

December 2023
SF669A

Subject: Adaptive Cruise Control

Models Affected: Specific model years 2020-2022 Freightliner Cascadia, Business Class M2, Western Star 47X/49X vehicles, manufactured October 1, 2019, through December 14, 2021.

General Information

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division and wholly owned subsidiary, Western Star Truck Sales, Inc., is initiating Field Service Campaign SF669-A to modify the vehicles mentioned above.

On certain vehicles, the Adaptive Cruise Control (ACC) driver assistance feature is not available from initial vehicle build. Therefore, the ACC telltale shown in Figure 1 will not appear. **Fig. 1**

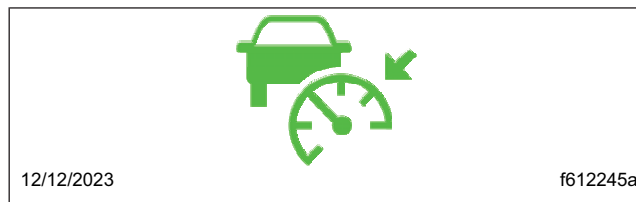


Fig. 1, ACC Information Graphic

To correct the issue involves two parts: (1) The Anti-lock Braking System Modular Braking System Platform (ABS MBSP) software will be updated and (2) the Central Gateway (CGW) wheelbase parameter will be updated to a corrected value.

There are approximately 99 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

There are no replacement parts for this repair.

Removed Parts

There are no removed parts for this repair.

December 2023
SF669A

Labor Allowance

Table 1 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
SF669A	Update the wheelbase parameter in the CGW and ABS MBSP	0.9	996-F174A	12-Repair Recall/Campaign

Table 1

IMPORTANT: When the campaign has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the gray completion sticker (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 (**SF669-A**).
- In the Primary Failed Part field, enter **25-SF669-000**.
- 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.
- The VMRS Component Code is **F99-999-005** and the Cause Code is **A1 - Campaign**.
- This Field Service Campaign will **terminate on December 31, 2024**. Dealers will be notified of any changes to the termination date via an Important Campaign Information Letter (ICI) posted on the DTNA Portal.

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

All claims must be submitted within 30 days of the repair and within 30 days of the termination date of the campaign. 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 using the Warranty Support Center (WSC) app located on the DTNA Portal. Export distributors submit a WSC inquiry or contact your International Service Manager.

**December 2023
SF669A**

Copy of Notice to Owners Subject: Adaptive Cruise Control

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division and wholly owned subsidiary, Western Star Truck Sales, is initiating Field Service Campaign SF669A to modify specific model years 2020-2022 Freightliner Business Class M2, Cascadia, Western Star 47X/49X vehicles, manufactured October 1, 2019, through December 14, 2021.

On certain vehicles, the Adaptive Cruise Control (ACC) driver assistance feature is not available from initial vehicle build. Therefore, the ACC telltale shown in Figure 1 will not appear. **Fig. 1**



Fig. 1, ACC Information Graphic

To correct the issue involves two parts: (1) The Anti-lock Braking System Modular Braking System Platform (ABS MBSP) software will be updated and (2) the Central Gateway (CGW) wheelbase parameter will be updated to a corrected value.

Please contact an authorized Daimler Truck North America dealer to arrange to have the campaign performed and to ensure that parts are available at the dealership. To locate an authorized dealer, search online at Daimler-TruckNorthAmerica.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 December 31, 2024**. 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 Truck North America LLC will not pay for any damage caused by failure to properly maintain your vehicle. Daimler Truck 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 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, e-mail address DTNA.Warranty.Campaigns@Daimlertruck.com, or the Customer Assistance Center at (800) 385-4357, if you have any questions or need additional information.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

December 2023
SF669A

Work Instructions

Subject: Adaptive Cruise Control

Models Affected: Specific model years 2020-2022 Freightliner Business Class M2, Cascadia: Western Star 47X/49X vehicles, manufactured October 1, 2020, through December 14, 2021.

Central Gateway (CGW) and Antilock Braking System (ABS) Parameter Update

1. Check the base label (Form WAR259) for a completion sticker for SF669 (Form WAR261), indicating this work has been done. The base label is usually located on the passenger-side door, about 12 inches (30 cm) below the door latch. If a completion sticker is present, no work is needed. If a completion sticker is not present, proceed to the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.

IMPORTANT: It is recommended to connect a battery charger to the vehicle to avoid potential programming issues due to low voltage.

3. Connect the vehicle to DiagnosticLink®.
4. Turn the ignition key to the 'Run' position.
5. Open DiagnosticLink.

IMPORTANT: Make sure that DiagnosticLink is updated to the latest version (8.17 SP1 at the time of publication or newer) before programming the vehicle.

6. Go to the 'Program Device' tab, and make sure that the vehicle identification number (VIN) is correct. Select 'Download data from server.' See [Fig. 2](#) (Page 5)

December 2023
SF669A

03/23/2022 f121170

A. Select the 'Program Device' tab. C. Select 'Download data from server.'
 B. Verify the VIN.

Fig. 2, Downloading Data from the Server

7. After the server data download is complete, go to the 'Parameters' tab. See [Fig. 3](#).
8. Select and expand the 'CGW04T - Central Gateway' folder by selecting the '+' symbol to the left of it, then select and expand the 'GVCData' sub-folder. Select the 'GVC Wheel Base' parameter, and set the parameter value corresponding to the VIN, shown in [Table 2](#). See [Fig. 3](#).

GVC Wheel Base Parameter Lookup Table				
Serial Number	VIN	Make	Corrected Wheel Base Value	Nearest GVC Wheel Base Parameter Setting
LZ1659	3ALMHLD10LSLZ1659	FTL	5575	A0274476727-001 GVC Wheel Base: 5570
MM7197	3AKNHHD17MSMM7197	FTL	6236	A0264478027-001 GVC Wheel Base: 6250
MM7198	3AKNHHD19MSMM7198	FTL	6236	A0264478027-001 GVC Wheel Base: 6250
MY9655	3ALMHLD19MSMY9655	FTL	5575	A0274476727-001 GVC Wheel Base: 5570
MZ6008	5KKMBWD18NLMZ6008	WST	6083	A0294472027-001 GVC Wheel Base: 6080
MZ6009	5KKMBWD1XNLMZ6009	WST	6083	A0294472027-001 GVC Wheel Base: 6080
NE3212	3ALMHLD13NDNE3212	FTL	5575	A0274476727-001 GVC Wheel Base: 5570
NE7361	1FVMG3FM1NHNE7361	FTL	5004	A0264474927-001 GVC Wheel Base: 5000
NG5295	5KKMBWDR8NLNG5295	WST	6083	A0294472027-001 GVC Wheel Base: 6080
NH4290	5KKMBWFG5NLNH4290	WST	6096	A0114478927-001 GVC Wheel Base: 6100
NH4291	5KKMBWFG7NLNH4291	WST	6096	A0114478927-001 GVC Wheel Base: 6100
NK1631	5KKMBWD10NLNK1631	WST	7531	A0274472527-001 GVC Wheel Base: 7520
NK1632	5KKMBWD12NLNK1632	WST	7531	A0274472527-001 GVC Wheel Base: 7520
NK1633	5KKMBWD14NLNK1633	WST	7531	A0274472527-001 GVC Wheel Base: 7520

December 2023
SF669A

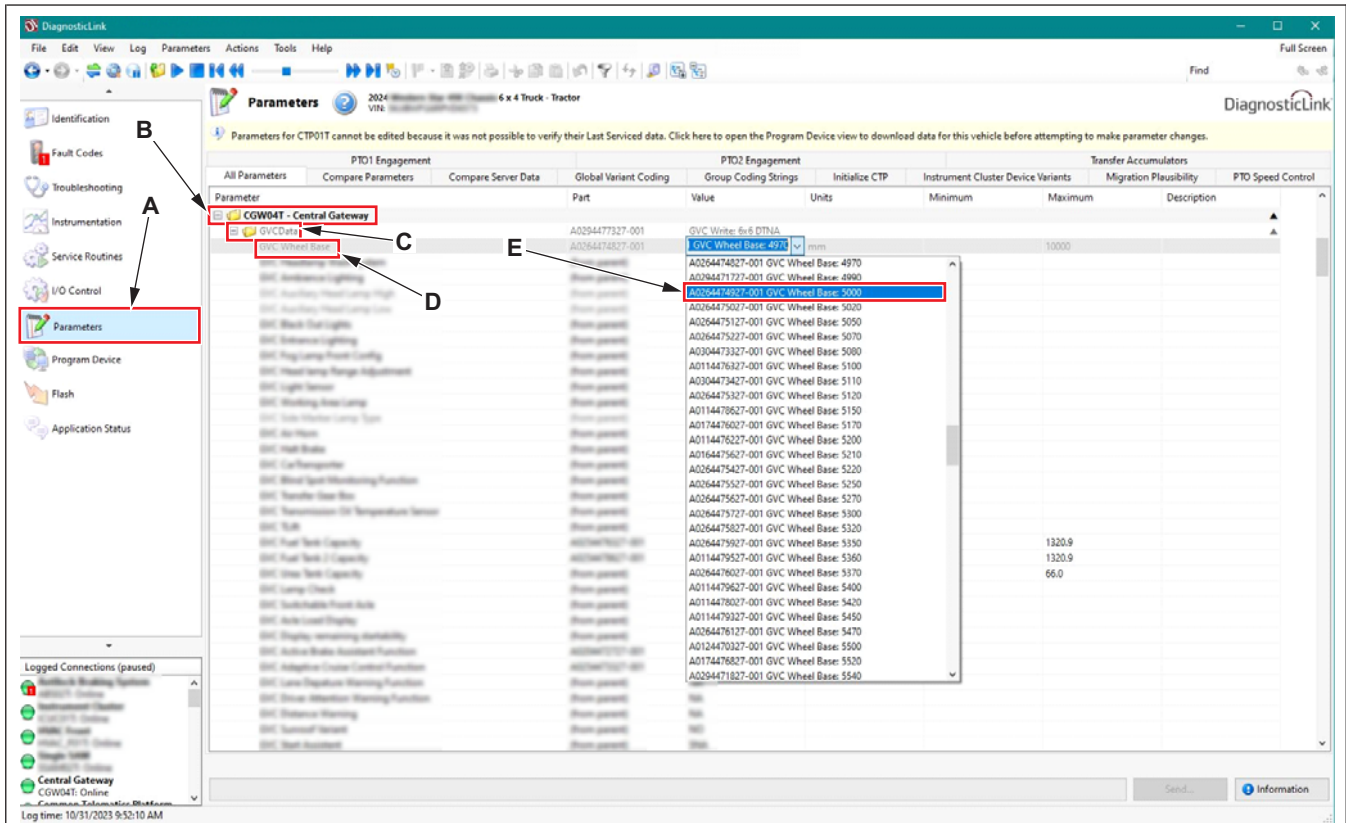
GVC Wheel Base Parameter Lookup Table				
Serial Number	VIN	Make	Corrected Wheel Base Value	Nearest GVC Wheel Base Parameter Setting
NK1634	5KKMBWD16NLNK1634	WST	7531	A0274472527-001 GVC Wheel Base: 7520
NK1635	5KKMBWD18NLNK1635	WST	7531	A0274472527-001 GVC Wheel Base: 7520
NK1636	5KKMBWD1XNLNK1636	WST	7531	A0274472527-001 GVC Wheel Base: 7520
NK1637	5KKMBWD11NLNK1637	WST	6591	A0114476527-001 GVC Wheel Base: 6600
NK1638	5KKMBWD13NLNK1638	WST	6591	A0114476527-001 GVC Wheel Base: 6600
NK1734	5KKMBWFM0NLNK1734	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1735	5KKMBWFM2NLNK1735	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1737	5KKMBWFM6NLNK1737	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1738	5KKMBWFM8NLNK1738	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1740	5KKMBWFM6NLNK1740	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1741	5KKMBWFM8NLNK1741	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1742	5KKMBWFMXNLNK1742	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1753	5KKMBWFM4NLNK1753	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1754	5KKMBWFM6NLNK1754	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1755	5KKMBWFM8NLNK1755	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1759	5KKMBWFM5NLNK1759	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1760	5KKMBWFM1NLNK1760	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1761	5KKMBWFM3NLNK1761	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1762	5KKMBWFM5NLNK1762	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1763	5KKMBWFM7NLNK1763	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK1765	5KKMBWFM0NLNK1765	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NK7619	5KKMBWDRXNLNK7619	WST	6031	A0264477327-001 GVC Wheel Base: 6020
NL4983	5KKMBWFM9NLNL4983	WST	5893	A0264476927-001 GVC Wheel Base: 5900
NL6146	5KKMBWD12NLNL6146	WST	5963	A0114478227-001 GVC Wheel Base: 5960
NL6693	5KKMBWD19NLNL6693	WST	7303	A0274471627-001 GVC Wheel Base: 7300
NM2110	5KKMBPFM4NLNM2110	WST	6134	A0264477527-001 GVC Wheel Base: 6120
NM3065	5KKMBWDR7NLNM3065	WST	4686	A0264473927-001 GVC Wheel Base: 4700
NM3066	5KKMBWFM7NLNM3066	WST	4686	A0264473927-001 GVC Wheel Base: 4700
NM3563	5KKMBPFM2NLNM3563	WST	5613	A0264476327-001 GVC Wheel Base: 5600
NM3977	5KKMBWFM4NLNM3977	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NM3978	5KKMBWFM6NLNM3978	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NM3979	5KKMBWFM8NLNM3979	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NM3980	5KKMBWFM4NLNM3980	WST	4788	A0124470427-001 GVC Wheel Base: 4800
NM4291	5KKMBWDRXNLNM4291	WST	5258	A0264475527-001 GVC Wheel Base: 5250
NM4292	5KKMBWDR1NLNM4292	WST	5258	A0264475527-001 GVC Wheel Base: 5250
NM4293	5KKMBWDR3NLNM4293	WST	5258	A0264475527-001 GVC Wheel Base: 5250
NM4294	5KKMBWDR5NLNM4294	WST	5258	A0264475527-001 GVC Wheel Base: 5250
NM5589	5KKMBWD14NLNM5589	WST	5550	A0264476227-001 GVC Wheel Base: 5550
NM9066	5KKMBWDR6NLNM9066	WST	6096	A0114478927-001 GVC Wheel Base: 6100
NM9067	5KKMBWDR8NLNM9067	WST	6096	A0114478927-001 GVC Wheel Base: 6100
NM9078	5KKMBWDR2NLNM9078	WST	6096	A0114478927-001 GVC Wheel Base: 6100
NN1499	5KKMBWFM1NLNN1499	WST	5893	A0264476927-001 GVC Wheel Base: 5900
NN1500	5KKMBWFM4NLNN1500	WST	5893	A0264476927-001 GVC Wheel Base: 5900
NN1513	5KKMBWD11NLNN1513	WST	6185	A0164476027-001 GVC Wheel Base: 6180
NN1514	5KKMBWD13NLNN1514	WST	6185	A0164476027-001 GVC Wheel Base: 6180
NN1515	5KKMBWD15NLNN1515	WST	6185	A0164476027-001 GVC Wheel Base: 6180

December 2023
SF669A

GVC Wheel Base Parameter Lookup Table				
Serial Number	VIN	Make	Corrected Wheel Base Value	Nearest GVC Wheel Base Parameter Setting
NN1516	5KKMBWD17NLNN1516	WST	6185	A0164476027-001 GVC Wheel Base: 6180
NN1517	5KKMBWD19NLNN1517	WST	6185	A0164476027-001 GVC Wheel Base: 6180
NN1807	5KKMBWD17NLNN1807	WST	6591	A0114476527-001 GVC Wheel Base: 6600
NN1808	5KKMBWD19NLNN1808	WST	6591	A0114476527-001 GVC Wheel Base: 6600
NN1819	5KKMBWFM4NLNN1819	WST	7125	A0274470927-001 GVC Wheel Base: 7120
NN2685	5KKMBWDR5NLNN2685	WST	7125	A0274470927-001 GVC Wheel Base: 7120
NN3948	5KKMBWFM3NLNN3948	WST	5381	A0264476027-001 GVC Wheel Base: 5370
NN4067	5KKMBWD18NLNN4067	WST	5626	A0264476427-001 GVC Wheel Base: 5620
NN4220	5KKMBWDR4NLNN4220	WST	6795	A0264479627-001 GVC Wheel Base: 6800
NN4400	5KKMBWFG1NLNN4400	WST	5448	A0114479327-001 GVC Wheel Base: 5450
NN4583	5KKMBWFM5NLNN4583	WST	5398	A0114479627-001 GVC Wheel Base: 5400
NN4584	5KKMBWFM7NLNN4584	WST	5398	A0114479627-001 GVC Wheel Base: 5400
NN4644	5KKMBWD19NLNN4644	WST	7531	A0274472527-001 GVC Wheel Base: 7520
NN4645	5KKMBWD10NLNN4645	WST	7531	A0274472527-001 GVC Wheel Base: 7520
NN4846	5KKMBWD1XNLNN4846	WST	6896	A0274470027-001 GVC Wheel Base: 6900
NN5553	5KKMBWD10NLNN5553	WST	5740	A0124470027-001 GVC Wheel Base: 5750
NN5570	5KKMBWDR3NLNN5570	WST	5093	A0304473327-001 GVC Wheel Base: 5080
NN5571	5KKMBWDR5NLNN5571	WST	4686	A0264473927-001 GVC Wheel Base: 4700
NN5572	5KKMBWDR7NLNN5572	WST	4686	A0264473927-001 GVC Wheel Base: 4700
NN5573	5KKMBWDR9NLNN5573	WST	4686	A0264473927-001 GVC Wheel Base: 4700
NN5700	5KKMBWD19NLNN5700	WST	5067	A0264475227-001 GVC Wheel Base: 5070
NN5701	5KKMBWD10NLNN5701	WST	5017	A0264475027-001 GVC Wheel Base: 5020
NN5890	5KKMBWDRXNLNN5890	WST	5982	A0294471927-001 GVC Wheel Base: 5980
NN5891	5KKMBWDR1NLNN5891	WST	5982	A0294471927-001 GVC Wheel Base: 5980
NN5892	5KKMBWDR3NLNN5892	WST	5888	A0264476927-001 GVC Wheel Base: 5900
NN6206	5KKMBWD16NLNN6206	WST	5448	A0114479327-001 GVC Wheel Base: 5450
NN6212	5KKMBWD11NLNN6212	WST	5448	A0114479327-001 GVC Wheel Base: 5450
NN6213	5KKMBWD13NLNN6213	WST	5448	A0114479327-001 GVC Wheel Base: 5450
NN6214	5KKMBWD15NLNN6214	WST	5448	A0114479327-001 GVC Wheel Base: 5450
NN6229	5KKMBWFM8NLNN6229	WST	5931	A0264477027-001 GVC Wheel Base: 5920
NN6241	5KKMBWD18NLNN6241	WST	6439	A0264478427-001 GVC Wheel Base: 6450
NN7419	5KKMBWD16NLNN7419	WST	6401	A0114477327-001 GVC Wheel Base: 6400
NN7704	5KKMBWD15NLNN7704	WST	7125	A0274470927-001 GVC Wheel Base: 7120
NN7711	5KKMBWD12NLNN7711	WST	6185	A0164476027-001 GVC Wheel Base: 6180
NP1222	5KKMBWD12NLNP1222	WST	5410	A0114479627-001 GVC Wheel Base: 5400
NP1832	5KKMBWD17NLNP1832	WST	5601	A0264476327-001 GVC Wheel Base: 5600
NP8716	5KKMBWD17NLNP8716	WST	6083	A0294472027-001 GVC Wheel Base: 6080
NP8717	5KKMBWD19NLNP8717	WST	6096	A0114478927-001 GVC Wheel Base: 6100
NS0391	5KKMBWD11NLNS0391	WST	5258	A0264475527-001 GVC Wheel Base: 5250

Table 2, GVC Wheel Base Parameter Lookup Table

December 2023
SF669A



11/16/2023

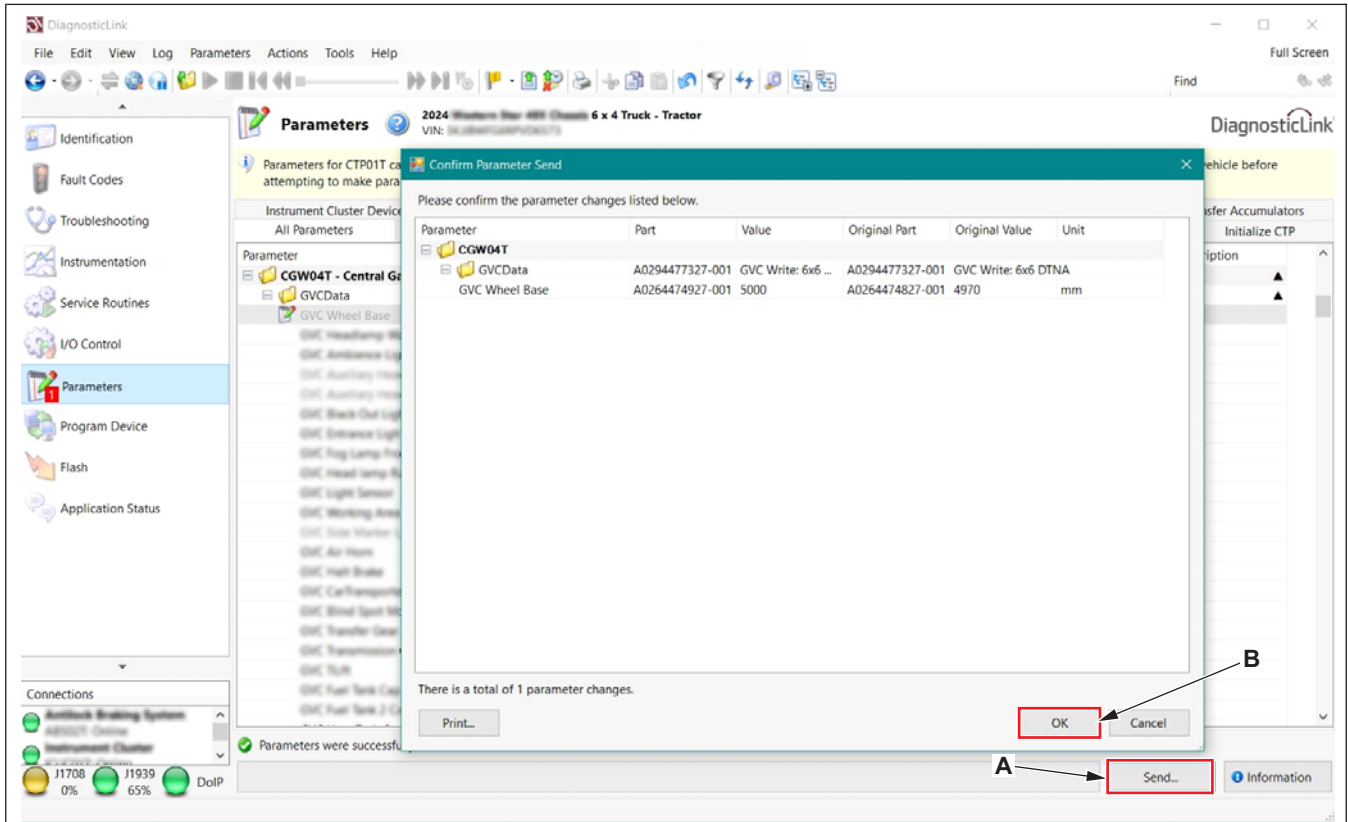
f121464

- A. Select the 'Parameters' tab.
- B. Select and expand the 'CGW04T - Central Gateway' folder.
- C. Select and expand the 'GVCData' sub-folder.
- D. Select the 'GVC Wheel Base' parameter.
- E. Set the applicable parameter value.

Fig. 3, Setting the Parameter Value

December 2023
SF669A

9. Select the 'Send' button to write the parameter change to the vehicle. A window will open asking to confirm the parameter change. Select 'OK.' See Fig. 4.



11/16/2023

f121465

A. Select the 'Send' button.

B. Select 'OK' to confirm the parameter.

Fig. 4, Writing the Parameter Changes to the Vehicle

December 2023
SF669A

- Once the parameter change is complete, go to the 'Program Device' tab, then select 'Unit data management' in the upper-right corner. See [Fig. 5](#).

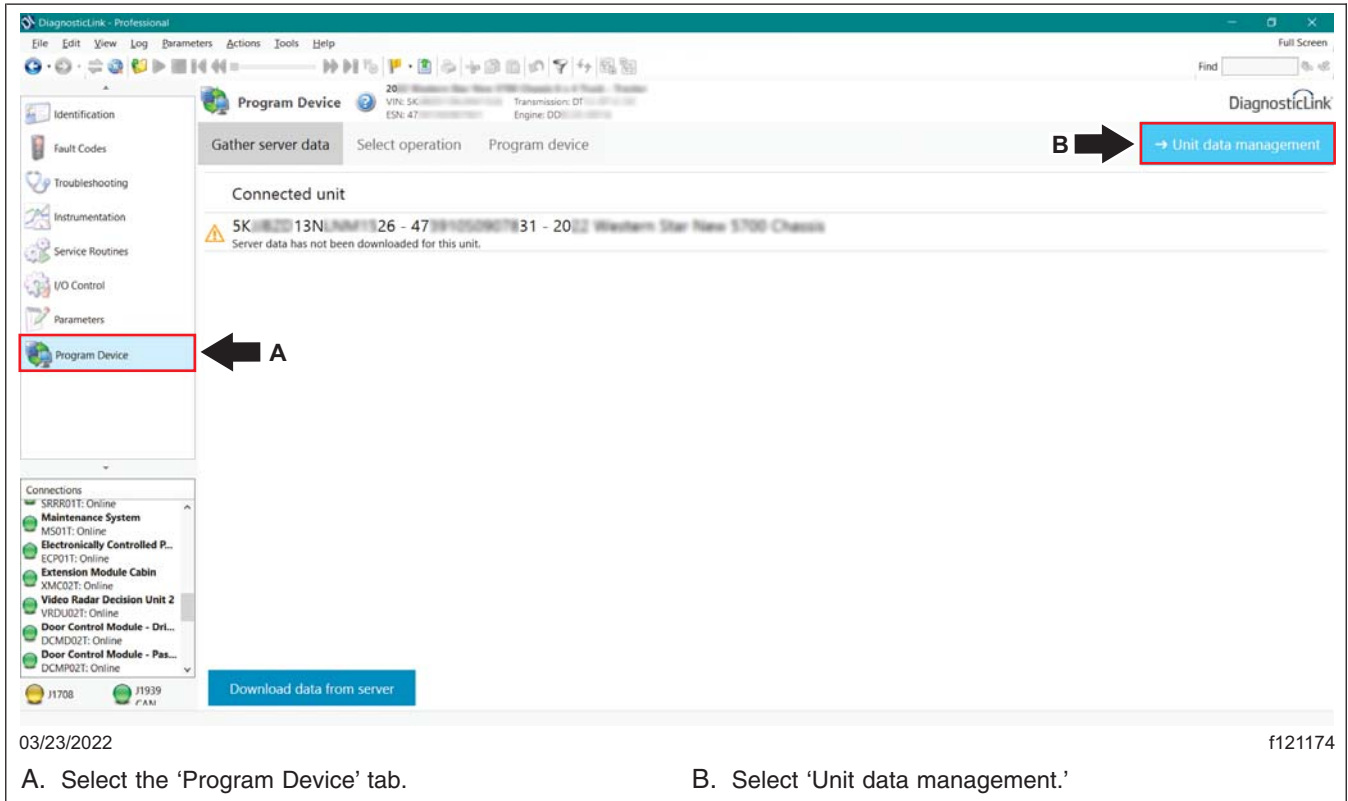


Fig. 5, Selecting Unit Data Management

December 2023
SF669A

- The information corresponding to the VIN should appear under 'Unit data for upload.' Select 'Connect to server' to upload the new parameters. See Fig. 6.

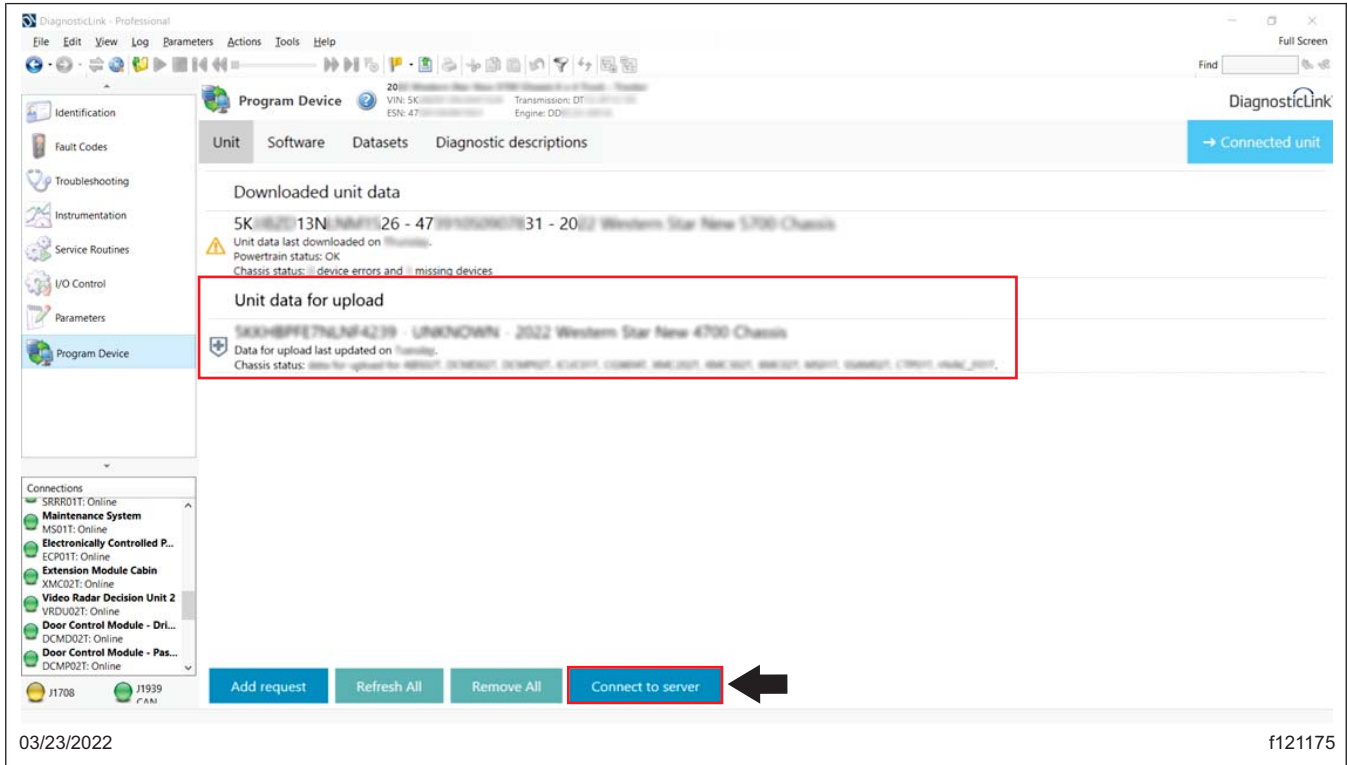


Fig. 6, Uploading the New Parameters

- Once the parameter updates are uploaded to the server, locate the ABS engine control unit (ECU) part number.

December 2023
SF669A

- 12.1 Go to the 'Identification' tab, then select the 'Common' tab. Expand the 'ABS02T - Antilock Braking System' information tab. Under the ABS information, find the 'Hardware Part Number.' See Fig. 7.

The screenshot shows the DiagnosticLink software interface for a 2023 Western Star 49X Chassis 6 x 4 Truck. The 'Identification' tab is selected, and the 'Common' sub-tab is active. The 'ABS02T - Antilock Braking System' information is expanded, showing the following details:

Device Configuration	
Software Mode	Running in Application

Device Information	
Software Version	20.11.0
Diagnostic Version	10
ECU Serial Number	31-32-33-33-31-34-33-31-33-33
Hardware Part Number	A400 864 83 70 ZGS 001
Software Part Number	A001 448 19 14 ZGS 002

Diagnostic Variant	
Diagnostic Variant Part Number	A00000114-001

Vehicle Identification	
VIN	5KKHBWDV3PPUK7064

Annotations in the image: A points to the 'Identification' tab, B points to the 'Common' sub-tab, C points to the 'ABS02T - Antilock Braking System' information tab, and D points to the 'Hardware Part Number' field.

08/16/2023 f121423

- A. Go to the 'Identification' tab.
- B. Select 'Common.'
- C. Expand the 'ABS02T - Antilock Braking System' information tab.
- D. Make a note of the ABS 'Hardware Part Number.'

Fig. 7, Using DiagnosticLink to determine the ABS Part Number

- 12.2 Write down the ABS 'Hardware Part Number' as it will be needed later in this procedure.

NOTE: The portion of the part number that will be needed is between 'A' and 'ZGS.' For example, if the Hardware Part Number noted in DiagnosticLink is **A4008671790ZGS001**, the portion that will be needed later is **4008671790**.

- 12.3 Close DiagnosticLink.

IMPORTANT: To perform the ECU programming, a configuration file must be downloaded from the WABCO website. Go to <https://wabco.snapon.com>, and sign-in if your account exists. If you do not have an account, create a new account. If you have purchased TOOLBOX™ software, then you already have an account. Use that account information to log in.

IMPORTANT: It is recommended to connect a battery charger to the vehicle to avoid potential programming issues due to low voltage.

December 2023
SF669A

13. Sign-in to <https://wabco.snapon.com>, then select 'Aftermarket Programming Configuration Files' at the top of the screen. See [Fig. 8](#) and [Fig. 9](#).

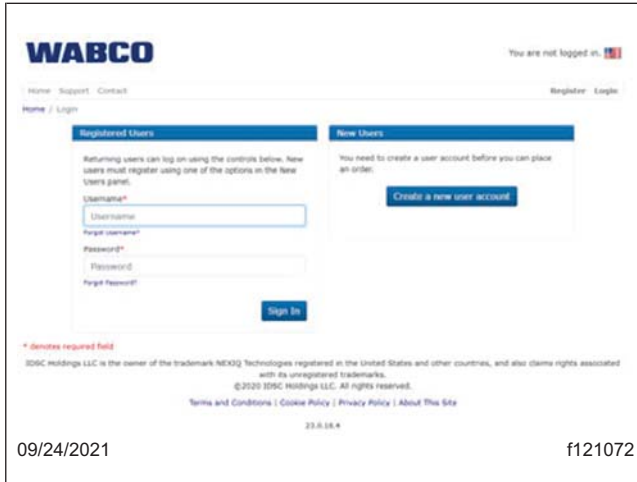


Fig. 8, Wabco Sign-In Page



Fig. 9, Selecting Aftermarket Programming Configuration Files

IMPORTANT: The VIN must include all 17 characters. Enter the ABS ECU part number obtained in substep 13.1, without any spaces, in the 'ECU Part Number Being Replaced' and the 'New ECU Part Number' fields.

14. Enter the VIN and the ABS ECU part number, then select 'Find Configuration.' See [Fig. 10](#).

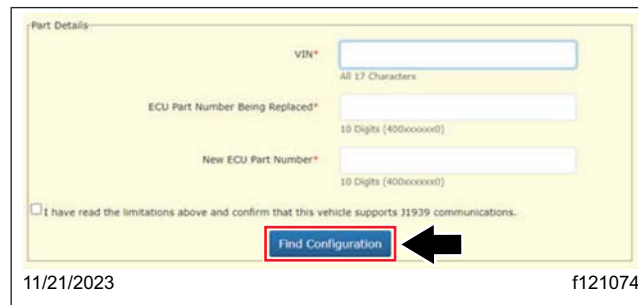


Fig. 10, Finding ABS ECU Configuration

NOTE: WABCO aftermarket programming configuration files are free of cost. The user will not be billed any amount.

December 2023
SF669A

15. The configuration file details for the VIN and ABS ECU part number combination will be displayed. Verify the VIN and part number, then select 'Add to shopping cart.' See [Fig. 11](#).

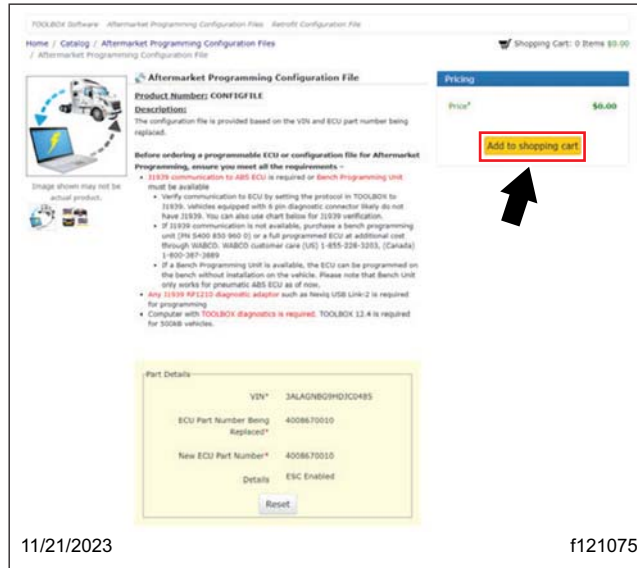


Fig. 11, Adding Configuration Files to Shopping Cart

16. Once the configuration file has been added to the shopping cart, select 'Go To Shopping Cart' or 'Checkout' in the window that appears. See [Fig. 12](#).

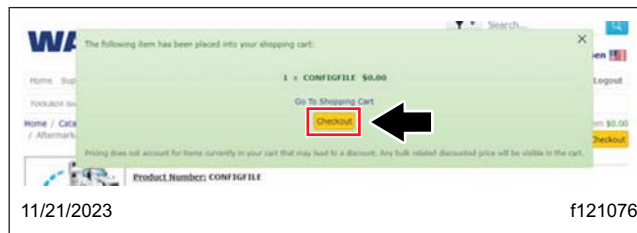


Fig. 12, Selecting Checkout

December 2023
SF669A

17. In the 'Contact Details' window, contact information will be automatically displayed, as per the sign-in user data. If required, edit any information. Once the correct contact details are entered, select 'Bill to this address.' See [Fig. 13](#)

11/21/2023 f121077

Fig. 13, Selecting Bill to this Address

18. In the 'Order Details' screen, verify all the details, then check the box to accept the terms and conditions of the download. Select 'Place Order.' See [Fig. 14](#).

11/21/2023 f121078

Fig. 14, Selecting Place Order

December 2023
SF669A

19. Once the order is processed, a link to download the configuration file will be displayed. Select the hyper-link to download the configuration file. See [Fig. 15](#).

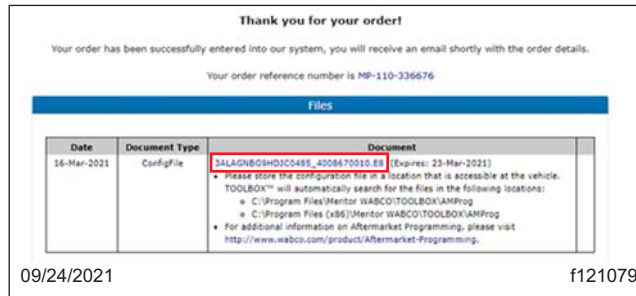


Fig. 15, Link to the Configuration File

IMPORTANT: Save the configuration file to a location that can be accessed when the laptop is connected to the vehicle. The aftermarket programming application will allow the file selection from any location in the computer.

20. A message window will appear recommending the file storage location. Select 'OK' to continue. See [Fig. 16](#).

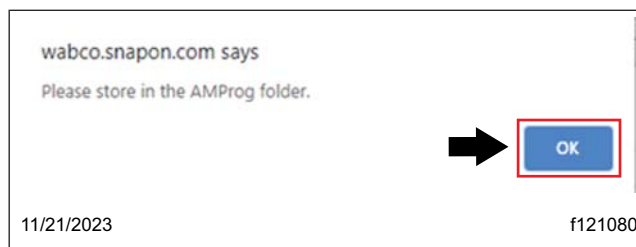


Fig. 16, Storage Location Recommendation

21. Connect a Nexiq RP1210 adaptor to the vehicle's 9-pin diagnostic connector.

December 2023
SF669A

22. Open WABCO TOOLBOX™ (version 13.7 or higher at the time of publication). In the main menu, select 'Aftermarket Programming.' See Fig. 17.

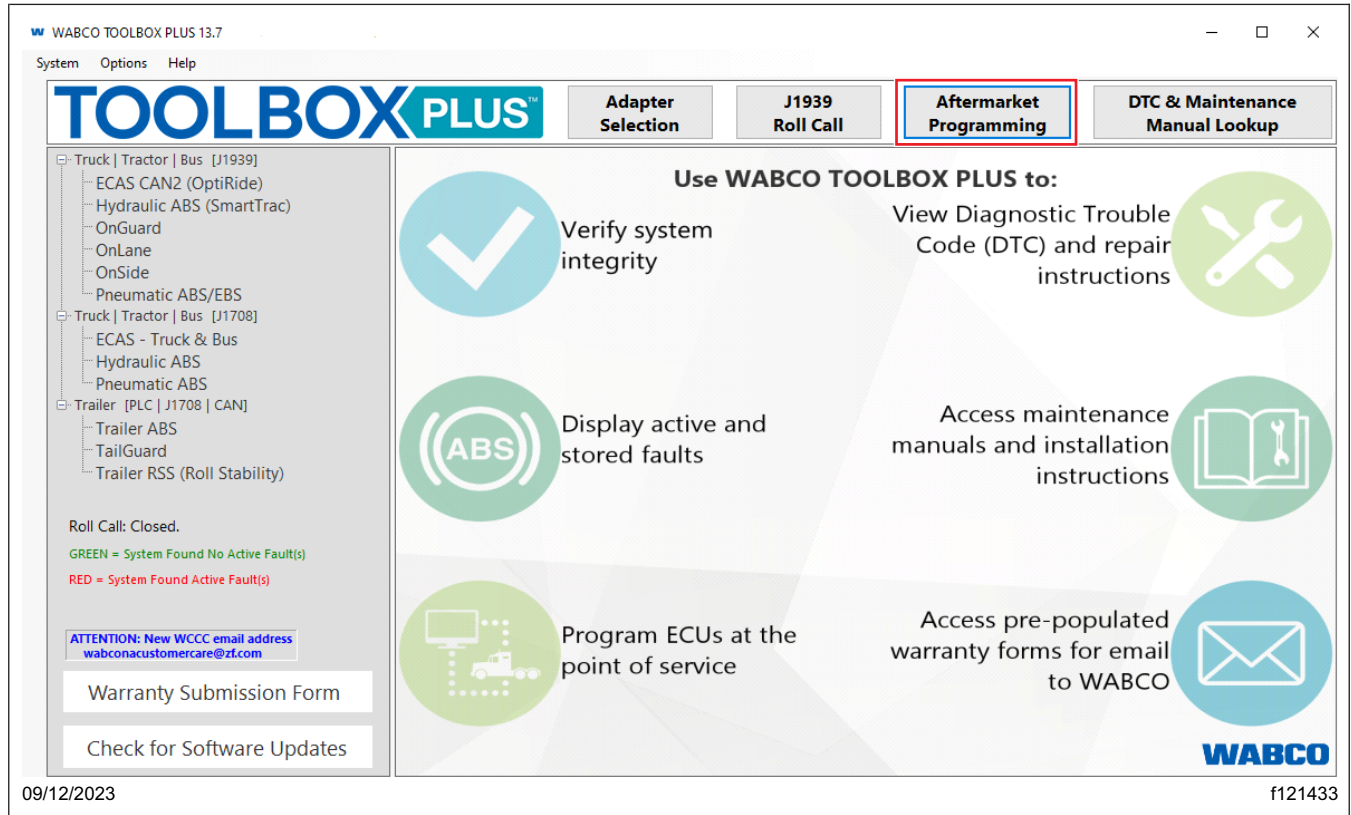


Fig. 17, Selecting Aftermarket Programming

23. A message will be displayed indicating that the ECU parameters will be changed after the programming. Select 'Yes' to continue. See Fig. 18.

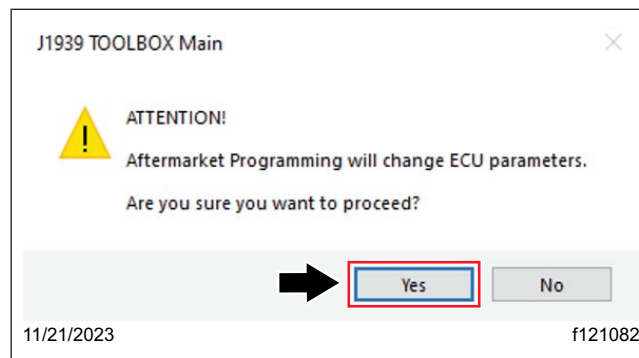


Fig. 18, Selecting Yes to Proceed to the ECU Programming

December 2023
SF669A

24. A window will now appear asking the user to select the configuration file. Select 'OK' to proceed. See [Fig. 19](#).



Fig. 19, Selecting OK to Proceed to Browsing

25. Use the file selection box to locate and select the configuration file that was downloaded. Confirm the part number and VIN of the vehicle. Select the file, then select 'Open.' See [Fig. 20](#).

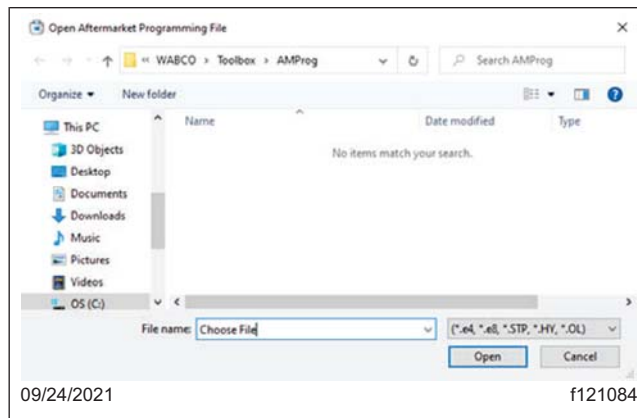


Fig. 20, Locating and Selecting the Configuration File

26. After the file is selected, the 'Aftermarket Programming' window will appear. The programming will start, and the process status will be displayed in the status box. Upon successful programming, a green 'PASS' indicator will appear at the bottom of the window. See [Fig. 21](#). If the programming process fails for any reason, a red 'FAIL' indicator will appear at the bottom of the window. An error code will be displayed with instructions. Record the error code, and contact the WABCO Customer Care Center 855-228-3203.



Fig. 21, Green Pass Indicator

December 2023
SF669A

27. Close the 'Aftermarket Programming' window.
28. Perform the electronic stability control (ESC) end of line (EOL) procedure.
 - 28.1 In the 'WABCO Pneumatic ABS mBSP' window, select 'Components,' then from the drop-down list, select 'ESC.' See [Fig. 22](#).

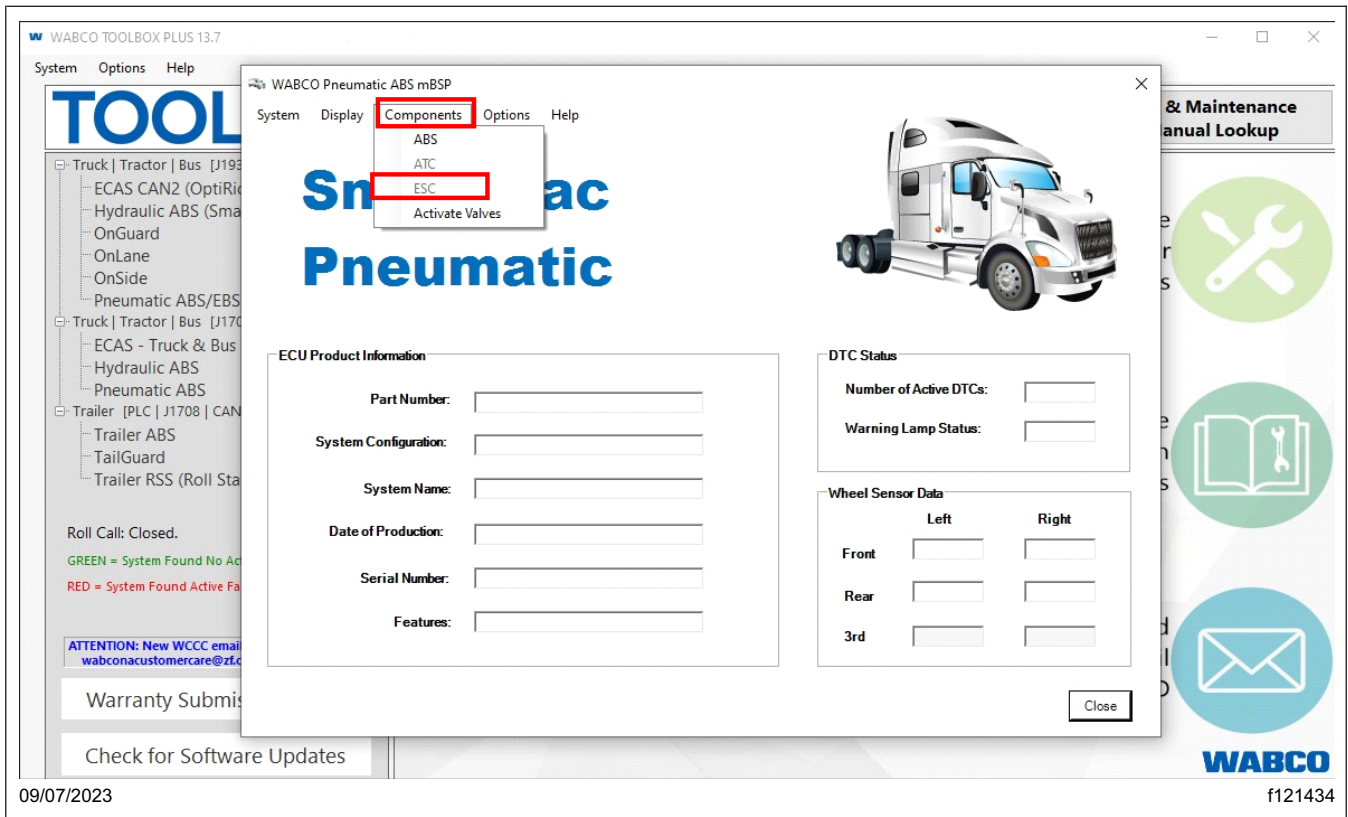


Fig. 22, Navigating to the ESC Window in Toolbox

December 2023
SF669A

28.2 In the 'TOOLBOX - ESC' window, select the 'ESC EOL' button. See [Fig. 23](#).

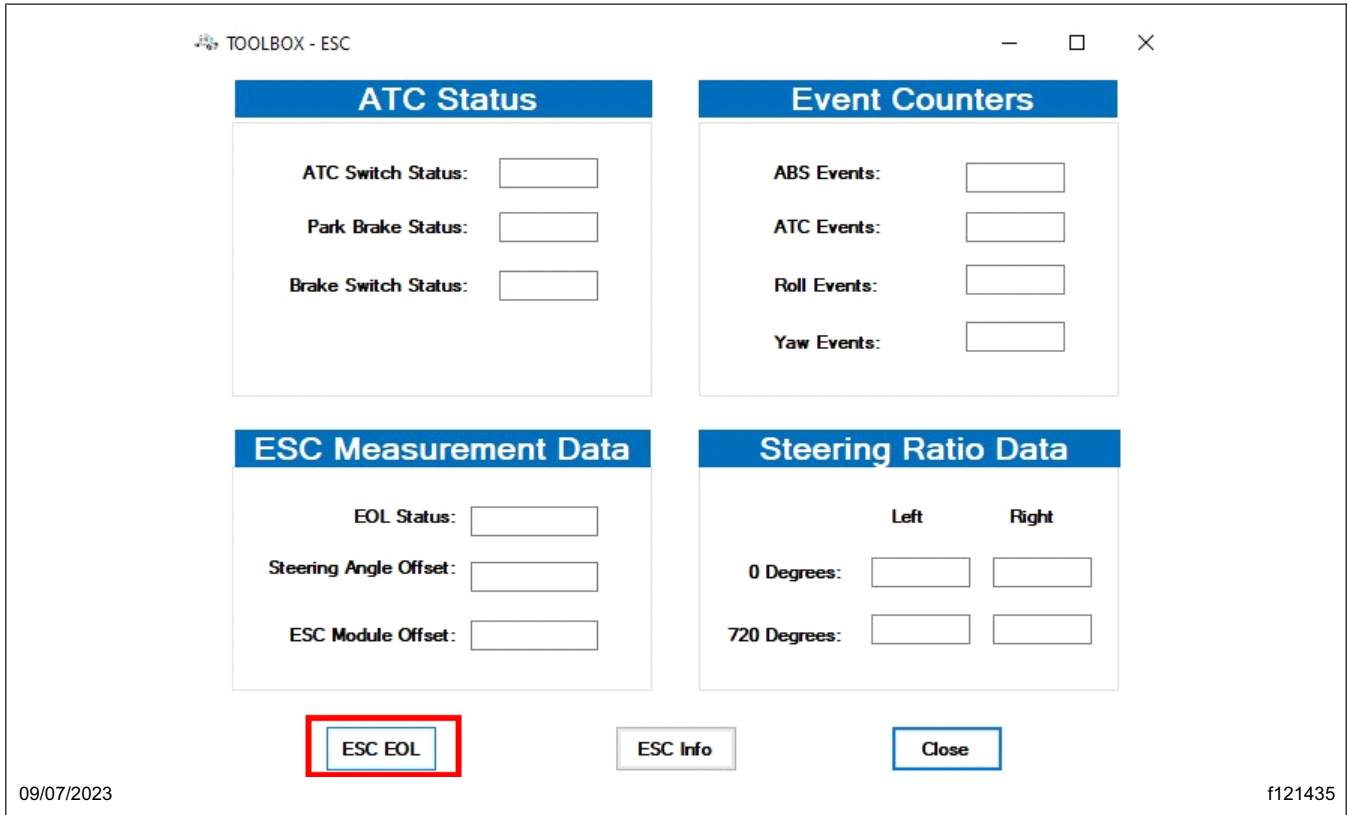


Fig. 23, Selecting the ESC EOL Procedure in Toolbox

28.3 In the 'ESC End of Line Selection' panel, select the 'ESC Initialization.' See [Fig. 24](#)

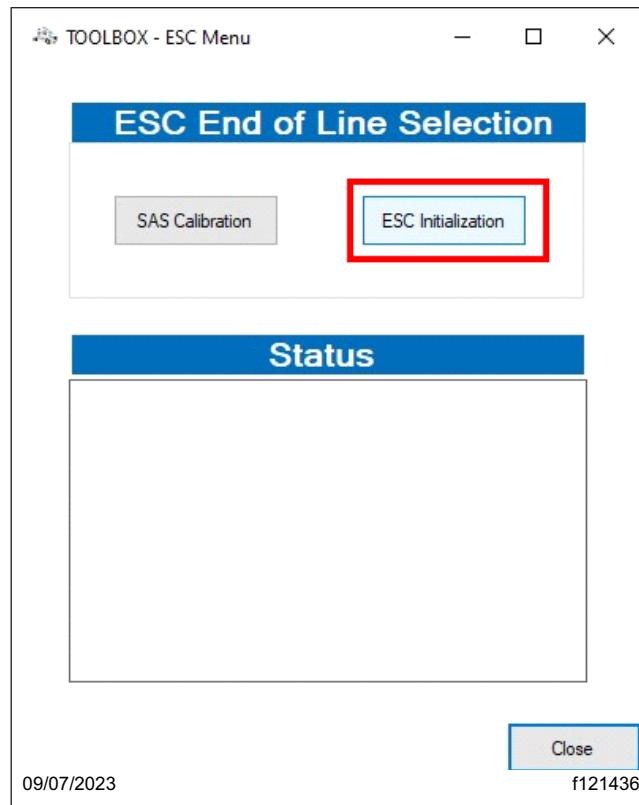


Fig. 24, Selecting the ESC Initialization Procedure in Toolbox

December 2023
SF669A

28.4 The ESC initialization instructions will appear in the 'Status' window. See [Fig. 25](#)

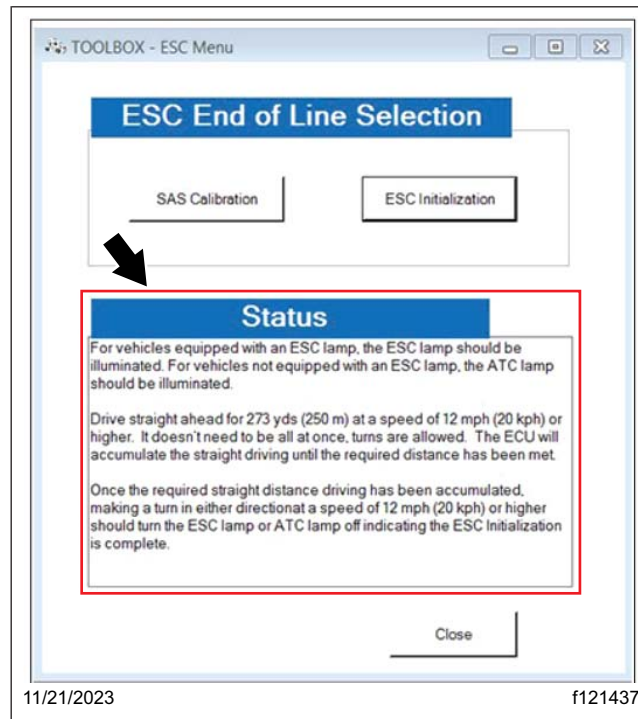


Fig. 25, ESC Initialization Status

28.5 Follow the instructions in the 'Status' window until the ESC initialization is complete.

NOTE: Carefully follow the instructions that appear in the message box. Once the ESC initialization is started, the messages will automatically change as the requirements are met. **Do not** click the 'Continue' button again, as this may cause the process to fail. The ESC initialization procedure requires the vehicle to be driven.

NOTE: The straight driving adjustment can be done in segments as the ECU will accumulate the information until 273 yards is reached. Cornering and stopping is allowed as long as calibration is done within the same ignition cycle. Once the straight driving portion of the calibration is completed, make a left or right turn to complete the initialization procedure. At this point, the automatic traction control (ATC), and/or ESC lamp will turn off, indicating the ESC initialization is successful.

NOTE: Once the ESC Initialization has begun, the computer can either remain connected or be disconnected from the vehicle.

28.6 Once the initialization has been successfully completed (ATC and/or ESC lamp turned off during the drive procedure), stop the vehicle and turn the ignition key to the OFF position. Wait for 10 seconds, then turn the ignition key to the ON position.

28.7 Check that the ABS and ATC/ESC warning lights do not remain illuminated after the ignition cycle.

29. Clean a spot on the base label (Form WAR259), and attach a campaign completion sticker for SF669 (Form WAR261), indicating this work has been completed.