GENIUS

Handbook

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Version GOS Genius 4.024 Build 009
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DIMSPORT® TECHNOLOGY

1 INTRODUCTION

GENIUS is the first Touch&Map tool allowing the serial reading and programming of the memory of the ECU (electronic control unit) managing the vehicle engine.
Its STAND ALONE conception and its TOUCHSCREEN panel make it a unique tool. Being an INDEPENDENT tool, Genius does not need to be connected to a PC during the reading and the programming procedures, thus avoiding dangerous blocks or slowdowns caused by the multitasking operative system of the PC. Moreover it is a particular easy and user-friendly tool thanks to its practical TOUCHSCREEN panel.

To grant the highest standards of safety, GENIUS is equipped with a battery which – should an accidental disconnection from the OBDII socket happen during programming – allows to easily restore the communication with the ECU, as all the DIMSPORT-branded serial programming protocols grant.
This new revolutionary tool supports **CAN systems**, too, other than **K LINE, L LINE, and J1850.**
Genius has a big memory capacity, supplied by a removable 256 Mbyte SD CARD (SECURE DIGITAL), which can be expanded up to 1 Gbyte.

2 TECHNICAL SPECS

LCD 320 x 240 pixel DISPLAY, CCFL backlight, transflective TOUCHSCREEN with Touch Panel
512KByte PROTECTED FLASH MICROPROCESSOR MEMORY
16MByte RAM MEMORY
FILE ARCHIVE MEMORY IN 256 MByte SECURE DIGITAL expandable up to 1Gbyte
ALERT LED for SECURE DIGITAL, USB, POWER SUPPLY, DIAGNOSTIC LINE
Internal CLOCK with memory and and 3 volt Lithium battery
8.4 volt 600 mAh RECHARGEABLE internal battery
12 volts to 30 volts POWER SUPPLY TENSION
COMMUNICATION LINES with diagnostic port K LINE, L LINE, CAN2.0, J1850
USB CONNECTION TO PC

3 GENIUS BAG KIT

The GENIUS BAG includes all the components for the serial programming that are given to the customer when purchasing Genius.
Here below you find the list of all components with its code

RIF.	CODE	DESCRIPTION
1	F32GENIUS	Genius – main device
2	F32GN008	Genius – Obd cable (K-CANBUS- J1850)
3	C32GNALIM12	12volt 110/240V PSU with international plug
4	F32GN002	Genius – Adaptor for compatibility with the old system FLASH 4
5	C32GNPEN	Genius – n.3 Pens for the TOUCH PANEL
6	C32GNUSB01	Genius – USB cable for PC connection
7	F32GN011	Universal wiring for serial programming
8	F32GN003	Genius – Wire to connect to the battery
9	C32GNVAL	Genius – Bag (picture of the full kit)

OPTIONAL

RIF.	CODE	DESCRIPTION
10	F32ALIM12V	PSU 12V SW for VAG TDI cable
11	F32CBATT	+12V battery cable for VAG TDI cable
12	F32FL003P	OBDII wire for PORSCHE M5.2.2
13	F32FL005	Race plug for VAG TDI ECU
14	F32FL002	BMW diagnostic connector + RJ45 wire's adaptor for BMWload
15	F32FL004	Mercedes diagnostic connector
16	F32FL001	FIAT ALFA LANCIA diagnostic connector for serial communication
17	F32FL006	A cables for Bosch ME7.3.1, ME3.1, ME2.1, ME7.3H4 hybrid ECU
18	F32FL007	B cables for Bosch ME7.3.1, ME3.1, ME2.1, ME7.3H4 hybrid ECU

OPTIONAL CABLES 2008

RIF.	CODICE	DESCRIZIONE
10	F32ALIM12V	PSU 12V SW for VAG TDI cable
11	F32CBATT	+12V battery cable for VAG TDI cable
14	F32FL002	BMW diagnostic connector + RJ45 wire's adaptor for BMWload
20	F32GN013	OBDII wire for PORSCHE M5.2.2
21	F32GN015	Race plug cable for VAG TDI ECU
22	F32GN014	Mercedes diagnostic connector cable
23	F32GN023	FIAT ALFA LANCIA diagnostic connector for serial communication
24	F32GN021	A cables for Bosch ME7.3.1, ME3.1, ME2.1, ME7.3H4 hybrid ECU
25	F32GN022	B cables for Bosch ME7.3.1, ME3.1, ME2.1, ME7.3H4 hybrid ECU

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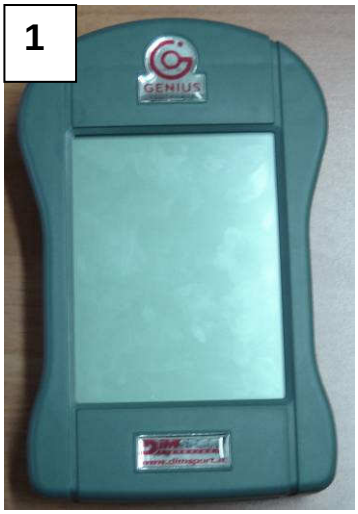

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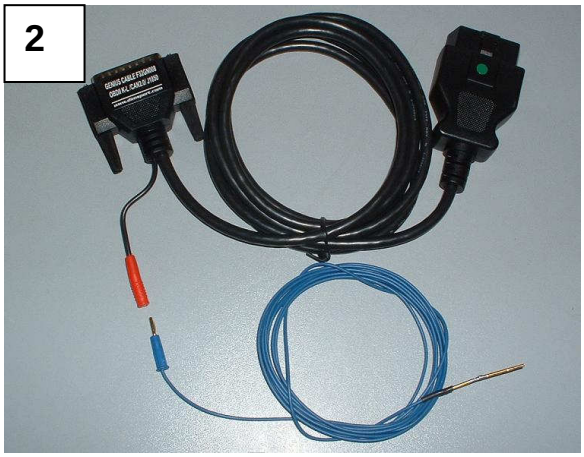

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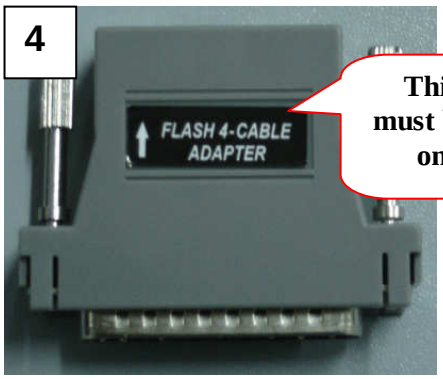

This adaptor must be used only on Genius!

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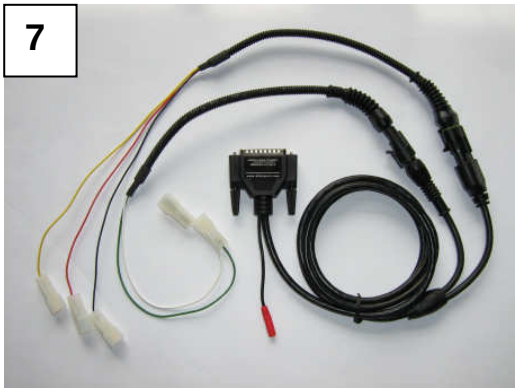

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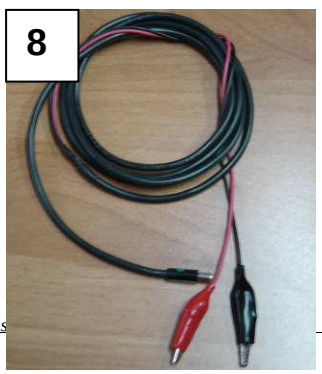

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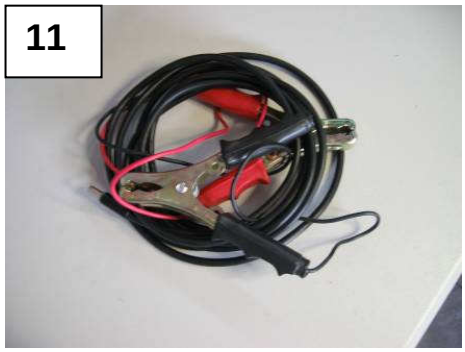

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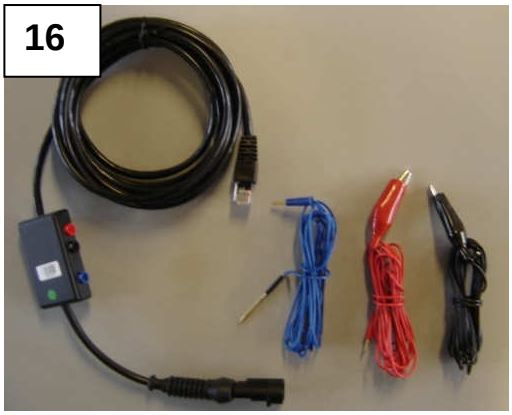

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4 CONNECTIONS, PORTS AND LED

Front Side

A) 1 USB port
B) 1 slot for SD Secure Digital card
C) 1 green LED for SD: it is on and still when the SD card is plugged in
It blinks when file are being saved on the SD card
D) 1 green LED for USB: it blinks when Genius is communicating with Race EVO

Back Side

E) 1 Diagnostic Port to plug the OBD cable or the universal wire for serial connection
F) 1 DC IN connector to connect to the 12 Volt 110/240 V PSU
G) 1 green LED “data transfer”: NOT YET FUNCTIONING
H) 1 red LED for ext power: it’s ON when Genius is powered

Bottom Side

I) 1 RESET button (to be used ony upon request of the technical support– i.e Genius is not responding -)
L) 1 button to open the SD reader (to be opened and removed ony upon request of the technical support: with a tipped tool carefully press the hole marked in the picture below as far as the cover is open. To remove the SD card press slightly the card as far as there is a click, then release the card.

The bottom part of Genius is equipped with:

M) 4 anti slide rubbers
N) 1 removable hand grip to hold Genius while working

5 HARDWARE REQUIREMENTS

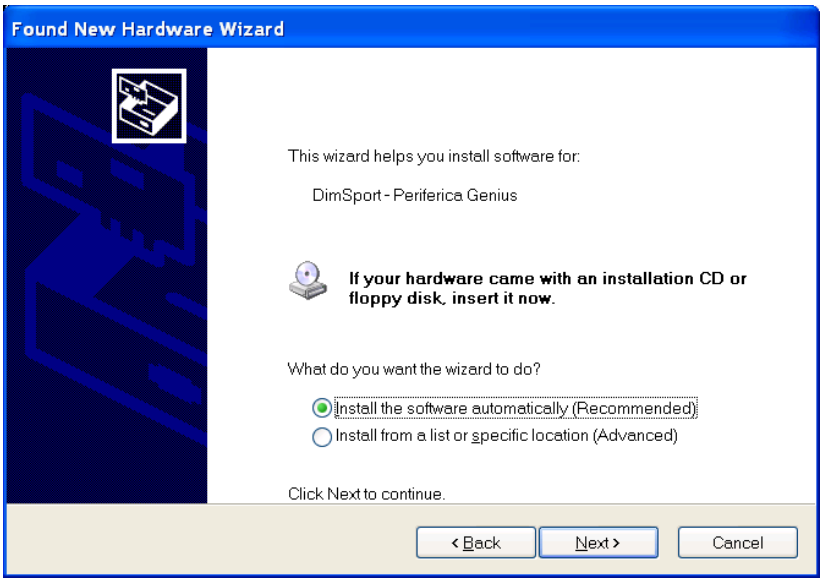
- RaceEVO, (always updated in manu Update --> Race Update)
- 1 USB port
- Operating System Windows 2000 or XP

6 DRIVER INSTALL

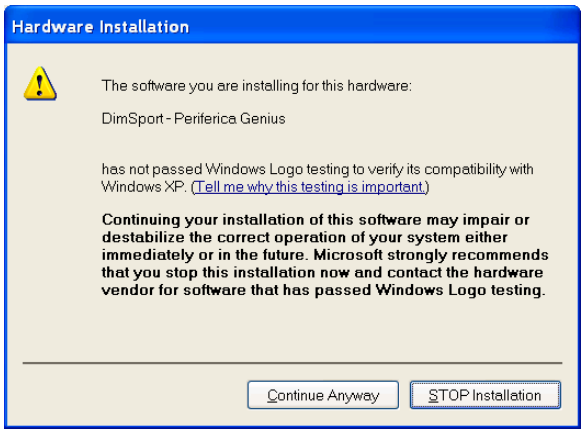
After plugging for the first time Genius to the PC it is necessary to follow the procedure below:

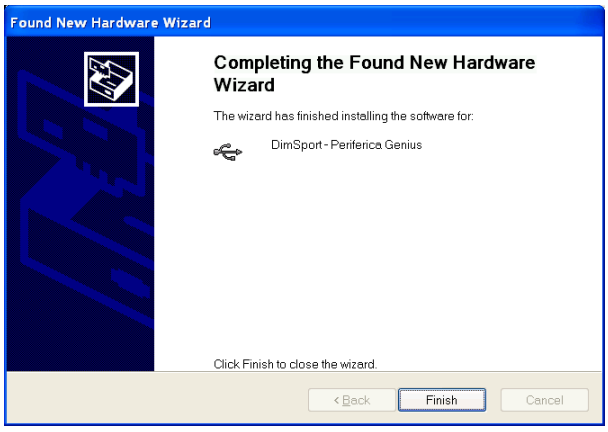
1) Select "**Yes, this time only**" and click **Next**

2) Select "**Install the software automatically (Recommended)**" and click **Next**.



3) Click on "**Continue Anyway**" and then "**Finish**".





Note
If you are using both devices 555Pro and Genius on the same PC, only after the first connection of 555Pro to PC you have to repeat the procedure of driver install for Genius.

7 BASIC TASKS

Once you got Genius the first operation you must accomplish is to leave it on charge 12h. this operation must be repeated once a month.
It is possibile to recharge Genius after each modification connecting it to the PSU 12volt.

This procedure is necessary to charge completely the internal battery (8.4volt da 600 mah), this battery is necessary for the data recovery after the loss of communication with the ECU.

8 MAIN MENU

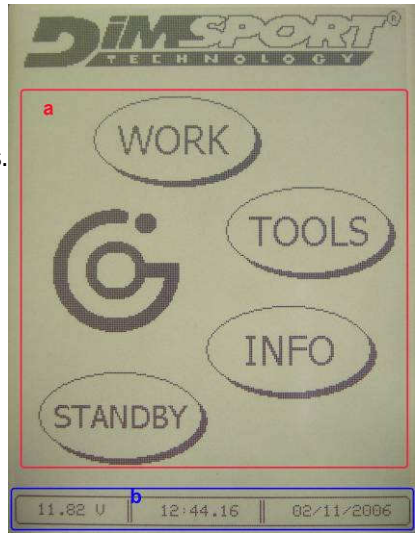
The first screen will show us:

a) main menu
b) information bar with voltage, date and time

Main menu has four buttons WORK, TOOLS, INFO, STANDBY that leed to the most important sections of work and information:

- WORK to work
- TOOLS to visualise files, Genius settings and test
- INFO to get information about Geius and its protocols
- STANDBY to set Genius in standby mode

To get details about each single process please see the related chapters.



WORK
WORK button gives acces to main work session,
through a second level menu Genius allows to manage the **ID**entification (Chpt. 9.1 Pg. 11), **READING** (Chpt. 9.2 Pg. 13) and **WRITING** (Chpt. 9.3 Pg. 14).

TOOLS
TOOLS button gives access to the functions of visualisation of files loaded on the memory SD through the EXPLORE SD (Chpt. 10.2 Pg. 20). It is also possible to modulate the settings of display, language, date and time of Genius thanks to SETUP menu (Chpt. 10.1 Pg. 18); and run functional TEST (Chpt. 10.3 Pg. 21) on differents components like Ram, Display, Led and Battery.

INFO
INFO function gives all the information about Genius, Protocols and Features.
(Chpt. 11 Pg. 21).

STANDBY
Once selected STANDBY button Genius goes into sleeping mode.
To wake up Genius touch display once (Chpt. 12 Pg. 23).

9 WORK MENU

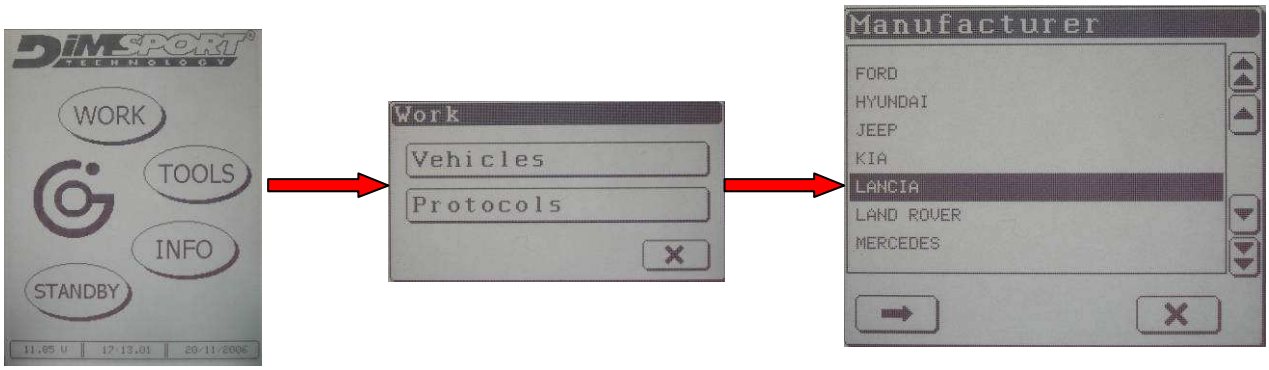
This menu gives access to main work session through some second-level menu that will lead to the processes of **ID**entification, **READING** and **WRITING**.

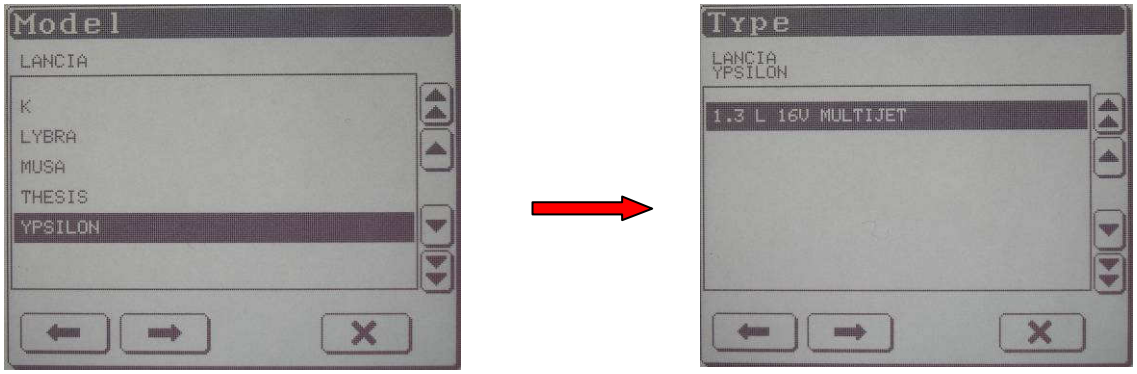
9.1 ECU ID

This operation allows the identification of the electronic unit, after that it will be possibile get the information necessary to download the correct setting file. To perform the IDdentification is possibile to follow two different ways that have the same result:

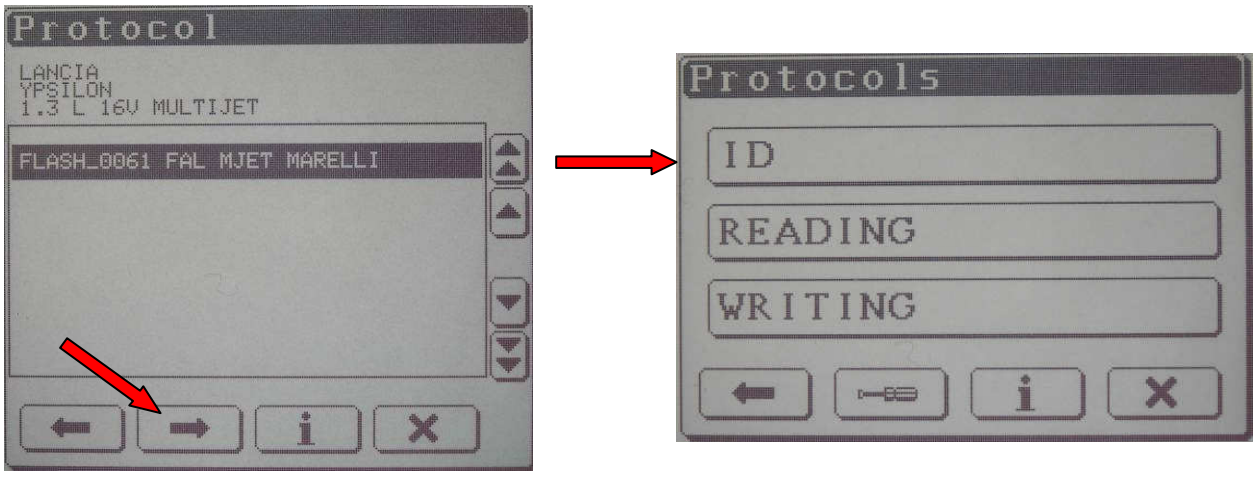
A)

1. Follow the path and choose the correct selection
Work→Vehicles→Manufacturer/Model/Type→Protocol

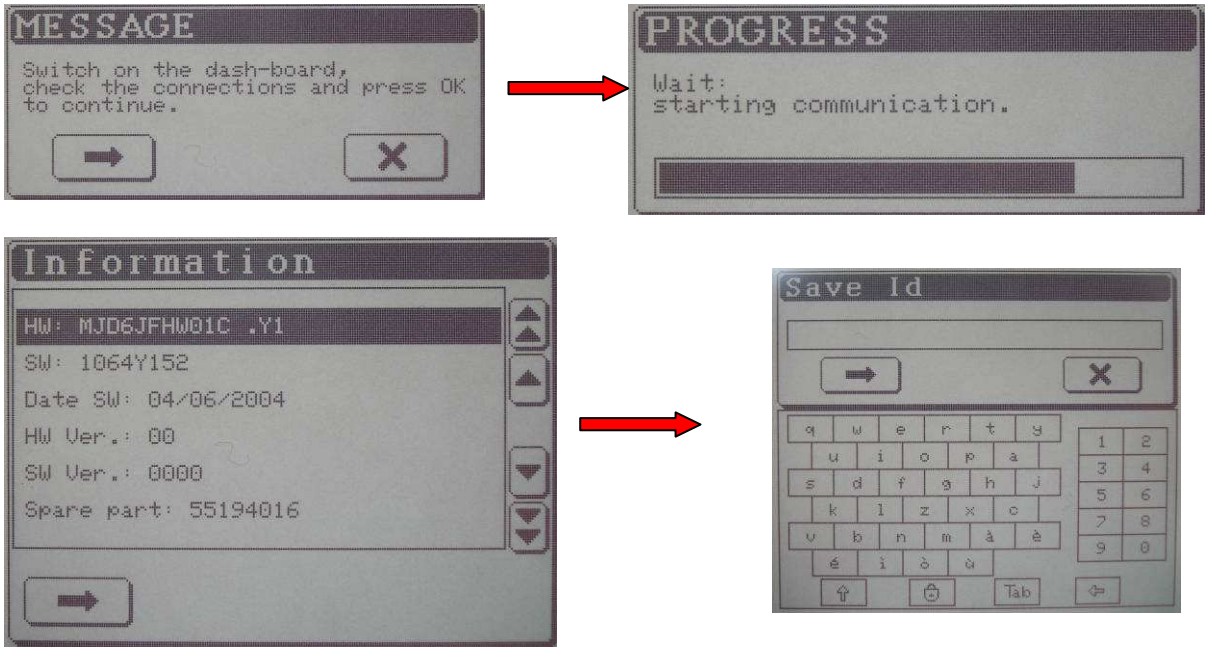




2. Now the opening of the protocol will permit the IDentfication of the ECU.



3. After the selection of ID Genius will ask to switch on and off the dash-board and ECU information will be displayed, it is possibile to save all the information of the ECU.



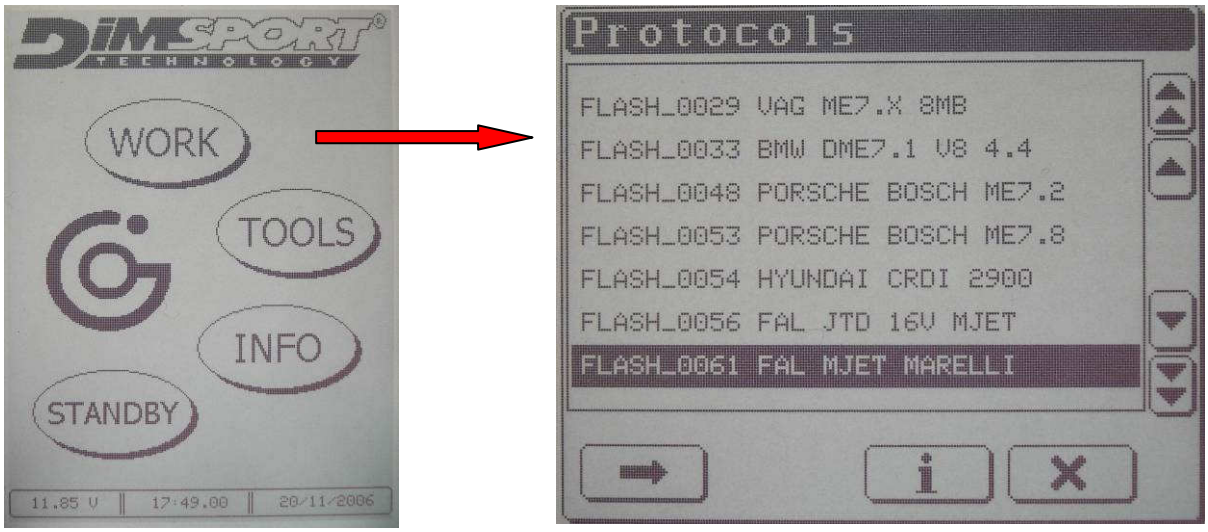
To get once again the information of the Identification just finished it is necessary open the file saved inside the ID folder following Tools→ Explore SD→ ID folder.
See Chpt.10.2 Pg. 20

After this operation we know the ECU identification data and it is possibile to search for the correct setting file inside Race database

B)

Follow the path suggested and select the correct protocol to use:

Work→Protocols



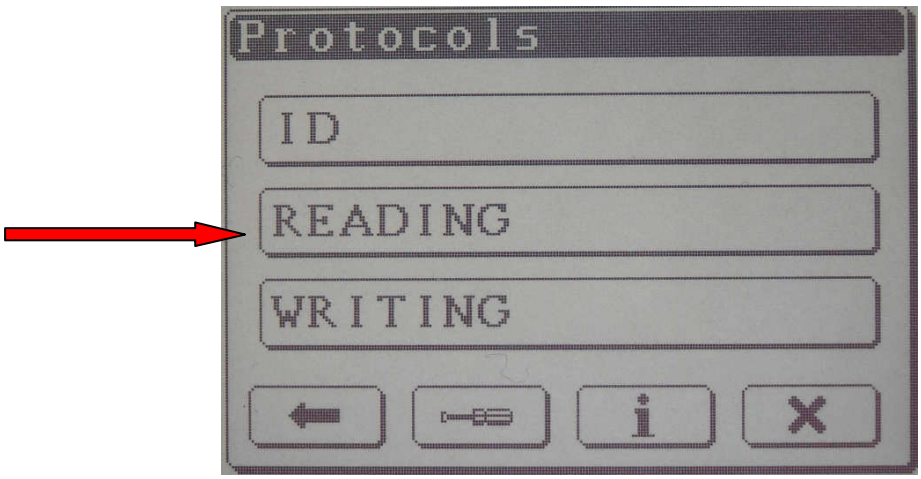
9.2 Serial reading

To get access to the Serial Reading it is necessary to follow the path below and choose the correct selection depending on the vehicle **Work→Vehicle→Manufacturer/Model/Type→Protocol**
Otherwise follow the path **Work→Protocols** but you must know which protocol is required
NOTE
Each time Genius reads the ECU it creates a file with HEADER.
For details see Chpt.9.3 Pg.15.

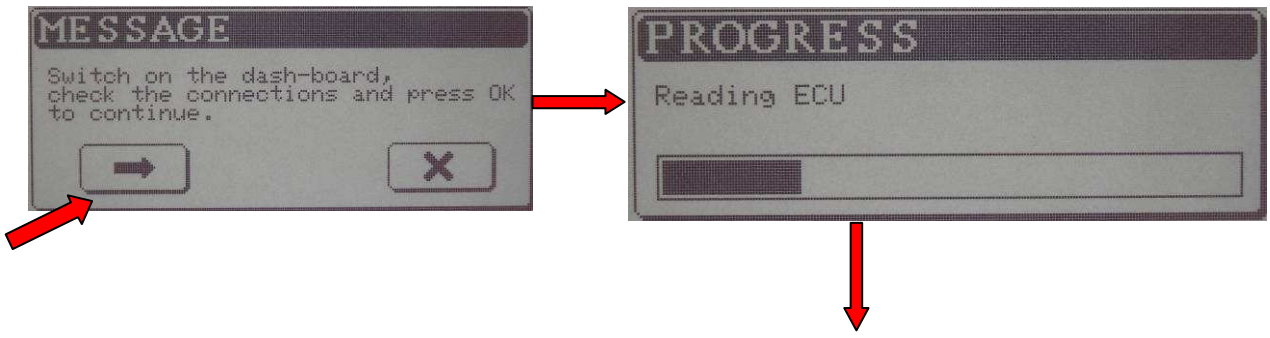
At the end of the reading it is necessary to load the read file into the PC.
For this operation follow the instructions at Chpt 13.2.1 Pg.26.

Once the protocol is opened it will be possibile to select **Reading**

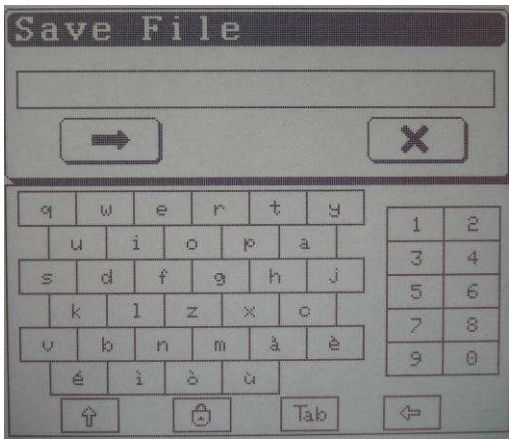
1. Click on **Raeding**



2. After the visualisation of ID Genius will ask to switch on and off the dash-board (this procedure is required to verify the data).The reading progress bar will be displayed. After the reading we will have the file that is inside the ECU of the vehicle.



At the end of the reading it will be possibile the saving of the file inside Genius.

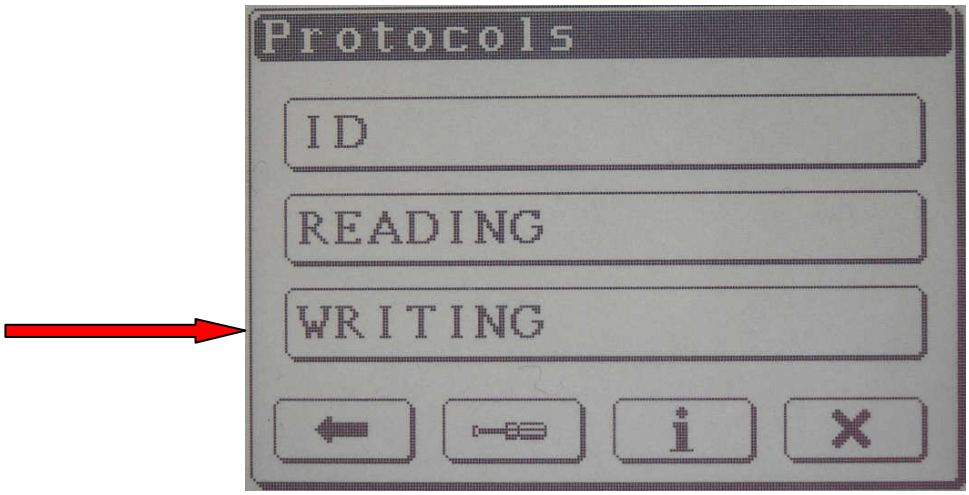


9.3 Serial Writing

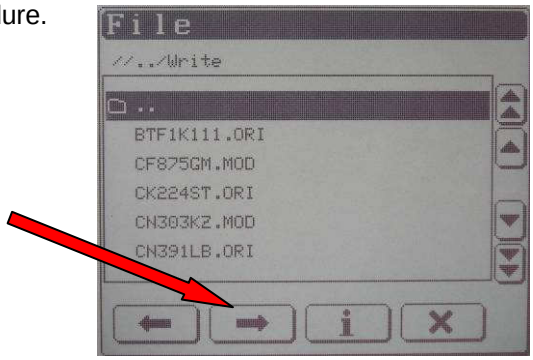
After the modification it will be possibile to load the modified file inside the ECU of the vehicle.

To get access to the Serial Writing process it is necessary to follow the path and choose the correct selection depending on the vehicle **Work→Vehicle→Manufacturer/Model/Type→Protocol**
Otherwise following the path **Work→Protocols** but you must know which protocol is required.

Once the protocol is opened it will be possibile to select **Writing**

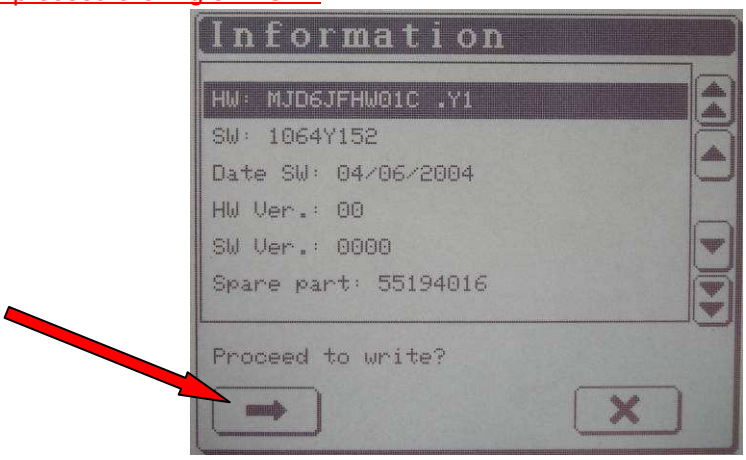


1. After selecting **Writing** Genius will show the folder Write with all the file modified or original that have been written or will be written inside ECU.
   Then select the file to write and follow the procedure.

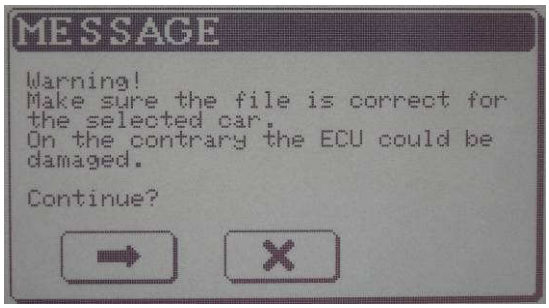


   After selecting the file to write follow the procedure, in some cases Genius will ask to switch on and off the dash-board, it depends on the vehice.

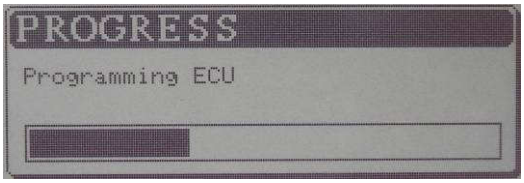
2. Once started the procedure ECU identification numbers will be read again.
If the data displayed don't match with the hardware or software numbers click cancel and repeat the procedure chosing the correct file.
If the data match proceed clicking on " OK ".



N.B.
Each time Genius reads an ECU it creates a file with HEADER, it is a file caracterised by all the identification data (Manufacturer/Model/Type, date and time, protocol used etc.etc). this kind of code is recognised by Race EVO also during the creation of the modified file. With this type of code Genius won't have any doubt before the writing of the file.
If a file without HEADER is going to be written inside the ECU Genius will ask (to protect the ECU) if the file chosen is the correct one.
For more details on how extract the HEADER from the file see Chpt.13.2.1 Pg.28.

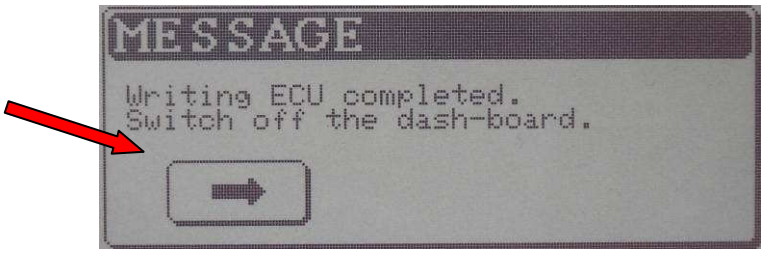


If the programming is confirmed it is possibile to control the programming procedure.



During this procedure do not perform any action on the vehicle or on Genius!!!

3. After programmig a message window will confirm the end of the procedure.
Switch off the dash-board and click on OK.



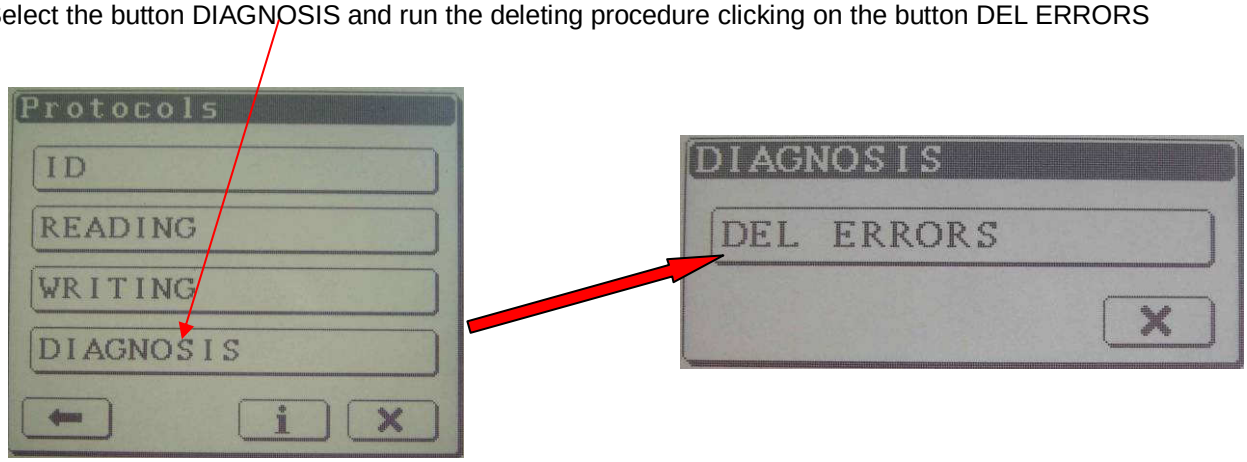
NOW THE ECU PROGRAMMING IS TERMINATED!

9.4 Diagnosis

In **some serial protocols** it is available the deleting errors function. After serial programming in some ECU might happen (it might not happen) that some check lights in the dash-board light on.

For this reason **only on some serial protocols**, like for example on the FLASH_0082 for ECU VAG ME7.1.1, the deleting error function has been introduced.

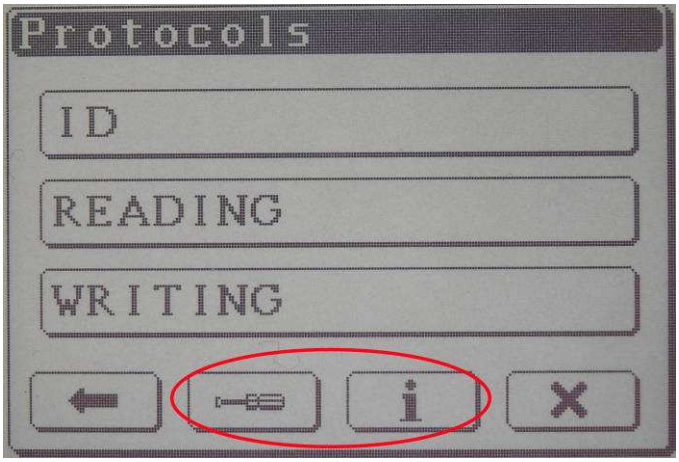
1 – open protocol FLASH that has the deleting error procedure in this way
Work→Vehicles→select the correct vehicle *otherwise*
Work→ Protocols→ select the protocol FLASH with the deleting error procedure
Select the button DIAGNOSIS and run the deleting procedure clicking on the button DEL ERRORS



After it will be necessary to follow the procedure required by Genius, switch on the dash-board, a window with the processing bar will open then at the end of the procedure of errors deleting a message will ask to switch off the dash-board.

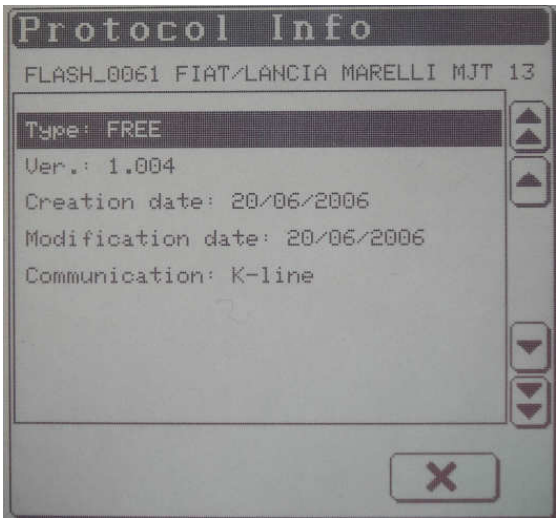
9.5 Index

Once inside the Protocols window at the bottom there is the tool bar with two buttons “Information” and the “Screwdriver”.

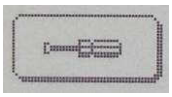


Information

This button allow the visualisation of all the information about the selected protocol, it shows the kind of line used by the protocol to communicate with the ECU.



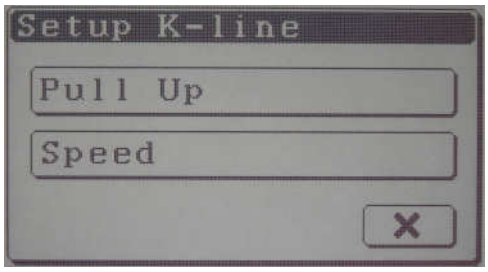
Screwdriver



This button open the Setup K-line window about the selected serial Protocol, it gives the opportunity to modulate the transmission on the K-line.

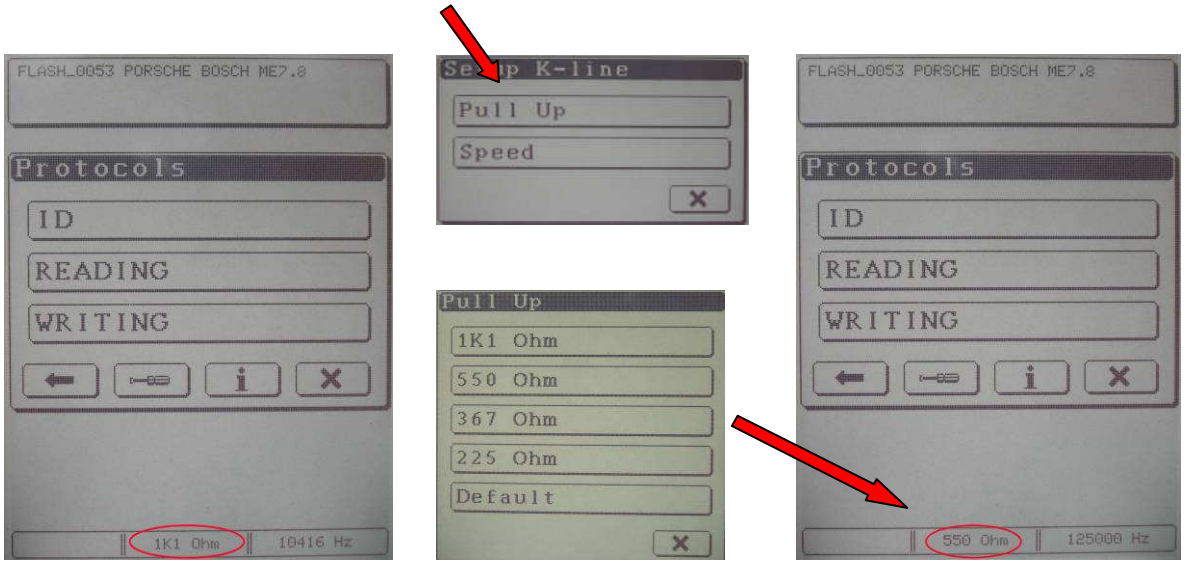
NOTE

To manage these options it is strictly recommended the help of the technical support.

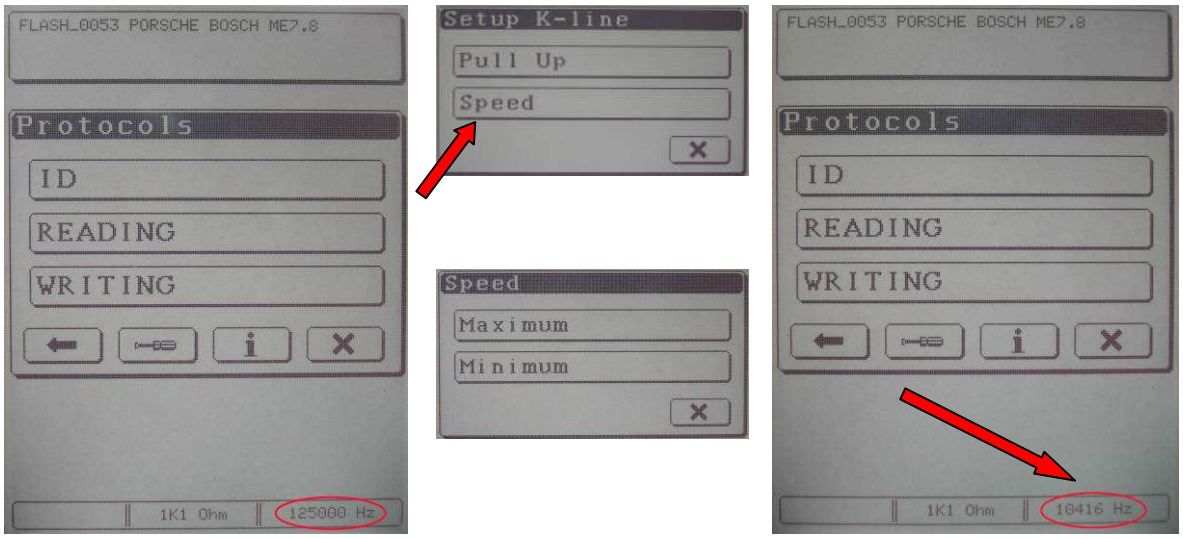


PULL UP

Selecting the “Screwdriver” and after the option **Pull Up** it is possibile to set the resistance of the serial protocol. It is possibile check the resistance enabled on Genius, and verify the ch’ange, on status bar (Es.Flash53).



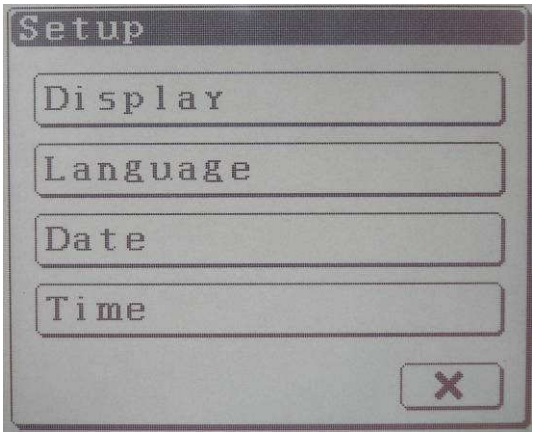
SPEED
Selecting the “Screwdriver” and after **Speed** it is possibile to modify the communication speed of the serial protocol. It is possibile check the resistance enabled on Genius, and verify the ch’ange, on status bar (Es.Flash53).



10 TOOLS MENU

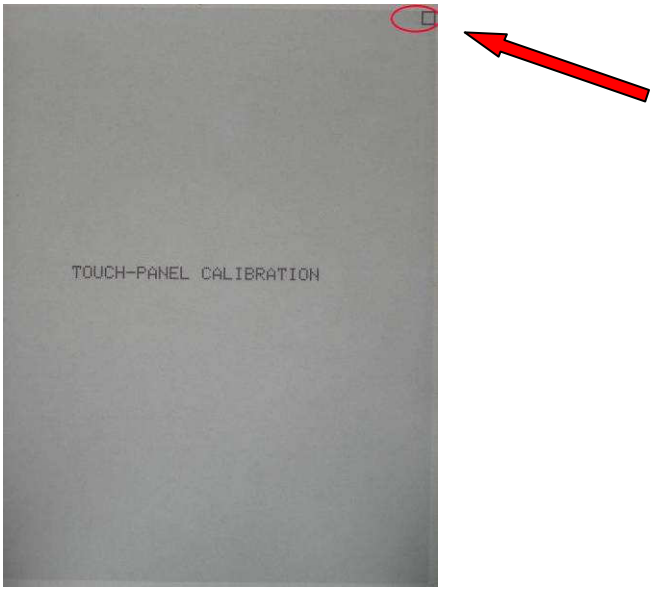
10.1 Setup

Menu Setup manage the Genius settings, it allows the setting of the screen, language, date and time.

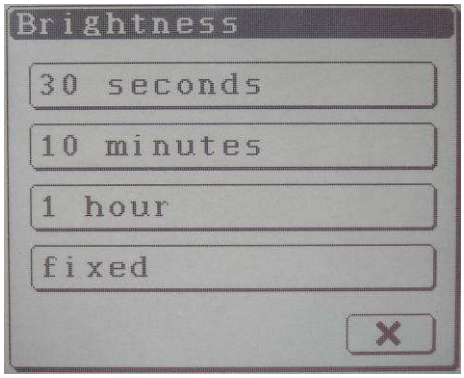


Display
In this section it is possible to calibrate and modify the settings of the Genius display:

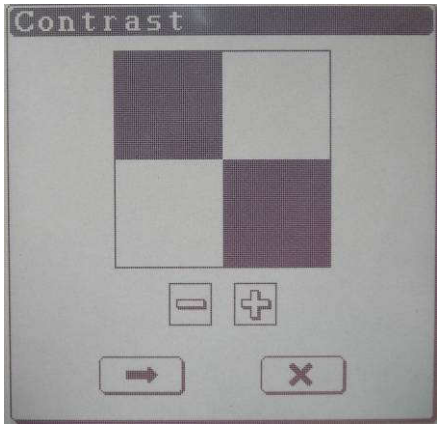
Touch Panel: it enables the calibrating of the Touch Panel. The procedure ask to touch with the pen the four corners, suggested by the square, of the Touch Screen.



Brightness: it allows to choose the display brightness timing before it goes in standby.



Contrast:it allows to increase or decrease the screen contrast.

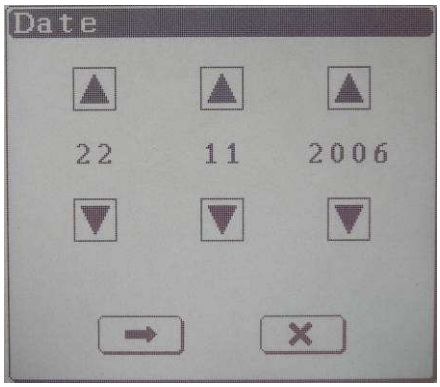


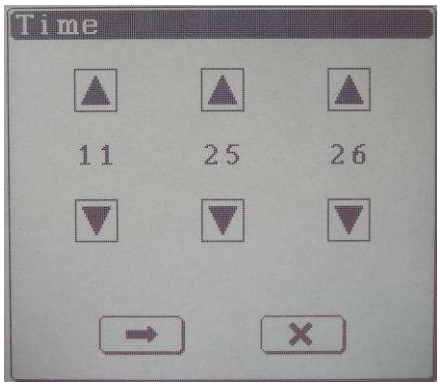
Language

In the section Language it is possible to select the language for the Genius.

Date and Time

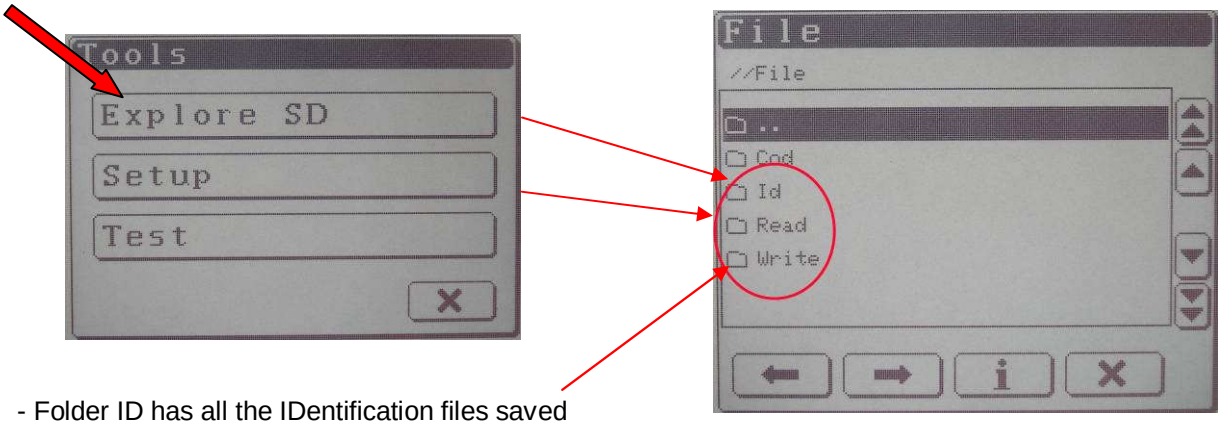
In the section Date and Time it is possibile
to modify day, month, year and date of Genius.





10.2 Explore SD

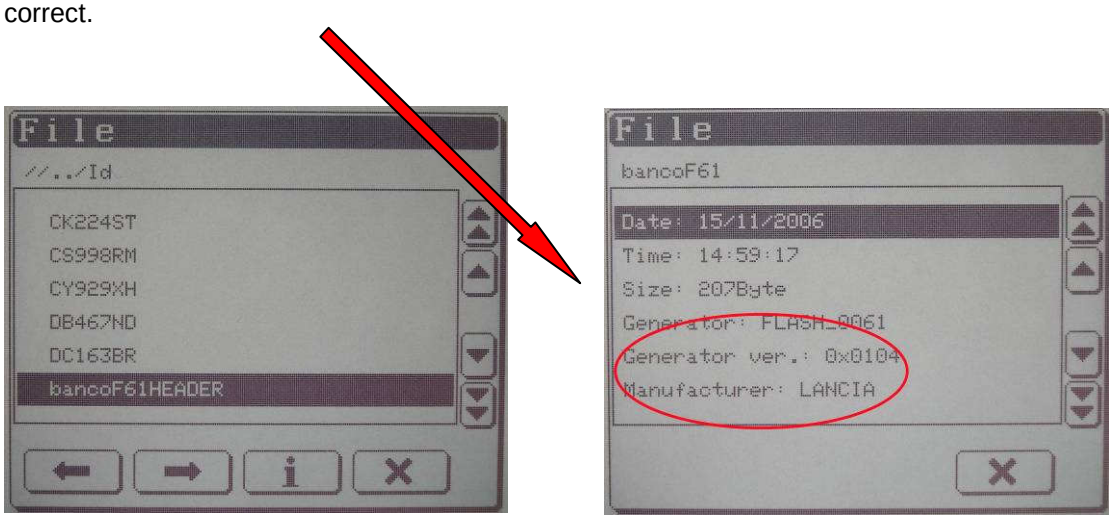
Explore SD allows to check what files are stored inside the SecurDigital, they are inside the three different folders of the main functions of Genius.



- Folder ID has all the IDentification files saved
- Folder Read has all the Reading files saved
- Folder Write has all the files loaded that have to be written in the ECU

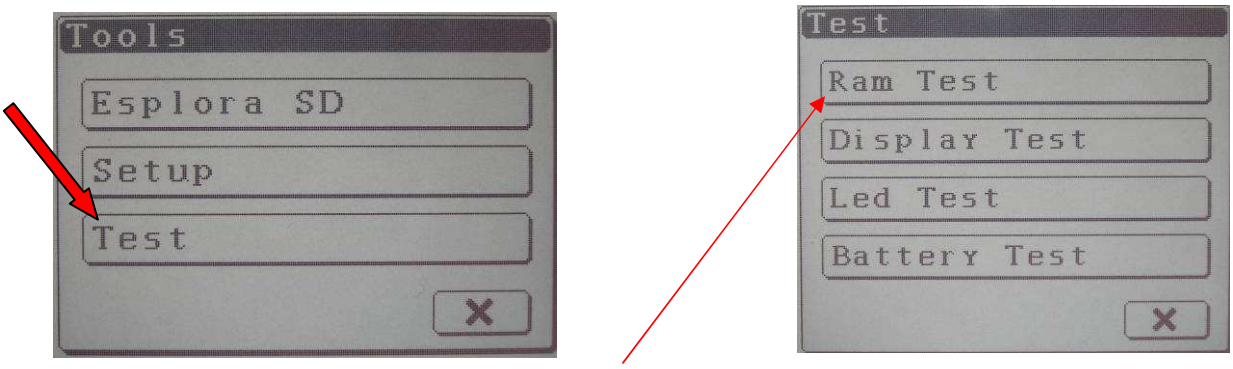
N.B.

Once inside one of these three folders it is possibile to check all the information of a single file. In this way it is possible to verify the HEADER of the files created, checking if the file we are going to use is correct.

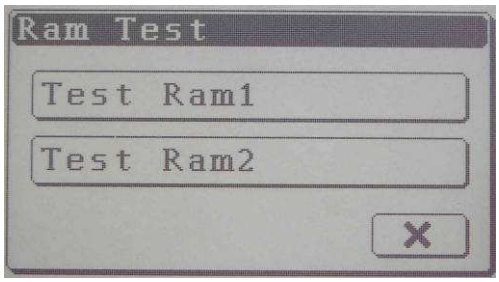


10.3 Test

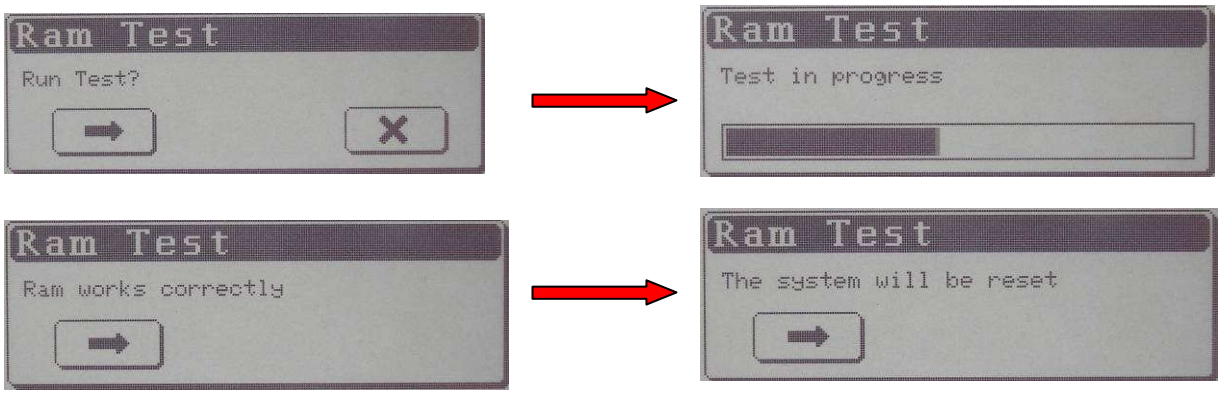
Test Menu allows to test different components of Genius in order to verify their status and functionality With this tool it is possible to verify Ram, Display, Led and Internal Battery of Genius.



In Tools→Test menu two different kinds of Ram test are available, Ram Test2 is a more detailed and deep analysis to run only after the request of the technical suport.

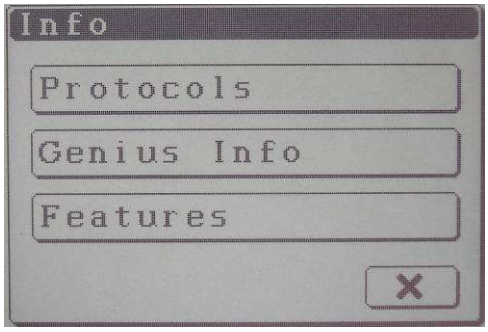


Following the instructions of the Ram test of Genius it is possibile to check the execution and final result, after the Test Genius will ask to reset the system.



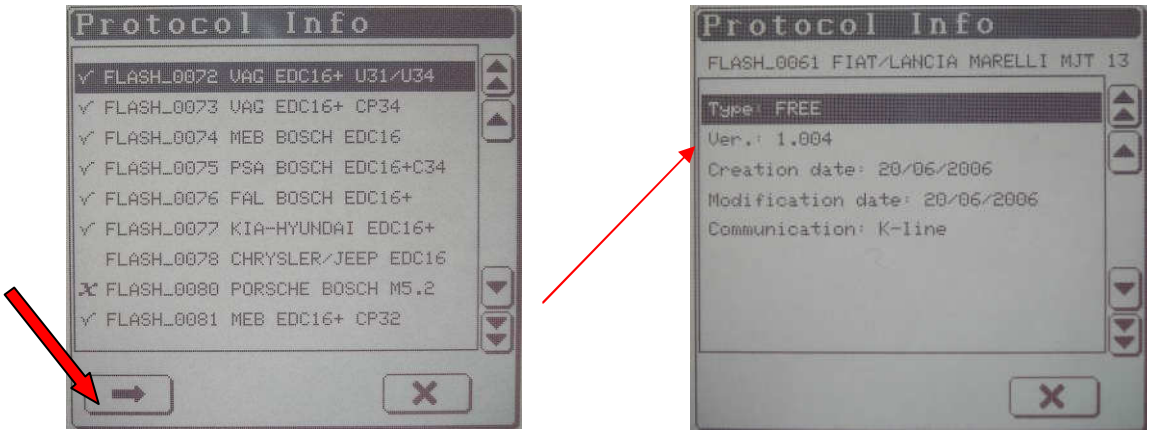
11 INFO MENU

Through this Menu it is possibile to verify the presence and functionality of Protocols, identity data and features of Genius.

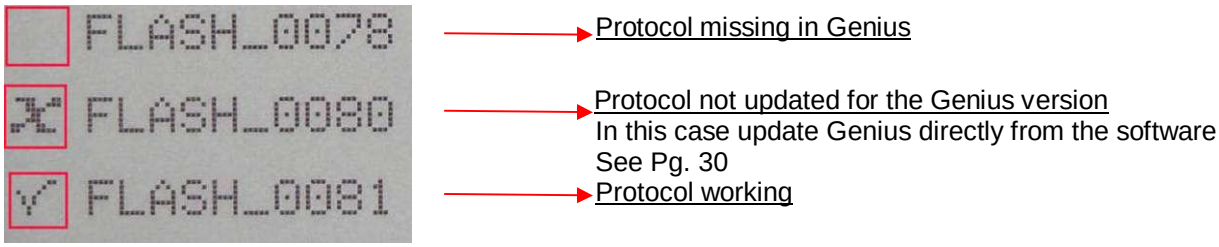


11.1 Protocols

Protocols section allows to check each single Serial Protocol, after selecting a Protocol and following the instructions it will be possibile to read all the data of the selected protocol.

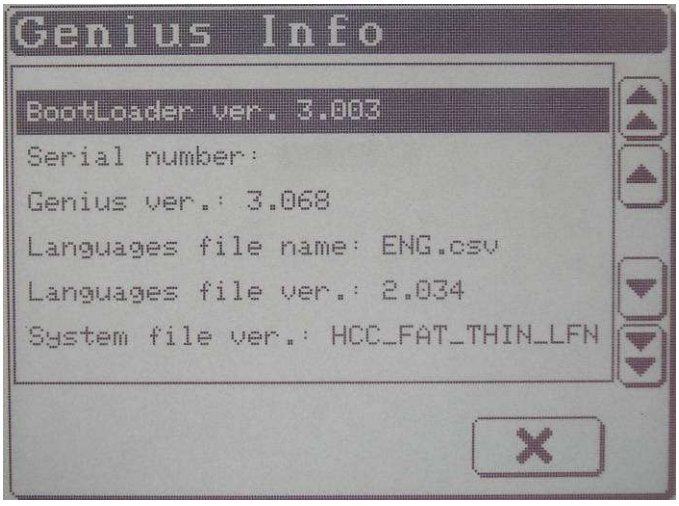


In the Protocol list, left side, it is shown the protocol status:



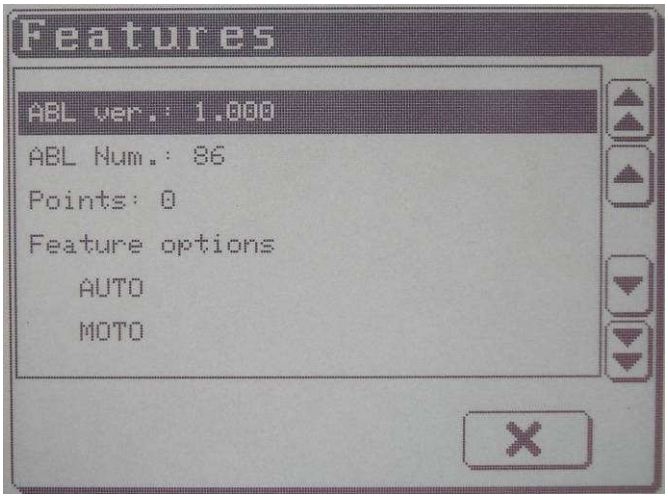
11.2 Info Genius

This function visualise all hardware and software informations of Genius.



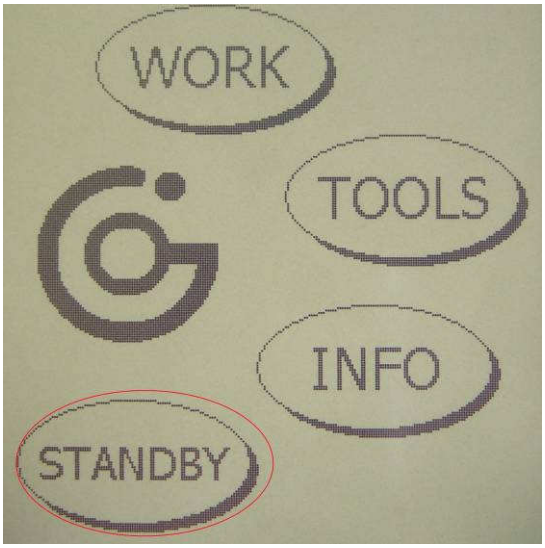
11.3 Features

Selecting Features we will be able to check the Features Options enabled, how many Serial Points for programming are still inside and what contract is enabled on Genius.



12 STANDBY

Selecting STANDBY it enables the sleeping modality.
To wake up Genius just touch the screen.



13 PC CONNECTION

13.1 Hardware connection

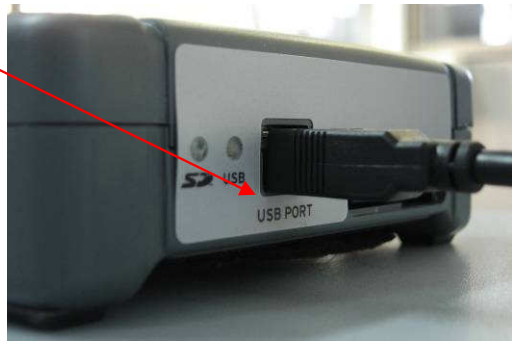
To connect Genius to PC read the following instructions:

1 – Tthe power supply must be correctly set on the 12V

The connector must be set with the poles +/- as required for Genius.

2 – Connect the power supply to Genius and to the electric current.

3 – Connect USB cable to Genius.



4 – Connect USB cable to PC.

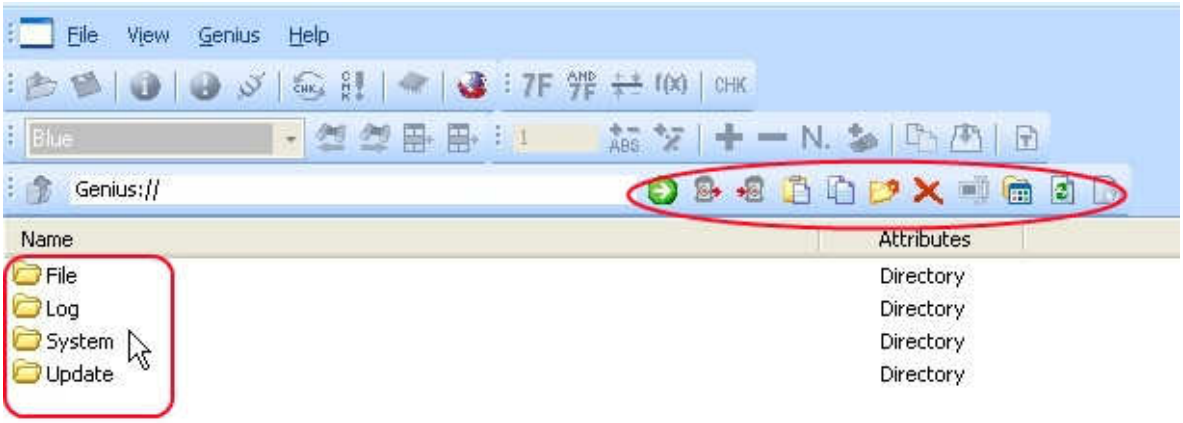
13.2 Software connection

After the connections to power and USB it is possibile to start the software communication between Genius and Race EVO. In order to run correctly this operation Genius must be set in main menu. After the connection with Race EVO Genus will show the message of USB comunication.

EXPLORE

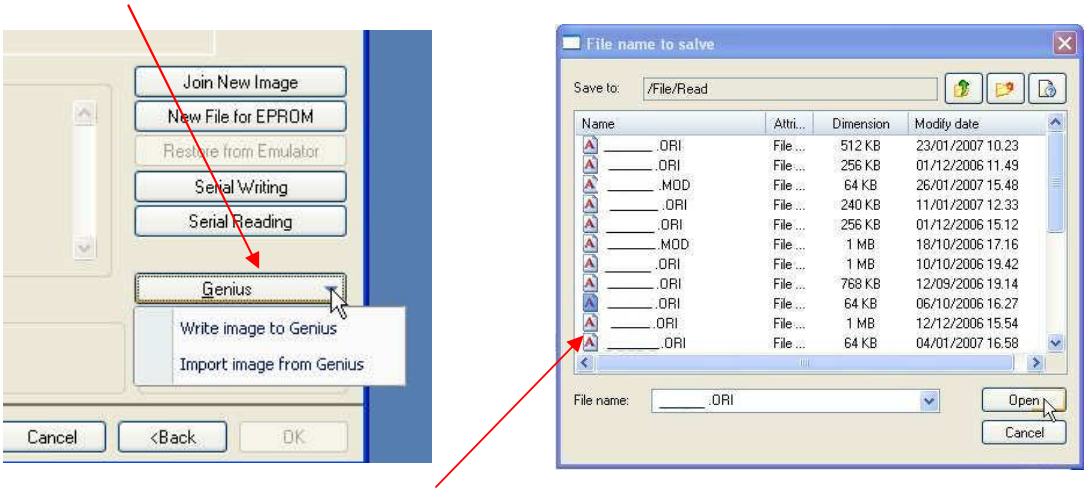
To explore SD memory and work directly from Race EVO with the files read out by Genius click on Genius→Explore. SD memory directory and a work toolbar will open to allow the customer to work and manage the files stored inside Genius.

ADVISE:
It is suggested to work only with the files coming from an IDentification, a Reading or a Writing saved inside the folder File.
Enter inside the others folders only if requested by the technical staff.

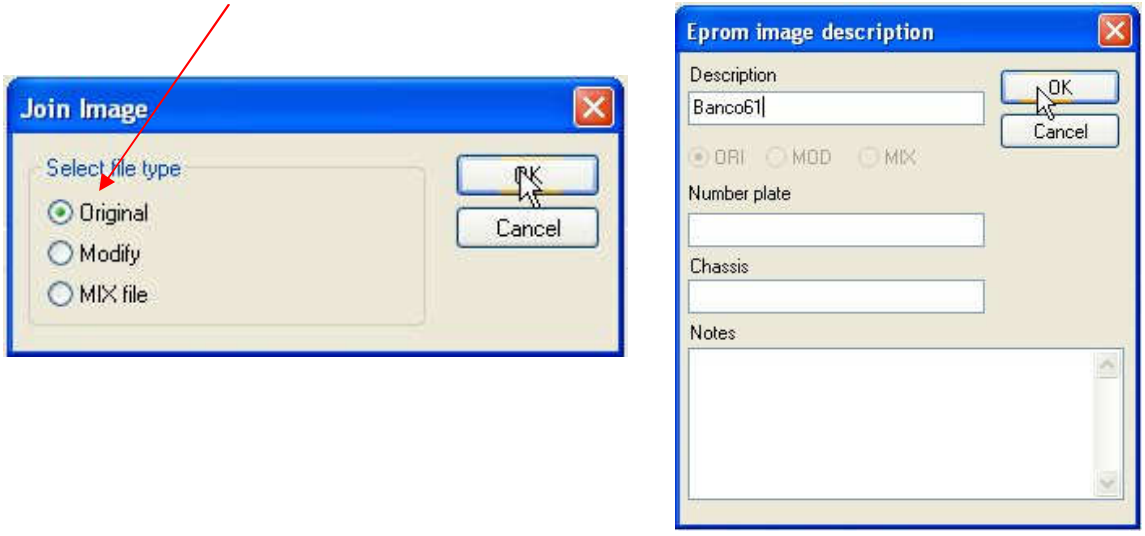


13.2.1 Join/Export file

To export files of ECU inside Race EVO and manage the modifications it is necessary to know the identification numbers of the ECU and download the correct setting file.
Once inside Race EVO open the corresponding setting file, it is possible to import the file read out with Genius with the button **Genius**, this button allows to **Import image from Genius**.

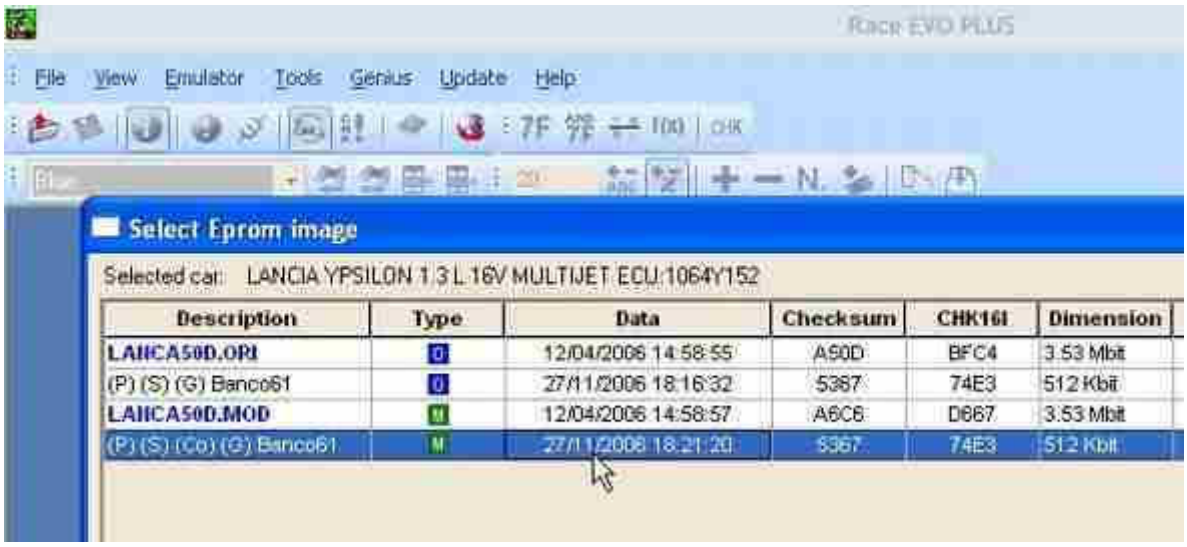


Select the file from the folder Read of Genius and save it inside the corresponding setting file selecting if it is an original or and already modified file.

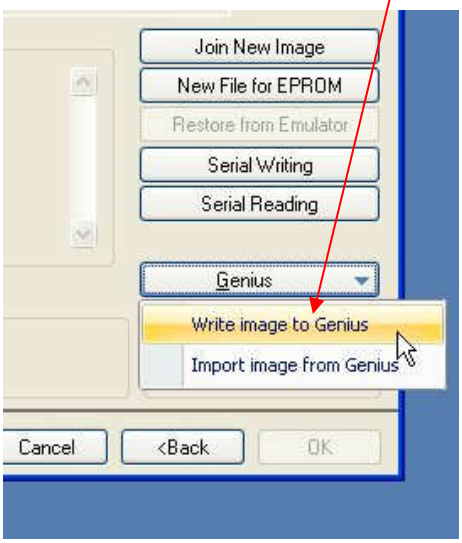


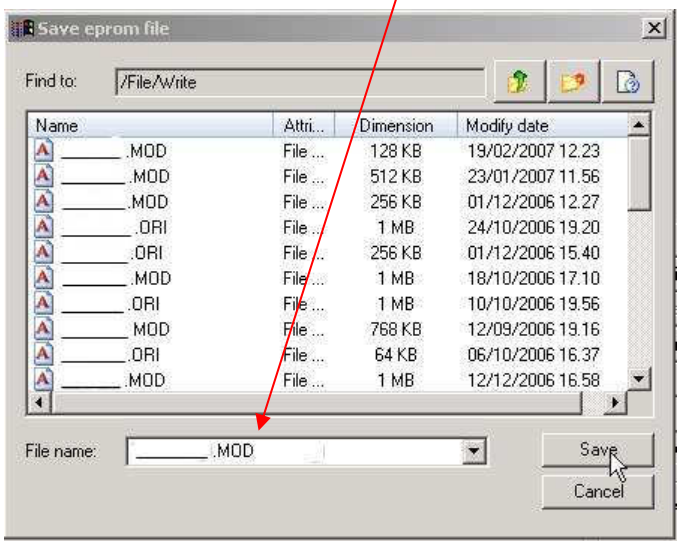
Now it is possibile to load the file read from the vehicle and manage the modifications required.
For more informations about how to modify a file follow the instructions af Race Manual.

After modifications and saving of the file it is necessary to export the file on Genius, then select the desired file to export and click on the button **Genius**.

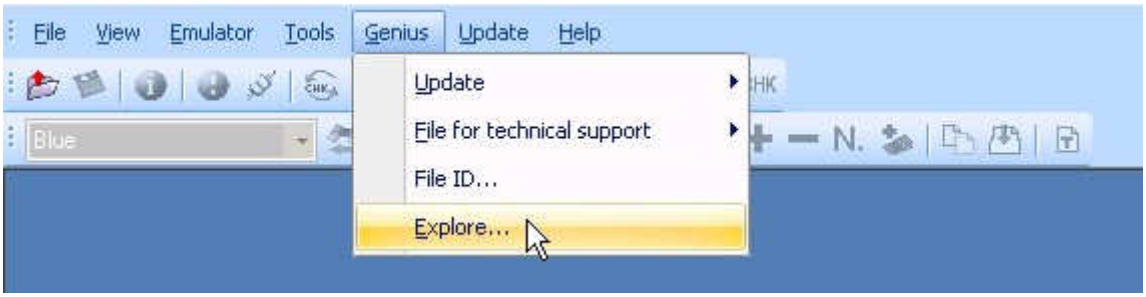


From the Genius button select **Write image to Genius,** be sure that the file **.MOD** is saved with name inside the folder "Write".



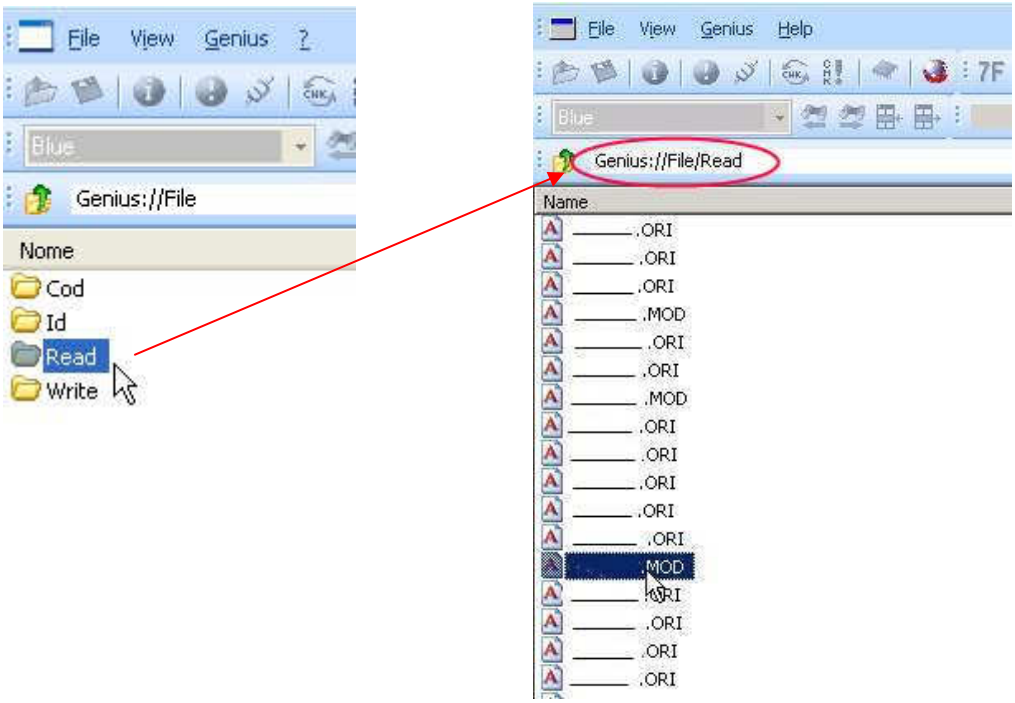


In order to be sure that the selected file has been correctly saved o Genius open the connection through the function Explore, open the folder File and check if inside the folder "Write" there is the file .MOD just imported.



Now exit from the software connection with the PC and unplug all the hardware connections. Enter in the vehicle with Genius and follow the instructions for the Serial Writing Chpt. 9.3 Pg. 13

It is possible to export or import file from Genius following another way that allows to work with files also outside Race EVO.
To **export** ECU files inside Race EVO it is necessary a double click on Explore and click on File folder, there are present the files saved inside ID,Read, Write folders.



Once inside Read folder we will have the possibility to choose which file export.

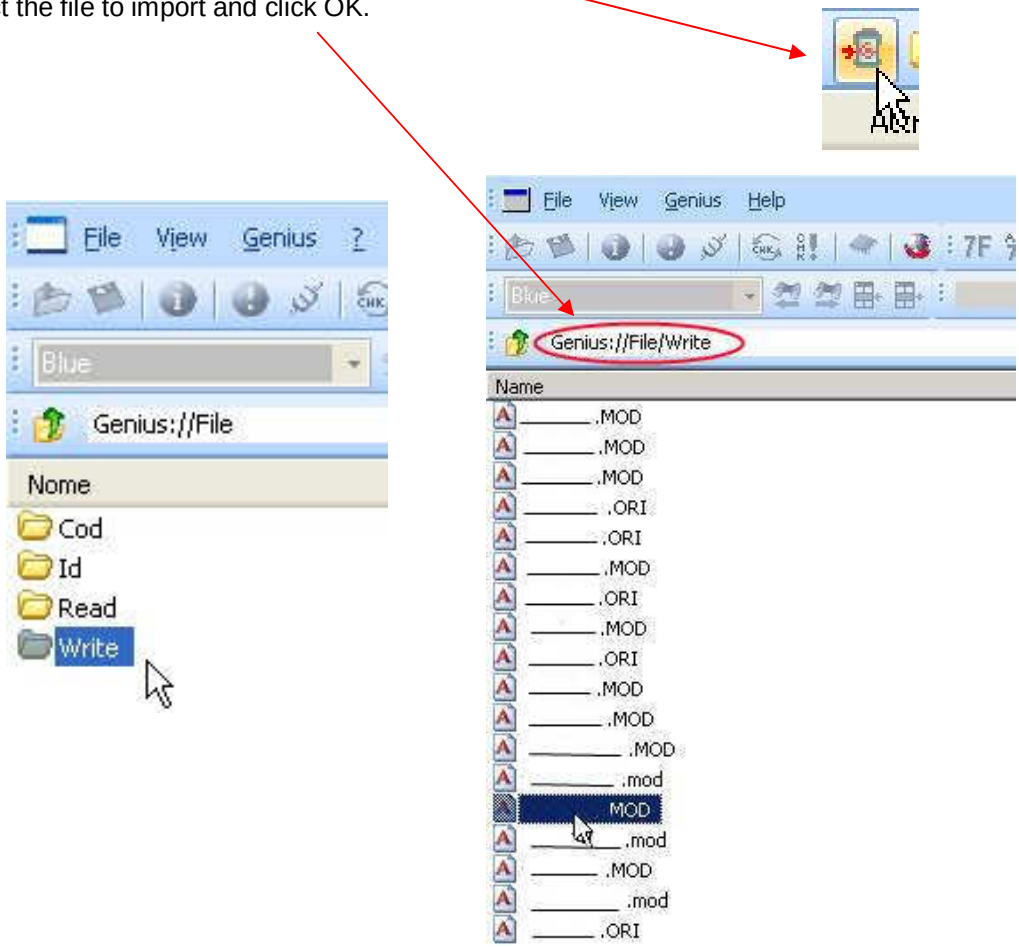
Follow the procedure:
- o select the chosen file
- o click on the button **Save file** on the Toolbar
- o save the file, default folder is Upload
- o choose to extract or not HEADER (YES / NO)

DON'T EXTRACT: the file of the vehicle with HEADER will be saved inside the folder. Following this procedure during the writing of the modified file inside ECU the Genius will know that the chosen file is correct for the ECU because the Genius will read the HEADER.

EXTRACT: the file of the vehicle without HEADER will be saved inside the folder and it can be exported out of the Race. Inside the folder will be saved also the HEADER in *.txt with inside all the instructions about the file read. Following this procedure during the writing of the modified file inside ECU the Genius will ask to confirm if the file that we are writing is correct because inside the file Genius won't find the HEADER.

Now it is possibile to manage the file read out with Genius inside or outside Race EVO.

To **import** files inside Genius it is necessary to connect Genius and select the btutton Explore, open folder File→Write and click on the button **Import File**.
Select the file to import and click OK.



13.2.2 File for the Technical Support

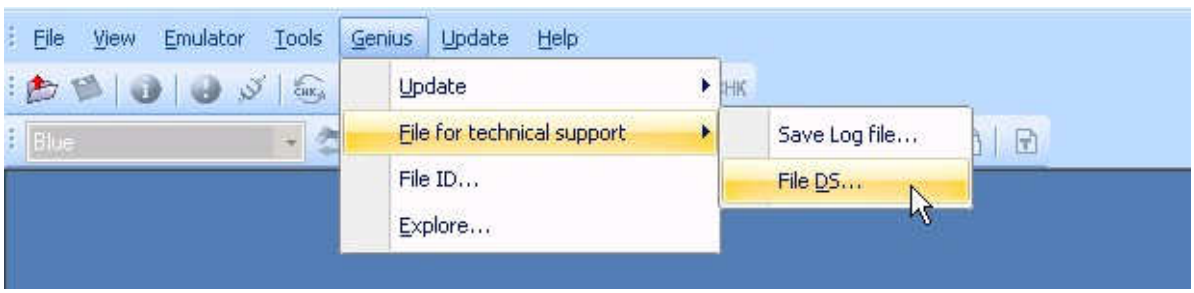
The customer has to export the file for the technical Support from Genius in two different cases:

1) correct ECU setting file missing in databank
2) technical support requires the sending of Log files

1) DS File

If after the reading of the file the related setting file is not present in the Dimsport databank the file cannot be loaded and opened in Race, but the DS file can be sent to the Technical Support.
This DS file will let the Technical Support to create a specific setting file for that ECU; after the downloading of the specific setting file inside Race EVO the customer will be able to proceed with modifications.

Follow the procedure:
- click on file for Support→ File DS
- select the correct file to send

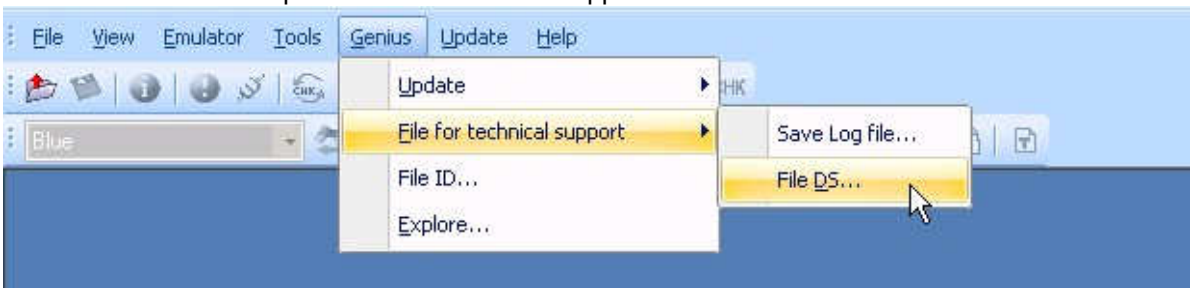


2) Log file

Send these kind of files only after the request of the Technical Support, they need them to help the customer during particolar or problematic situation.

Follow the procedure:

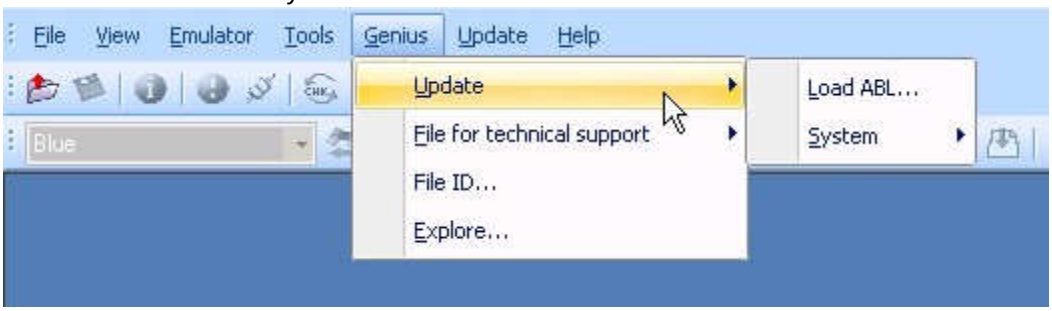
- click on file for Support→ File Log
- select the files required for the Techncal Support



13.2.3 Update

Update function allow to run several updates for the Genius tool.

- Protocols Features
- System Version
- GOS Recovery

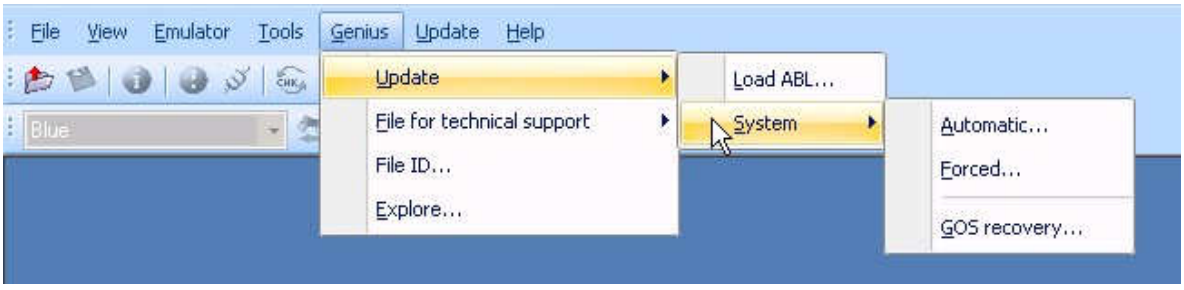


Protocols features

Clicking on **Load ABL** it is possibile to import the ABL file with the protocols features that the customer has to enable on Genius.

System Version

After the connection of the PC to Internet the Update System function allows the updating of the Genius Operative System. It is suggested to periodically run the Automatic update of the GOS version in order to have always the last release available.



Selecting **Automatic** Race EVO will verify and compare the versions of all the files of the GOS loaded on Genius with the last versions available. If there are some updates available they will be downloaded and automatically installed on Genius.

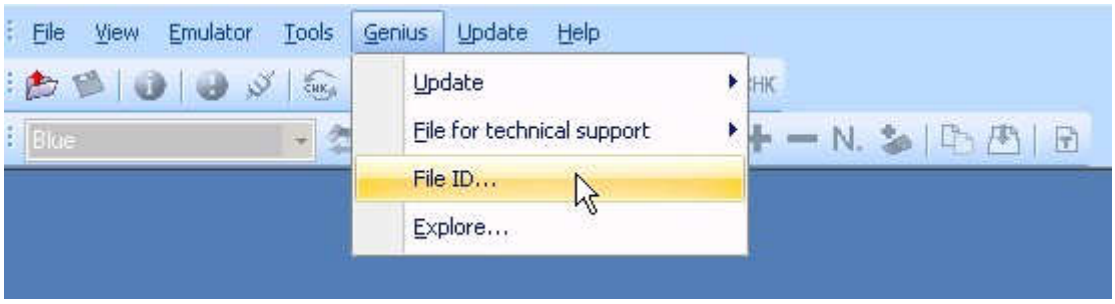
Selecting **Forced** Race EVO will run the download of the last release of GOS available and will perform the installation without comparing.

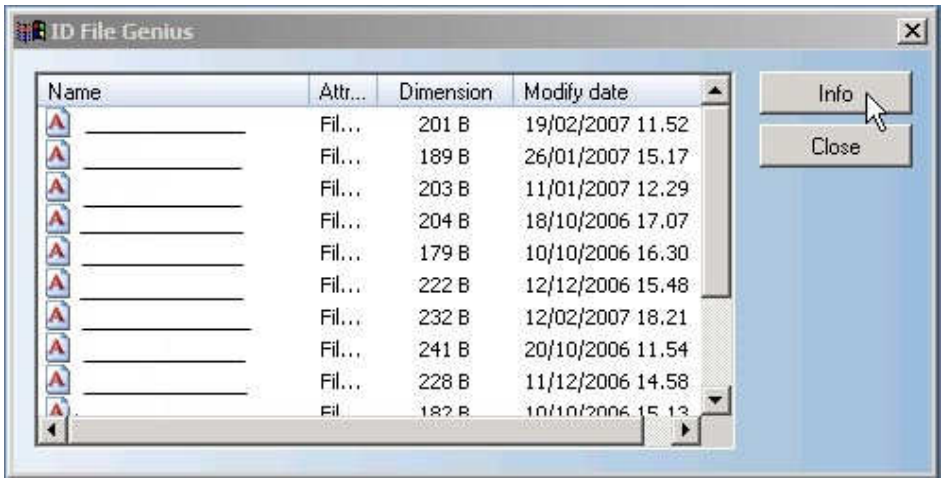
GOS Recovery
The function of GOS Recovery must be done only after the request of the Technical Support.

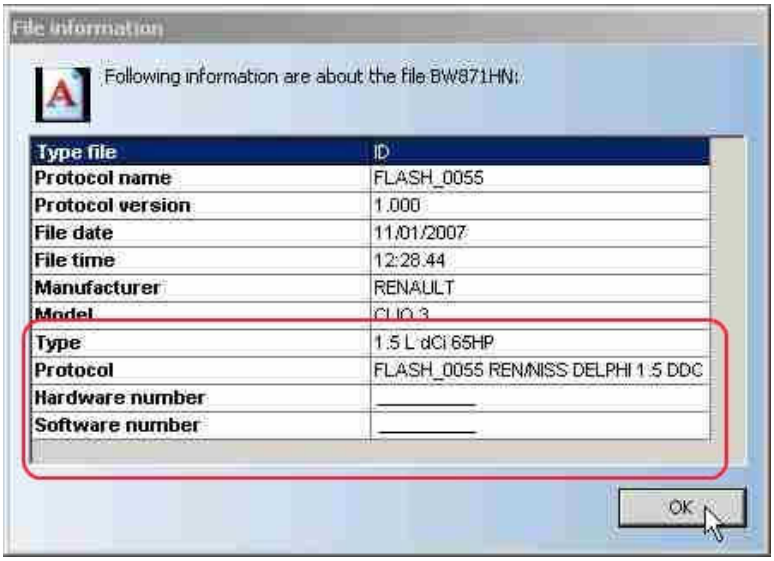
It is necessary to run the GOS Restoring after an interruption of data transfer during the Updating of the GOS and Genius lose all the necessary information to run correctly the system.
Please contact the Technical Support if this problem happens.

13.2.4 File ID

Clicking on the button File ID is possible to visualise all the Identifications done and saved on Genius. This option allows to see on the screen all the info of the file in order to find out on the databank the corresponding setting file.

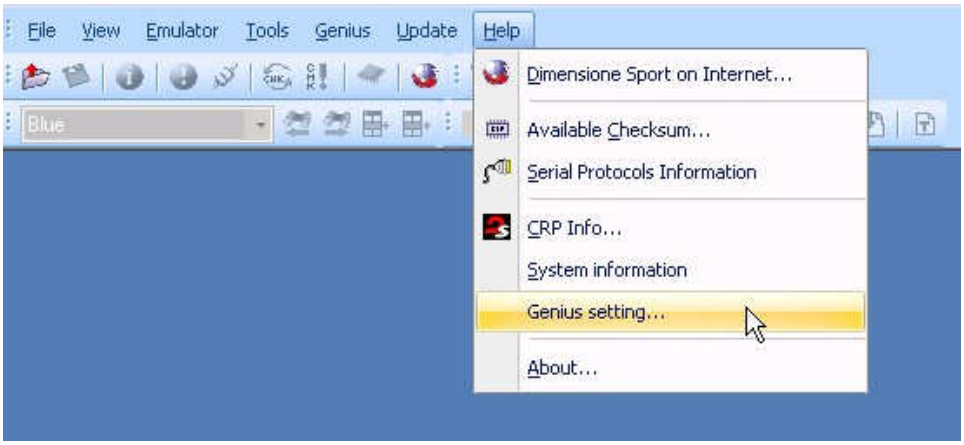




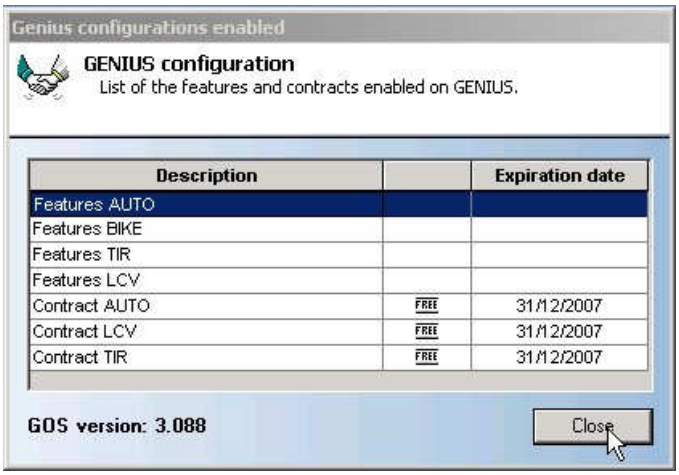


13.2.5 Genius Info and protocols

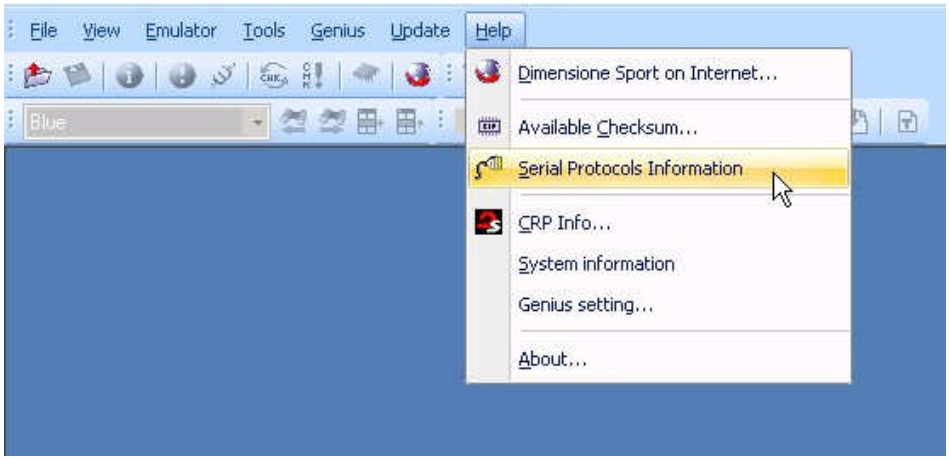
Under the “Help” of Race main menu there is Genius Setting option, clicking on this option with the Genius connected to the USB port of PC and to Power Pack it is possible to check all the features enabled on Genius.



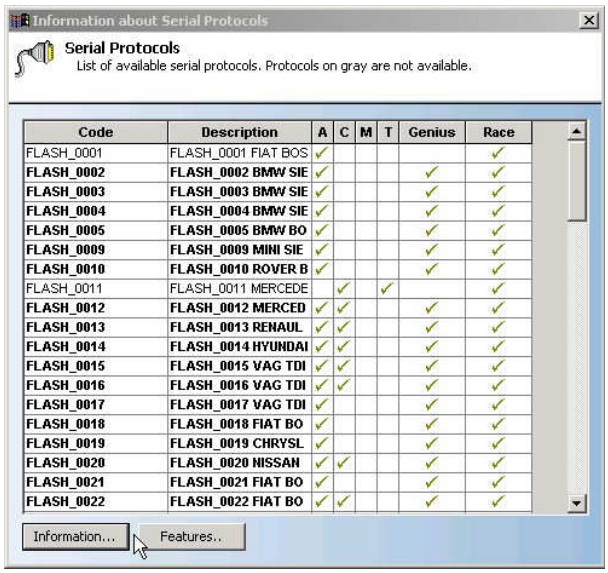
This option allows to check all the features and contracts enabled on Genius. Bottom left there is one of the most important data it is always required by the Technical Support: GOS Version (Genius Operative System).

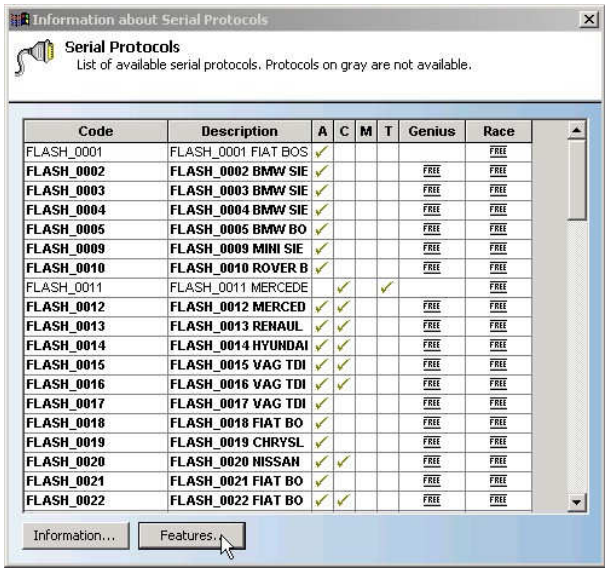


Serial Protocols Information button allows to check out all the serial protocols enabled.

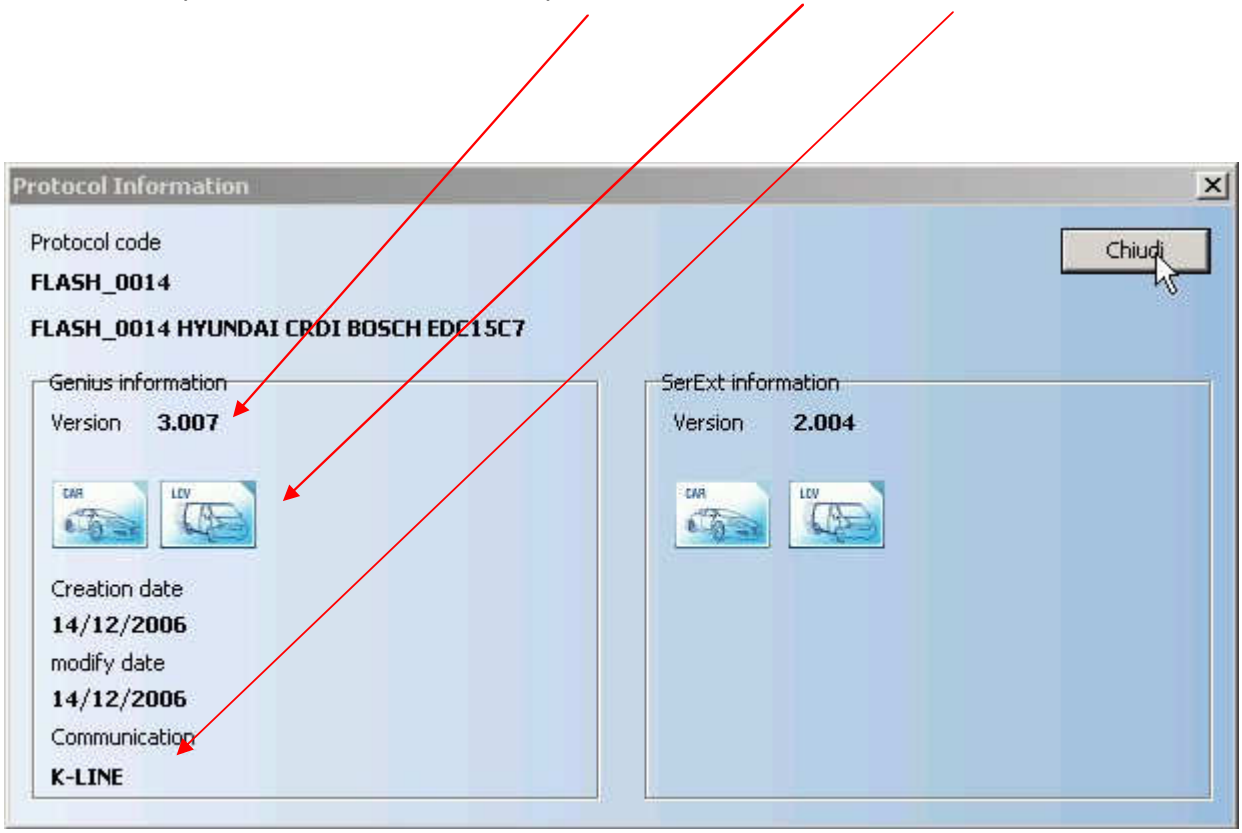


List of enabled serial protocols classified by car and protocol:
protocols written in normal are enabled on Race, those written in **bold** are enabled on Genius.
With the button **Features** it is possible to verify the serials contract.





Once selected the Serial Protocol with the button Information u can see all the information about the selected protocol for Genius and Race: protocol version – enabled for – communication line



14 AVAILABLE PROTOCOLS

T:TOTAL – P:PARTIAL - /: NOT POSSIBLE

ID GENIUS	Description	READ	WRIT	K Line	CAN	J1855	Wires
FLASH_0001	FIAT BOSCH ME 1.5.5 FAL	/	T	X			8
FLASH_0002	BMW SIEMENS MS41	P	P	X			5
FLASH_0003	BMW SIEMENS MS42	P	P	X			5
FLASH_0004	BMW SIEMENS MS43	P	P	X			5
FLASH_0005	BMW BOSCH DDE4.0	P	P	X			5
FLASH_0009	MINI SIEMENS EMS2	P	P	X			1
FLASH_0010	ROVER BOSCH DDE4.0	P	P	X			1
FLASH_0012	MERCEDES BOSCH EDC 15C6	T	T	X			6
FLASH_0013	RENAULT DCI BOSCH EDC 15C2	T	T	X			1
FLASH_0014	HYUNDAI/KIA CRDI BOSCH EDC 15C7	T	T	X			1
FLASH_0015	VAG TDI BOSCH EDC15VM+19	T	T	X			2
FLASH_0016	VAG TDI BOSCH EDC15VM+25	T	T	X			2
FLASH_0017	VAG TDI BOSCH EDC15P+	T	T	X			2
FLASH_0018	FIAT BOSCH ME73H4/21/31/731 FAL	T	T	X			9
FLASH_0019	CHRYSLER/JEEP CRD BOSCH EDC15C2	T	T	X			1
FLASH_0020	NISSAN TDDI BOSCH EDC15C2	T	T	X			1
FLASH_0021	FIAT BOSCH EDC15C5 FAL	T	T	X			7
FLASH_0022	FIAT BOSCH EDC15C6/C7 FAL	T	T	X			1
FLASH_0023	MERCEDES BOSCH CDI EDC15C5 EURO2	T	T	X			6
FLASH_0024	MCC SMART BOSCH EDC15C5	T	T	X			1
FLASH_0025	MCC SMART BOSCH MEG1.0/1.1	/	T	X			1
FLASH_0026	OPEL/SAAB BOSCH EDC15M	/	T	X			1
FLASH_0027	BMW 320D DDE3.0 136CV	P	P	X			1
FLASH_0028	VAG ME7.X 4Mbit	T	T	X			1
FLASH_0029	VAG ME7.X 8Mbit	T	T	X			1
FLASH_0030	VAG TDI BOSCH EDC15VM+25 8Mb	T	T	X			2
FLASH_0031	OPEL DTI 17 DELPHI	T	T	X			1
FLASH_0033	BMW BOSCH DME7.1	P	P	X			1
FLASH_0034	FAL MAGNETI MARELLI 4AF/59F/5AF/5NF	T	P	X			1
FLASH_0035	RENAULT SIEMENS SIRIUS 32/34	P	P	X			1
FLASH_0038	PSA HDI BOSCH EDC15C2	T	T	X			1
FLASH_0041	MERCEDES BOSCH ME2.8	/	T	X			1
FLASH_0047	LAND ROVER TD5 MEMS NNN PSOP 29F200BT	P	P	X			1
FLASH_0048	PORSCHE ME7.2	T	T	X			1
FLASH_0049	HONDA 1.7 CDTI BOSCH EDC15C7	T	T	X			1
FLASH_0050	BMW BOSH EDC16 C31	P	P	X			1
FLASH_0052	TOYOTA YARIS D-4D EDC 15C9 29F400BT	T	T	X			1
FLASH_0053	PORSCHE BOSCH ME7.8	P	P	X			1
FLASH_0054	HUNDAY/KIA CRDI 2900 DELPHI	P	P	X			1
FLASH_0055	RENAULT/NISSAN 1500 DCI DELPHI	P	P	X			1
FLASH_0056	FIAT-ALFA-LANCIA JTD BOSCH EDC16	T	T	X			1
FLASH_0057	RENAULT/DACIA/NISSAN DELPHI DCM1.2	P	P	X	X		1
FLASH_0061	FIAT/LANCIA MARELLI MJT 1300	P	P	X			1
FLASH_0062	PSA BOSCH ME7.4.4	P	P	X			1
FLASH_0064	BMW BOSCH EDC16+ C35	P	P	X	X		1
FLASH_0067	SUZUKI-OPEL MAGNETI MARELLI MJT 1300	P	P	X			1
FLASH_0068	VAG BOSCH EDC16 U/2.1	T	T	X	X		1
FLASH_0070	PSA BOSCH EDC16 C0/C3	P	P	X			1

ID GENIUS	Description	READ	WRIT	K Line	CAN	J1855	Wires
FLASH_0071*	RENAULT BOSCH EDC16 C0/C3	P	P	X			1
FLASH_0072	VAG EDC16+ U31/U34	P	P	X	X		1
FLASH_0073	VAG EDC16+ CP34	P	P	X	X		1
FLASH_0074	MEB BOSCH EDC16	T	T	X			1
FLASH_0075	PSA BOSCH EDC16+ CP34	P	P	X	X		1
FLASH_0076	FAL BOSCH EDC16+	P	P	X	X		4
FLASH_0077	KIA/HYUNDAI BOSCH EDC16+	P	P	X			1
FLASH_0078	CHRYSLER BOSCH EDC16	T	T	X			1
FLASH_0080	PORSCHE BOSCH M5.2.2	P	P	X			3
FLASH_0081	MERCEDES BOSCH EDC16+ CP32	P	P		X		1
FLASH_0082	VAG ME7.1.1 CAN	T	T		X		1
FLASH_0084	RENAULT SAGEM 3000	P	P	X	X		1
FLASH_0086	SUZUKI BOSCH EDC16 C0/C3	P	P	X			1
FLASH_0087	VAG BOSCH ME9.5 FSI	T	T		X		1
FLASH_0088	CHRYSLER BOSCH EDC16+	P	P		X		1
FLASH_0089	MERCEDES 3.0 CDI BOSCH EDC16+ CP31	P	P	X	X		1
FLASH_0090*	OPEL BOSCH EDC16C39	/	T		X		1
FLASH_0091	VAG BOSCH ME9.1TFSI	T	T		X		1
FLASH_0093	VOLVO BOSCH EDC16+ C31-6	P	P	X			4
FLASH_0094	LAND ROVER SIEMENS SID 201/204	/	P		X		1
FLASH_0095	FAL MARELLI MJD6F3 MPC563	T	T	X			1
FLASH_0095F	FAL MARELLI MJD6F3 MPC563	/	T		X		1
FLASH_0097	FORD BOSCH EDC16+ C34	P	P		X		1
FLASH_0100	RENAULT SIEMENS SID 301	P	P		X		1
FLASH_0104	OPEL MARELLI+6O203D	T	T	X			1
FLASH_0105	RENAULT BOSCH EDC16+C36	P	P	X			1
FLASH_0106	PSA SIEMENS SID803/803A/201	/	T	X	X		1
FLASH_0107	VAG BOSCH ME9.1.1 FSI	T	T	X	X		1
FLASH_0108	FAL MAGNETI MARELLI 4SF	P	P	X			1
FLASH_0109	SSANGYONG DELPHI DCM	T	T	X			1
FLASH_0111	PSA BOSCH ME 7.4.5	P**	P	X	X		1
FLASH_0112	SUZUKI DELPHI DCM1.2	P	P	X			1
FLASH_0113	OPEL MERIVA DTI DELPHI	T	T	X			1
FLASH_0120	MERCEDES SIEMENS 5WK9 SIM4LE	P	P	X			1
FLASH_0122	REANAULT MARELLI 5NR	T	T	X			1
FLASH_0123	VAG SIEMENS PPD1.XX	P	P	X	X		1
FLASH_0124	SSANGYONG DELPHI DCM3.2	T	T	X			1
FLASH_0126	CHEVROLET BOSCH EDC16+ C39	P	P		X		1
FLASH_0127	OPEL BOSCH EDC16+ C39	P	P	X	X		1
FLASH_0129	FAL BOSCH ME7.9.10	/	T	X	X		1
FLASH_0130	SAAB BOSCH EDC16+ C39	P	P	X	X		1
FLASH_0132	PORSCHE BOSCH ME7.8 MY>06/2004	/	T	X			1
FLASH_0133	MCCSMART/MITSUBISHICOLT BOSCH EDC16+C31	P	P	X	X		1
FLASH_0134	MCCSMART FORTWO BOSCH EDC16+ CP32	/	T		X		1
FLASH_0135	FO.MO.CO. VISTEON FORD/LASND ROVER	P	P		X		1
FLASH_0136	FAL BOSCH ME7.6.1	/ **	T	X			1
FLASH_0137	FAL BOSCH ME7.6.2	/ **	T	X			1
FLASH_0139	VAG BOSCH EDC16U/2.1 V10 M&S	T	T	X			1

ID GENIUS	Description	READ	WRIT	K Line	CAN	J1855	Wires
FLASH_0140	VAG BOSCH EDC16+U31/U34 V10 M&S	P	P	X			1
FLASH_0141	HONDA BOSCH EDC16C1-7	T	T	X			1
FLASH_0144	NISSAN QASHQAI BOSCH EDC16+ CP33	P	P	X			1
FLASH_0145	VAG BOSCH ME9.1.1 FSI V8/V10 M&S	T	T		X		1
FLASH_0149	MERCEDES SIEMENS SIM4LKE	P	P	X			1
FLASH_0150	PSA BOSCH EDC16+ CP39	P	P		X		1
FLASH_0151	RENAULT SIM32	P	P		X		1
FLASH_0152	FORD BOSCH EDC16C3	T	T		X		1
FLASH_0153	DODGE/JEEP/MITSUBISHI BOSCH EDC16+ U31	T	T		X		1
FLASH_0154	LAND ROVER FREELANDER BOSCH EDC16+ CP39	P	P		X		1
FLASH_0155	FORD SIEMENS SID803A/SID202	P	P		X		1
FLASH_0156	FORD SIEMENS SID206	P	P		X		1
FLASH_0157	FORD SIEMENS SID803	T	T		X		1
FLASH_0158	FORD SIEMENS SID804	T	T		X		1

*** for a correct use of this protocol please check appendix "B"**

**** it could be necessary to read with Trasdata tool**

15 WIRING LIST

Details of the wiring components are at Pag. 4-5-6-7-8 Chpt.3

WIRING 1:

1. CABLE OBD II K-CANBUS- J1850 (Rif.2)

WIRING 2:

1. CABLE OBD II K-CANBUS- J1850 (Rif.2)

Connecting directly to the ECU:

Cables 2008

1. CONNECTOR FOR ECU V.A.G (Rif.21)

Old cables

1. ADAPTOR FOR FLASH4 WIRING SYSTEM (Rif.4)
2. CONNECTOR FOR ECU V.A.G (Rif.13)
3. BATTERY CABLE (Rif.11)
4. PSU 12 volt (Rif.10)

WIRING 3:

Cables 2008

1. CABLE OBDII FOR PORSCHE M5.2.2 (Rif.20)

Old cables

1. ADAPTOR FOR FLASH4 WIRING SYSTEM (Rif.4)
2. CABLE OBDII FOR PORSCHE M5.2.2 (Rif.12)

WIRING 4:

1. CABLE OBD II K-CANBUS- J1850 (Rif.2)

Cables 2008

1. UNIVERSAL WIRING FOR SERIAL PROGRAMMING (Rif.7)

Old cables

1. ADAPTOR FOR FLASH4 WIRING SYSTEM (Rif.4)
2. UNIVERSAL WIRING FOR SERIAL PROGRAMMING (old cable with K-line only)

WIRING 5:

1. CABLE OBD II K-CANBUS- J1850 (Rif.2)
1. ADAPTOR FOR FLASH4 WIRING SYSTEM (Rif.4)
2. PLUG CABLE RJ45 (Rif.14)
3. BMW DIAGNOSTIC CONNECTOR (Rif.14)

WIRING 6:

1. CABLE OBD II K-CANBUS- J1850 (Rif.2)

Cables 2008

2. MERCEDES DIAGNOSTIC CONNECTOR CABLE (Rif.22)

Old cables

3. ADAPTOR FOR FLASH4 WIRING SYSTEM (Rif.4)
4. MERCEDES DIAGNOSTIC CONNECTOR (Rif.15)

WIRING 7:

1. CABLE OBD II K-CANBUS- J1850 (Rif.2)

Cables 2008

1. FIAT ALFA LANCIA DIAGNOSTIC CONNECTOR FOR SERIAL COMMUNICATION (Rif.23)
2. RED WIRE +12V
3. BLACK WIRE GND

Old cables

1. ADAPTOR FOR FLASH4 WIRING SYSTEM (Rif.4)
2. FIAT ALFA LANCIA DIAGNOSTIC CONNECTOR FOR SERIAL COMMUNICATION (Rif.16)
3. RED WIRE +12V
4. BLACK WIRE GND

WIRING 8:

1. CABLE OBD II K-CANBUS- J1850 (Rif.2)
2. BLUE WIRE

Cables 2008

1. FIAT ALFA LANCIA DIAGNOSTIC CONNECTOR FOR SERIAL COMMUNICATION (Rif.23)
2. RED WIRE +12V
3. BLUE WIRE

Old cables

1. ADAPTOR FOR FLASH4 WIRING SYSTEM (Rif.4)
2. FIAT ALFA LANCIA DIAGNOSTIC CONNECTOR FOR SERIAL COMMUNICATION (Rif.16)
3. RED WIRE +12V
4. BLUE WIRE

WIRING 9:

Cables 2008

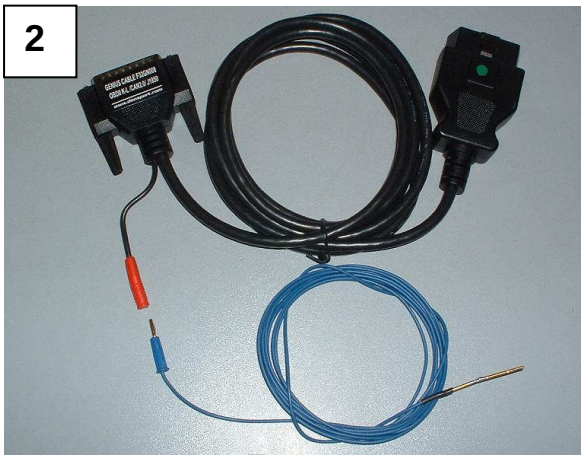
1. CABLES **A** FOR BOSCH ME7.3.1, ME3.1, ME2.1, ME7.3H4 HYBRID ECU (Rif.24)
2. CABLES **B** FOR BOSCH ME7.3.1, ME3.1, ME2.1, ME7.3H4 HYBRID ECU (Rif.25)
3. BATTERY CABLE (Rif.11)
4. PSU 12 volt (Rif.10)

Old cables

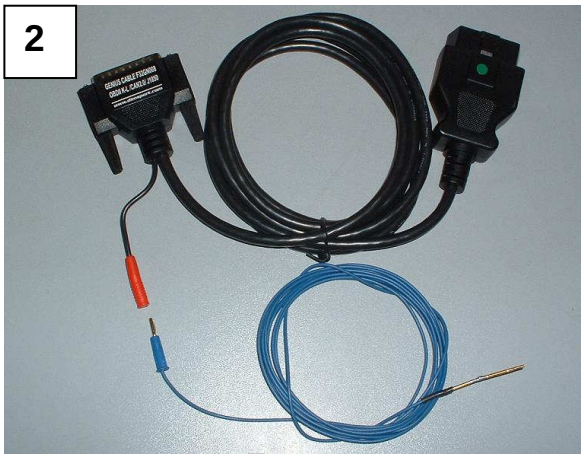
1. ADAPTOR FOR FLASH4 WIRING SYSTEM (Rif.4)
2. CABLES **A** FOR BOSCH ME7.3.1, ME3.1, ME2.1, ME7.3H4 HYBRID ECU (Rif.17)
3. CABLES **B** FOR BOSCH ME7.3.1, ME3.1, ME2.1, ME7.3H4 HYBRID ECU (Rif.18)
4. BATTERY CABLE (Rif.11)
5. PSU 12 volt (Rif.10)

WIRINGS COMPONENTS

WIRING 1:



WIRING 2:
This kind of ECU requires the OBDII connection, only in few cases there is no communication between OBDII and ECU.
If there is not any possibility to connect through OBDII socket because there is not any kind of communication with the ECU the only way to communicate is through CONNECTOR FOR ECU V.A.G. (Old cable Rif.13 or cable 2008 Rif.21)



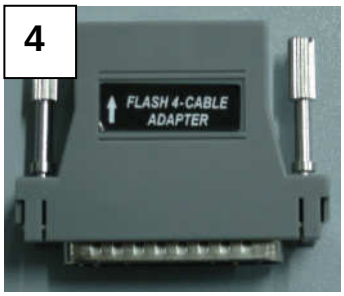
CAUTION: if it will be necessary to remove the ECU you can use the following wiring:

Cables 2008

When the software RaceEVO shows you the message *Switch ON the dashboard* you must switch the red botton , than when the system ask you to *switch OFF the dashboard* you must switch another time the red botton.

If you want you can obtain supply from +12V battery using the battery connectors

Old cables



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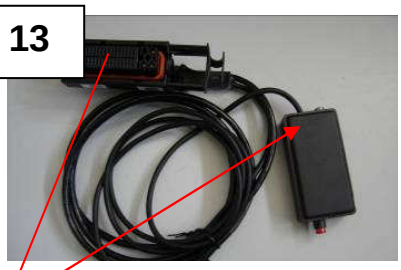

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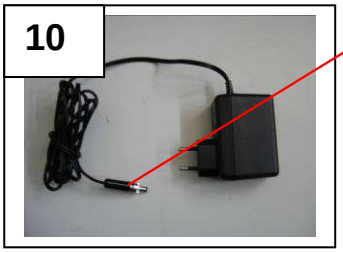
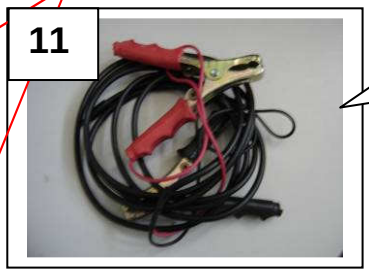
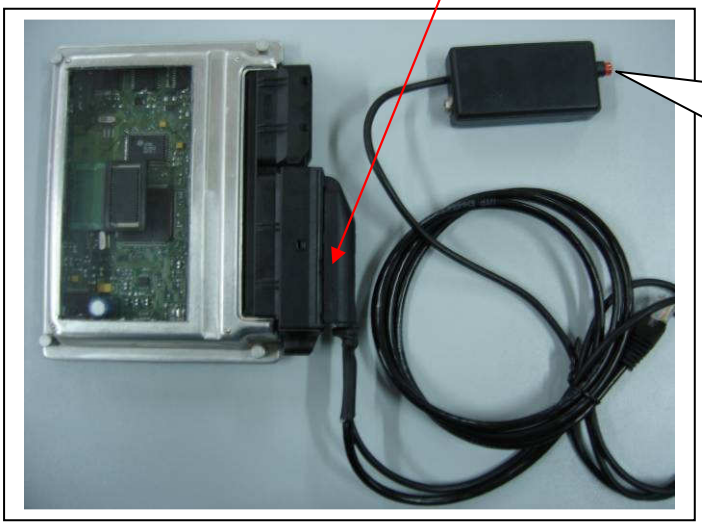




If you want you can obtain supply from +12V battery using the battery connectors



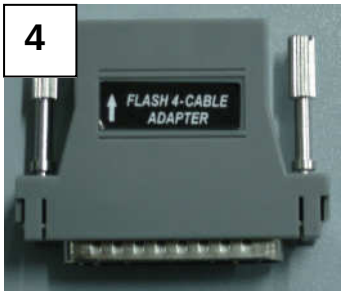
When the software RaceEVO shows you the message *Switch ON the dashboard* you must switch the red botton , than when the system ask you to *switch OFF the dashboard* you must switch another time the red botton.

CAUTION: After any Read/Write operation with this wiring it's necessary to make a diagnosis in order to delete eventual errors inside the ECU (Airbag light etc…..)

WIRING 3:

Cables 2008

Old cables



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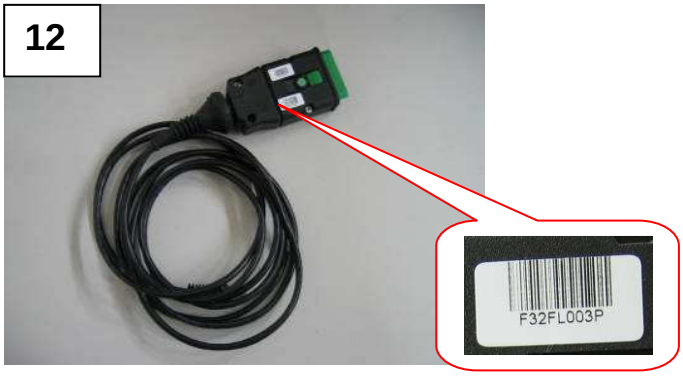
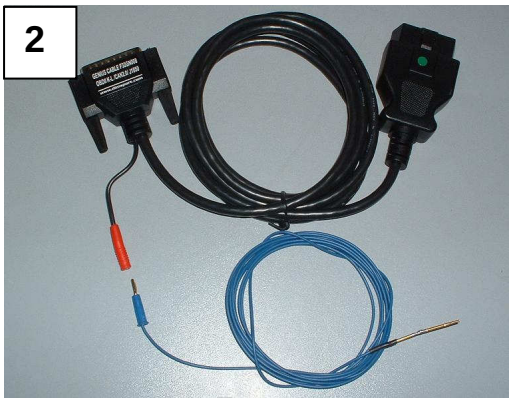


WIRING 4:



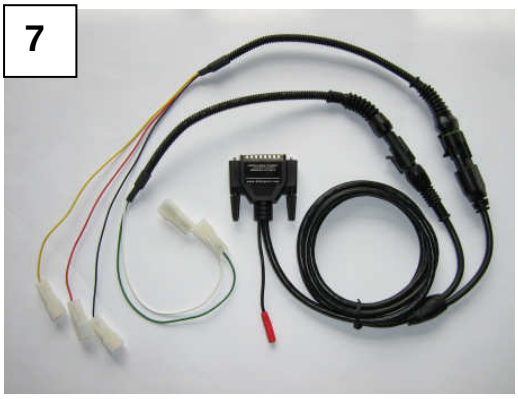
If there is not any communication with the ECU through OBDII socket the only way to communicate is through universal wiring as explained below.

Or
(see next page)

Cables 2008

(ATTENTION for this wiring see Appendix A)

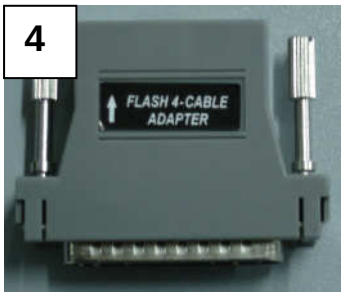
7



Old cables

(ATTENTION for this wiring see Appendix A)

4



+

WIRING 5:

2

For this wiring you could find an OBDII socket or a typical BMW load connector

Or

4

+

14

WIRING 6:

2

For this wiring you could find an OBDII socket or a typical Mercedes diagnosis connector

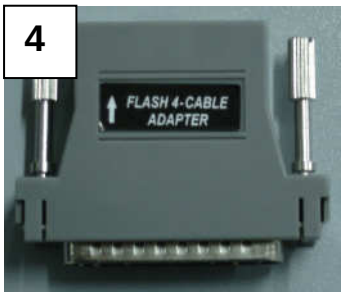
Or

Cables 2008

22

Old cables

4



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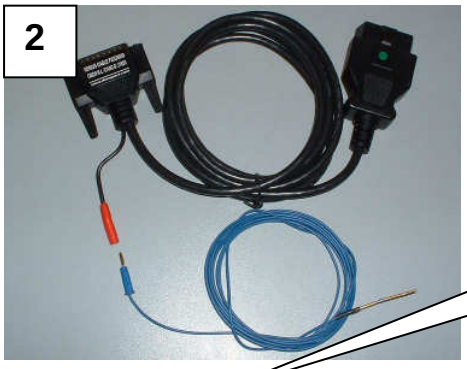
15

WIRING 7:

2

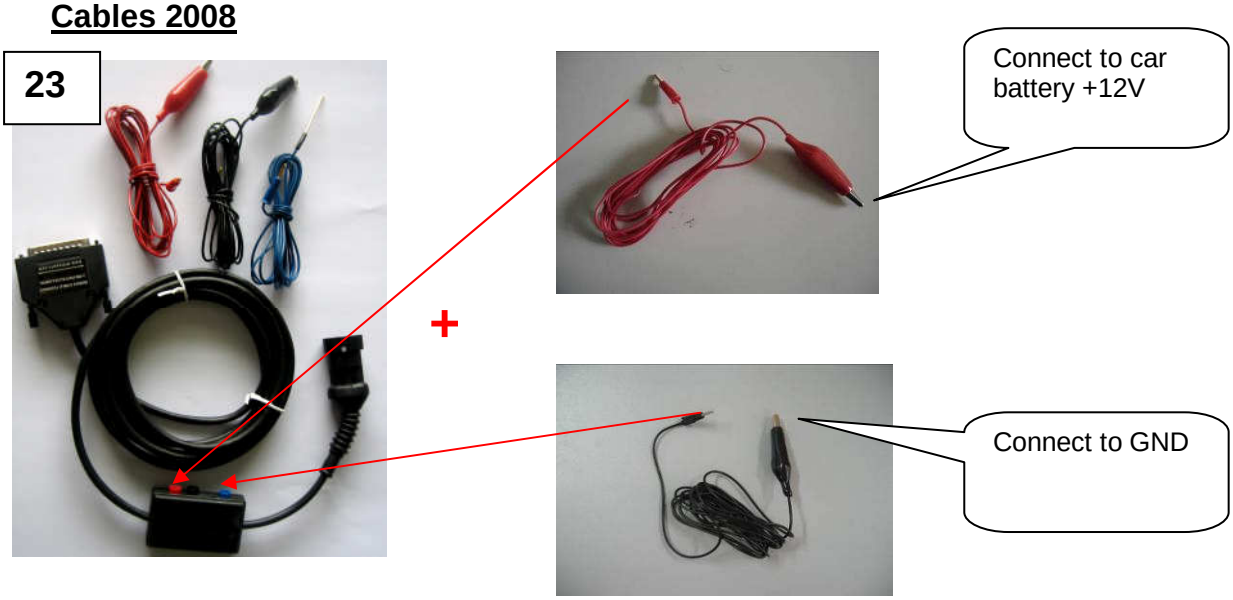


For this kind of connection you could find an OBDII socket or a typical FIAT/ALFA/LANCIA diagnosis connector

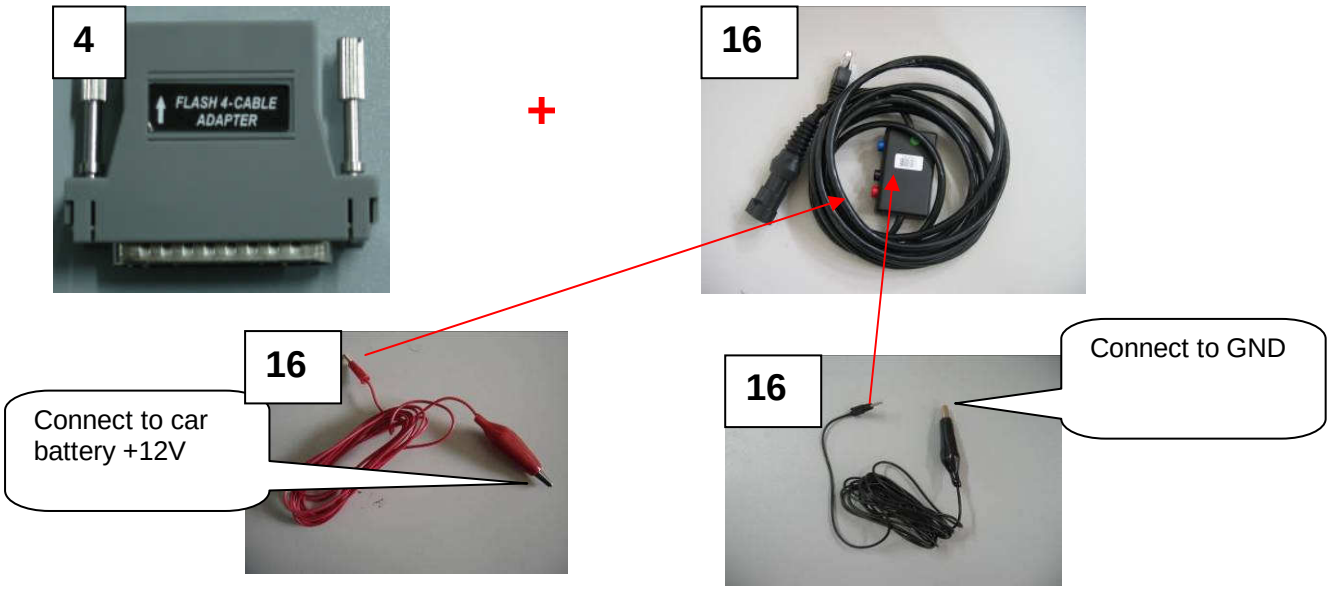
Or

(See next page)

Cables 2008

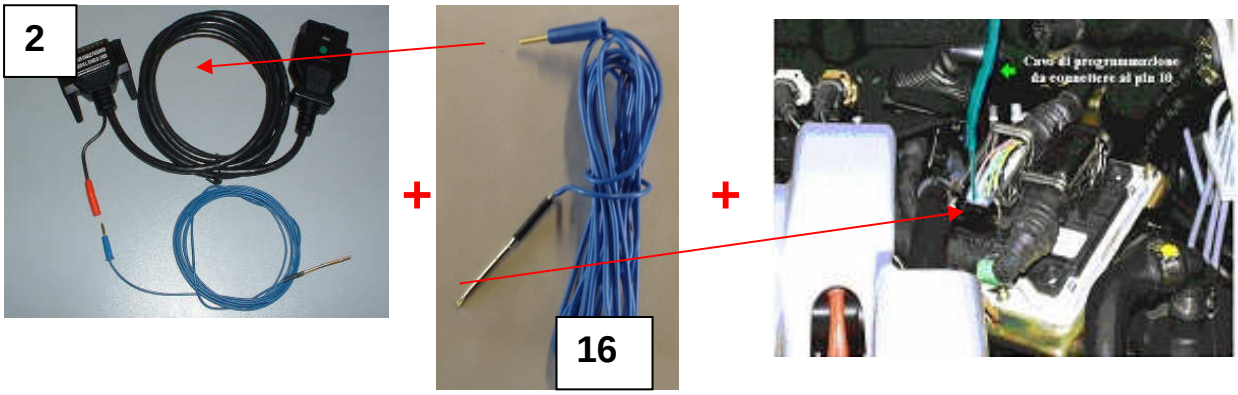


Old cables



WIRING 8:
This wiring is made up of connectors for serial Reading/Writing procedure and additional connectors that allow you to communicate with particular ECU.
So we have two different type of wiring:

Wiring 8.1 (With OBDII connector)

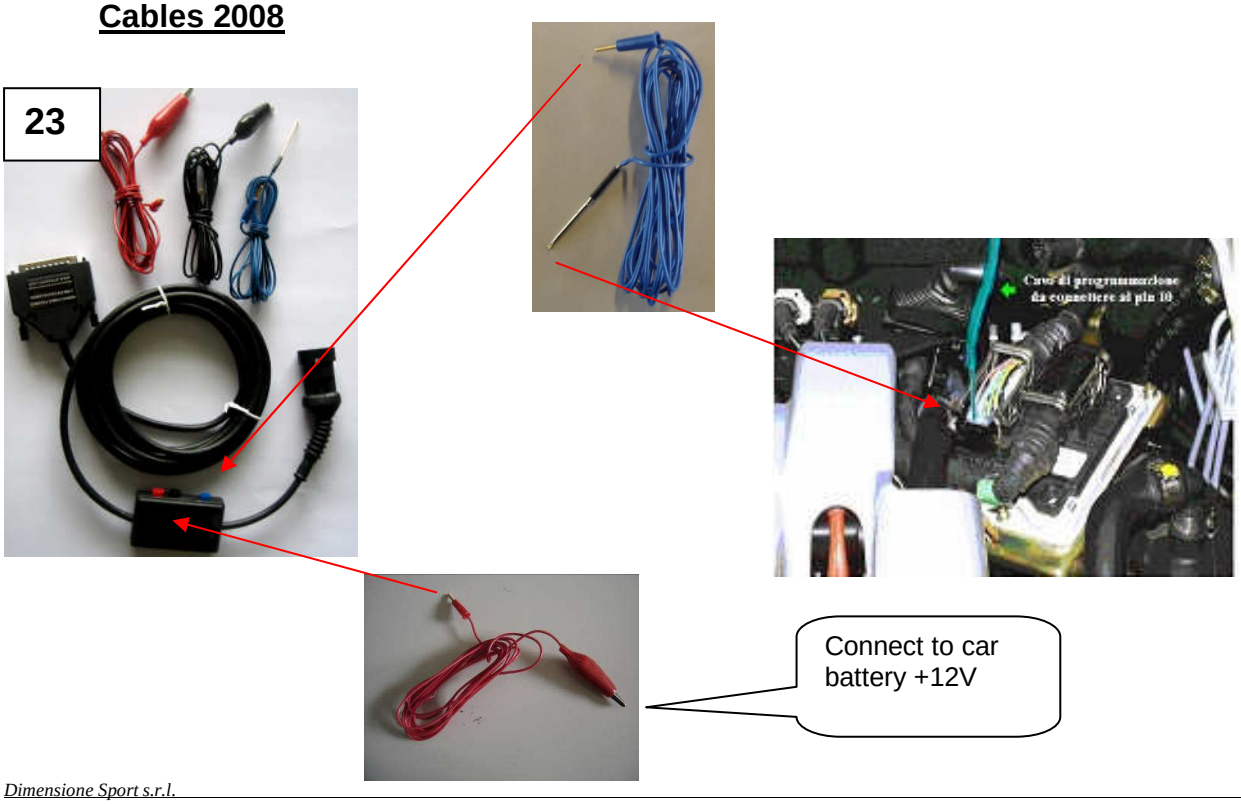


CAUTION: We must put one endpoint of the blue wire in the OBDII blue connector, the other one must be connected to the Pin 10 of the ECU.

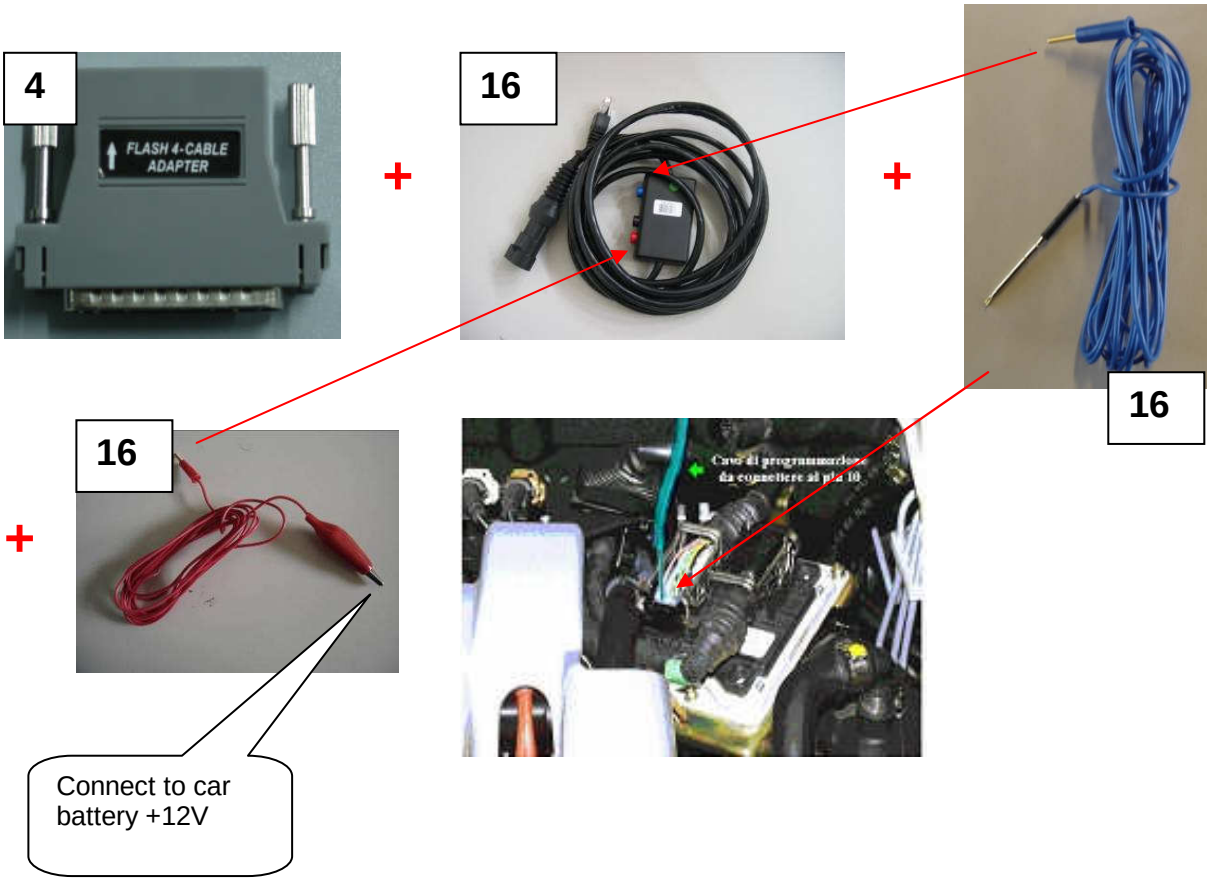
Or

Wiring 8.2 (With FIAT-ALFA-LANCIA connector)

Cables 2008



Old cables



CAUTION: one endpoint of the blue wire must be connected to FIAT/ALFA/LANCIA blue connector, the other one must be connected to the Pin 10 of the ECU, for what concern the red wire, one endpoint must be connected to the +12V battery connector and the other one to the FIAT/ALFA/LANCIA red connector

WIRING 9:

CAUTION: for this wiring it's necessary to remove the ECU, you can work using the following wiring (SINGLE or DOUBLE)

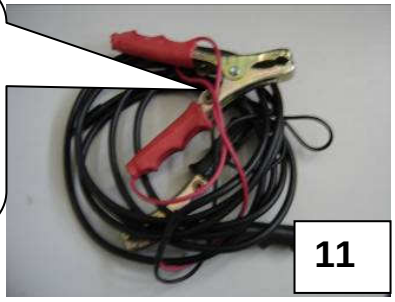
Wiring 9.1 (Single without blue wire)

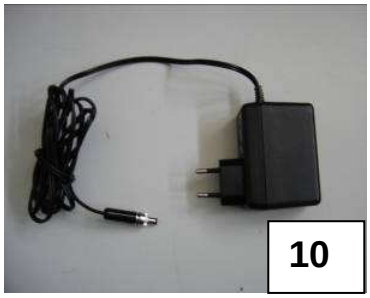
Cables 2008

Old cables

+

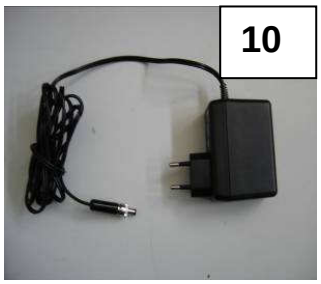
If you want you can obtain supply from +12V battery using the battery connectors

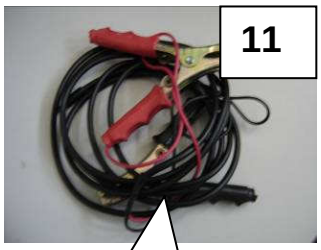




Wiring 9.2 (Double with blue wire)

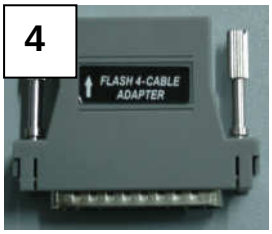
Cables 2008





If you want you can obtain supply from +12V battery using the battery connectors

Old cables



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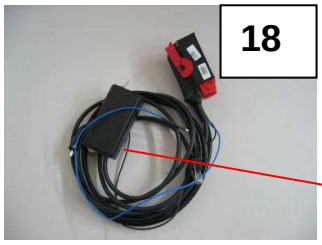

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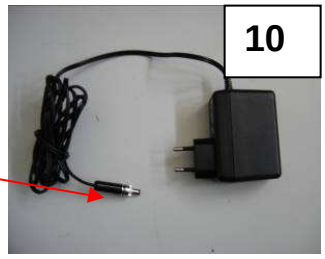


If you want you can obtain supply from +12V battery using the battery connectors

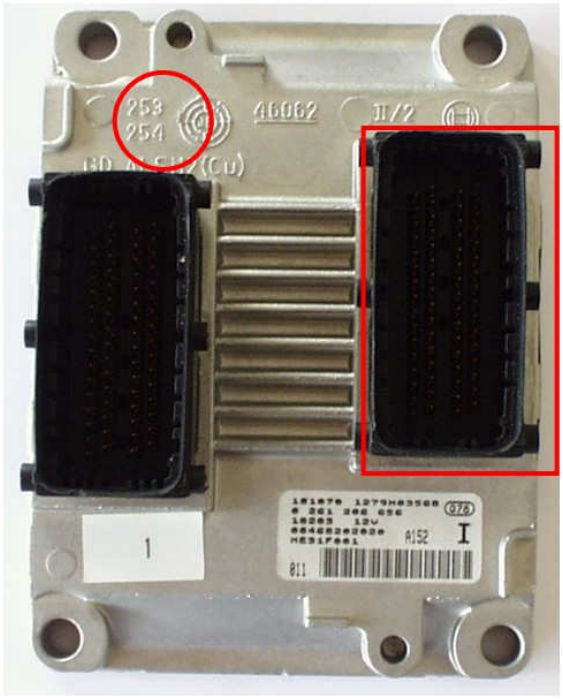
CAUTION: in order to select the right wiring (SINGLE or DOUBLE) please read the following indications:

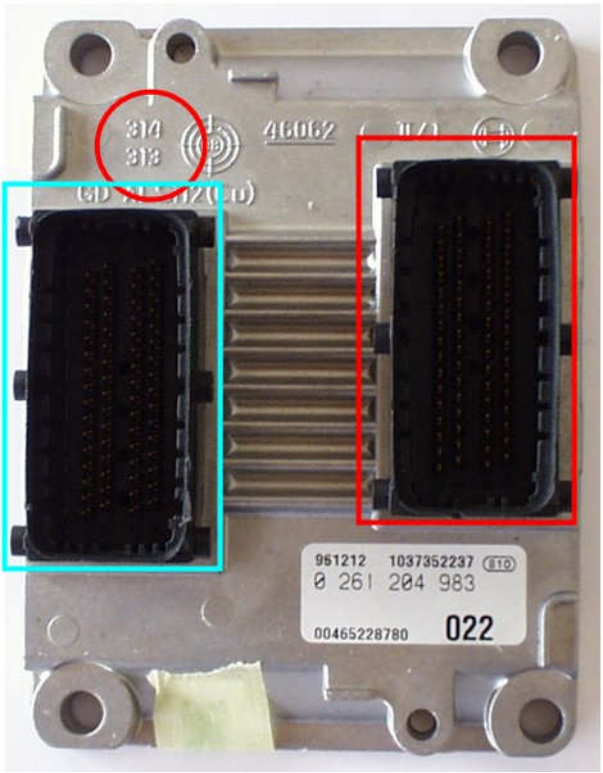
Reprogramming through direct connection to the ECU :
The connection to the ECU is direct and it is obtained using the suitable cable, double or single connector, with the white adapter RJ45, the supply power is obtained directly through the battery or from the electrical network.Cables are divided into two main families:

SINGLE TYPE CABLE (WITHOUT BLUE WIRE): supplied with a crocodile-clipped black wire that must be connected to the ground pin of the ECU (aluminium box).

We consider "single type" all the ECU with both reading and writing pins on a single connector. In order to identify a single type we must find the numbers printed on the ECU. If the numbers are **253** and **254**, only the right connector MUST BE USED (Marked with RED lines) .

Make sure that pins 15, 32, 48 are communicating between them by using a digital multimeter!





DOUBLE TYPE CONNECTOR (with external BLUE WIRE):
supplied with a crocodile-clipped black wire that must be connected to the ground pin of the ECU (aluminium box) and an additional female pin-ending BLUE wire that must be plugged to the LEFT connector located on the ECU (other available connector).
We consider "double type" all the ECU with serial reading and writing pins on both connectors. As for the single type connector, power supply pins and diagnosis pins are located on the right connector, whereas the pin which enables the communication is located on the left connector (marked in BLUE). The identification numbers for this kind of ECU are **314** and **313**.
For this kind of ECU, the double type connector must be plugged into the RIGHT CONNECTOR and the blue wire, which extends it self from the cable, must be connect to the **PIN 20** in the LEFT CONNECTOR.

CAUTION : For some ECU, as the ME7.3.1 the position of the original connector does not correspond to the position of the FLASH0018 cable. Do not force the FLASH0018 cable into the ECU connector if the position isn't correct. On the contrary for ME3.1 and ME7.3H4 the position of the original connector and the position of the FLASH0018 cable correspond.

Make sure that pins 17, 33, 49 in the right connector are communicating between them by using a digital millimetre.

APPENDIX A (Special Applications)

FLASH_0076 (FAL BOSCH EDC16+)

A direct connection between OBDII socket and ECU is not possibile because there is no K-line.
To solve this problem it is necessary to connect directly to the PIN 25 in the ECU. You have to lift up the connector then, by using the universal cable, you have to connect the K-line of the universal cable (yellow wire) with one end of the blue connection wire. Then link the second end of the same blue connection wire to PIN 25 of the ECU.

Old Cables **Or** **Cables 2008**

To create the connection we have chosen to connect the K-line (yellow wire of the universal cable) to PIN 43 using the blue wire, after we have connected with the clamps the red wire to the positive pole of the battery (+12V) and the black wire to ground (GND).

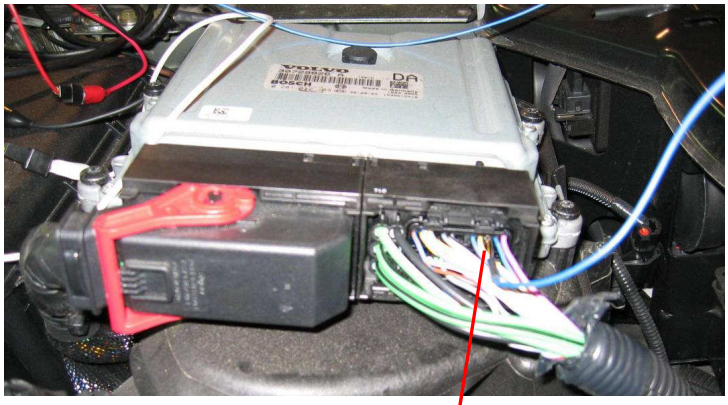
FLASH_0093 (VOLVO BOSCH EDC16+ C31-6)

In Volvo cars that have ECU Bosch EDC16+ C31-6 the communication between PIN 7 of OBD II and PIN 43 of ECU is missing.
It is necessary to connect Genius with the connectors of the ECU following the instructions:

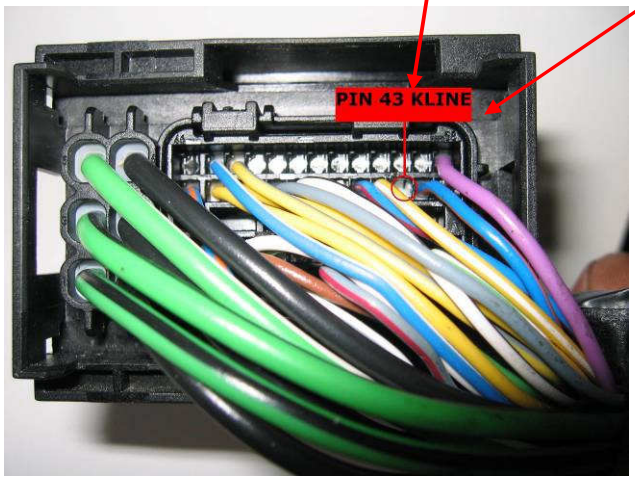
1 – Unplug the little connector of the ECU and dismantle warily the plastic protection as in the pictures



2 – In the connector look for the **PIN 43** that alllows the communication with the ECU.
To create the communication we decided to connect the K-Line (yellow wire) of the universal wiring (Rif.7) to the PIN 43 using the blu wire as in the pictures below, then we have connected the red wire to the positive pole of the battery (+12V) and the black one to ground (GND) using little clamps.



Old cable

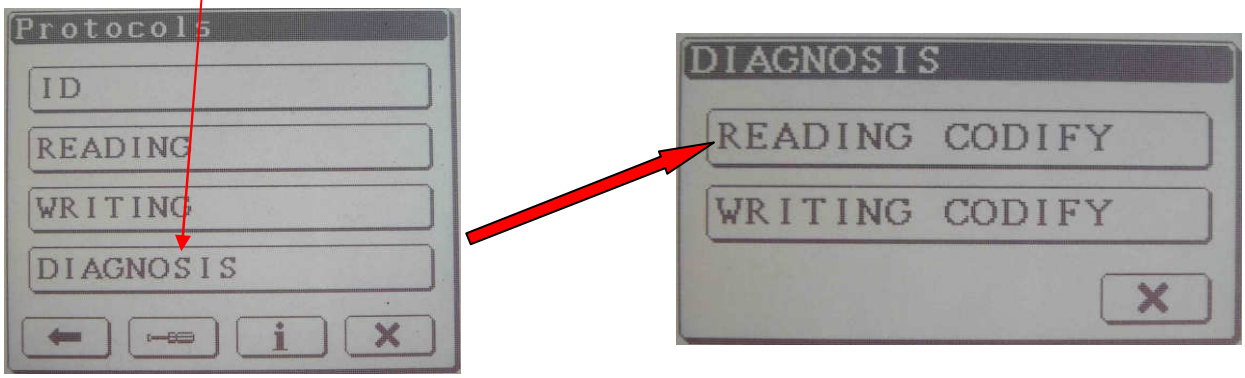


or cable 2008

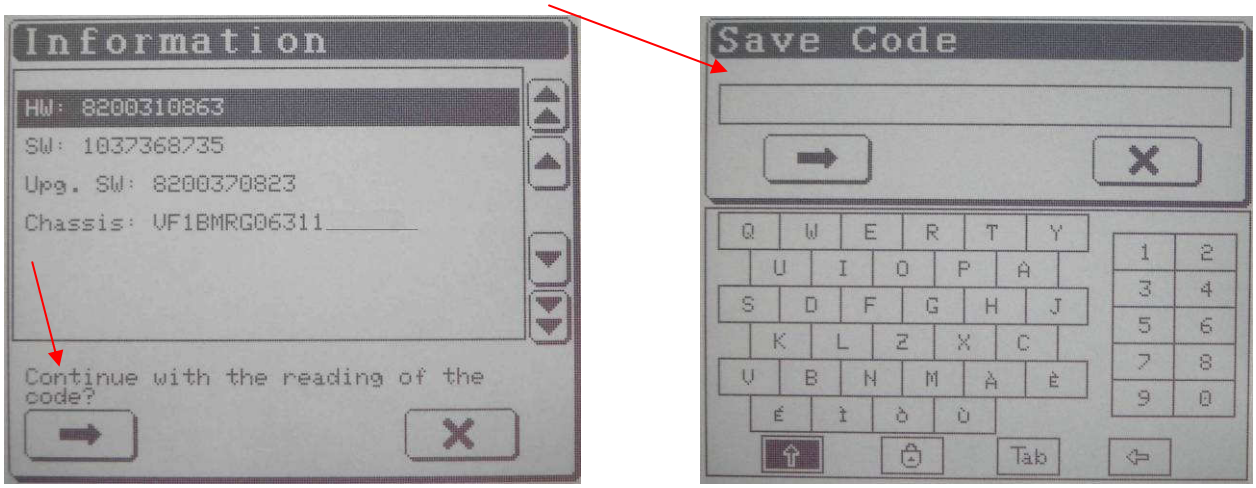
APPENDIX B (Specific Procedures)

FLASH_0071 (RENAULT BOSCH EDC16 C0/C3)

FLASH_0071protocol for ECU Reanault Bosch EDC16 C0/C3 has been studied to solve the problem with the injectors codification.
To work properly and manage a correct modification on ECU Reanault Bosch EDC16 C0/C3 **it is obbligatory to make the serial operations (reading and writing in ECU) with cold engine and it is necessary to follow the sugested procedure**:
1 – after connecting Genius to OBDII socket the first operation to do is the reading of injectors code:
open the protocol FLASH_0071 in this way
Work→Vehicles→select the correct vehicle *otherwise*
Work→ Protocols→ select the protocol FLASH_0071
Select the button CODING and continue with the READING of the code

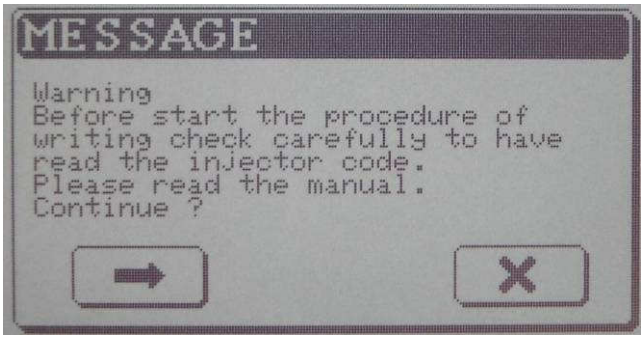


2 – A window will show the Informations of the, continue with the reading. Then you will have to save the code file with name.



3 – after reading the injectors code it is possibile to read the whole file of ECU, export i tinto Race EVO and manage the modifications.

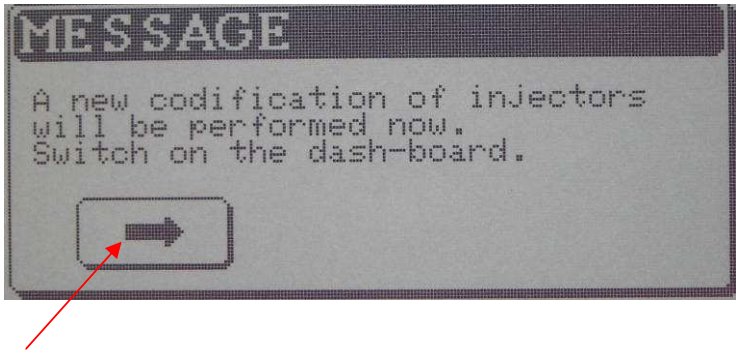
4 – After the modifications you have to export the mod file from Race EVO into Genius in order to write in the ECU. Follow the procedure for serial writing as described at pa. 13 Chp. 9.3
When you choose the correct .mod file to write a message will appear:



N.B.
It is necessary to read the injectors codes before writing procedure, If you do not have read out the injector codes you MUST do it right now aborting the procedure of writing and following the instructions at pg.39

If you have already read the injectors codes click on Continue.

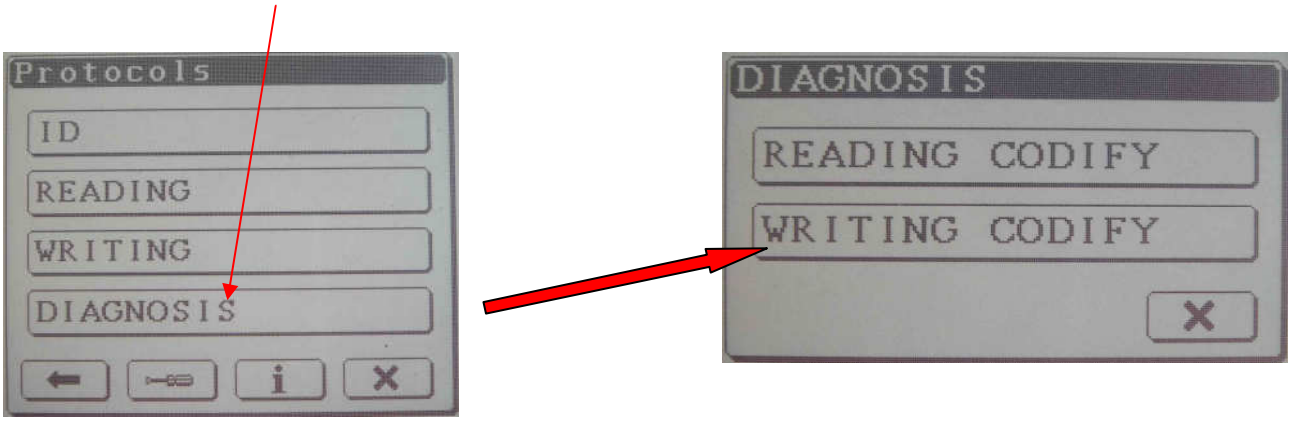
5 – When the Writing procedure is started follow the messages of switching ON/OFF as required.
Genius will automatically read the injectors codes setting it in RAM memory, then it will proceed with the writing of .mod file until a message will appear:



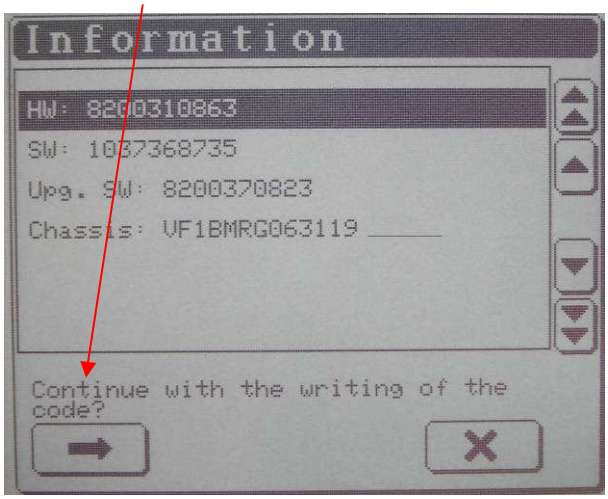
Select Continue and Genius will proceed with writing back the injectors codes file.
At the end of writing will appear this message:

ATTENTION
If there are interruptions of communication during writing procedure, or something that blocks the correct automatic writing procedure of injectors codes and the car does not start it will be necessary a manual writing procedure of injectors codes. For this operation please read the following procedure:

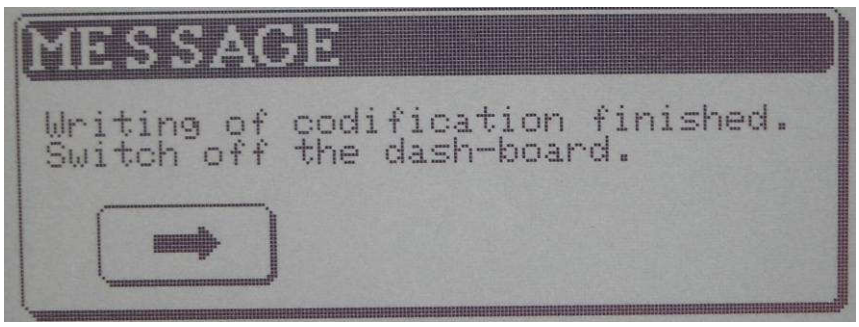
1 – open protocol FLASH_0071 in this way
Work→Vehicles→select the correct car *otherwise*
Work→ Protocols→ select the protocol FLASH_0071
Select the button CODING and run the WRITING procedure of codes



Now select the correct injectors codes file saved before inside the folder COD, if you are not sure of what file choose please check the chassis number witten in the Information window.
To proceed please click on Continue.



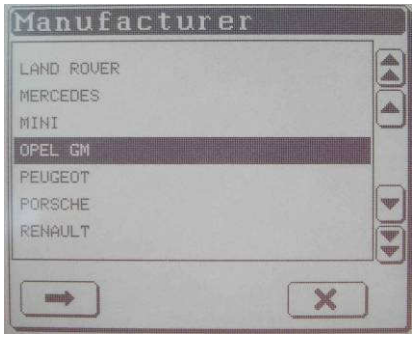
After the end of writing injectors codes procedure Genius will display this message.

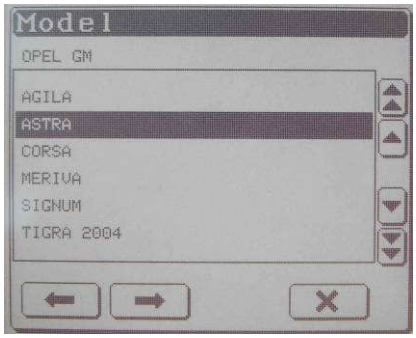


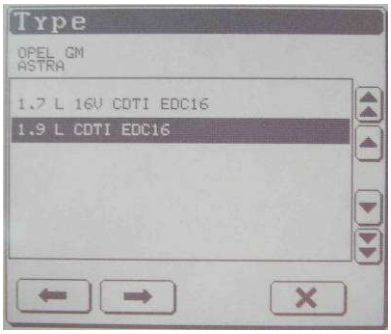
FLASH_0090 (OPEL BOSCH EDC16C39)

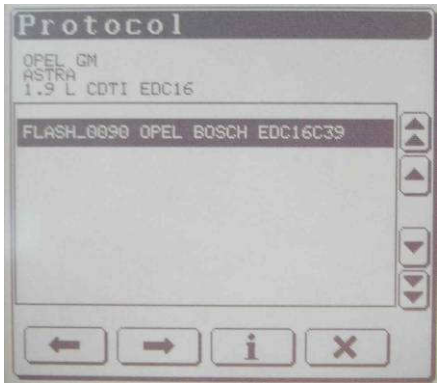
FLASH_0090 protocol for ECU Opel Bosch EDC16C39 cannot read the file inside the ECU but it has been studied to run a verify between the file inside ECU and the original file present in the corresponding setting file.
It is necessary follow the procedure:

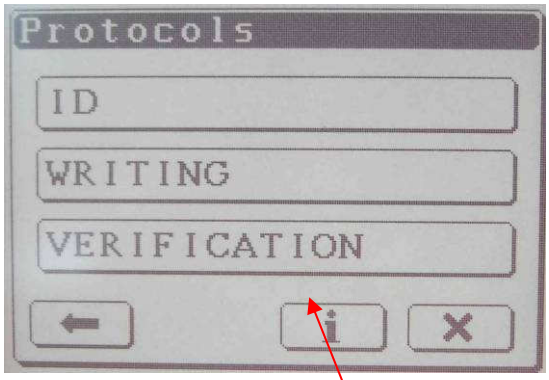
1 - make Identification and with the ECU numbers search for the corresponding setting file in data bank.
2 - download the correct setting file in Race EVO, then export the .ORI file on Genius
3 - after connecting Genius to OBD II socket enter into the menu of the FLASH_0090 protocol in this way:
Work→Manufacturer→Model→Type→ select the corect vehicle *oppure*
Work→ Protocols→ select the protocol FLASH_0090



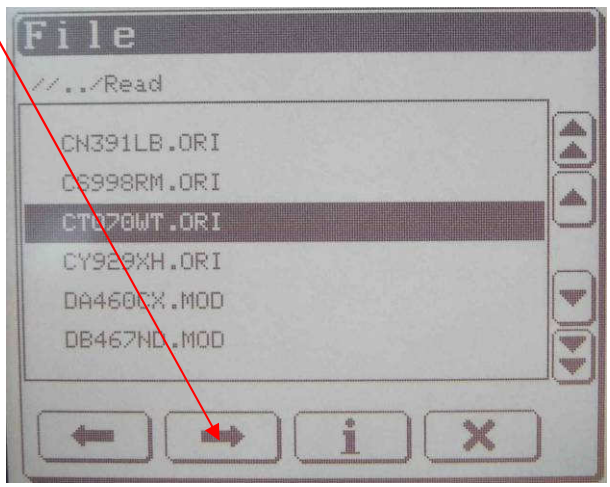




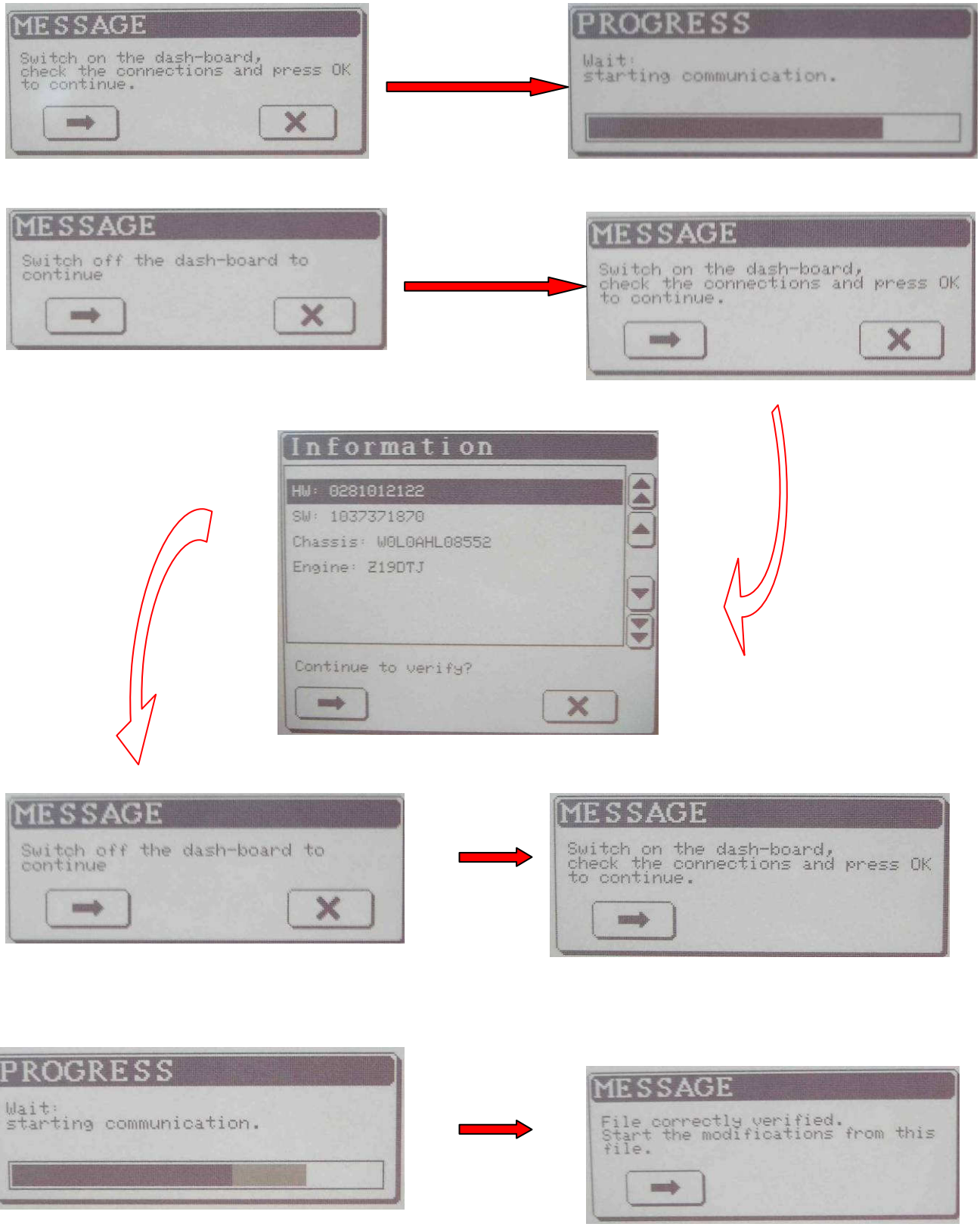




4 - once entered in the menu protocol it is necessary to select the button Verification.
In the next window you have to select the file .ORI that you saved before in the folder Write, click on the button Continue to run the Verification between the two files.



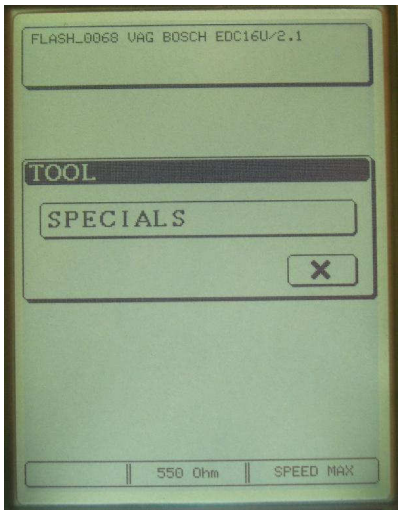
5 - now a sequence of messages will ask you to switch on and off the dash-board, follow the instructions and the requests clicking on the button Continue until it will join the end of the verification.
If Verification is OK Genius will ask to execute the modification starting from the selected .ORI file.

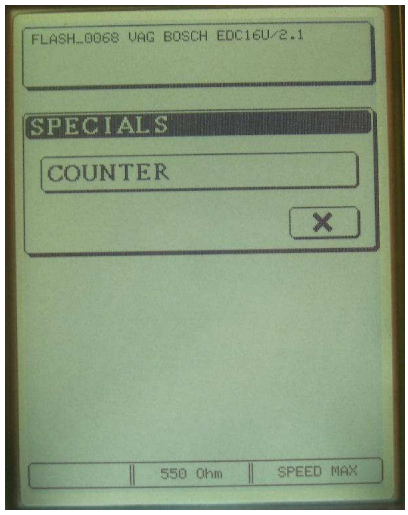


APPENDIX C – VAG COUNTER RESET

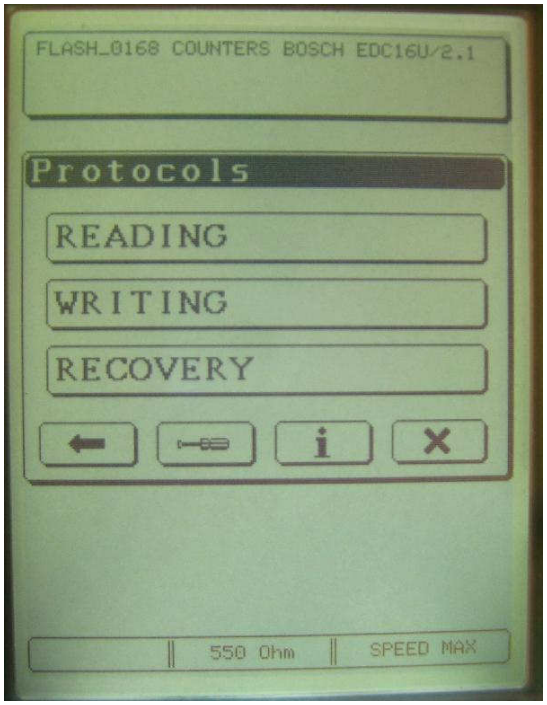
VAG COUNTER RESET is an optional feature not included in any contract, in order to have it please contact directly the commercial department.

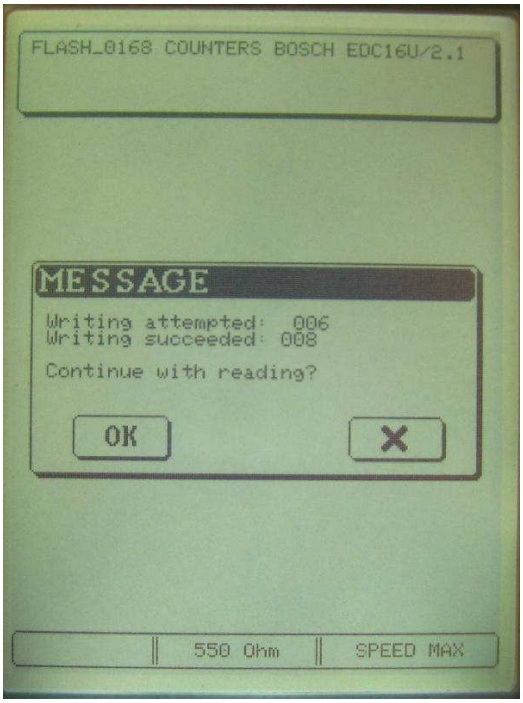
Select TOOL → SPECIAL → COUNTER



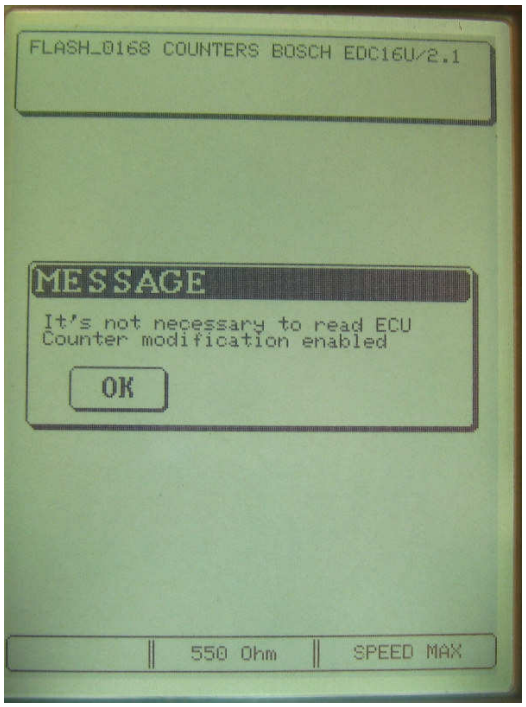


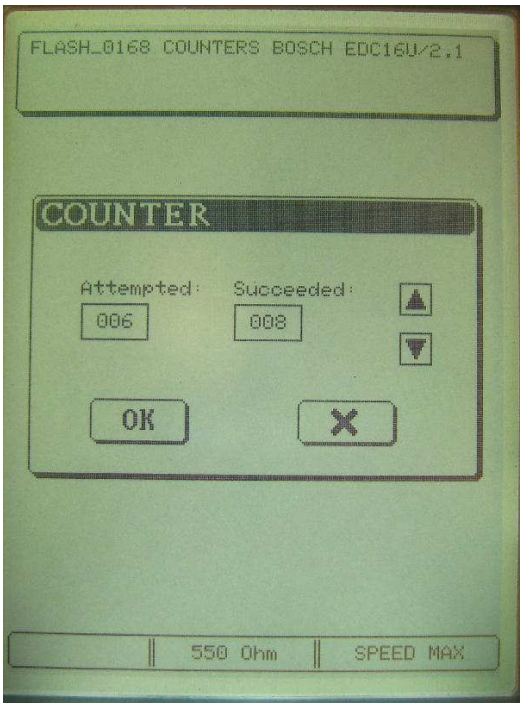
READING
The first time you want to work with counters wuo will have to READ and WRITE a part of the FLASH and of the MICROPROCESSOR.At the end of the reading save this file in Genius. The reading mode starts only if the PATCH FILE is NOT found in the ECU.





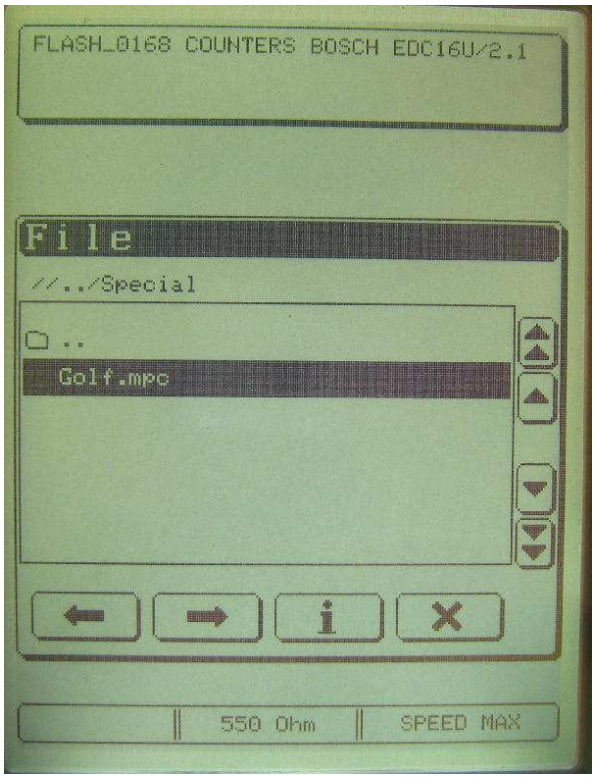
If the PATCH FILE is already present in the ECU you can directly modify the counter by clicking on READING button.

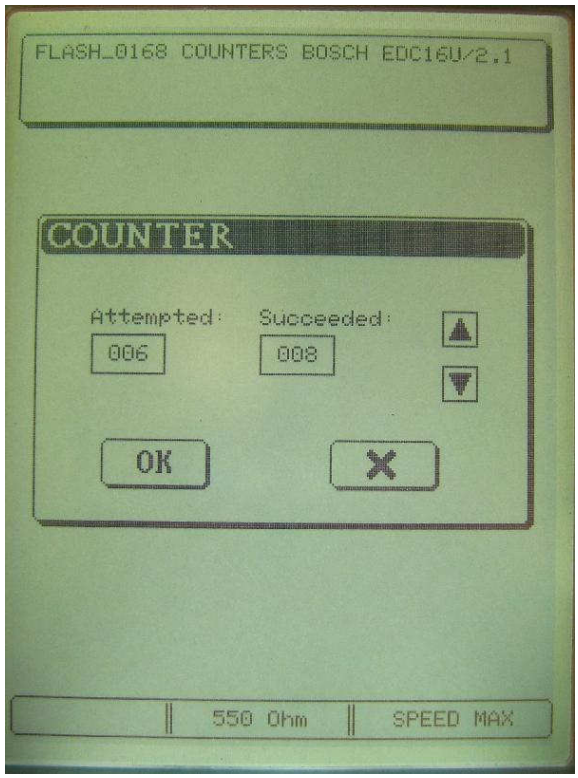




FIRST WRITING

In order to modify the counter the first time you have to program the ECU with the PATCH FILE. Select the file read, correct the value for succeded writings and press OK. ATTEMPTED counter will be automatically aligned with SUCCEDED.





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