

This is a basic howto for the GuzziDiag suite of tools, for use on the CARC series, Brevia 750, V7 Classic and California 1400. This howto will show you how to connect, read (backup) your existing map, write (flash) a new map and perform a TPS reset. This uses the Windows versions as examples, but Mac & Linux versions function the same.

All types of ECU use the same version of GuzziDiag. Click on the link for your operating system:

Windows: http://www.von-der-salierburg.de/download/GuzziDiag/GuzziDiag_V0.47.zip

Linux 32 bit: http://www.von-der-salierburg.de/download/GuzziDiag/GuzziDiag_V0.47.tgz

Linux 64 bit: http://www.von-der-salierburg.de/download/GuzziDiag/GuzziDiag_V0.47_x64.tgz

Mac: http://www.von-der-salierburg.de/download/GuzziDiag/GuzziDiag_V0.47.app.zip

For the **5AM ECU**, you will need the following Reader/Writer software from the GuzziDiag page:

Windows:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW5xReader_V0.28.zip

http://www.von-der-salierburg.de/download/GuzziDiag/IAW5xWriter_V0.24.zip

Linux 32 bit:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW5xReader_V0.28.tgz

http://www.von-der-salierburg.de/download/GuzziDiag/IAW5xWriter_V0.24.tgz

Linux 64 bit:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW5xReader_V0.28_x64.tgz

http://www.von-der-salierburg.de/download/GuzziDiag/IAW5xWriter_V0.24_x64.tgz

Mac:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW5xReader_V0.28_x64.app.zip

http://www.von-der-salierburg.de/download/GuzziDiag/IAW5xWriter_V0.24.app.zip

For the **7SM ECU**

Windows:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW7SMReader_V0.03.zip

http://www.von-der-salierburg.de/download/GuzziDiag/IAW7SMWriter_V0.03.zip

For the 15RC ECU

Windows:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW15xReader_V0.67.zip

http://www.von-der-salierburg.de/download/GuzziDiag/IAW15xWriter_V0.26.zip

Linux 32 bit:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW15xReader_V0.67.tgz

http://www.von-der-salierburg.de/download/GuzziDiag/IAW15xWriter_V0.26.tgz

Linux 64 bit:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW15xReader_V0.67_x64.tgz

http://www.von-der-salierburg.de/download/GuzziDiag/IAW15xWriter_V0.26_x64.tgz

Mac OS X:

http://www.von-der-salierburg.de/download/GuzziDiag/IAW15xReader_V0.67.app.zip

http://www.von-der-salierburg.de/download/GuzziDiag/IAW15xWriter_V0.26.app.zip

Each is a standalone program that works independently of each other and does not require any extra software.

You will also need the two cables. They are available from various resellers on the net.

Lonelec is the best source on the net. They sell a kit that includes both cables and is guaranteed to work

Get it here: http://lonelec.co.uk/index.php?route=product/product&product_id=51

Do not use the drivers that come with the cables. Download these drivers:

Windows: https://www.griso.org/CDM21228_Setup.zip

OS X 10.9 & above: https://www.griso.org/FTDIUSBSerialDriver_v2_4_2.dmg

OS X 10.3 - 10.8: https://www.griso.org/FTDIUSBSerialDriver_v2_2_18.dmg

Linux doesn't require drivers.

Required Cables:

1. The OBD2 KKL 16 pin to USB cable with the FTDI chip.



2. The Fiat 3 Pin to 16 pin Adapter



To connect to the bike, connect the two 16 pin connectors on the cables together and the 3 pin cable to the diagnostic port. For example on the GRiSO, it's located under the seat near the back right.



Attach the clips from the 3 pin cable to the battery (take note of polarity) and plug the USB cable into a USB port on your computer.

A LED on the OBD2 cable will indicate power is connected.



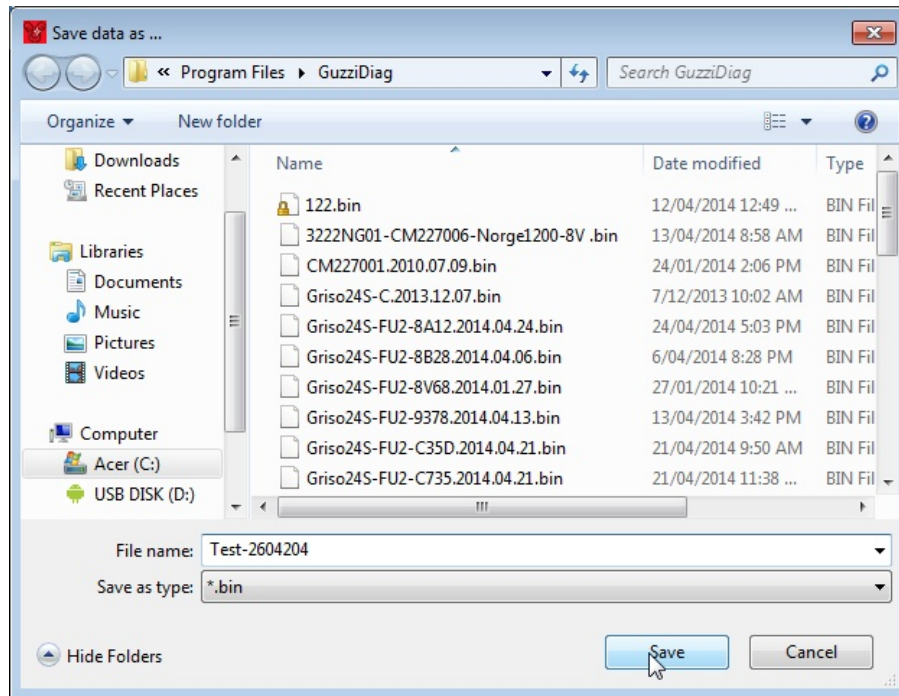
To read and backup your existing map, open the Reader. Your computer may have multiple COM ports, so select the correct one from the drop-down box. it is usually the last one or highest number. if it doesn't connect at first, keep trying different ports. In my example, I only have one, COM4.



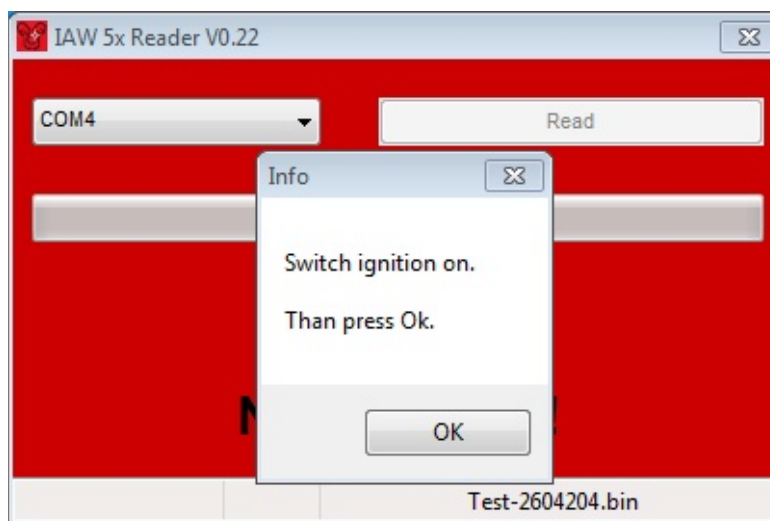
Then, click on 'read'



A dialog box will open, and here you can select the folder where you want to save the .bin file. You can name it anything you like.



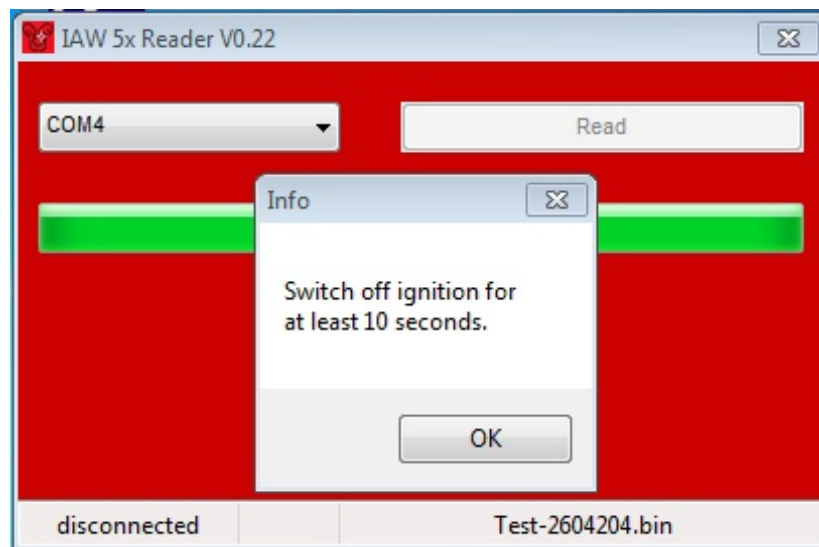
Click 'save'. You will then get:



Turn your keyswitch to 'on'. Do not start the engine. Reader will start downloading. It will take 15 minutes to backup the map.



When it has finished, it will ask you to switch off your keyswitch.



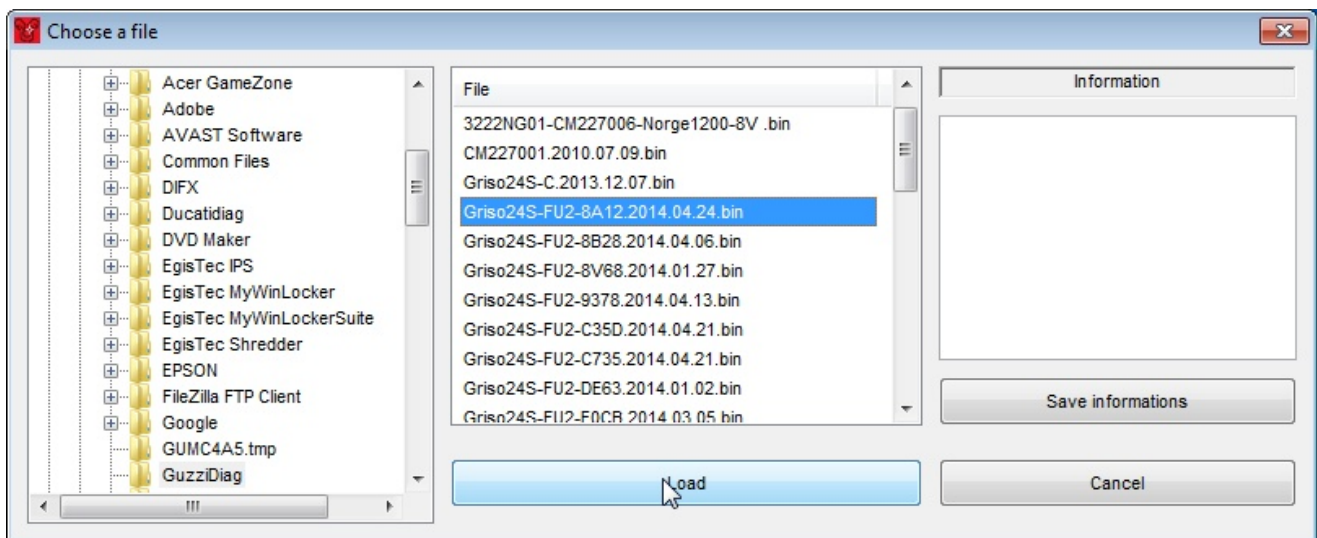
You have successfully saved your current map.

Writing a new map.

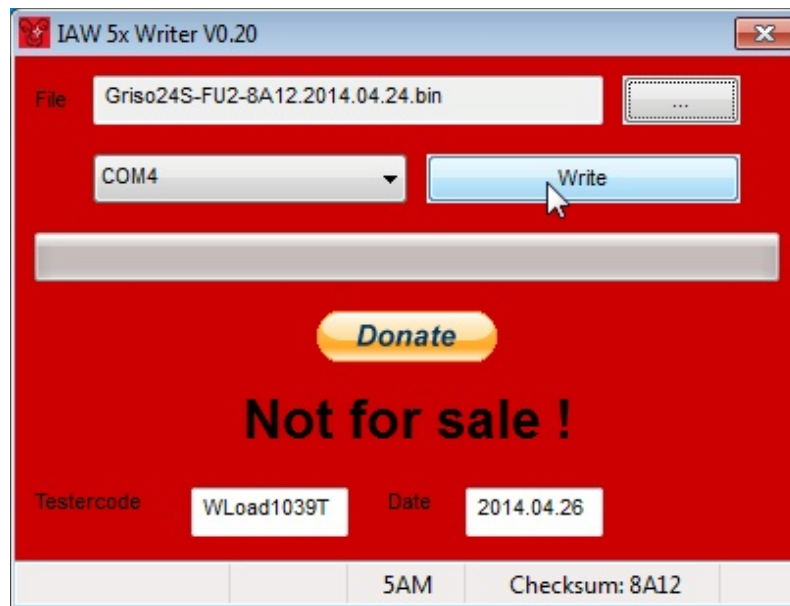
To write or flash a new map, start the Writer program. You can select your COM port here as well.



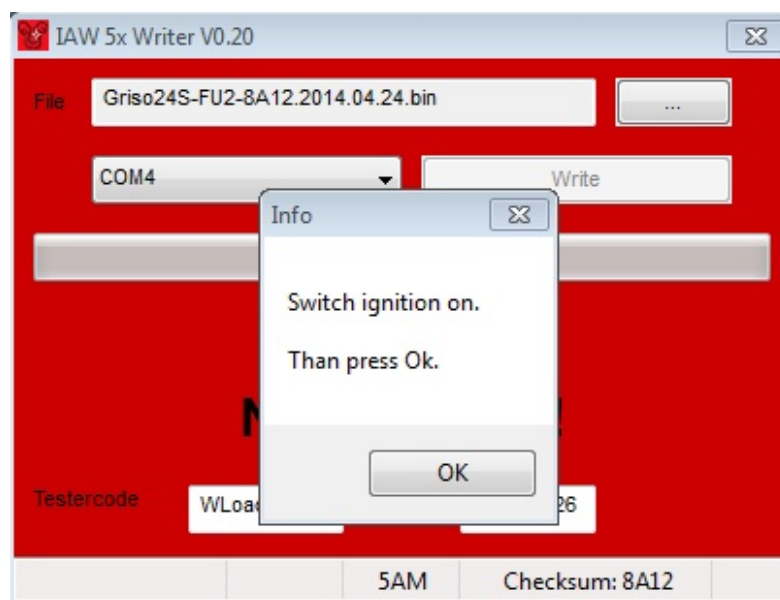
Click on the button with the 3 dots, and you will get a dialog box where you can browse to and select the .bin file you wish to flash by clicking 'Load'.



Then, click 'Write' Note: In the bottom right-hand corner is the checksum of the bin file. If I send you a map, it will have the checksum as part of the file name. If it is different, do not flash it.

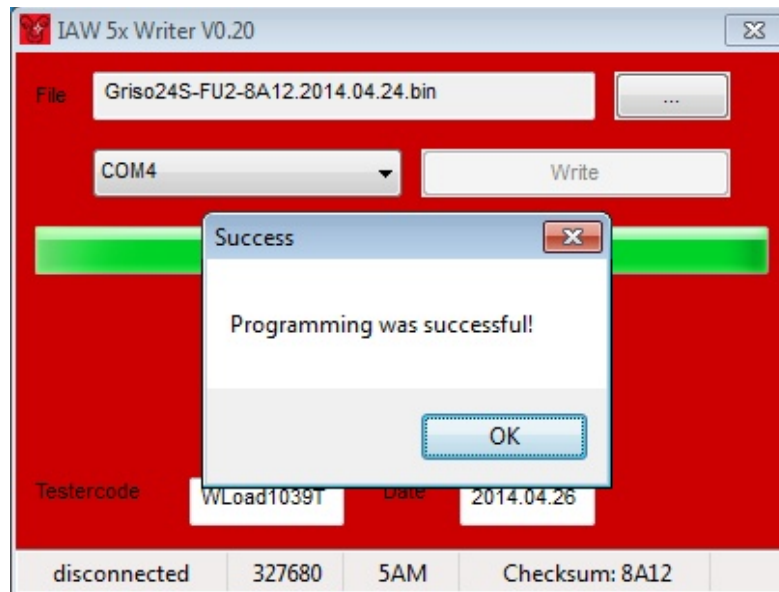


You will be asked to switch on your keyswitch again.



It will start the upload. Note the message in the bottom left corner 'uploading'. It takes 3 minutes. It will then change to 'programming' as it writes the file to the ECU.

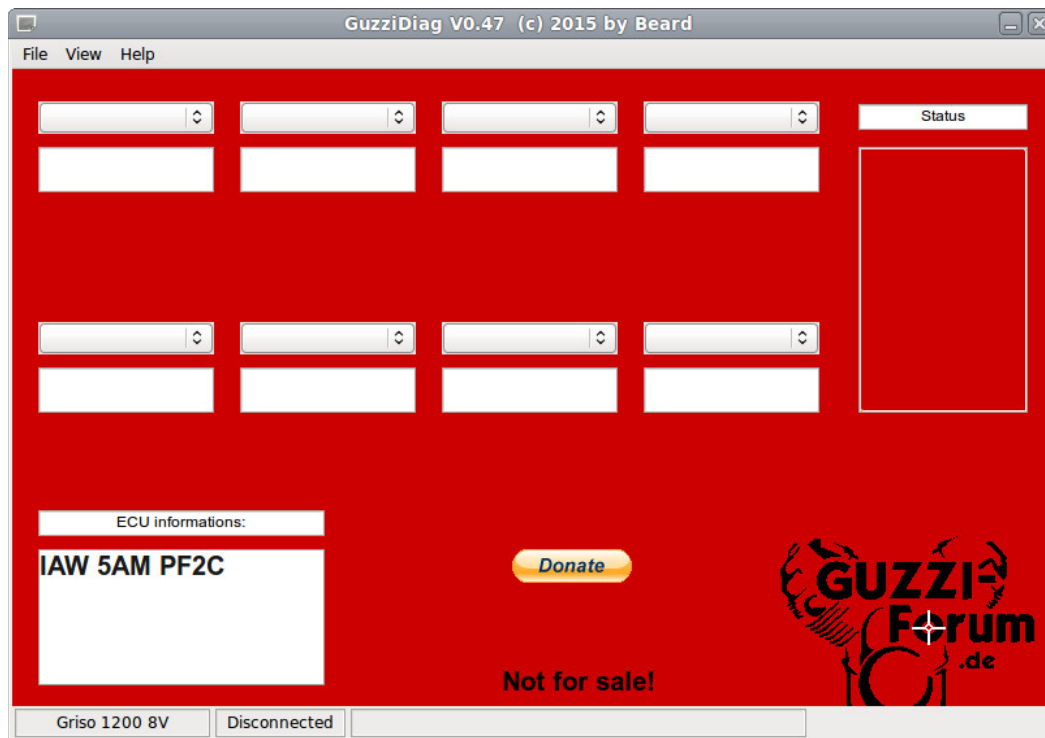
It will confirm programming was successful.



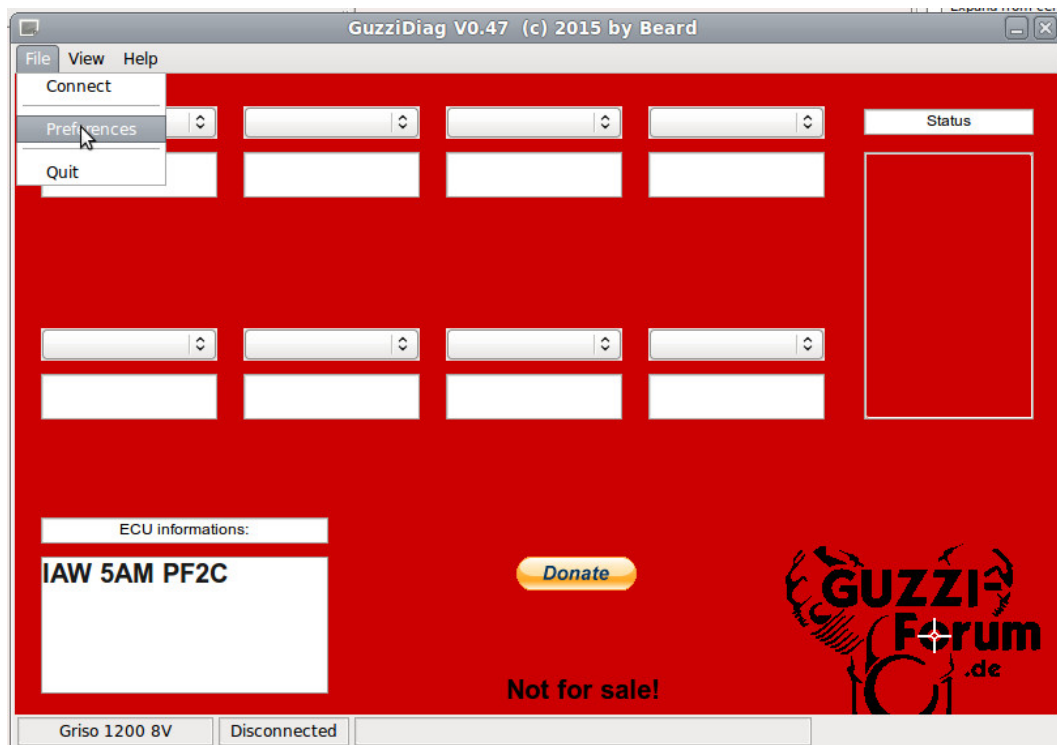
Click 'OK' and switch off your keyswitch.

Here's a little video of a map upload: <http://youtu.be/ZAi1N3ZFhHA>

You will then need to reset your TPS and autolearning parameters. Open the GuzziDiag program.



Click 'File' -> 'Preferences' to configure the software. It only needs to be done once.



The GuzziDiag settings dialog box opens. Here you can select language, COM port and bike type. Click the X to close, when done.



Next we want to connect to the ECU, so click 'File' -> 'Connect'



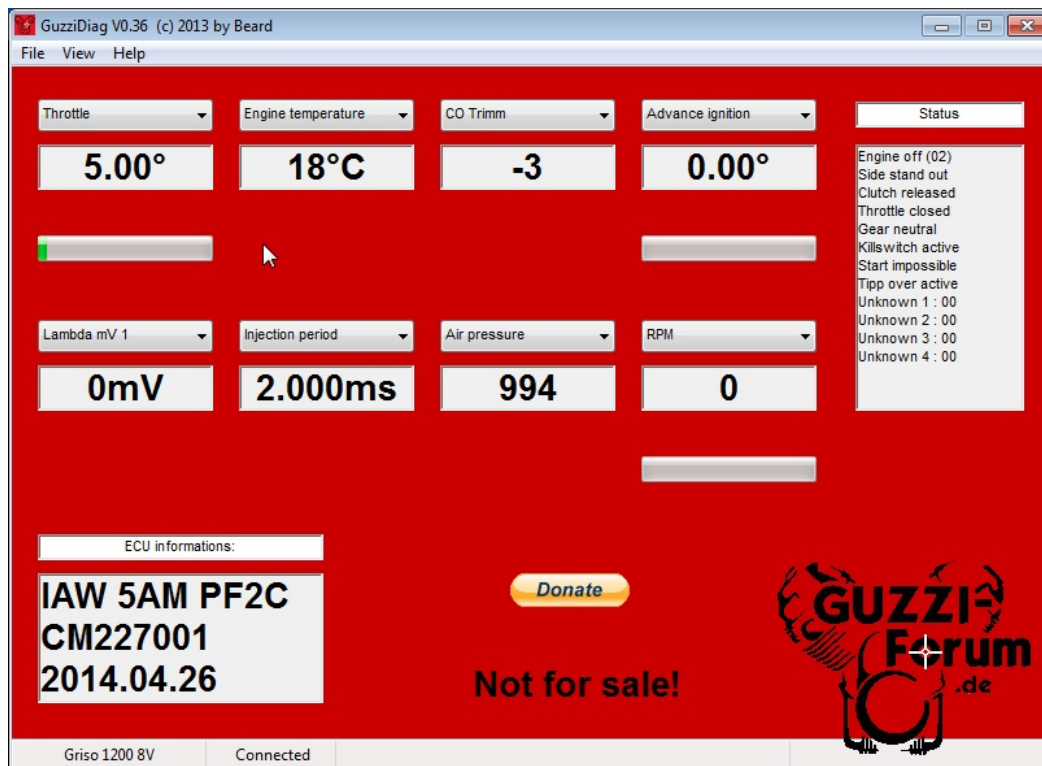
It will ask you to switch on your keyswitch and click 'OK'



You'll notice there are 8 drop down boxes to select various readouts. Select whatever you wish. You should make sure one of the drop-downs selected is 'Throttle'.



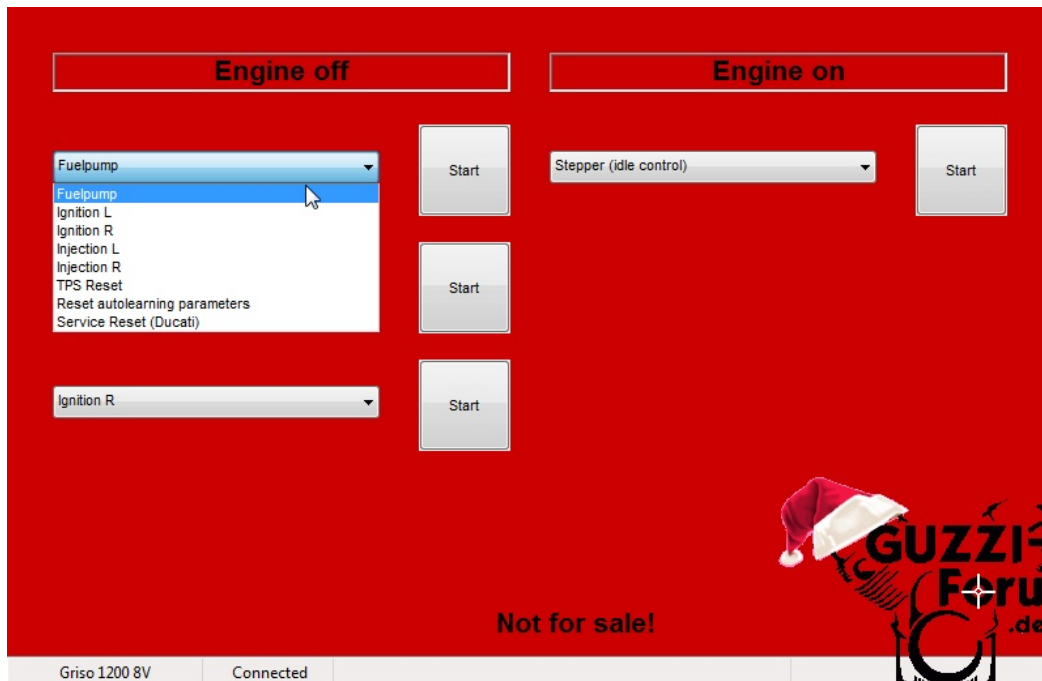
You can see here after uploading the map, my TPS (Throttle) is slightly out. It should read about 4.7. For the 5AM, it could be 4.6, 4.7 or 4.8. Do not reset the TPS on a Bellagio.



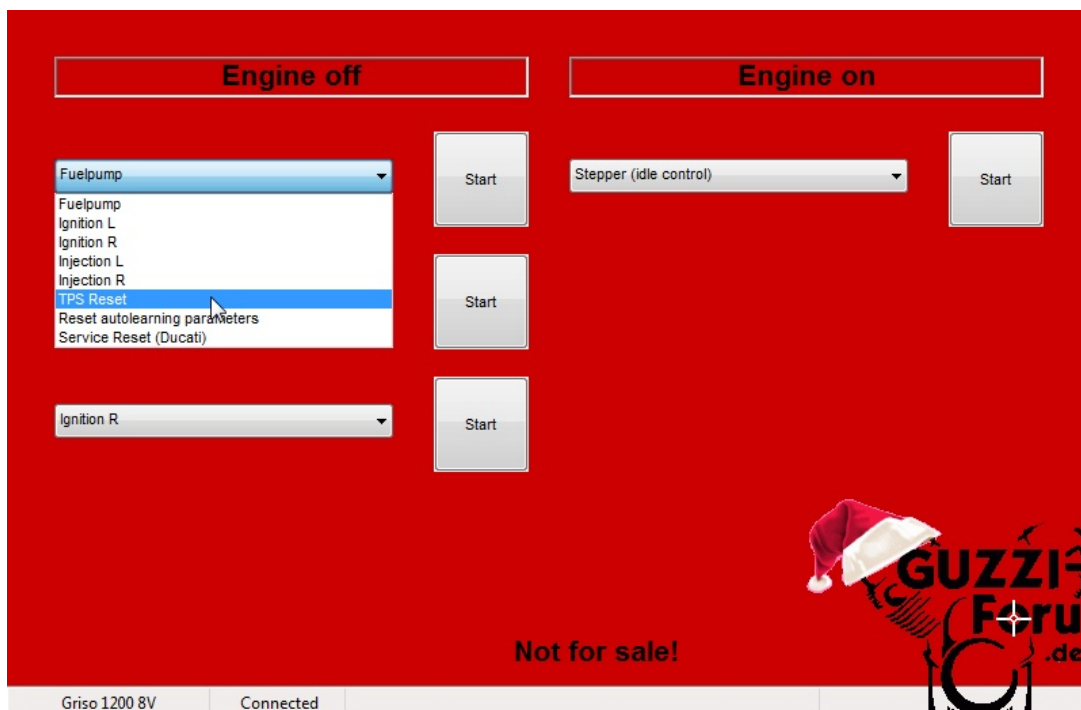
Let's reset it! Click on 'View' -> 'Actors'. You will see the 'Actors' menu.



Next, click on one of the drop-down selection boxes under 'Engine Off'



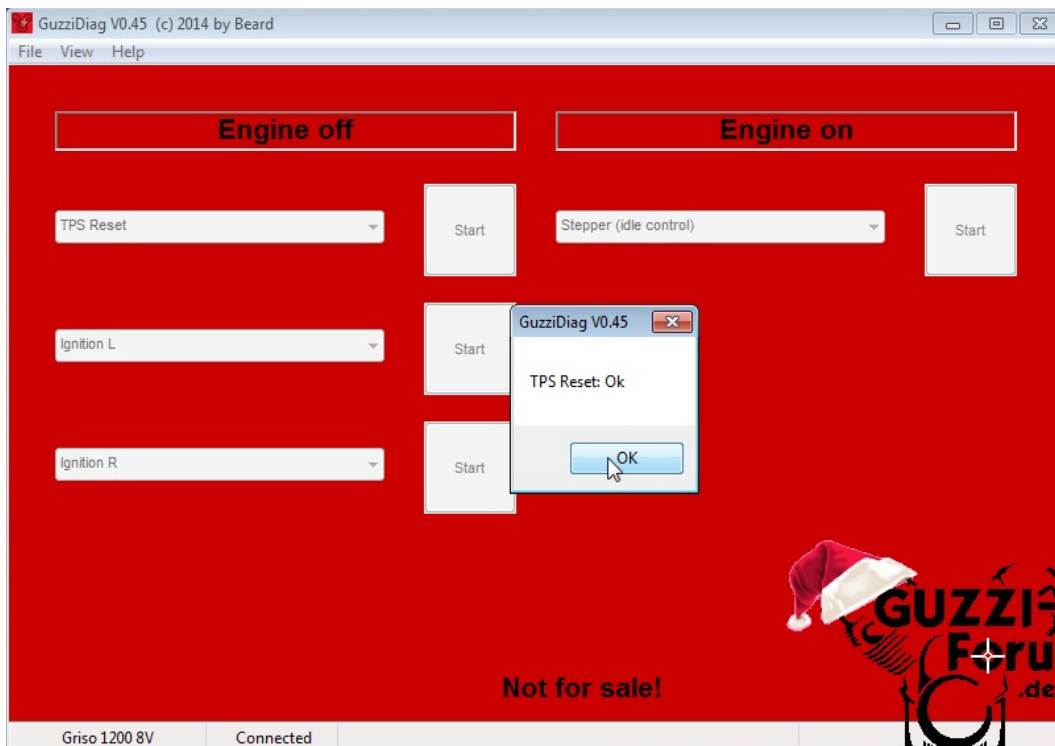
Select TPS Reset



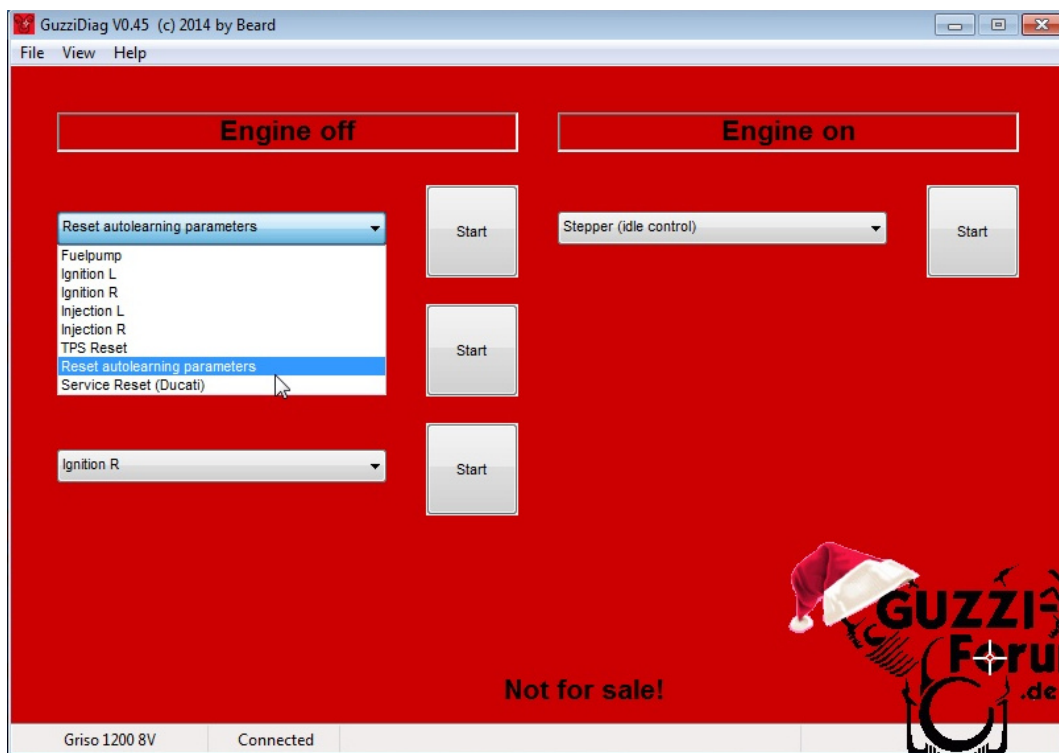
Click 'Start'



You'll get the TPS Reset OK dialog. Click OK.



To reset the Autolearning parameters (ECU fuel trims), using the drop-down selection box, select 'Reset autolearning parameters', then click 'Start'.



Once you are done, click "File" -> "Disconnect"

