

TVS Personal Flasher Instruction Manual

Congratulations on the purchase of your TVS Personal Flasher. This compact OBDII dongle gives you the possibility to flash TVS software files to your vehicle's TCU and ECU.

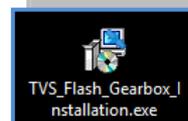
The instructions in this manual are based on the TVS Flash Gearbox software for programming your DSG Gearbox. However, these instructions will also apply on the TVS Flash Engine software. In short, the following steps have to be followed and will be described in more detail in this manual:

- 1) Installation of TVS Flash software
- 2) Requesting your TVS tune file
- 3) Reading your ECU or TCU *
- 4) Programming your ECU or TCU

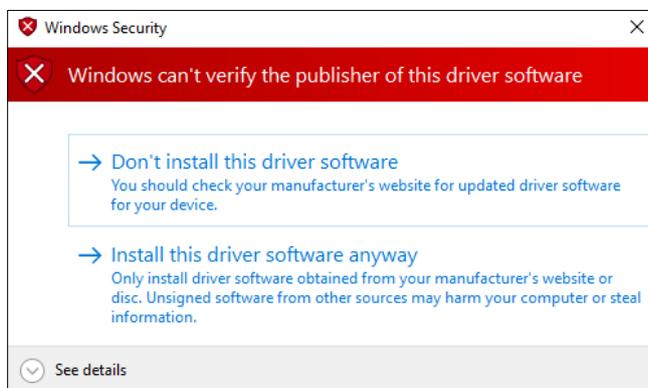
* Only necessary when the tune file is not available in the TVS software database

1) Installation of the TVS Flash software

- a) Plug the TVS Personal Flasher into a USB port on your computer.
- b) Download the TVS Flash software from <http://www.tvsengineering.nl/TVSFlash>
- c) Run the *TVS_Flash_Gearbox_Installation.exe* file on your computer.
- d) Follow the instructions throughout the Setup Wizard *
- e) After a few minutes the setup will finish and display the final screen confirming the installation is complete.

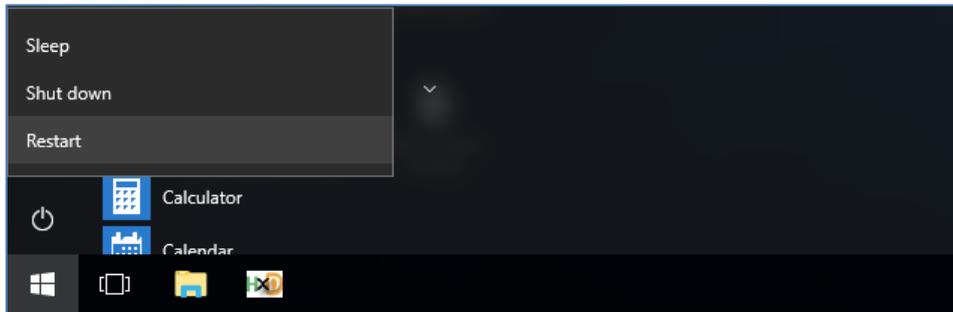


* During the installation you will receive a security message for installing the needed USB drivers. You have to select the option "*Install this driver software anyway*". If you do not receive this message, you will need to follow the steps I until VII on the next page. If this is not the case, continue to step 2.

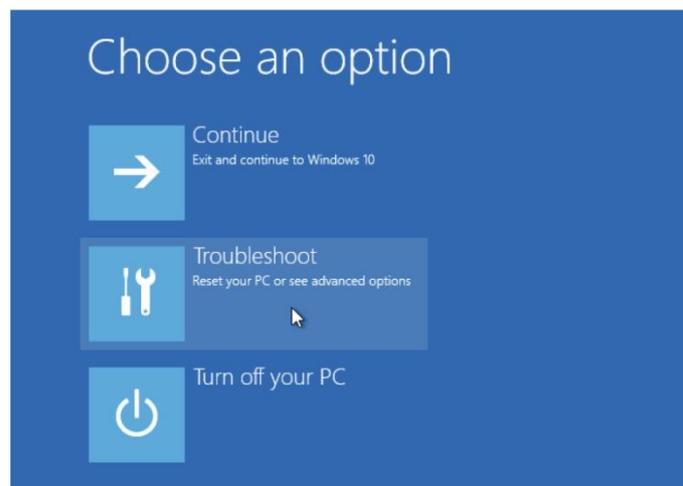


NOTE: Some Windows 8, 8.1 and 10 users will need to follow these instructions for installing the needed USB drivers.

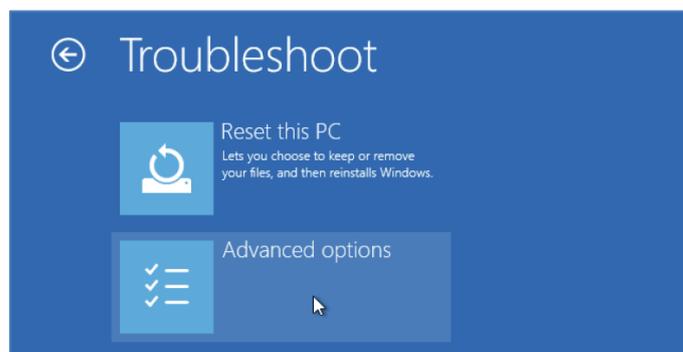
- I. Hold down the Shift key on your keyboard while you click the 'Restart' option in Windows. Your computer will restart into the menu displayed in steps II until VI.



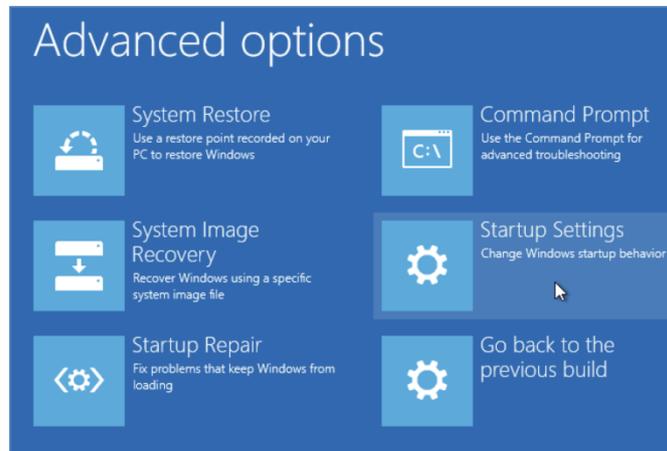
- II. Select 'Troubleshoot' within the *Choose an option* screen that appears.



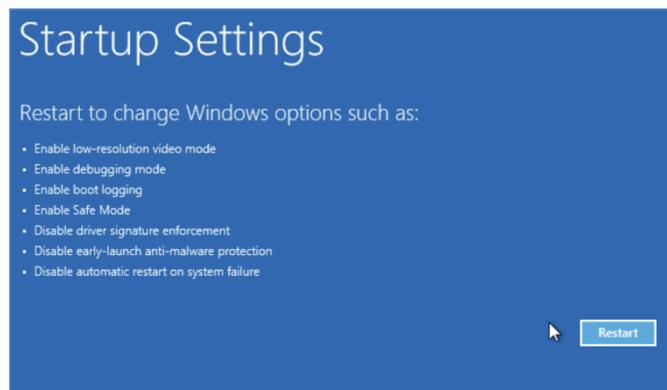
- III. Next select 'Advanced options'.



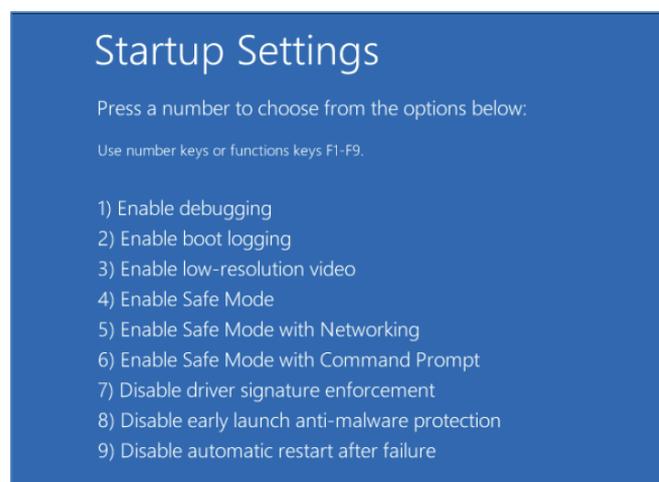
IV. Thereafter select 'Startup Settings' within the *advanced options* menu.



V. Finally click the 'Restart' button to restart your computer into the *Startup Settings* screen.



VI. Hold down the F7 key at the *Startup Settings* screen to 'Disable driver signature enforcement'.

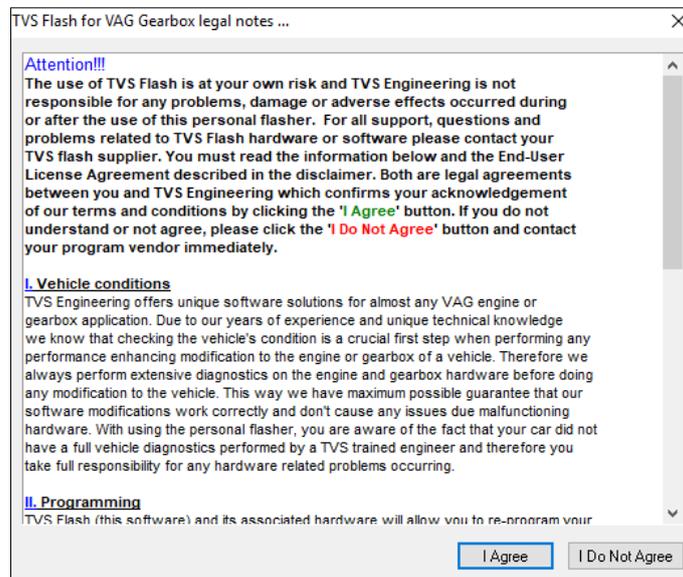


Your computer will boot with driver signature enforcement disabled. Now you will be able to install the unsigned drivers. For deactivating this option, follow the same steps again.

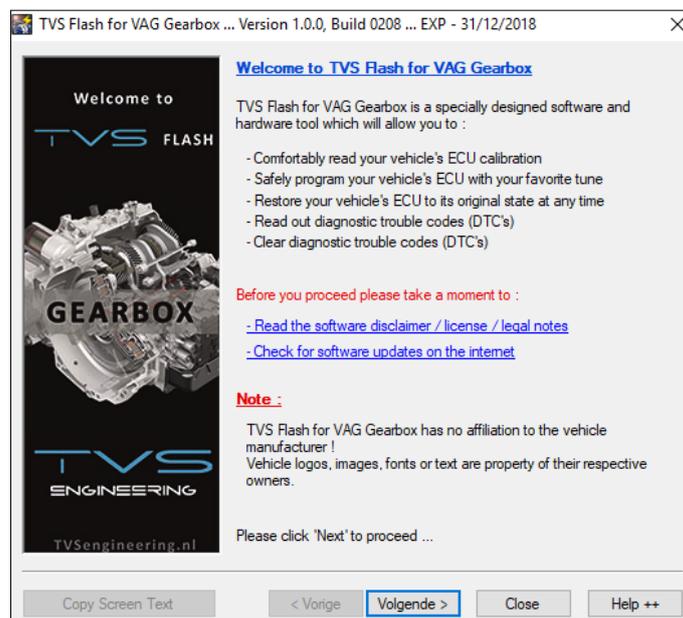
2) Requesting your TVS Tune file

Before you are able to read or write your TCU/ECU it is necessary to connect your personal flasher in the right way to your vehicle and request your TVS Tune file. Therefore, follow the next important steps exactly as described below:

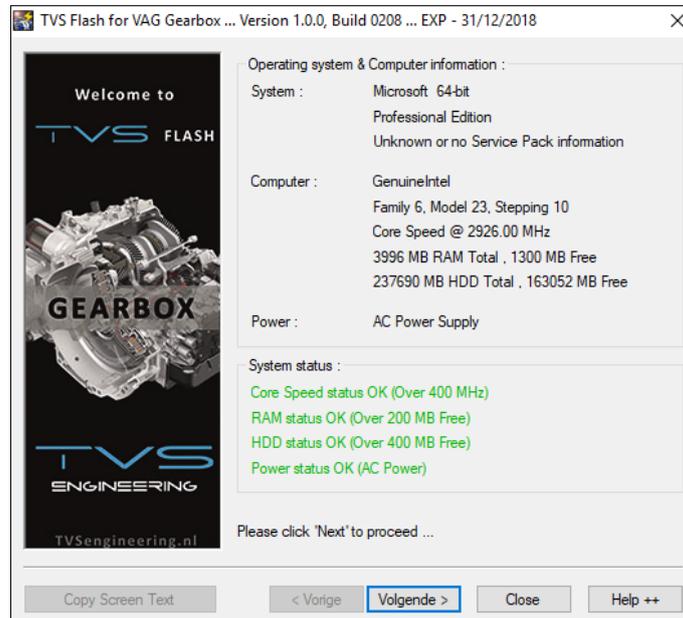
- a) Plug the TVS Personal Flasher into a USB port on your computer and the other end into the OBDII port of your vehicle.
- b) Turn the ignition to the **ON** position but **DO NOT** start the vehicle.
- c) Launch the installed TVS Flash software by double clicking on the desktop icon. To continue the program you have to **agree** with the legal notes and be aware of the risks.



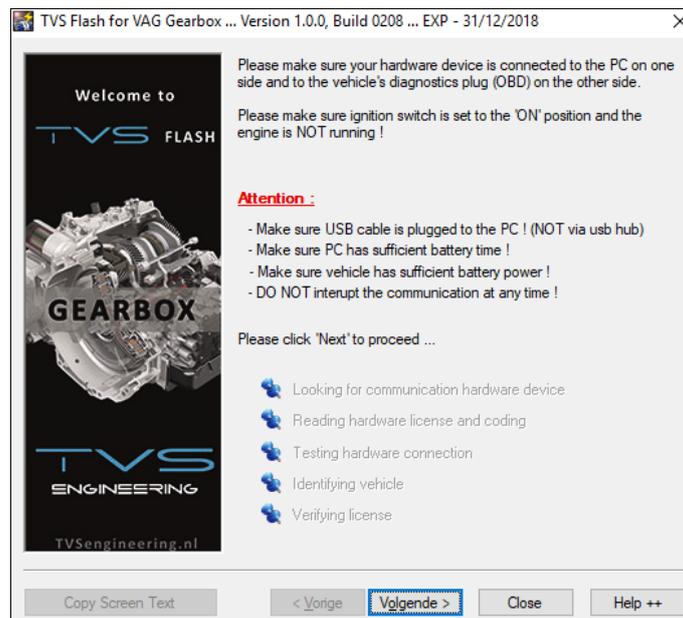
- d) Click 'Next >' to continue.



e) Please click 'Next >' again.



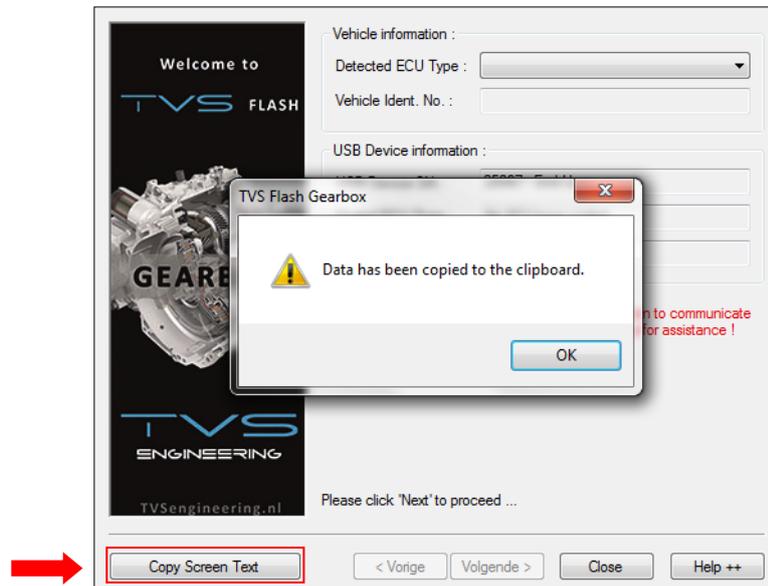
f) Please click 'Next' one more time.



After this the TVS Flash software will attempt to detect your TCU or ECU type.



g) Click 'Copy Screen Text' and paste this text in an email to your flashtool supplier.



From here you have to wait until the flashtool supplier provides you the instructions to continue. **DO NOT** proceed and do not choose any TCU/ECU Type. Otherwise your TVS Personal Flasher could be locked to the wrong protocol and is useless anymore.

After this there are two possible next steps:

- I. TVS sends you the tuned file and the instructions for correctly programming your vehicle. If this is the case, skip step 3 and go directly to **step 4**.
- II. TVS sends you instructions to read out your vehicle (only if no software is available in database). If this is the case, follow first the instructions described in **step 3**.

After you received a mail from your flashtool supplier it is possible to finish **step 2** on the next page. However, before you can read or write software (as instructed in the mail from your flashtool supplier) it is very important to select the right TCU/ECU type and protocol. Otherwise your TVS Personal Flasher will be locked to the wrong protocol and is useless anymore. For this follow the next critical steps described on the next page.

- h) Select the corresponding protocol you received from your flashtool supplier by mail from the pull-down bar beside 'Detected ECU Type' and then click "Yes" to confirm your selection. Only click "Yes" if you are 100% sure you selected the right protocol!

Welcome to
TVS FLASH
GEARBOX
TVS ENGINEERING
TVSEngineering.nl

Vehicle information :
Detected ECU Type : [Dropdown menu]
Vehicle Ident. No. :
USB Device information :
USB Device SN :
Coded ECU Type :
Coded Ident. No. :

The system was not able to connect with this vehicle. Please click 'Next' to proceed ...

Copy Screen Text < Vorige Volgende > Close Help ++

Are you sure you know better ?
Click 'Yes' to keep your new selection.
Click 'No' to restore previous selection.

Ja Nee

- i) Click 'Next' to continue where your Personal Flasher will be locked to your vehicle and then click "Yes" for further confirmation of your selection.

Welcome to
TVS FLASH
GEARBOX
TVS ENGINEERING
TVSEngineering.nl

Vehicle information :
Detected ECU Type : Temic DQ200
Vehicle Ident. No. :
USB Device information :
USB Device SN : 25067 - End User
Coded ECU Type : No ECU type coded
Coded Ident. No. : No identification coded

Clicking the 'Next' button will code your hardware device with the following information :
ECU Type : Temic DQ200
Identification number :
Please verify these details are correct ...

Please click 'Next' to proceed ...

Copy Screen Text < Vorige Volgende > Close Help ++

Are you sure you like to code your hardware device with the following information :
ECU Type : Temic DQ200
Identification number :
Ja Nee

- j) Finally click 'Next' to continue to the menu where it is possible to read and write your TCU/ECU. From here you could follow step 3 and/or 4 as instructed in the mail from your flashtool supplier.

3) Reading your TCU or ECU

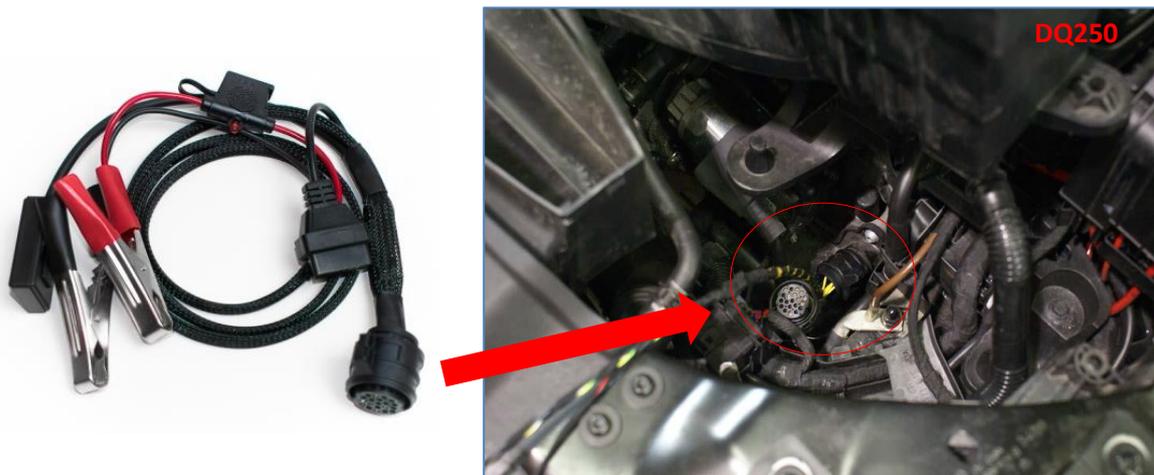
Reading the software from any ECU or TCU is normally only needed in case your flashtool supplier instructs to. If this is not the case, skip these steps and go directly to step 4 for programming your TCU or ECU.

TCU reading must always be done at the mechatronic. For this start at step 3 a).

ECU reading, in case possible, must be done at the OBDII port. When you successfully completed the previous steps in this manual and the personal flasher is connected to your vehicle, skip the TCU reading preparation procedure and start at step 3 e).

TCU Reading preparation procedure

- a) At the screen where you have the option to 'Read ECU Memory', turn **OFF** the ignition and remove your personal flasher from the OBDII port. **DO NOT** close the TVS Flash program or disconnect the USB cable from the laptop or dongle.
- b) Connect your adapter cable to the TCU. The TCU connector location depends on the type of gearbox, but is often visible beneath the intake air box. So first remove the original cable and connect the adapter cable. Some examples are displayed below.

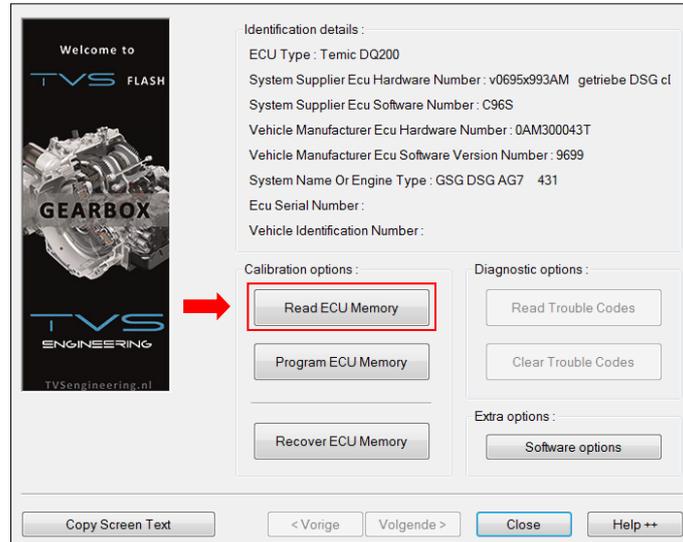


- c) Connect the TVS Personal Flasher to the OBDII port on the adapter cable.
- d) Connect the power cables from the adapter cable to the battery of the vehicle.

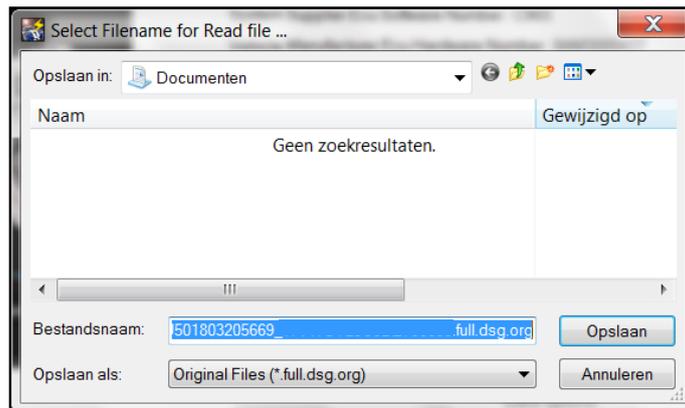
When everything is successfully connected the general reading procedure {step e) until i)} which starts on the next page have to be followed.

General Reading procedure

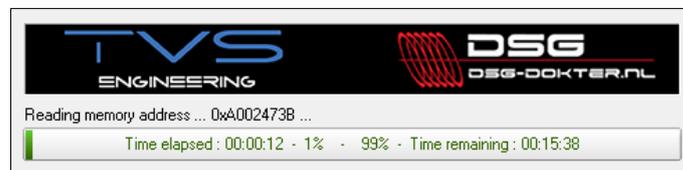
- e) Click 'Read ECU Memory' for reading the software from your TCU or ECU.
If you are for any reason not on the screen below, please follow step 2 again.



- f) Save the file to a location on your computer. Please do not change the file name.



- g) This process can take up 2 – 20 minutes depending on the TCU/ECU type and protocol.

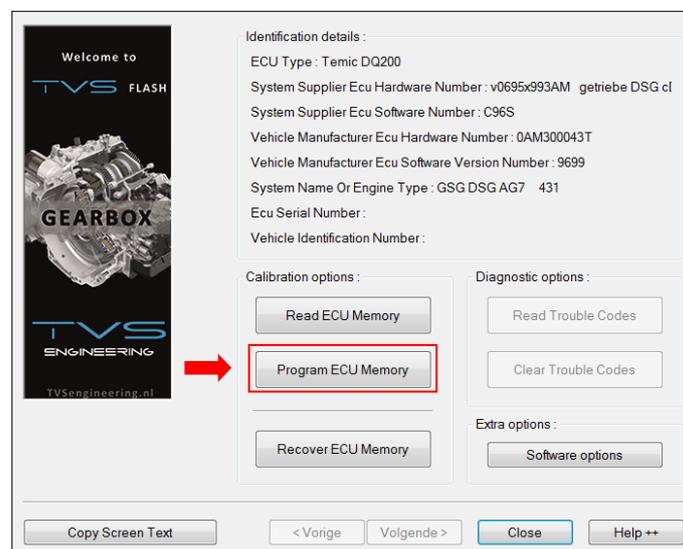


- h) After reading is successfully finished please turn **OFF** the ignition.
For TCU reading remove the clips from your vehicle's battery.
For ECU reading switch the vehicle ignition OFF.
- i) Disconnect all cables.
- j) Email the just extracted file as a response on the instruction email you received earlier from your flashtool supplier.

4) Programming your TCU or ECU

NOTE: During programming your TCU or ECU make sure both your laptop battery and car **battery are fully charged**. We recommend you to hook your vehicle as well as your laptop up to a battery charger if available. Beside this, make sure you **DO NOT** touch or move your laptop and Personal Flasher during programming.

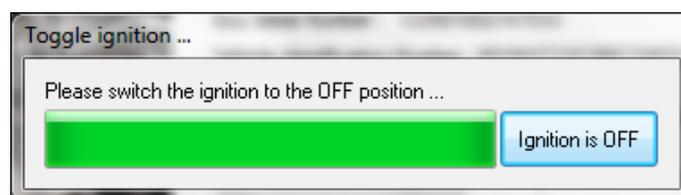
- Plug the TVS Personal Flasher into a USB port on your computer and the other end into the OBDII port of your vehicle.
- Turn the ignition to the **ON** position but **DO NOT** start the vehicle.
- Click 'Program ECU Memory' for writing the TVS Tune file to your TCU or ECU. If you are for any reason not on the screen below, please follow step 2 again.



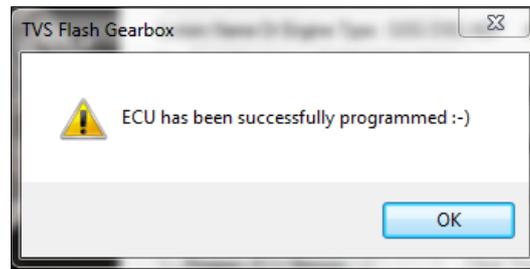
- Select the TVS Tune file you received from your flashtool supplier by mail.
- This process can take up 2 – 20 minutes depending on the TCU/ECU type and protocol.



- When programming is finished turn the ignition **OFF** and click 'Ignition is OFF'.



g) After the green bar is expired your ECU has been successfully programmed. Click 'OK'.



h) Remove the key and disconnect the cable from the OBDII port.

i) Start your car and your TVS Tune file will work. Enjoy driving!