Doc\_000135\_en

09/26/2022

#### FIRMWARE UPDATE FILE FOR ELECTRONIC EXTENSI-ON MODULE/TAILGUARD ECU TO VERSION 5.5

This document provides instruction and access to the files to update the Electronic Extension module / TailGUARD ECU to version 5.5.

ECU update only possible with PIN1.

Link to download update files:

http://www.wabco.info/i/2094

#### 1. SELECT CORRECT FLASH FILE ON YOUR SYSTEM

- 1a. Open the TEBS E diagnostic software.
- 1b. Check the current device number and software version.



1c. Compare vehicle (truck or trailer application), device number and software version and select the corresponding flash file as shown in the table below.



Doc\_000135\_en

09/26/2022

Electronic Extension Module	Software Version	Device Number	Flash-File to be used	
ith TEBS E)	EX010122 (ELECTRONIC EXTENSI- ON MODULE E2)	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROM- PremiumFrom0x100ESADisbl_DPL2 hex	
	EX010210 (ELECTRONIC EXTENSI- ON MODULE E2.5)	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROM- PremiumFrom0x100ESADisbl_DPL2. hex	
	EX010212 (ELECTRONIC EXTENSI- ON MODULE E2.5)	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROM- PremiumFrom0x100ESADisbl_DPL2. hex	
	EX010314 (E4)	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROMP- remiumFrom0x100_DPL2.hex	
ailer (w		ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROMP- remiumFrom0x100_DPL2.hex	
Tra	EX010405 (E5)	ECU TailGUARD 446 122 071 0	2461220542_EX010502_EEPROMBa- sicFrom0x100_DPL2.hex	
	EX010409 (E5.1)	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROM- PremiumFrom0x100_DPL2.hex or 2461220542_C_DPL2.hex*	
		ECU TailGUARD 446 122 071 0	2461220542_EX010502_EEPROM- BasicFrom0x100_DPL2.hex or 2461220542_D_DPL2.hex*	
Truck	EX010314 (E4)	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROMP- remiumFrom0x100_DPL2.hex	
	EX010405 (E5)	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROMP- remiumFrom0x100_DPL2.hex	
		ECU TailGUARD 446 122 071 0	2461220542_EX010502_EEPROMBa- sicFrom0x100_DPL2.hex	
	EX010400 (E5.1)	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROMP- remiumFrom0x100_DPL2.hex	
		ECU TailGUARD 446 122 071 0	2461220542_EX010502_EEPROMBa- sicFrom0x100_DPL2.hex	
	EX010453 (E5 "Daimler ESA-R")	ELECTRONIC EXTENSION MODULE Premium 446 122 070 0	2461220542_EX010502_EEPROMP- remiumFrom0x100_DPL2.hex	

\*The Files "2461220542\_C\_DPL2.hex" / "2461220542\_C\_DPL2.hex" may only be used if the reverse gear signal for TailGUARD is connected to GIO 12-1 and not to GIO 14-3. In this case the new EOL procedure is NOT needed after flashing the software (this means: only steps a to f. of the described 3. "ECU Update" is sufficient.



Doc\_000135\_en

09/26/2022

#### 2. SAVE PARAMETERS

During hte software update the device will be reset completely. All parameters will be set back to factory defaults and the vehicle configuration will be lost. Before flashing, save the ECU parameter setting as backup file (\*.ECU file).

For **Electronic Extension module/TailGUARD ECU with TEBS E** system, follow steps 2a. - 2b., for **Electronic Extension module/TailGuard ECU with Truck & Bus** system go to section 2c. - 2e.:

**TEBS E:** 

9

2a. Select System -> Modulator replacement TEBS E ....



<sup>2</sup>b. Save paramaters file on PC.





Doc\_000135\_en

09/26/2022

#### Truck & Bus system:

2c. Select System -> Parameter ....



- 2d. Select tab (11) Connector.
- 2e. Click Write to file and save the file on your hard drive.





Doc\_000135\_en

09/26/2022

#### 3. UPDATING THE ECU

3a. Select System -> "ECU update -> Electronic Extension Module ....



3b. Click Read from file

🥵 ECU update — 🛛							$\times$	
ECU update! Ensure that the supply voltage is not switched off during the download. The voltage should be greater than 22 V. The connection of the Diagnosis to the electronic system must not be interrupted.								
Active ECU Hardware device number Hardware version	EC 648 A	EX 122 070 0	Read-in file Download file: File information:					
Hardware barcode Software part number DPL version bootloader		589607 14 201 884 0						
Read from file	wi	ite to ECU		<u>0</u> K		Help		

- 3c. Select and select the correct software according to section 1.b.
- 3d. Click *Write to ECU* and wait until the update process is finished (*Download status 100%*). This process can take up to 10 minutes.



Doc\_000135\_en

09/26/2022

🖗 ECU update — 🗆							
ECU update! Ensure that the supply voltage is not switched off during the download. The voltage should be greater than 22 V. The connection of the Diagnosis to the electronic system must not be interrupted.							
Active ECU Hardware device number Hardware version Hardware barcode Software part number DPL version bootloader	ECU ELEX 480 122 070 0 A 46589607 884 201 884 0 1	Read-in file   Download file: 2461220542_EX010502_EEPROMPremiumFre   File information: -   - 246 122 070 2 -   Hardware Serial Numbers (Barcodes): -   - 00 150 0 000 000 - 00 150 9 999 999 -   Application Software Part Numbers: -   - 246 122 071 2 A -   - 246 122 071 2 D -   - 246 122 073 2 A -					
Read from file	Write to ECU	OK Help					

- 3e. Repeat steps 1-4 of this chapter with the file 2461220542\_EX010511\_DPL2.hex.
  - $\Rightarrow$  The ECU update is finished.

#### 4. PERFORM EOL (END OF LINE) PROCESS

If files "2461220542\_C\_DPL2.hex" or "2461220542\_C\_DPL2.hex" were used, the the device will keep its parameter setup and the step of this chapter are NOT needed.

- 4a. Select Start-up -> Start ... in the main menu.
- 4b. Follow the steps shown on screen.
- 4c. Use the parameter backup file from you saved according to the chapter "2. Save parameters" on page 3 of this document.
  - $\Rightarrow$  The ECU is configured.

A

