

March 2024  
FL993 AB  
NHTSA #24V-058  
Transport Canada #2024-056

## Subject: Axle Spacing Parameters

**Models Affected: Specific model years 2024-2025 Freightliner Cascadia; and Western Star 49X vehicles manufactured December 1, 2023, through January 19, 2024.**

### General Information

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Truck Division, and wholly owned subsidiary Western Star Truck Sales Inc., has decided that the vehicles mentioned above fail to conform to the Federal Motor Vehicle Safety Standard (FMVSS) No. 136, "Electronic stability control systems for heavy vehicles".

The affected vehicles have an Electronic Stability Control (ESC) system that was programmed with incorrect axle spacing parameters. Vehicles with incorrect ESC functionality may not comply with FMVSS No. 136, increasing the risk of a crash.

A Daimler Truck North America authorized service facility will reprogram the affected trucks with correct axle spacing parameters. The Recall will take approximately one hour and will be performed free of charge.

There are approximately 8 vehicles involved in this campaign.

#### Additional Repairs

In addition to this recall, check OWL for any other open campaigns. 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

No Replacement parts are required. (Update only)

If our records show your dealership has ordered any vehicle(s) involved in campaign number FL993, a list of the customers and vehicle identification numbers will be available on the DTNA Portal via OWL.

### 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
FL993A	CASCADIA ABS ECU, CONFIGURATION UPDATE	0.6	996-R229A	12-Repair Recall/Campaign
FL993B	49X ABS ECU, CONFIGURATION UPDATE	0.6	996-R229B	12-Repair Recall/Campaign

**Table 1**

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## Claims for Credit

You will be reimbursed for your parts, labor, and handling (landed cost for Export Distributors) by submitting a claim. Please reference the following information in OWL:

- All claims must be submitted within 30 days of the repair date.
- Claim type is **Recall Campaign**.
- In the Campaign field, enter the campaign number and appropriate population/group code (FL993-A or FL993-B).
- In the Primary Failed Part Number field, enter **25-FL993-000**.
- In the Labor field, 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**.
- **U.S. and Canada -- Reimbursement for Prior Repairs.** When a customer asks about reimbursement, please do the following:
  - Accept 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.)
  - Attach the documentation to a pre-approval recall claim, and submit the pre-approval claim for a decision.
  - If approved, submit a based-on payment claim (based on the pre-approval.)
  - After the claim has been paid, reimburse the customer.

**Excess Inventory:** U.S. and Canadian dealers, excess inventory related to this campaign, in resalable condition, may be returned to the appropriate PDC. U.S. dealers, submit a Parts Authorization Return (PAR) to the Memphis PDC. Canadian dealers, submit a PAR to your facing PDC. PAR requests must include the original purchase invoice number. Export Distributors, excess inventory is not returnable.

**For Support:** Contact the Warranty Campaigns Department via the Warranty Support Center (WSC) located on the DTNA Portal, or contact the Customer Assistance Center at (800) 385-4357. Export distributors, submit a WSC ticket or contact your International Service Manager.

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

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## Copy of Notice to Owners

### Subject: Axle Spacing Parameters

**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 requirements of the Motor Vehicle Safety Act.

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division, and wholly owned subsidiary, Western Star Truck Sales, Inc., has decided that certain model year 2024-2025 Freightliner Cascadia; and Western Star 49X vehicles manufactured December 1, 2023, through January 19, 2024, fail to conform to Federal Motor Vehicle Safety Standard (FMVSS) No. 136, "Electronic stability control systems for heavy vehicles".

The affected vehicles have an Electronic Stability Control (ESC) system that was programmed with incorrect axle spacing parameters. Vehicles with incorrect ESC functionality may not comply with FMVSS No. 136, increasing the risk of a crash

A Daimler Truck North America authorized service facility will reprogram the affected trucks with correct axle spacing parameters. The recall will take approximately one hour and will be performed free of charge.

Please contact an authorized Daimler Truck North America dealer to arrange to have the recall performed and to ensure that parts are available at the dealership. The recall will take approximately one hour and will be performed **free of charge**. To locate an authorized dealer, search online at [northamerica.daimlertruck.com/contact-us/](http://northamerica.daimlertruck.com/contact-us/). Scroll down to "Locate a Dealer," and select the appropriate brand. You may also confirm your vehicle's involvement in this recall at [dtna-dlrinfo.prd.freightliner.com:48518/VinLookup/vin-module/getVinLookupPage](http://dtna-dlrinfo.prd.freightliner.com:48518/VinLookup/vin-module/getVinLookupPage).

You may be liable for any progressive damage that results from your failure to complete this recall repair 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 in the postage-paid envelope 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.

If you have questions about this recall, please contact the Warranty Campaigns Department at (800) 547-0712, 7 a.m. to 4 p.m. Pacific Time, Monday through Friday, e-mail: [dtna.war-campaigns@daimlertruck.com](mailto:dtna.war-campaigns@daimlertruck.com). **For the Notice to U.S. Customers:** 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 go to [www.nhtsa.gov](http://www.nhtsa.gov). **For the Notice to Canadian Customers:** If you wish to submit a complaint about this recall, you can contact Transport Canada road safety, 80 rue Noel, Gatineau, Quebec J8Z 0A1 or call (800) 333-0510.

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

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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## **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 Truck North America 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 Truck North America dealer.

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

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## Work Instructions

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**Models Affected: Specific model years 2024-2025 Freightliner Cascadia; and Western Star 49X vehicles manufactured December 1, 2023, through January 19, 2024.**

### Updating the Antilock Braking System (ABS) Parameter

1. Check the base label (Form WAR259) for a completion sticker for FL993 (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 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.
3. Use DiagnosticLink® to determine the ABS ECU part number.
  - 3.1 Connect the vehicle to DiagnosticLink.
  - 3.2 Turn the ignition key to the 'Run' position.
  - 3.3 Open DiagnosticLink.

**IMPORTANT:** Make sure that DiagnosticLink is updated to the latest version (8.18 SP1 at the time of publication, or newer) before programming the vehicle.

To update DiagnosticLink, from the menu bar, select 'Tools,' then select 'Update' from the dropdown menu.

- 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](#).

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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, Determining the ABS ECU Part Number Using DiagnosticLink**

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 account exists. In case of not having an account, create a new one. User account is provided along with the purchase of the TOOLBOX™ software. Use the same account information to log in.

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

4. 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.

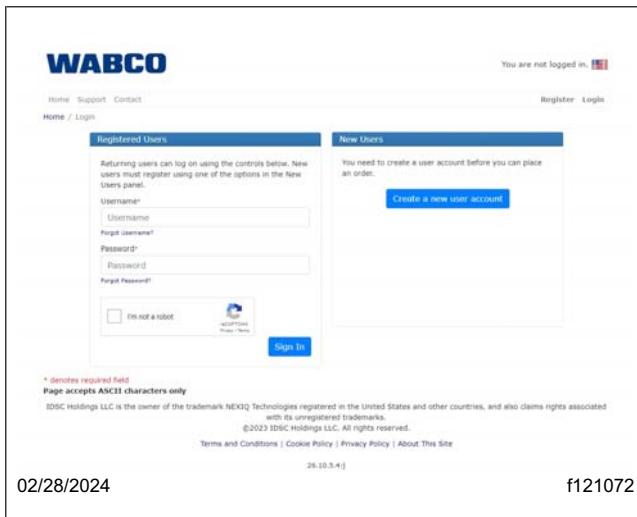


Fig. 2, Wabco Sign-In Page



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 in the 'ECU Part Number Being Replaced' and 'New ECU Part Number' fields.

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

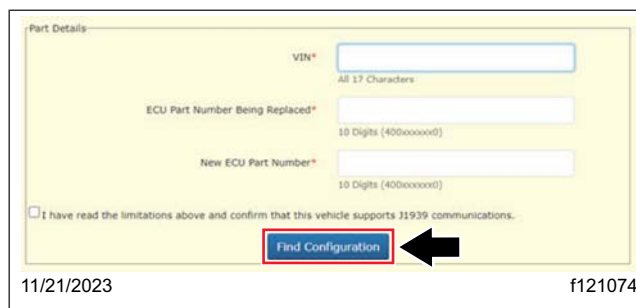
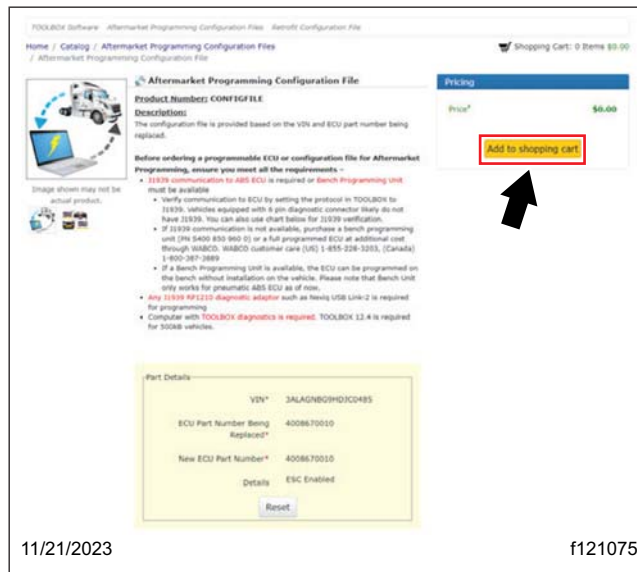


Fig. 4, Finding ABS ECU Configuration

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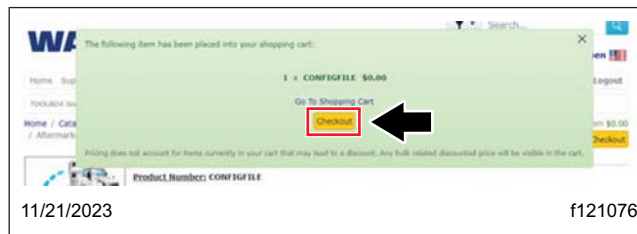
NOTE: WABCO aftermarket programming configuration files are free of cost. The user is not billed any amount.

- The configuration file details for the VIN and ABS ECU part number combination are displayed. Verify the VIN and part number, then select 'Add to shopping cart.' See [Fig. 5](#).



**Fig. 5, Adding Configuration Files to the Shopping Cart**

- Once the configuration file is 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 is 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.

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Fig. 7, Selecting Bill to this Address

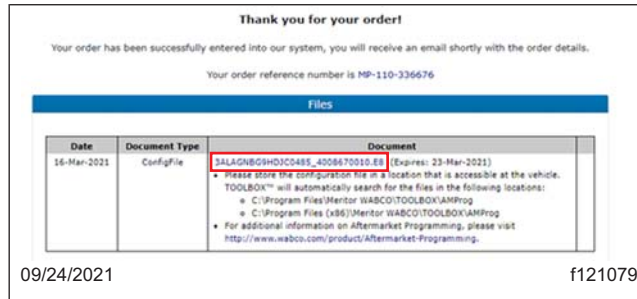
9. In the 'Order Details' screen, verify all the details, then select the checkbox to accept the terms and conditions of the download. Select 'Place Order.' See Fig. 8.

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Fig. 8, Selecting Place Order

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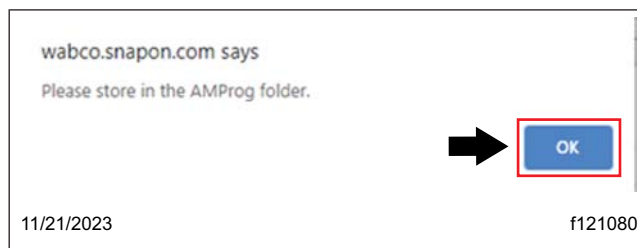
10. Once the order is processed, a link to download the configuration file is displayed. Select the hyperlink, shown in **Fig. 9**, to download the configuration file.



**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 allows the file selection from any location in the computer.

11. A message window appears 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 9-pin diagnostic connector of the vehicle.

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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](#).

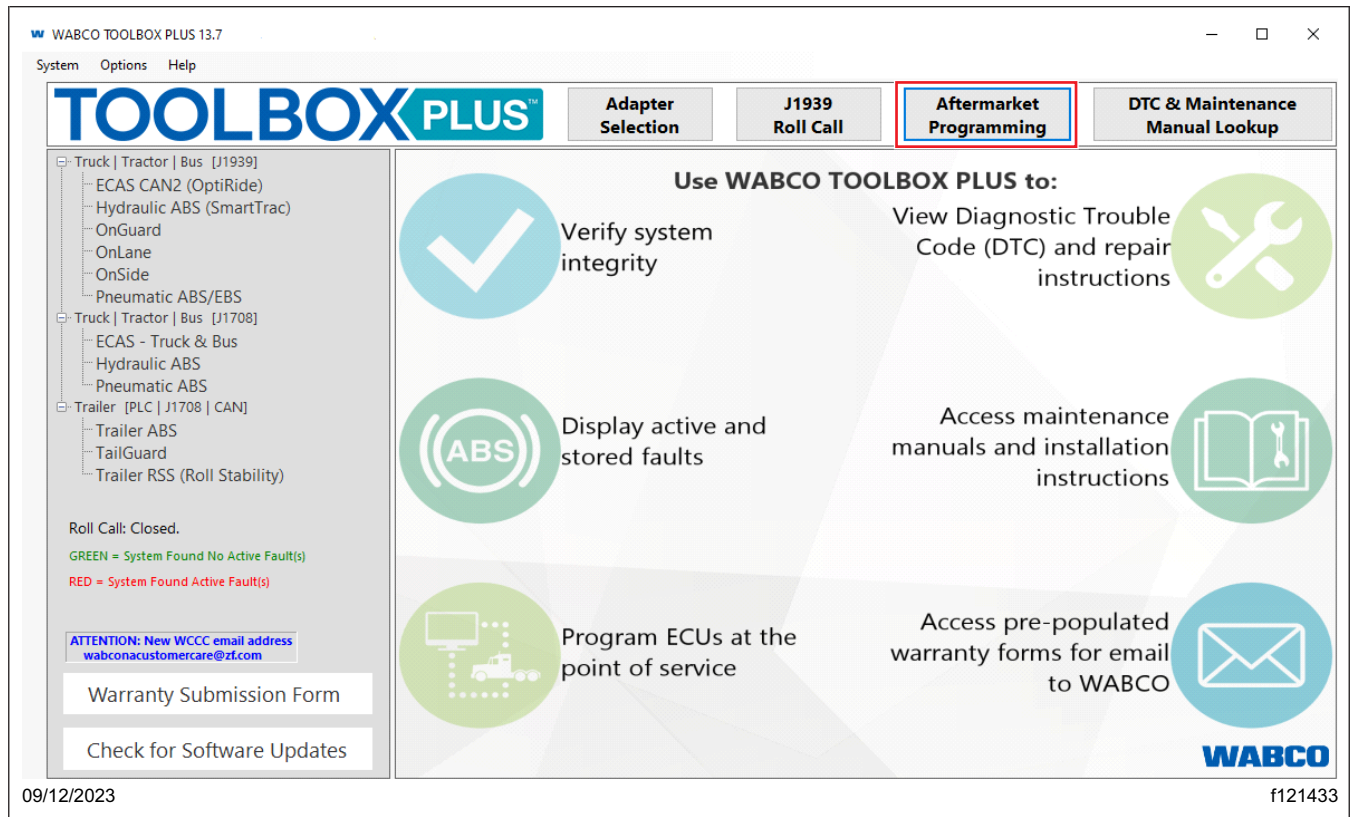


Fig. 11, Selecting Aftermarket Programming

14. A message, indicating that the ECU parameters will change after programming, is displayed. To continue, select 'Yes.' See [Fig. 12](#).

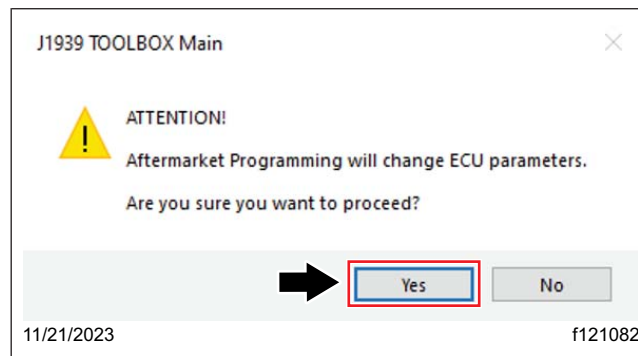


Fig. 12, Selecting Yes to Proceed with the ECU Programming

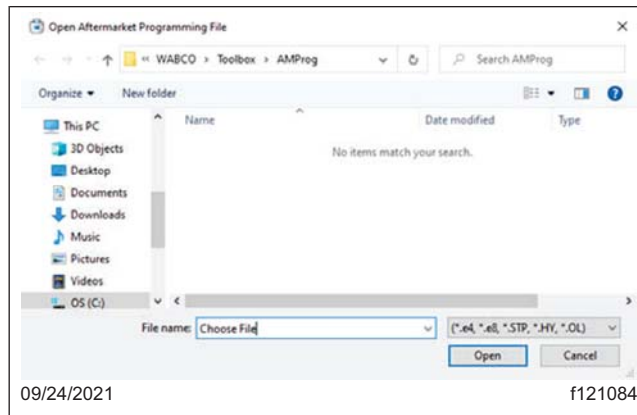
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15. A window appears asking to select the configuration file. Select 'OK' to proceed. See [Fig. 13](#).



**Fig. 13, Selecting OK to Proceed to Browsing**

16. Use the file selection box to locate and select the downloaded configuration file. Confirm the part number and VIN of the vehicle, then select 'Open.' See [Fig. 14](#).



**Fig. 14, Locating and Selecting the Configuration File**

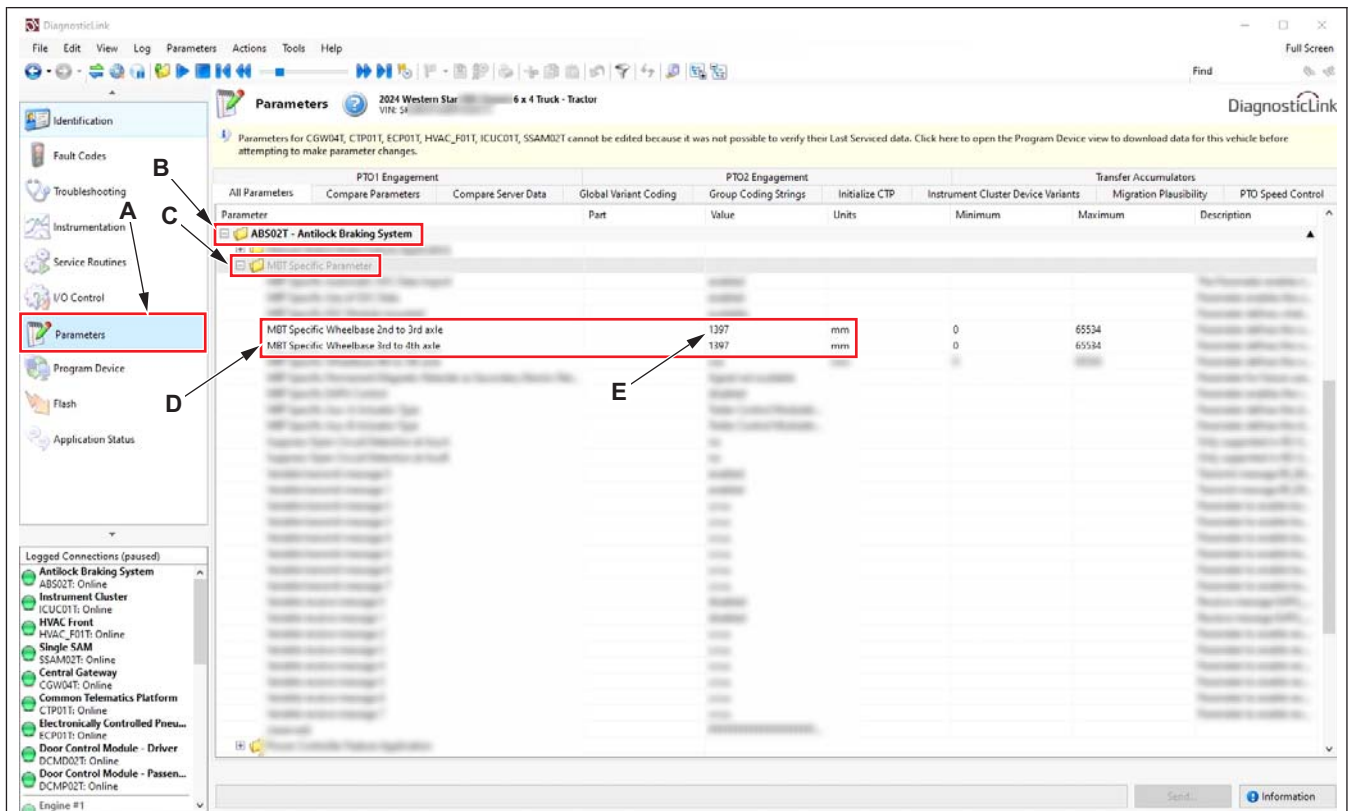
17. Once the configuration file is selected, the 'Aftermarket Programming' window appears. The programming begins, and the process status is displayed in the status box. Upon successful programming, a green 'PASS' indicator appears at the bottom of the window. See [Fig. 15](#). If the programming process fails for any reason, a red 'FAIL' indicator appears at the bottom of the window. An error code is displayed with instructions. Record the error code, and contact the WABCO Customer Care Center 1-855-228-3203.



**Fig. 15, Green Pass Indicator**

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18. Close the 'Aftermarket Programming' window.
19. Close the WABCO TOOLBOX window.
20. Verify the ABS ECU parameter update. See **Fig. 16**.
  - 20.1 Open DiagnosticLink.
  - 20.2 Go to the 'Parameters' tab. Select and expand the 'ABS02T - Antilock Braking System' parameter folder.
  - 20.3 Select and expand the 'MBT Specific Parameter' sub-folder.
  - 20.4 Locate the 'MBT Specific Wheelbase 2nd to 3rd axle' and 'MBT Specific Wheelbase 3rd to 4th axle' parameter fragments, and inspect the corresponding parameter values.



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The parameter values are vehicle specific; the values shown in the figure are only for example.

- A. Go to the 'Parameters' tab.
- B. Select and expand the 'ABS02T - Antilock Braking System' information tab.
- C. Select and expand the 'MBT Specific Parameter' sub-folder.
- D. Locate the 'MBT Specific Wheelbase 2nd to 3rd axle' and 'MBT Specific Wheelbase 3rd to 4th axle' parameters.
- E. Inspect that the parameter values are set to some value other than 'zero' or 'sna.'

**Fig. 16, Verifying the Parameter Update**

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20.5 If the ABS configuration file update is successful, both the 'MBT Specific Wheelbase 2nd to 3rd axle' and 'MBT Specific Wheelbase 3rd to 4th axle' parameter values are set to some numerical value other than 'zero' or 'sna.'

Are the parameter values for 'MBT Specific Wheelbase 2nd to 3rd axle' and 'MBT Specific Wheelbase 3rd to 4th axle' parameters set to some value other than 'zero' or 'sna'?

**YES** → The update is successful. Close DiagnosticLink. Go to step 21.

**NO** → Repeat the steps 3 through 20, and inspect the parameter values again. If the parameter values are still not set to some value other than 'zero' or 'sna,' contact the Warranty Campaigns Department for further assistance.

21. Perform the electronic stability control (ESC) end of line (EOL) procedure.

21.1 Open WABCO TOOLBOX.

21.2 In the 'WABCO Pneumatic ABS mBSP' window, select the 'Components' drop-down menu, then select 'ESC.' See [Fig. 17](#).

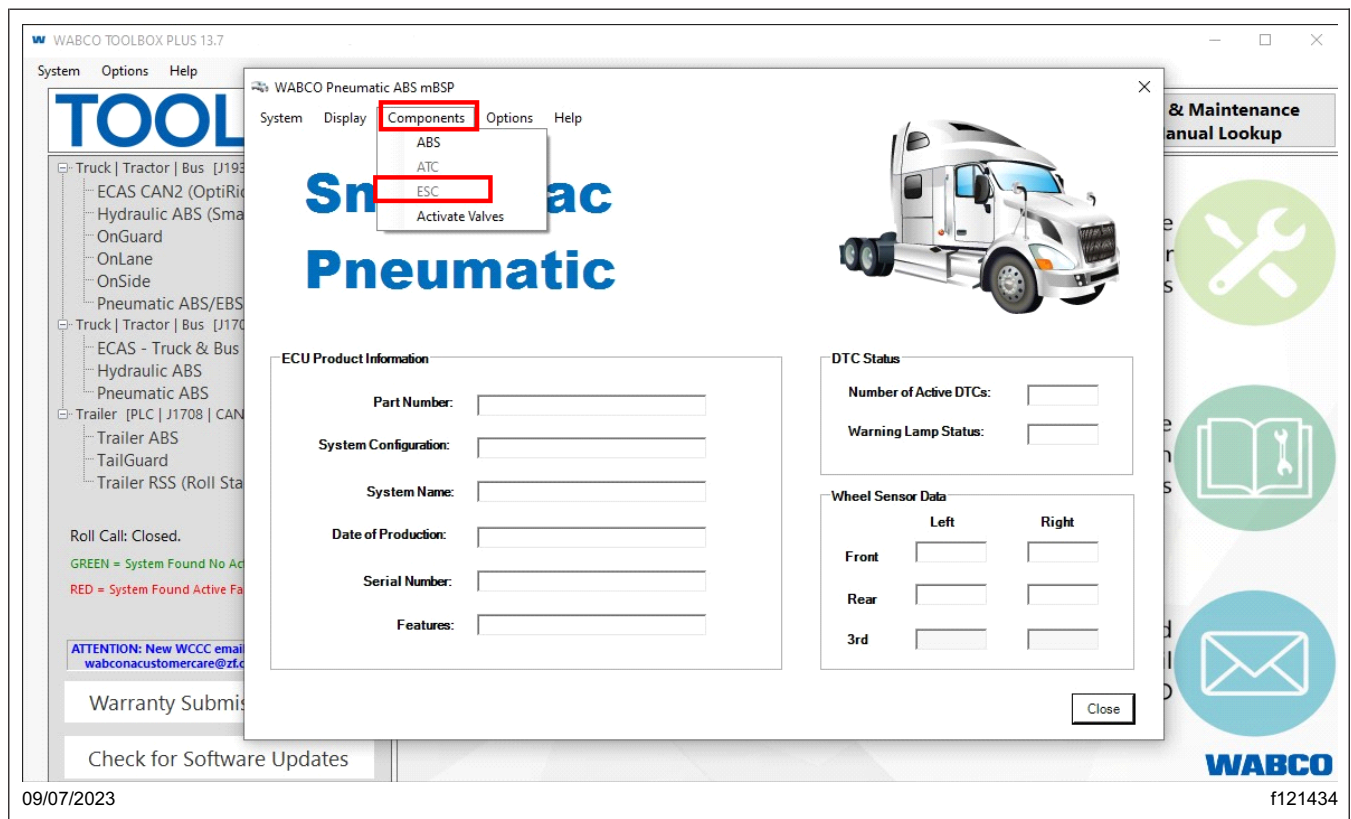


Fig. 17, Navigating to the ESC Window in Toolbox

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21.3 Select the 'ESC EOL' button at the bottom-left. See [Fig. 18](#).

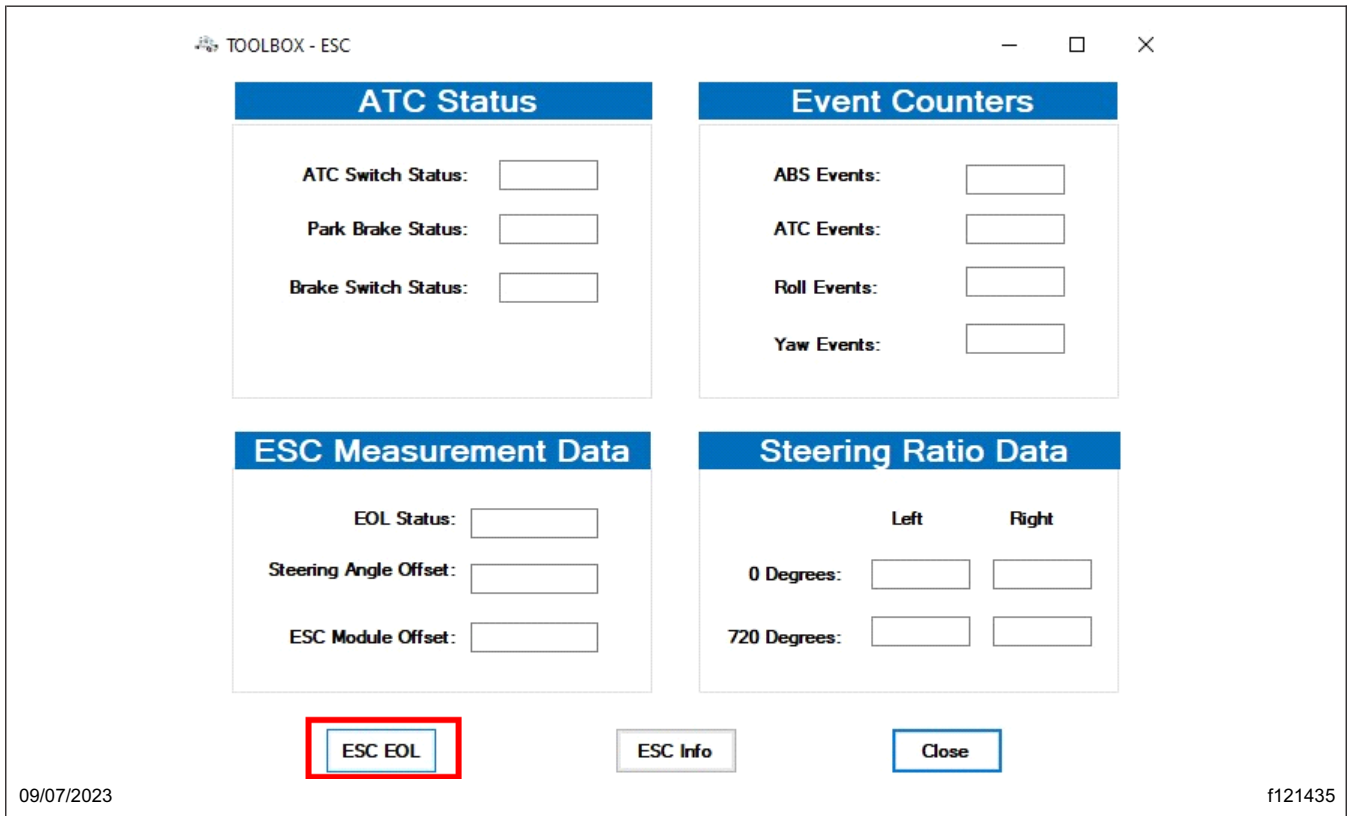
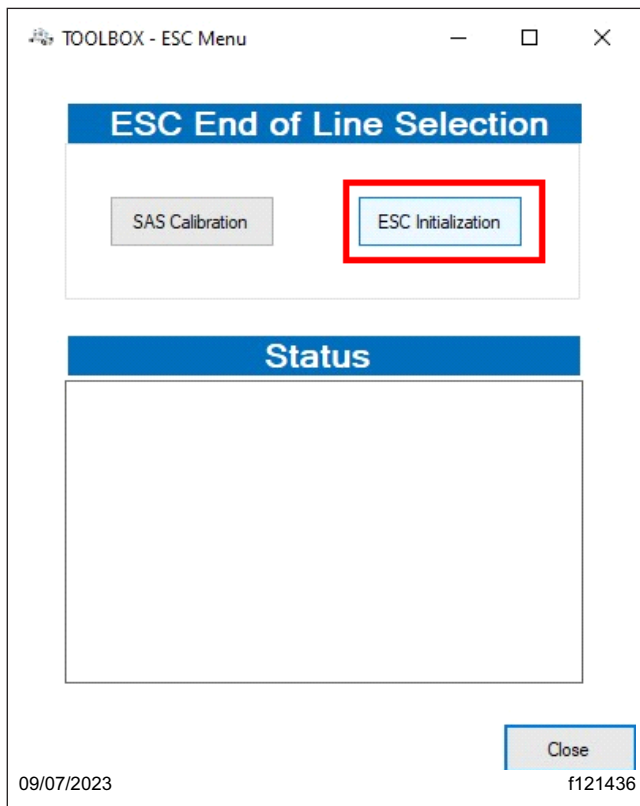


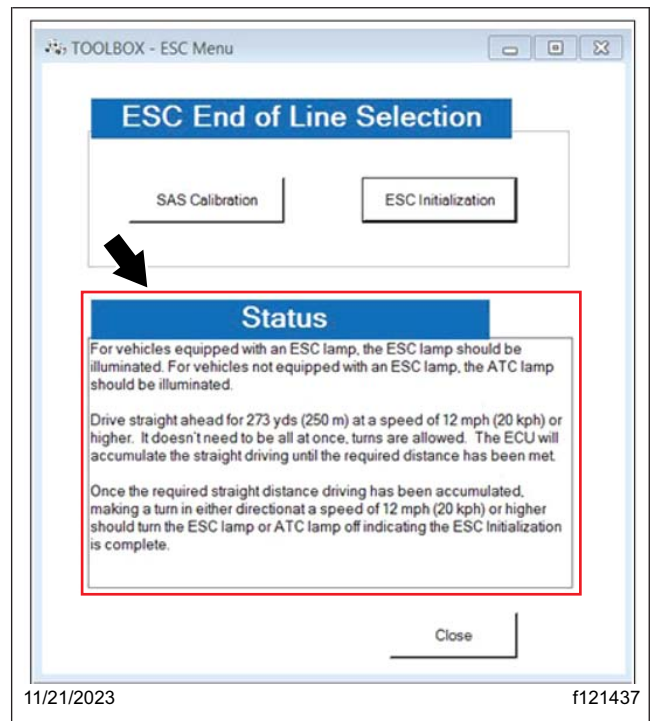
Fig. 18, Selecting the ESC EOL Procedure in Toolbox

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- 21.4 Select the 'ESC Initialization' button. See [Fig. 19](#).
- 21.5 ESC initialization instructions appear in the 'Status' panel. See [Fig. 20](#).
- 21.6 Follow the instructions in the 'Status' panel until the ESC initialization is complete.



**Fig. 19, Selecting the ESC Initialization Procedure in Toolbox**



**Fig. 20, ESC Initialization Status**

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 accumulates 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-hand or right-hand turn to complete the initialization procedure. At this point the automatic traction control (ATC), and/or the ESC lamp will turn off, indicating the ESC initialization is successful.

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

- 21.7 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 to the ON position.
- 21.8 Check that the ABS and ATC/ESC warning lights do not remain illuminated after the ignition cycle.
- 22. Clean a spot on the base label (Form WAR259), and attach a campaign completion sticker for FL993 (Form WAR260), indicating this work has been completed.