

Software update of the Thermo Call TC3 Receiver – 7100353C

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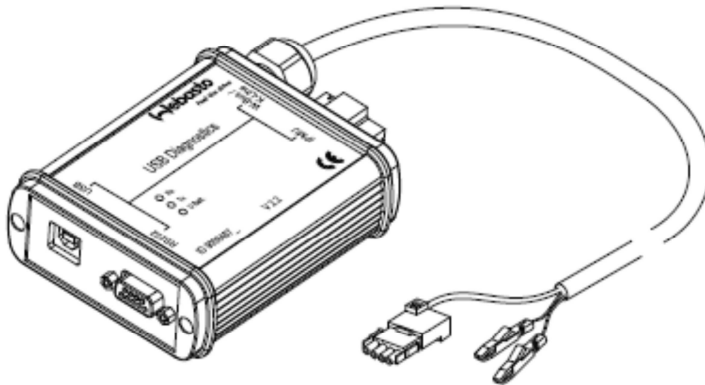
1 General Information

The kit Thermo Call Type TC3 Version 7100350C includes the Thermo Call Type TC3 receiver 7100353C. This Receiver is able to be updated with new firmware by the WBus connection.

Attention: The update is only available for Version 7100353C. We created a specific software, further called flash-software, for Windows based computers (32bit / 64bit) which can be connected to our Webasto Diagnostic Module 9008487. This flash-software is able to update the Thermo Call Type TC3 via a flash-container. The flash software and the flash container is available on our Webasto Dealerportal.

2 Required Parts

- Flash software
- Flash Container
- Webasto Diagnostic Module 9008487 (see Picture 1 "Webasto Diagnostic Module 9008487")



Picture 1 "Webasto Diagnostic Module 9008487"

3 Connecting the Thermo Call TC3

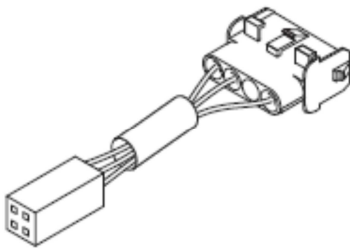
The Thermo Call Type TC3 receiver is able to be updated using the Wbus connection. In general it is possible to grant access due to the connection of the power supply and the WBus wiring (colored in yellow). The following chapters describe most reliable option to access the WBus interface.

3.1 Thermo Call TC3 already installed in a vehicle

To flash the Thermo Call Type TC3, if it is already installed in a vehicle, you have access to the WBus either in the engine bay or by the cable harness of the TC3 (7100355).

3.1.1 Access by cable harness of the Thermo Call TC3 (recommend)

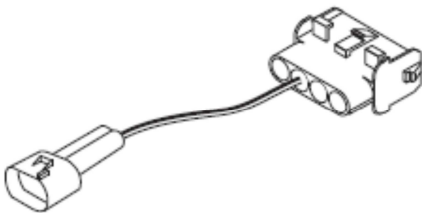
If the fitting position of the Thermo Call TC3 is known you can grant access to the WBus wiring and the power supply due the cable harness of the TC3 7100355 by the specific adapter (Picture 2 "Adapter PC-Diagnosis 1301783").



Picture 2 "Adapter PC-Diagnosis 1301783"

3.1.2 Access in the engine bay

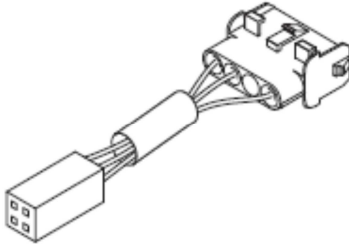
In general the diagnostic interface is situated in the engine bay. You can grant access to the WBus wiring via this interface using the specific adapter (see Picture 3 "Adapter PC-Diagnosis 92556"). It is very important to connect the wiring with the control units which are situated in the passenger cabin (harness through the bulkhead). Therefore you can either switch the position from the first to the second pin of the adapter or bridge these two positions electrically.



Picture 3 "Adapter PC-Diagnosis 92556"

3.2 Thermo Call TC3 is still on stock

If the Thermo Call TC3 is not yet installed you can grant access to the WBus wiring and the power supply via the cable harness of the Thermo Call TC3 7100355 by the specific adapter (see Picture 4 "Adapter PC-Diagnose 1301783"¹).



Picture 4 "Adapter PC-Diagnose 1301783"

4 Connecting the Webasto Diagnostic Adapter

As described in chapter 3 the Diagnostic Module is now connected to the Thermo Call TC3. Please connect now the Diagnostic Module to your computer. If the Diagnostic Module never was connected to the used computer please follow up the user manual 120894 of the Webasto Thermo Test to perform the driver installation of the Diagnostic Module.

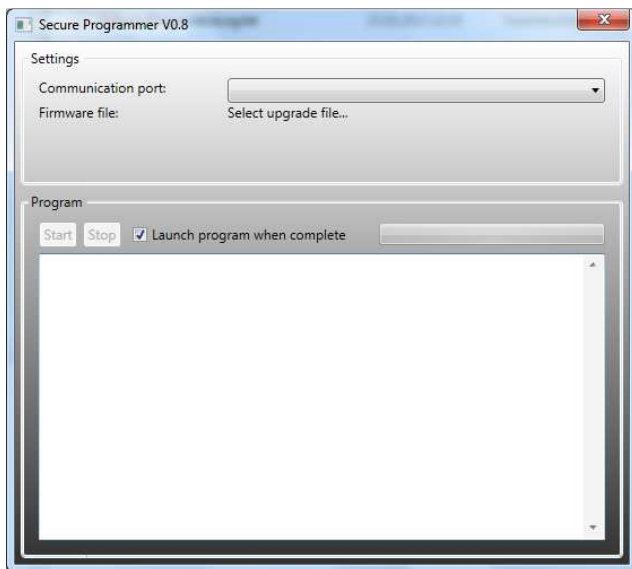
If everything is connected and correctly recognized by the computer the Flash Software (chapter 5 Using of the Flash Software) will automatically detect the Diagnostic Module.

5 Using of the Flash Software

The Flash Software is delivered in a compressed archive which has to be extracted in a directory of your choice on your computer. You also have the possibility to extract it on an USB memory device. Important is to keep all extracted files in the directory. Please do not use the Webasto Thermo Test software while applying the Flash Software. The software has to be started by a double click on the file "SecureProgrammer.exe" which is situated in the directory you have extracted.

5.1 Start of the Flash Software

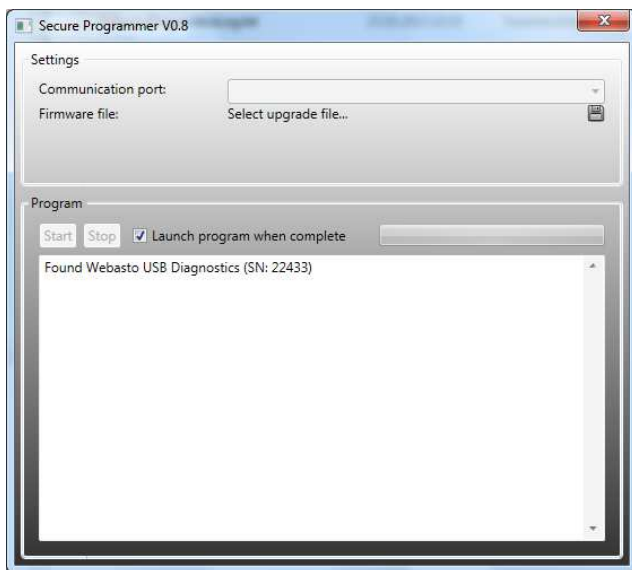
After the double click on the file "SecureProgrammer.exe" the software will start and you will see the window shown in *Picture 5 "Software start screen"* if the diagnostic module is not connected yet. Please connect the Webasto Diagnostic Module now to your computer and await the automatic device detection.



Picture 5 "Software start screen"

5.2 Automatic device detection

If the Webasto Diagnostic module is already connected or you connected it after facing the start screen you will see that the Flash Software detects your Webasto Diagnostic module automatically. As shown in *Picture 6 "Automatic Detection of the connected diagnostic module"* the Flash Software will display that your device was found including the serial number. Afterwards you are able to open the Flash Container by a click onto the appeared disk at the upper right side of the window.

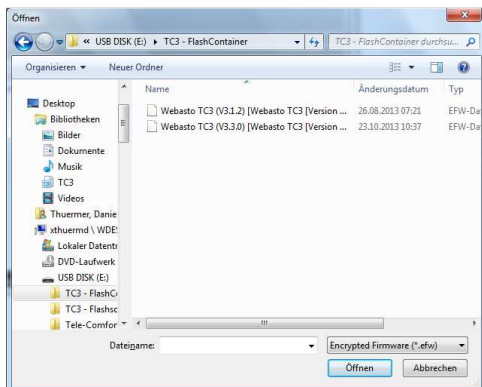


Picture 6 "Automatic Detection of the connected diagnostic module"

5.3 Choosing the flash container

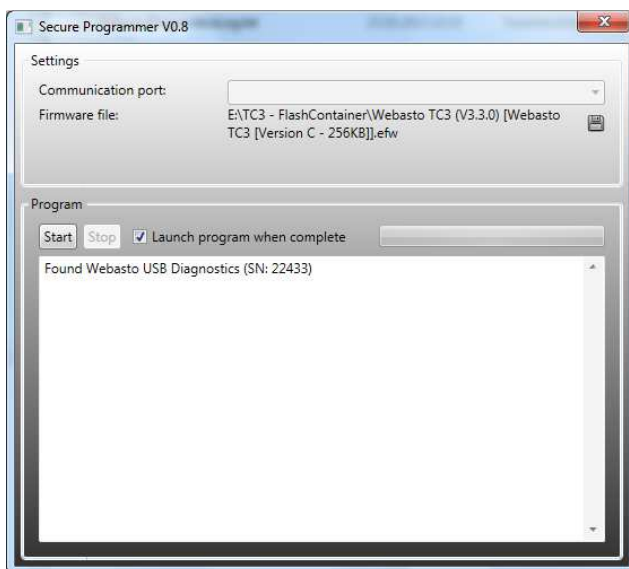
You receive the Flash Container separately from the Flash Software on our Webasto Dealer Portal. After downloading the file you have to store it either on your local drive or on a USB memory device.

Due to the click onto the disk at the upper right side you are able to open a Flash Container. You can choose the Flash Container file, as shown in *Picture 7 "Choice of the Flash Container"*, in the directory where you stored it. Please confirm your choice by clicking "open".



Picture 7 "Choice of the Flash Container"

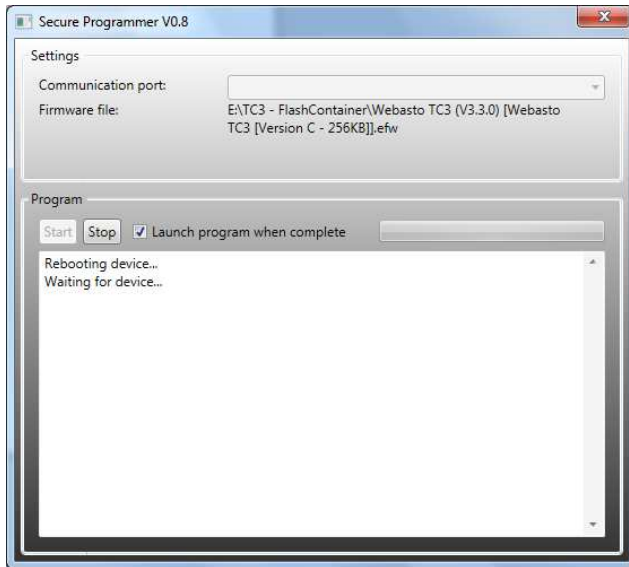
The view of the window changes as shown in *Picture 8 "Software update is ready to be started"*. The Flash Software displays the currently loaded Flash Contain (including the directory). You are now able to perform the software update of the Thermo Call TC3 Receiver (7100353C).



Picture 8 "Software update is ready to be started"

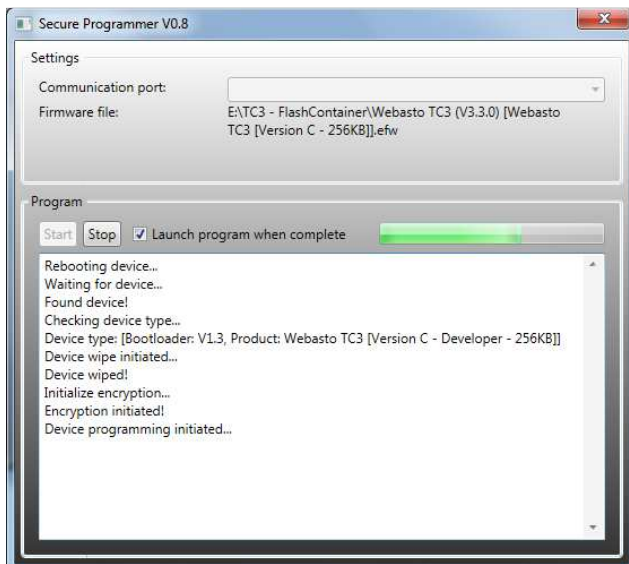
5.4 Start of the software update

The Flash Software initiates the software update by clicking the “start” button. First step of the process is to reboot the device. Afterwards the Flash Software awaits a signal of the connected Thermo Call. This waiting period is shown in *Picture 9 “Start of the software update”*.



Picture 9 “Start of the software update”

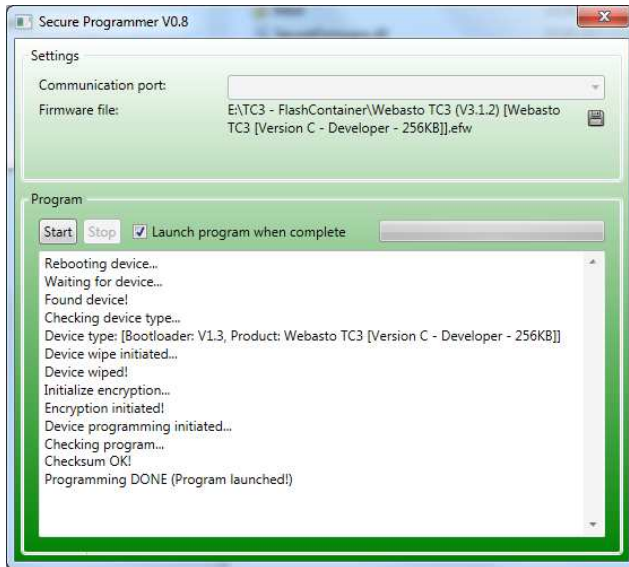
If the device is detected again the Flash Software checks some internal data of the device to ensure a secure update of the software. The device programming starts automatically if everything is checked. The progress is displayed as shown in *Picture 10 “Software update starts programming”*.



Picture 10 “Software update starts programming”

5.5 Final confirmation of the flash procedure

After the programming is done the Flash Software checks again some internal data as the checksum of the updated software. When the software update was performed successfully the window changes its color to green as shown in *Picture 11 "Software update performed successfully"*. You can disconnect the system completely.



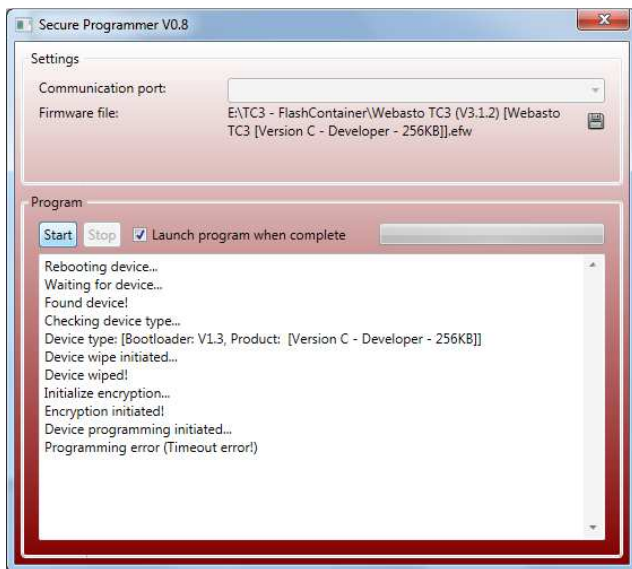
Picture 11 "Software update performed successfully"

5.6 In case of errors during the flash process

If you should face an error during the software update the window of the Flash Software will change to red as shown in *Picture 12 "Software update faced an error"*. In that case please check:

- The connection of the Thermo Call TC3
- The connection of the Webasto Diagnostic Module to the WBus interface and power supply
- The connection of the Webasto Diagnostic Module to your computer
- The detection of the Webasto Diagnostic Module (at least the communication port settings)
- The loaded Flash Container
- You may have to disconnect the heater and other device from the W-Bus if the error still occurs

After you have checked these points please try again to update the firmware of the Thermo Call TC3 Receiver (7100353C).



Picture 12 "Software update faced an error"

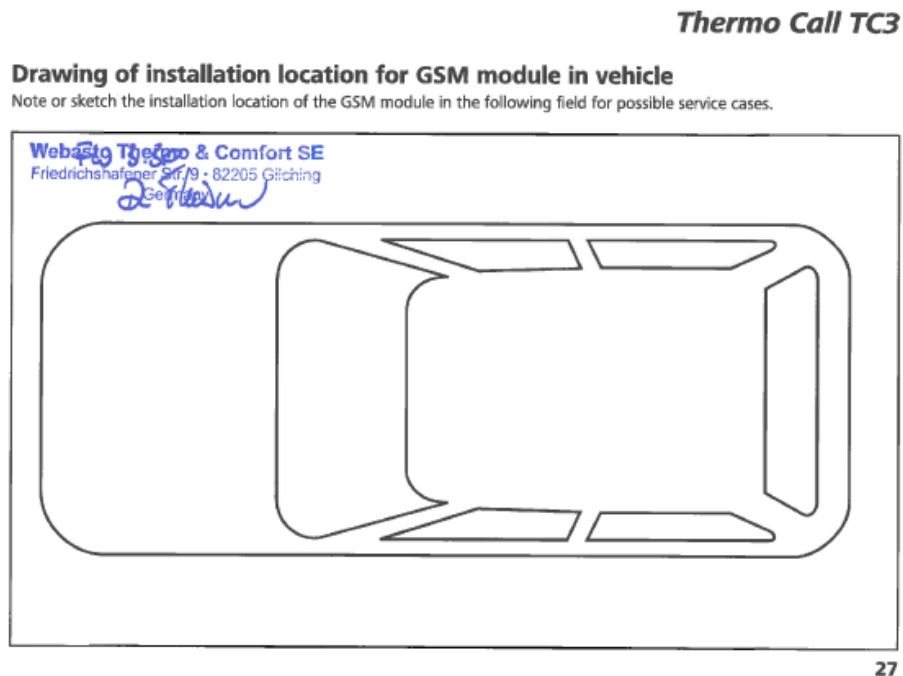
6 Additional Information

6.1 Footprints

1 Pinning might be adjusted manually to access the WBus wiring

6.2 Marking

You should mark the upgraded Thermo Call TC3 in the installation manual on the last page which is designated for the installation notes. Please mark there the firmware update with version, sign and company stamp. You will find an example in Picture 13 "Marking of the firmware update in the installation manual 7100351C".



Picture 13 "Marking of the firmware update in the installation manual 7100351C"