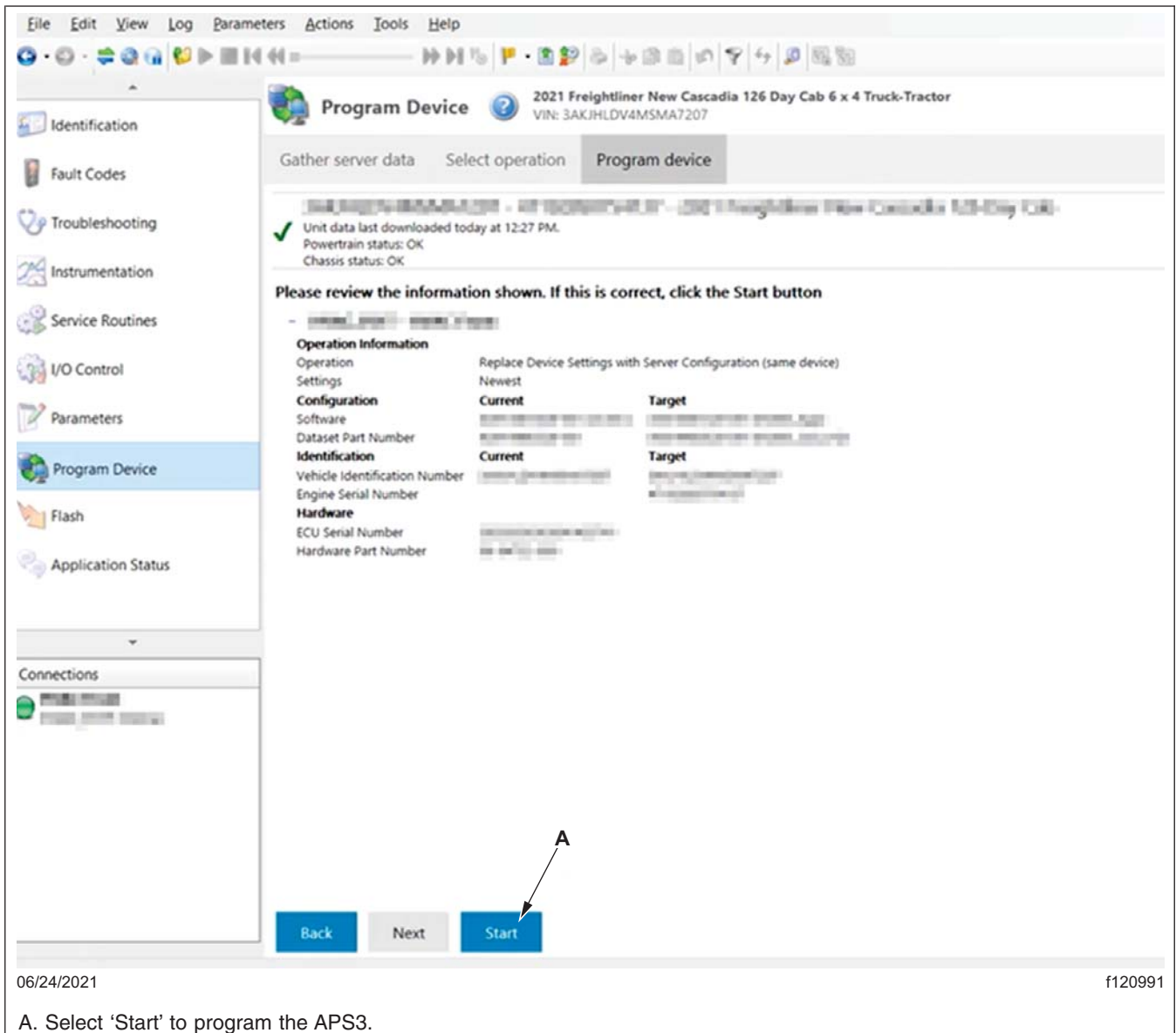


Fig. 5, Starting the APS3 Programming

NOTE: At the time of publication, Diagnosticlink is unable to program the VIN to the APS3.

12. When programming is complete, the message 'Success: Programming was successful' will be displayed on the screen indicating the APS3 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.

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12.1 Print, or capture a screen shot of the 'Compatibility Information' window; an example of this window is shown in **Fig. 6**.

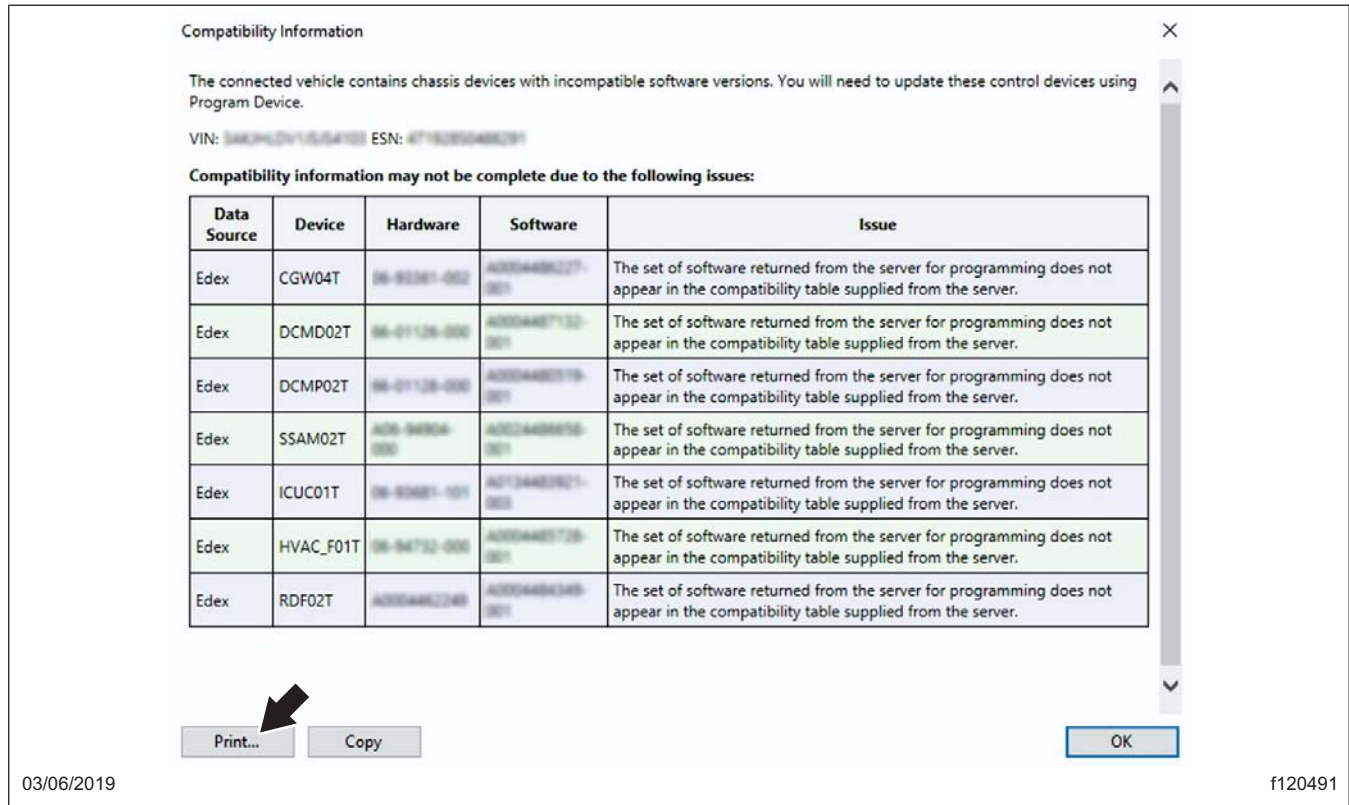


Fig. 6, Printing the Compatibility Information Window

12.2 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. 1**.
- 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.

13. 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.

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

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

NOTE: Active faults in other ECUs (Detroit Assurance components) could affect active lane assist (ALA) functionality. They need to be addressed outside the scope of this campaign.

16. If any APS3 faults are active, troubleshoot them as required.

IMPORTANT:

- To avoid excess friction between the tires and the ground, the APS calibration should only be attempted on a smooth shop floor. If multiple calibration attempts are unsuccessful, lift some weight off the front axle using a jack, but make sure the tires are touching the ground.

Friction can also be reduced by using soapy water between the front tires and floor surface.

- When prompted in the calibration panel to turn the steering wheel, take time and proceed slowly. Turning the steering wheel too fast can result in a failed calibration attempt.
- It may take multiple attempts to achieve a successful calibration. If a successful calibration cannot be achieved after multiple attempts, contact the Customer Assistance Center (CAC) for further assistance.

17. In the Actions menu, select the 'Active Powersteering Alignment' routine. Check the panel to determine if calibration is required. See **Fig. 7**.

Are all the values displayed in green?

YES → Calibration is not required. Go to the next step.

NO → Perform active power steering (APS) calibration. For instructions, refer to **Section 46.09** of the *New Cascadia Workshop Manual*.

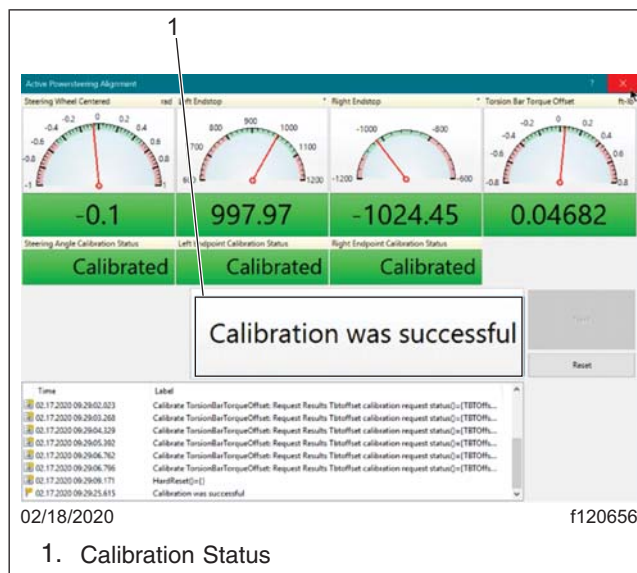


Fig. 7, Calibration Status

18. Disconnect DiagnosticLink.

19. Clean a spot on the base label (Form WAR259) and attach a campaign completion sticker for SF630 (Form WAR260), indicating this work has been completed.