

Work Instructions

Subject: Western Star 49X Adaptive Cruise Control

Models Affected: Select Western Star 49X vehicles with pusher axles built from October 1, 2019 through December 31, 2021.

General Information

Our records indicate you are the owner of one or more select Western Star 49X vehicles, and we are therefore sharing the following work instructions with you.

These instructions are to correct a nonfunctional adaptive cruise control issue on certain Western Star 49X vehicles.

The resolution to this issue requires a software update. No parts are required.

Work Instructions

To resolve the issue, the ABS ECU and the Central Gateway (CGW) require software updates. The ABS ECU software update will require access to WABCO TOOLBOX^{plus}. The CGW software update will require access to Diagnostic Link.

DTNA Service Engineering will provide updated software for both the Central Gateway (CGW) and the MBSP ABS ECU. Your regional service representative will be supplied with the updated parameter files to be provided to the respective service outlet upon request.

Updating the Central Gateway

1. Save the received CGW parameter file to the laptop that will be used to update the vehicle.
2. Connect *Diagnostic Link* to the vehicle with the appropriate Nexiq connector.
3. Choose parameters and select *Import*, then *File Import*. See **Fig. 1**.

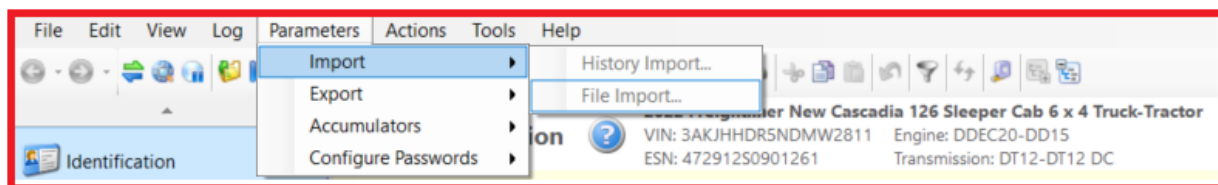


Fig. 1, Importing the CGW Parameter File

4. Locate the saved CGW file on the laptop.
5. Import the updated CGW file to the vehicle.
6. When the file import is complete, click *send* to update the server.

Updating the WABCO MBSP ECU

1. Open WABCO TOOLBOX^{plus} and login as shown in **Fig. 2**.

Step 1. Go to [WABCO: Login \(snapon.com\)](https://wabco.com/login) If you already have a user Id and Password login if not create one

WABCO

You are not logged in.

Home Support Contact Register Login

Home / Login

Registered Users

Returning users can log on using the controls below. New users must register using one of the options in the New Users panel.

Username*

Forgot username?

Password*

Forgot Password?

Sign In

New Users

You need to create a user account before you can place an order.

Create a new user account

Fig. 2, Logging Into WABCO TOOLBOX^{plus}.

2. Enter the vehicle identifying information into WABCO TOOLBOX^{plus} as shown in **Fig. 3**.

Aftermarket Programming

- J1939 communication to ABS ECU is required or Bench Programming Unit must be available
 - Verify communication to ECU by setting the protocol in TOOLBOX to J1939. Vehicles equipped with 6 pin diagnostic connector likely do not have J1939. You can also use chart below for J1939 verification.
 - If J1939 communication is not available, purchase a bench programming unit (PN 5400 850 960 0) or a full programmed ECU at additional cost through WABCO. WABCO customer care (US) 1-855-228-3203, (Canada) 1-800-387-3889
 - If a Bench Programming Unit is available, the ECU can be programmed on the bench without installation on the vehicle. Please note that bench unit only works for pneumatic ABS ECU as of now.
- Any J1939 RP230 diagnostic adaptor such as Nexiq USB Link-2 is required for programming
- Computer with TOOLBOX diagnostics is required. TOOLBOX 12.4 is required for 500KB vehicles.

3. Enter a good VIN, original and new ECU part numbers. (You can use original in old and new if part numbers are the same.

4. Read and check limitations, select find configuration.

Part Details

VIN* 3AKJHLDV9MSMG0940
All 17 Characters

ECU Part Number Being Replaced* 400 867 126 0
10 Digits (400xxxxxx0)

New ECU Part Number* 400 867 138 0
10 Digits (400xxxxxx0)

☒ I have read the limitations above and confirm that this vehicle supports J1939 communications.

Find Configuration

Fig. 3, Entering Identifying Information

3. Add the configuration file to your shopping cart and place your order as shown in **Fig. 4**.



Fig. 4, Ordering the Configuration File

4. Save the file and then open WABCO TOOLBOXplus, select Aftermarket Programming, and select the file as shown in Fig. 5.

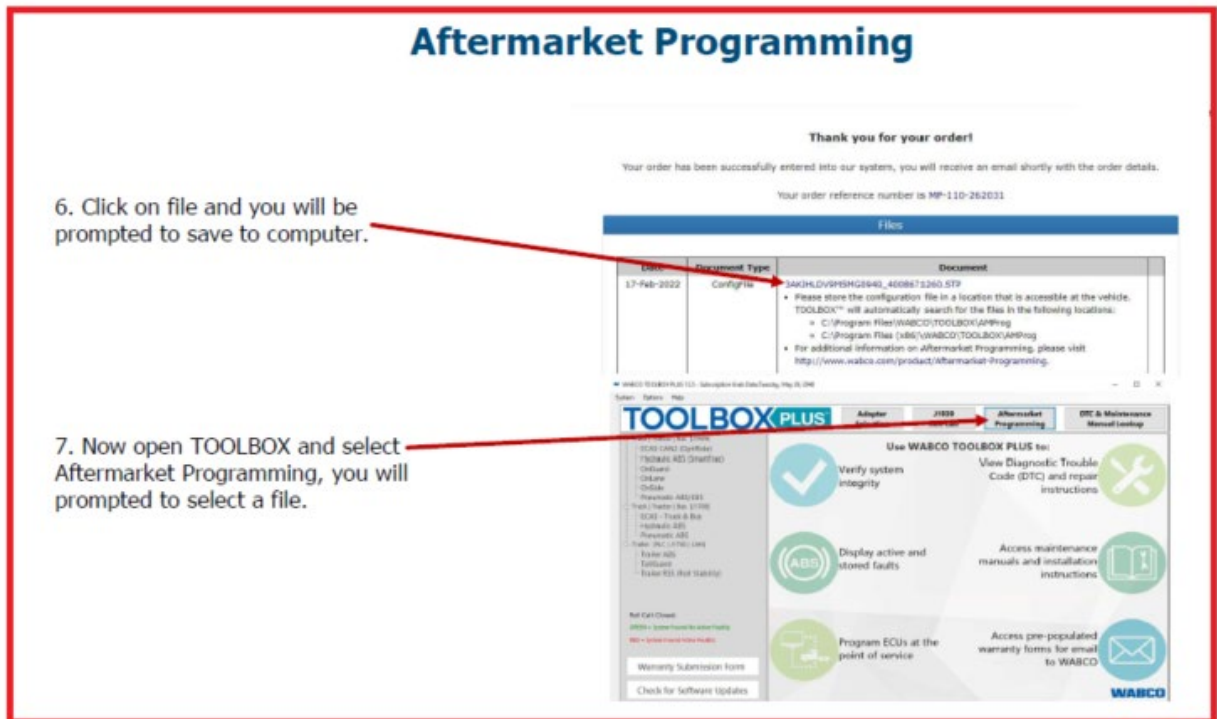


Fig. 5, Saving and Importing the Configuration File

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5. Complete the programming steps in WABCO TOOLBOX*plus*.
6. The updating of the software for both the ABS ECU and the CGW is now complete.