

ESC Warning Lamp and ECU Replacement

TSB-54-104-WST

Creation Date: 2026-02-18

Engine or Vehicle Affected:

- 49X
- 47X

Warranty applies to this described condition. See the warranty information at the end of this bulletin.

Described Condition:

Vehicles equipped with mBSP braking and ESC that show repeated DTC 1810/02 and a yellow ESC warning lamp (ESC disabled) have a longitudinal acceleration fault.

This fault occurs when wheel speed sensor data does not match the ESC sensor during straight-line acceleration or deceleration with no control functions active (ESC, XBR, ABS, DTC).

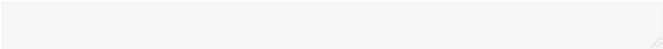
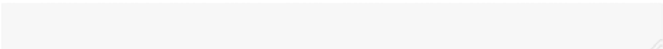
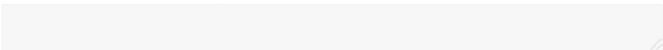
Replace the Electronic Control Unit (ECU) to correct this issue. Only vehicles with ABS ECUs identified in Table 1 apply to the service bulletin. For the replacement ECU part numbers, see Table 1.

Table 1, Replacement of ECUs

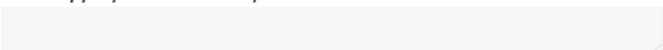
Item No.	Old Part Number	Description	New Part Number
1	WAB 400 867 185 0	6S6M ESC ATC	WAB 400 867 238 0
2	WAB 400 867 226 0	6S6M HSA ESC ATC	WAB 400 867 239 0
3	WAB 400 867 225 0	6S6M ESC ATC PLC	WAB 400 867 238 0
4	WAB 400 867 223 0	4S4M ESC ATC PLC	WAB 400 867 236 0
5	WAB 400 867 224 0	4S4M HSA ESC ATC	WAB 400 867 237 0

Table 1, Replacement of ECUs

Removal of the ECU

- ☐ Park the vehicle on a level surface, shut down the vehicle, and apply the parking brake. Chock the tires.

- ☐ Disconnect the wiring harness from the ECU.

- ☐ Remove the mounting hardware to remove the ECU from its location. See **ECU Removal** instructions in the *appropriate Workshop Manual*.


Installation of the ECU

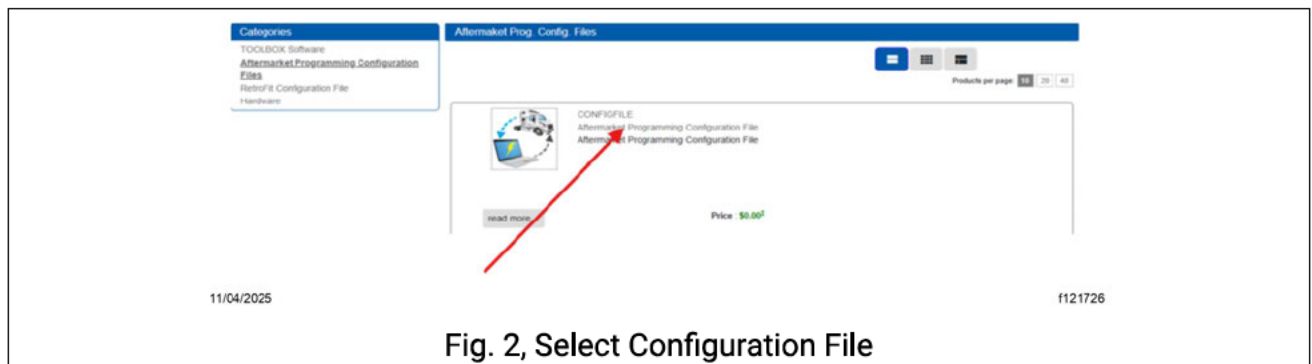
- ☐ Install the ECU with the appropriate mounting hardware and tighten to the manufacturer's specifications. See **ECU Installation** instructions in the *appropriate Workshop Manual*.


2. ☐ Connect the wiring harness to the ECU.
3. ☐ Perform the following steps;
 - a. ☐ Turn the keyswitch to the ON position and verify the ABS self-test, the ABS warning light should illuminate and then turn OFF.
 - b. ☐ Program the ECU using WABCO Toolbox software. See **Programming Instruction** below.
 - c. ☐ Perform the ESC End-of-Line calibration procedure as outlined in the WABCO manual. Once complete, the ABS and ATC/ESC warning indicators should illuminate when the keyswitch is in the ON position, and then turn off. For post-installation calibration, see *step 10 in the Programming Instruction* below.
4. ☐ Remove the checks.
5. ☐ Test the ECU.

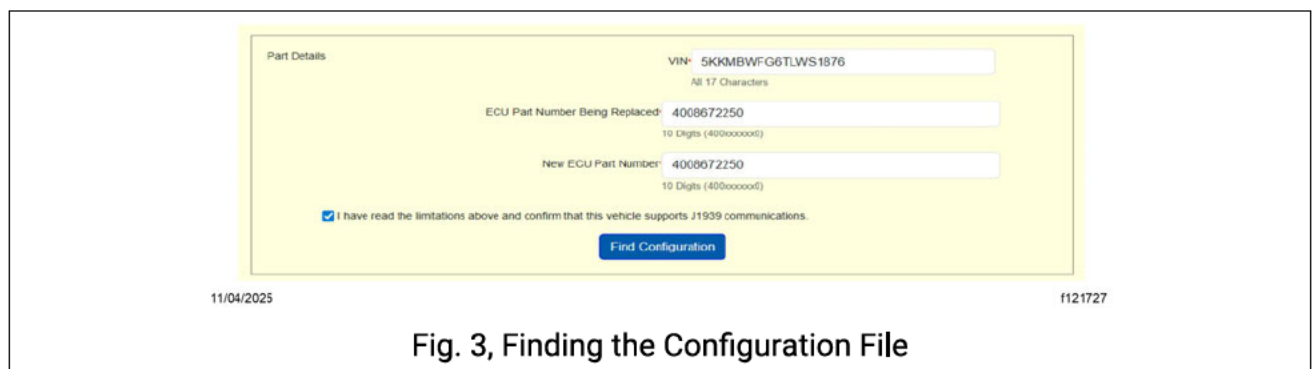
Programming Instruction

🔑 **Note:** Ensure that the software WABCO TOOLBOX is updated to the latest version (14.6 at time of publication) or newer.

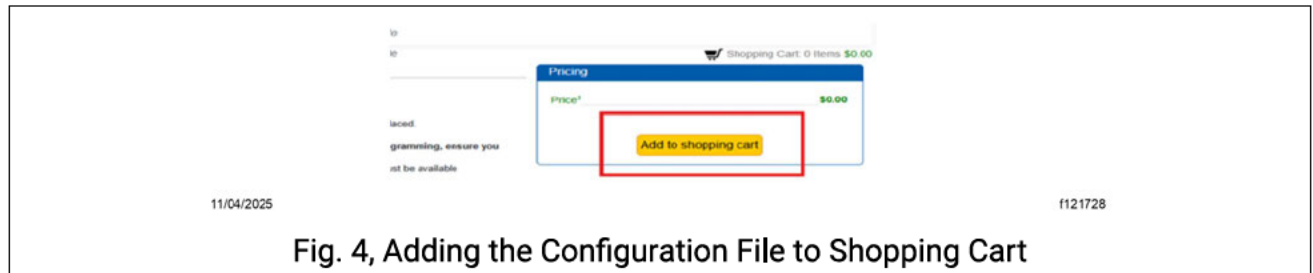
1. ☐ Go to the <https://wabco.snapon.com/Login.aspx>.
2. ☐ Login to the WABCO page.
3. ☐ Select 'Aftermarket Programming Configuration File.' See Fig. 1 and Fig. 2.



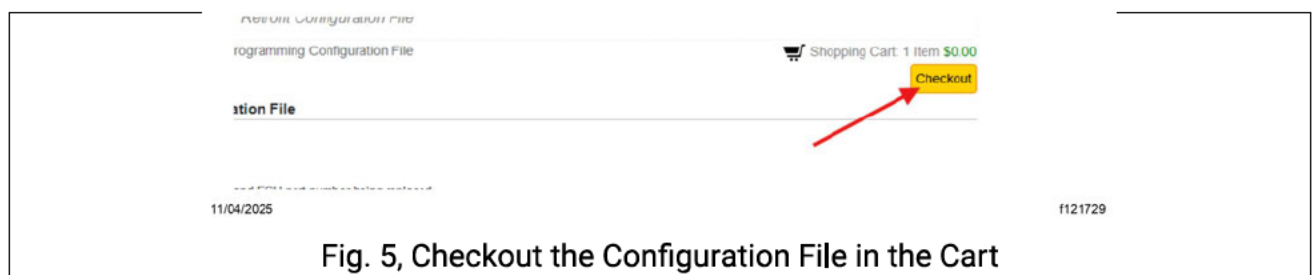
4. ☐ Enter the full VIN and old part number in both places and select 'Find Configuration.' See Fig. 3.



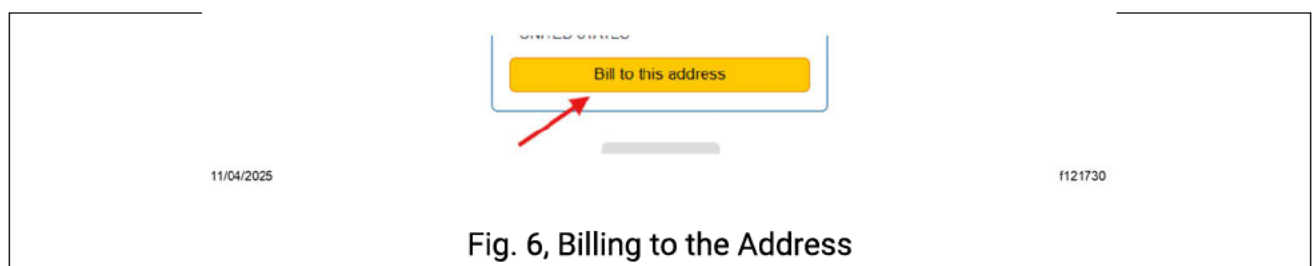
5. ☐ Select 'Add to shopping cart.' See Fig. 4.



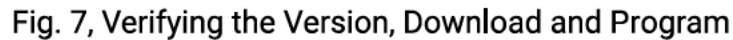
6. ☐ Checkout the configuration file in the cart. See Fig. 5.



7. ☐ Select 'Billing to the Address.' See Fig. 6.



8. ☐ Agree to the terms and place the order, then download and save the file. Open the WABCO Toolbox and ensure it is up to date. Select 'Aftermarket Programming' and confirm the pop-up, then choose the downloaded file to begin programming. Review the pass/fail result. If it passes, turn the keyswitch to the OFF position to allow the vehicle to save all the parameters correctly. See Fig. 7.



- 👉 **Note:** For issues regarding the WABCO TOOLBOX software downloading and installation process, call WABCO at 1-855-228-3203 or email wnacustomer@wabco-auto.com.

10. ☐ The ABS ECU is now in the ESC calibration mode. Use WABCO TOOLBOX to perform the ESC calibration procedure. Complete the driving portion of the End of Line (EOL) procedure. After approximately 100 yards of straight-line driving and then a 90 to 180 degree turn is recorded by the ABS ECU, the stability lamp on the dash will turn off. See Fig. 8.



- This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

See Table 2 for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the Service Bulletin # field.

Table 2, OWL VMRS Codes and Labor Allowance, eCascadia Vehicles

Primary Failed Part	Component Code	Cause Code	Correction Code	SRT Code	Description	Hours
WAB 400 867 185 0	013-011-076	51	03	330-5022A	R&R ABS ECU	1

Table 2, OWL VMRS Codes and Labor Allowance, eCascadia Vehicles

Note:

REPLACE

W14

W17

W12

W19

013-011-076

Document Number: 0000211715

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