

September 2023
SF676 A-C
Revised Notice April 2024

Subject: Braking System Parameter Update

Models Affected: Specific model year 2023-2024 Western Star 47X and 49X vehicles manufactured February 22, 2022, through March 23, 2023.

General Information

Daimler Truck North America LLC (DTNA), on behalf of its wholly owned subsidiary, Western Star Truck Sales, Inc., is initiating Field Service Campaign SF676A,B to modify the vehicles mentioned above.

NEW REVISION: Certain vehicles in Group A have been moved to newly created Group C.

REVISION: MBT Specific Parameter part number and description in step 19.4 has been removed and Figure 17 has been updated.

Specific vocational Western Star vehicles equipped with the Anti-Lock Modular Braking System Platform (ABS MBSP) contain an incorrect wheelbase parameter.

The ABS MBSP parameter will be updated.

There are approximately 58 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.

If our records show your dealership has ordered any vehicle(s) involved in campaign number SF676, a list of the customers and vehicle identification numbers will be available on the DTNA Portal. Please refer to this list when ordering parts for this campaign.

Table 1 - Replacement Parts for SF676

Campaign Number	Part Description	Part Number	Qty.
SF676 A-C	BLANK COMPLETION STICKER	WAR261	1 ea

Table 1

Removed Parts

There are no removed parts for this repair.

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Labor Allowance

Table 2 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
SF676A	ABS MBSP Parameter Update	0.6	996-F165A	12-Repair Recall/Campaign
SF676B	ABS MBSP Parameter Update	0.5	996-F165B	12-Repair Recall/Campaign
SF676C	ABS MBSP Parameter Update	0.6	996-F165A	12-Repair Recall/Campaign

Table 2

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 labor 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 (**SF676 A, SF676 B, etc.**).
- In the Primary Failed Part field, enter **25-SF676-000**.
- There are no replacement parts for this repair.
- 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 September 30, 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.

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.

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Copy of Notice to Owners

Subject: Braking System Parameter Update

Daimler Truck North America LLC (DTNA), on behalf of its wholly owned subsidiary, Western Star Truck Sales, Inc., is initiating Field Service Campaign SF676A-B to modify specific years specific model year 2023-2024 Western Star 47X and 49X vehicles manufactured February 22, 2022, through March 23, 2023.

Specific vocational Western Star vehicles equipped with the Anti-Lock Modular Braking System Platform (ABS MBSP) contain an incorrect wheelbase parameter.

The ABS MBSP parameter will be updated.

Please contact an authorized DTNA dealer to arrange to have the campaign performed. The campaign will take approximately 1 hour and will be performed **free of charge**. 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 September 30, 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, 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 (800) 547-0712, from 7 a.m. to 4 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

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Work Instructions

Subject: Braking System Platform Parameter Update

Models Affected: Specific model year 2023-2024 Western Star 47X and 49X vehicles manufactured February 22, 2022, through March 23, 2023.

NEW REVISION: Certain vehicles in Group A have been moved to newly created Group C.

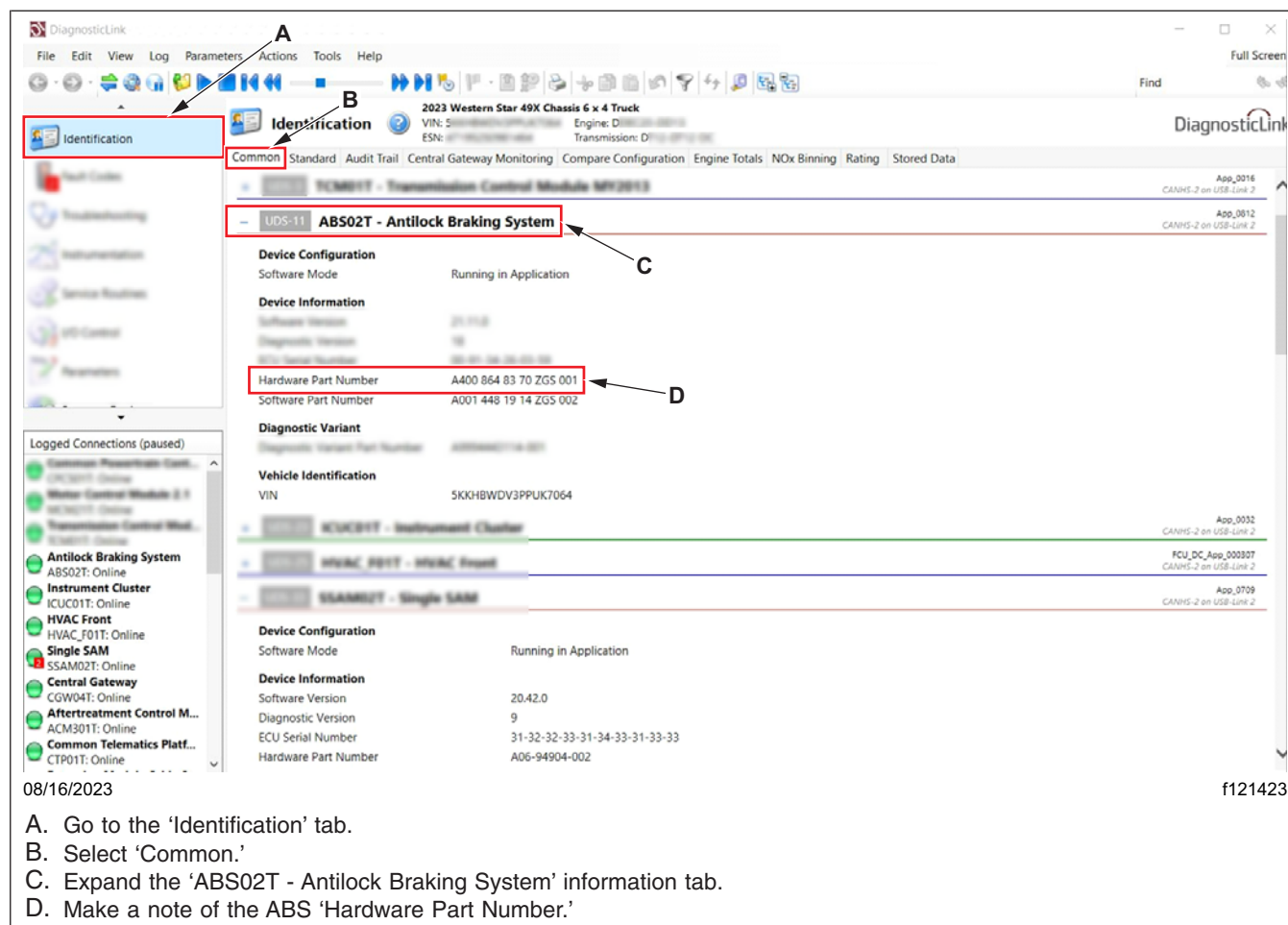
REVISION: MBT Specific Parameter part number and description in step 19.4 has been removed and Figure 17 has been updated.

Anti-lock Braking System (ABS) Electronic Control Unit (ECU) Parameter Update (Populations A and B)

1. Check the base label (Form WAR259) for a completion sticker for SF676 (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 there is no completion sticker, 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.
3. Locate the ABS ECU part number using DiagnosticLink® as follows.
 - 3.1 Connect the vehicle to DiagnosticLink.
 - 3.2 Turn the ignition key to the 'Run' position.
 - 3.3 Open DiagnosticLink.

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- 3.4 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. 1](#).



The screenshot shows the DiagnosticLink software interface. The 'Identification' tab is selected on the left sidebar. The 'Common' tab is selected under the 'Identification' section. The 'ABS02T - Antilock Braking System' information tab is expanded. The 'Hardware Part Number' is highlighted as A400 864 83 70 ZGS 001. The 'Vehicle Identification' section shows the VIN 5KKHBDV3PPUK7064. The 'Device Configuration' section shows the Software Mode as 'Running in Application'.

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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. 1, Using DiagnosticLink to determine the ABS Part Number

- 3.5 Write down the ABS 'Hardware Part Number' as it will be needed later in this procedure. See the note below.

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**.

- 3.6 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.

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- Sign-in to <https://wabco.snapon.com>, then select 'Aftermarket Programming Configuration Files' at the top of the screen. See Fig. 2 and Fig. 3.

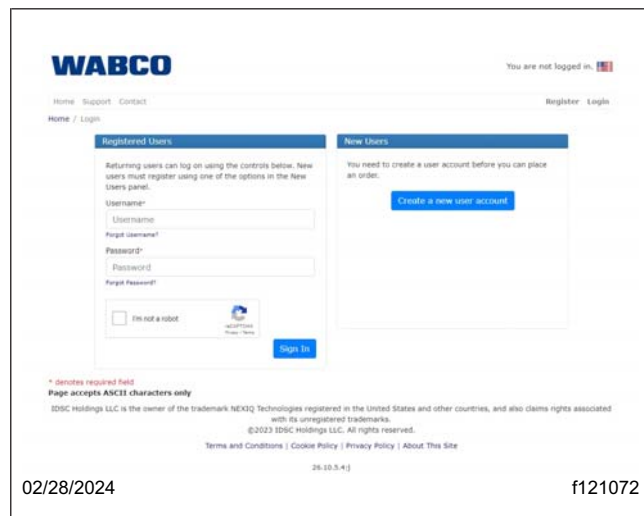


Fig. 2, Wabco Sign-In Page



Fig. 3, Selecting Aftermarket Programming Configuration Files

IMPORTANT: The vehicle identification number (VIN) must include all 17 characters. The ABS ECU part number obtained earlier must be entered with no spaces into the 'ECU Part Number Being Replaced' and 'New ECU Part Number' sections.

- Enter the VIN and the ABS ECU part number, then select 'Find Configuration.' See Fig. 4.

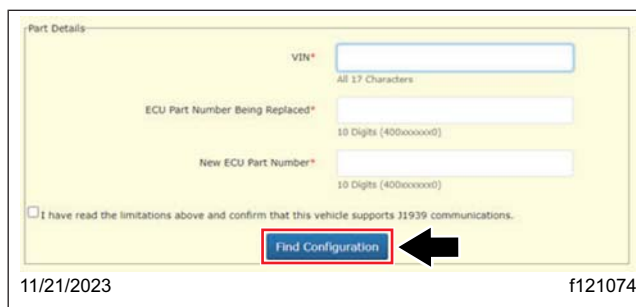


Fig. 4, Finding ABS ECU Configuration

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

- 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. 5](#).

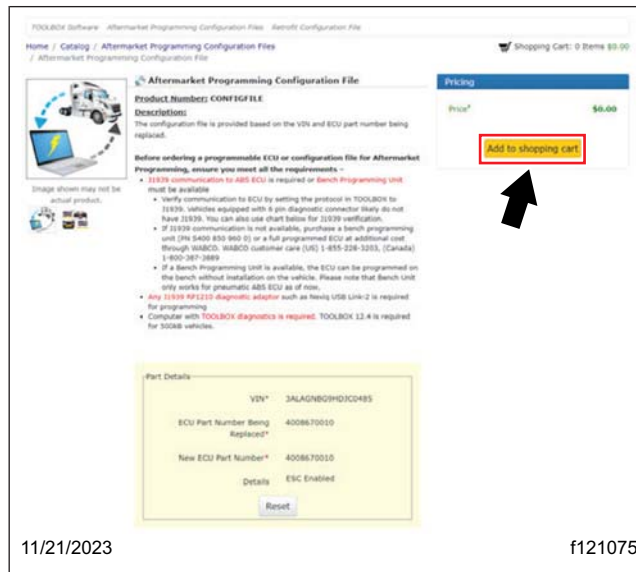


Fig. 5, Adding Configuration Files to Shopping Cart

- 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. 6](#).

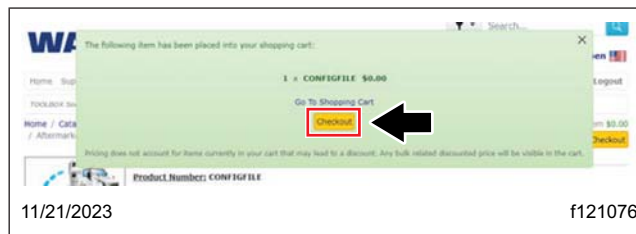


Fig. 6, Selecting Checkout

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8. 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. 7](#).

Fig. 7, Selecting Bill to this Address

9. 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. 8](#).

Fig. 8, Selecting Place Order

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10. 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. 9](#).

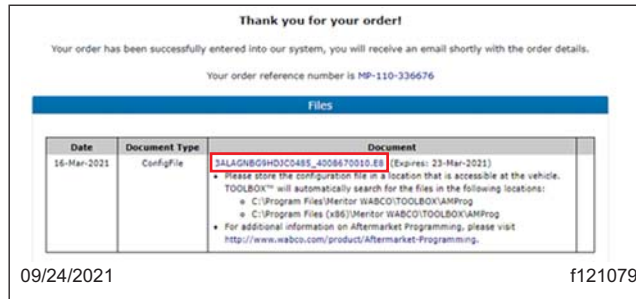


Fig. 9, Link to the Configuration File

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.

11. A message window will appear recommending the file storage location. Select 'OK' to continue. See [Fig. 10](#).

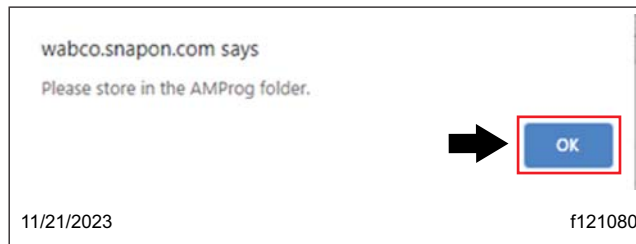


Fig. 10, Storage Location Recommendation

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

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13. Open WABCO TOOLBOX™ (version 13.7 or higher at the time of publication). In the main menu, select 'Aftermarket Programming.' See Fig. 11.

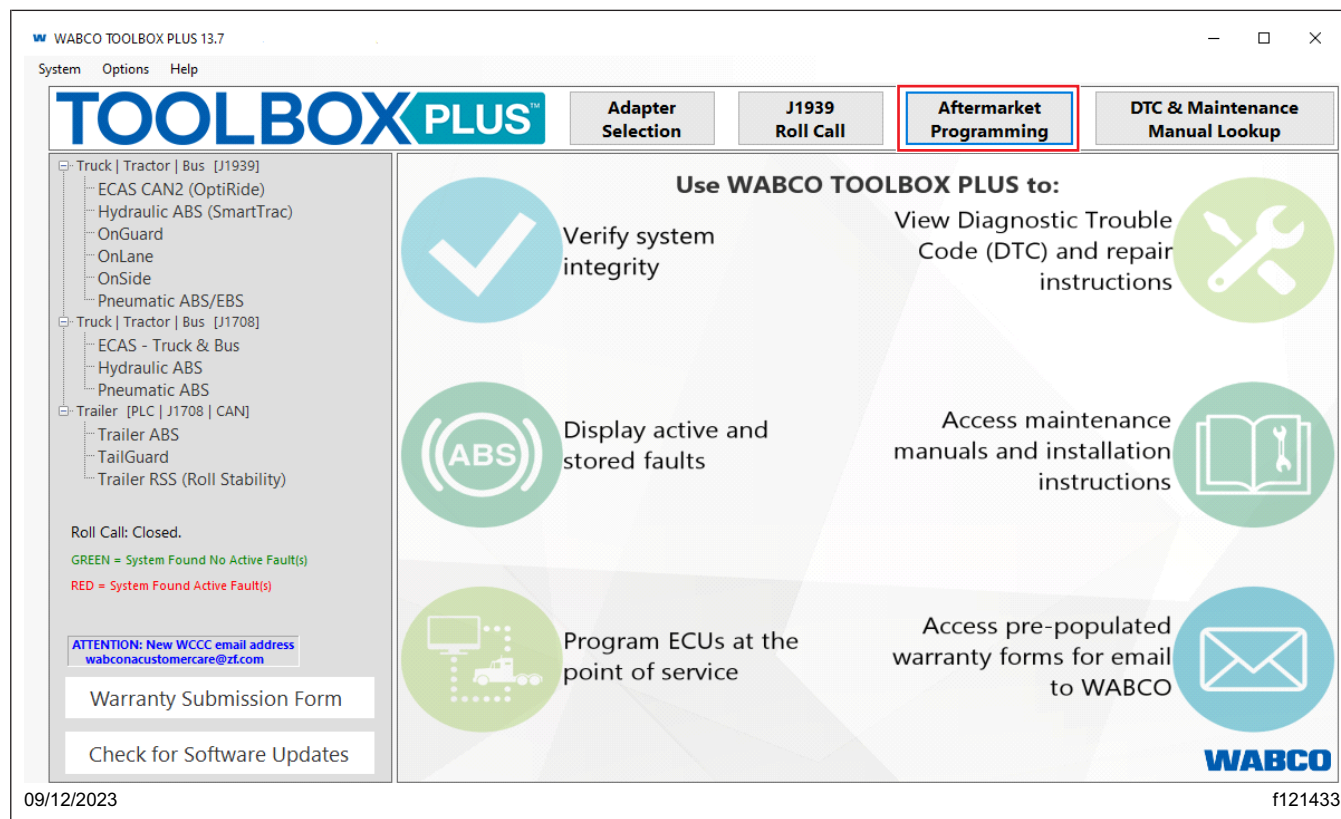


Fig. 11, Selecting Aftermarket Programming

14. A message will be displayed indicating that the ECU parameters will be changed after the programming. Select 'Yes' to continue. See Fig. 12.

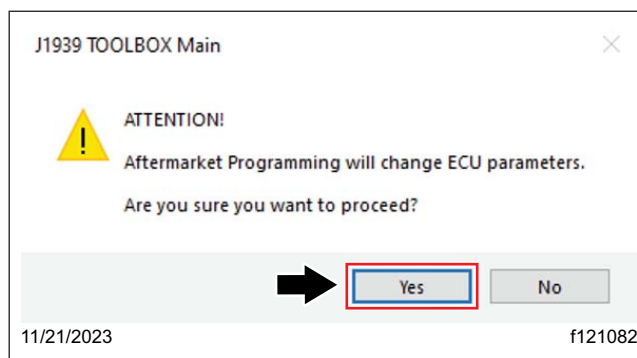


Fig. 12, Selecting Yes to Proceed to the ECU Programming

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15. A window will now appear asking the user to select the configuration file. Select 'OK' to proceed. See [Fig. 13](#).



Fig. 13, Selecting OK to Proceed to Browsing

16. 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. 14](#).

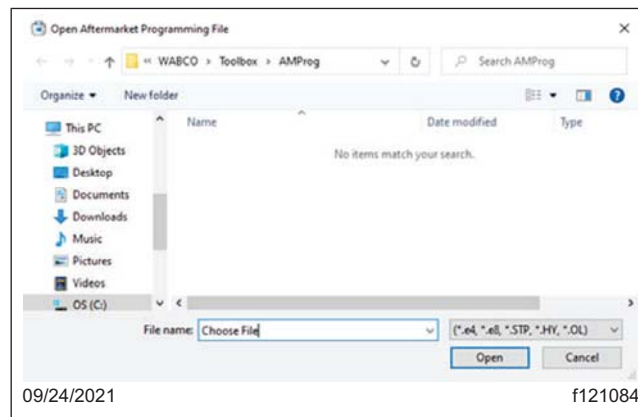


Fig. 14, Locating and Selecting the Configuration File

17. 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. 15](#). 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.

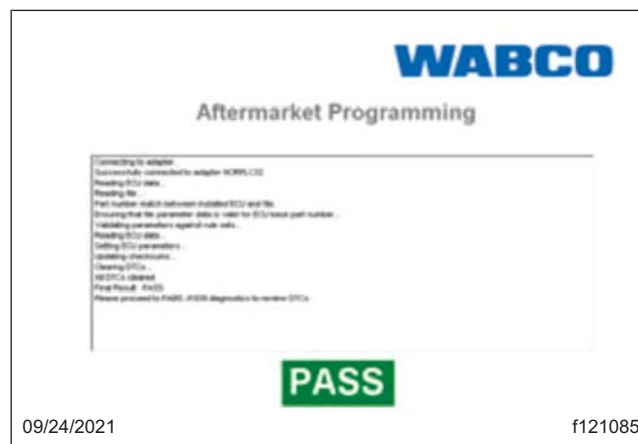


Fig. 15, Green Pass Indicator

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18. Close the 'Aftermarket Programming' window.

NOTE: Step 19 only applies to Population A. For Population B, skip to step 20.

19. Verify the ABS ECU parameter update as follows (Population A Only, For Population B skip to step 20):

19.1 Open DiagnosticLink.

19.2 Go to the 'Parameters' tab, then select the 'All Parameters' tab. Expand the 'ABS02T – Antilock Braking System' parameter folder. See [Fig. 16](#).

DiagnosticLink

File Edit View Log Parameters Actions Tools Help

Parameters

Global Variant Coding PTO Speed Control PTO1 Engagement PTO2 Engagement Cruise Control Engine Protection EWMA Reset Fan Fleet Management

Parameter

Part Value Units Minimum Maximum Description

ABS02T - Antilock Braking System

MBT Specific Parameter

MBT Specific Automatic GVC Data Import enabled The Parameter ena...
Parameter enables...

MBT Specific Use of GVC Data enabled

MBT Specific GVC Module Installed not available
MBT Specific Wheelbase 2nd to 3rd axle 1200 mm 0 10000 Parameter define...
MBT Specific Wheelbase 3rd to 4th axle 1000 mm 0 10000 Parameter define...
MBT Specific Wheelbase 4th to 5th axle 1000 mm 0 10000 Parameter define...
MBT Specific Permanent Magnetic Resistor at Servo... Signal not available
MBT Specific GVC Control disabled
MBT Specific Rear-Left Actuator Type None
MBT Specific Rear-Right Actuator Type None
Suppress Open Circuit Detection at Axle1 No
Suppress Open Circuit Detection at Axle2 No
Variable transmit message 0 enabled
Variable transmit message 1 enabled
Variable transmit message 2 s.n.a.
Variable transmit message 3 s.n.a.
Variable transmit message 4 s.n.a.

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A. Go to the 'Parameters' tab.
B. Select 'All Parameters.'
C. Expand the 'ABS02T - Antilock Braking System' information tab.
D. Expand the 'MBT Specific Parameter' folder.
E. Parameters that need to be checked.

Fig. 16, Verifying the Parameter Update (Population A Only)

19.3 Under the 'ABS02T – Antilock Braking System' folder, find and expand the 'MBT Specific Parameter' folder. See [Fig. 16](#).

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- 19.4 If the ABS configuration file update is successful, the 'MBT Specific Automatic GCV Data Import' should be set to **disabled**, and the 'MBT Specific Use of GVC Data' should be set to **enabled**. See [Fig. 17](#).

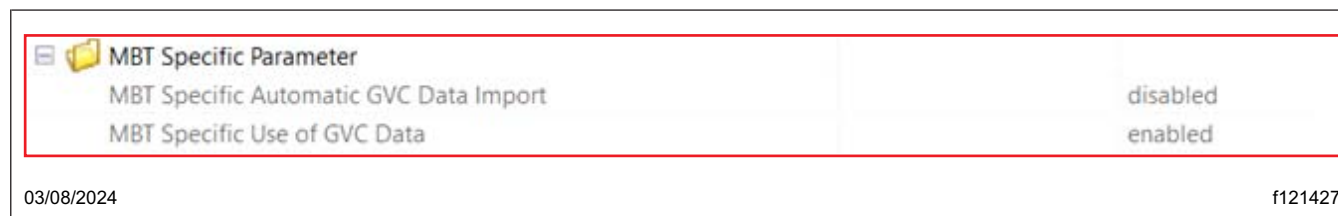


Fig. 17, Verifying the ABS File Update (Population A Only)

- 19.5 If the parameter values on the vehicle match the values shown in [Fig. 17](#), the update is successful. Continue to step 20.
- 19.6 If the parameter values on the vehicle do not match the values shown in [Fig. 17](#), repeat steps 3 through 19. If the parameter values still do not match after repeating steps 3 through 19, contact Warranty Campaigns for further assistance.
20. Perform the electronic stability control (ESC) end of line (EOL) procedure:
- 20.1 From the WABCO Pneumatic ABS mBSP window, select the 'Components' drop-down menu, then select 'ESC.' See [Fig. 18](#).

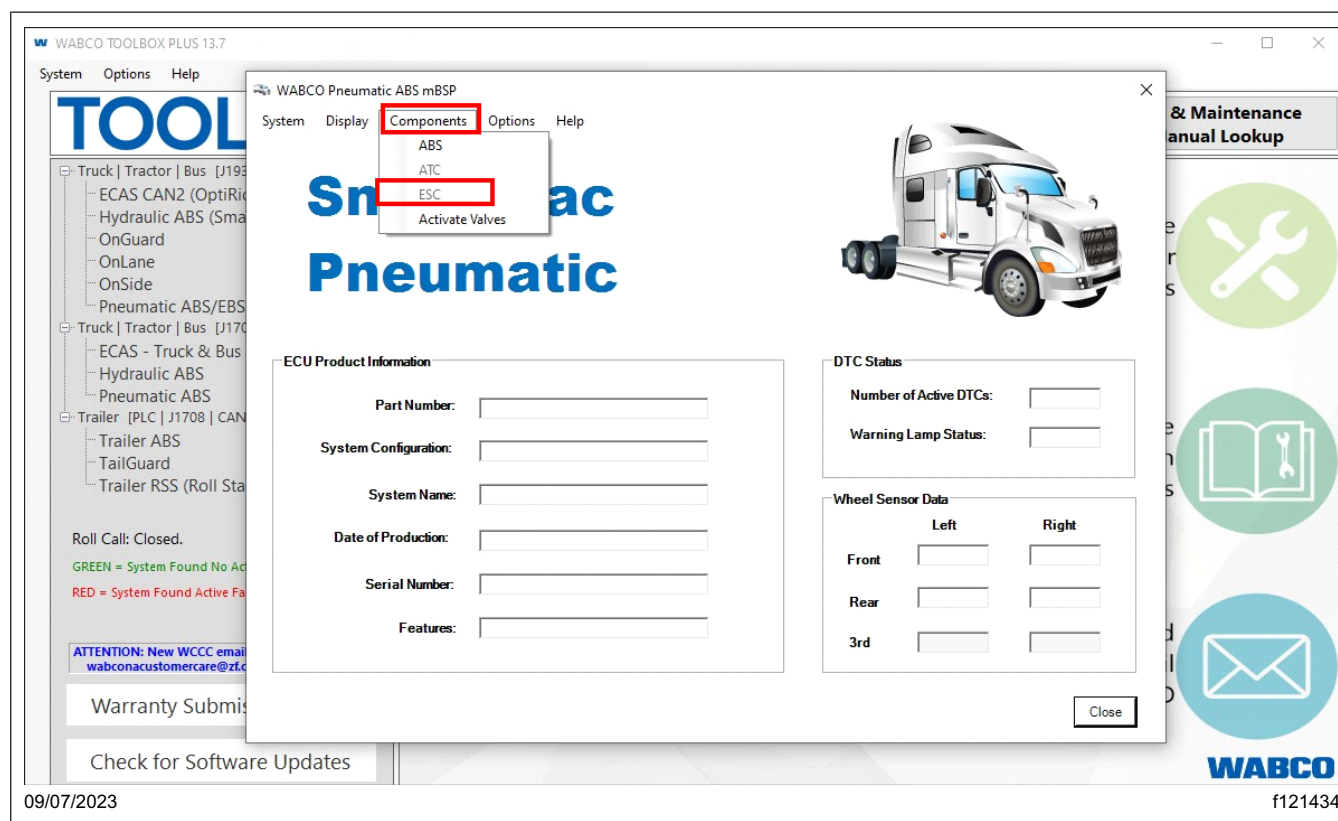


Fig. 18, Navigating to the ESC Window in Toolbox

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20.2 In the ESC window, select the 'ESC EOL' button at the bottom. See [Fig. 19](#).

The screenshot shows a software window titled "TOOLBOX - ESC" with standard window controls (minimize, maximize, close) in the top right corner. The window is divided into four main sections, each with a blue header:

- ATC Status:** Contains three input fields labeled "ATC Switch Status:", "Park Brake Status:", and "Brake Switch Status:".
- Event Counters:** Contains four input fields labeled "ABS Events:", "ATC Events:", "Roll Events:", and "Yaw Events:".
- ESC Measurement Data:** Contains three input fields labeled "EOL Status:", "Steering Angle Offset:", and "ESC Module Offset:".
- Steering Ratio Data:** Contains two columns of input fields. The first column is labeled "Left" and the second "Right". The rows are labeled "0 Degrees:" and "720 Degrees:".

At the bottom of the window, there are three buttons: "ESC EOL" (highlighted with a red rectangle), "ESC Info", and "Close".

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Fig. 19, Selecting the ESC EOL Procedure in Toolbox

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20.3 In the ESC End of Line Selection window, select the 'ESC Initialization' button. See [Fig. 20](#)

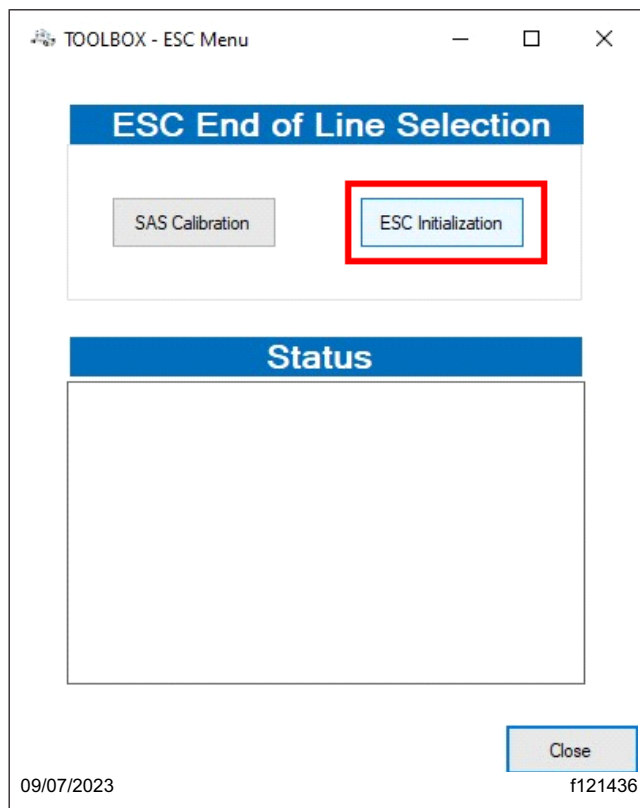


Fig. 20, Selecting the ESC Initialization Procedure in Toolbox

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20.4 ESC Initialization instructions will appear in the Status window. See [Fig. 21](#).

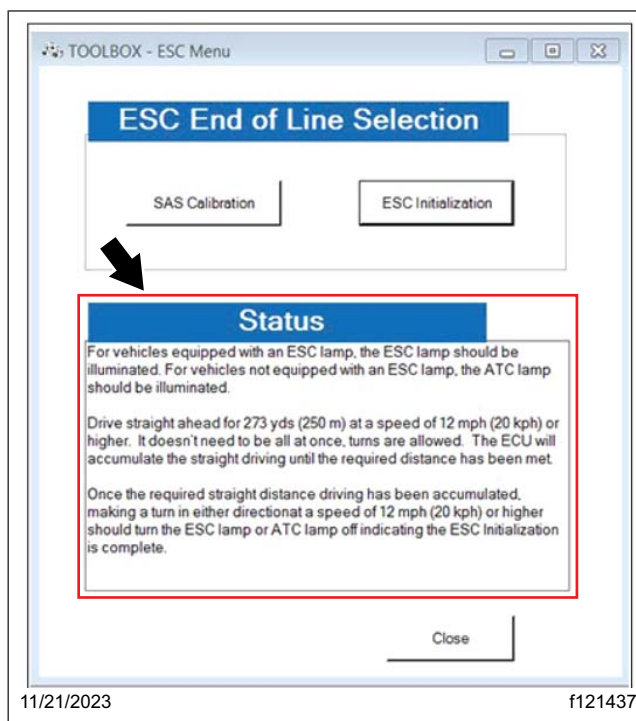


Fig. 21, ESC Initialization Status

20.5 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 the 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 was successful.

NOTE: Once the ESC Initialization has been started, the computer can either be left connected or disconnected from the vehicle.

20.6 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 off. Wait for 10 seconds, then turn on the ignition.

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

21. Clean a spot on the base label (Form WAR259), and attach a campaign completion sticker for SF676 (Form WAR261), indicating this work has been completed.