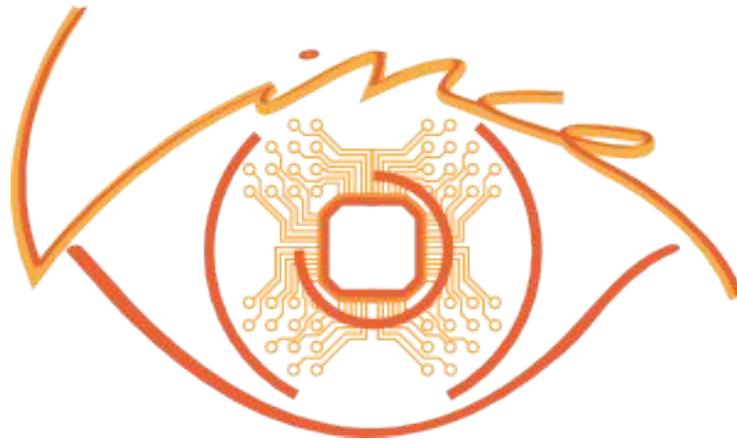


Lince User Manual 1.0



08/05/13

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Introduction

The tool gives you the possibility to copy the configuration of a damaged unit into one in good state, or to vergin/reset an used unit, maybe bought from the scrap merchant.

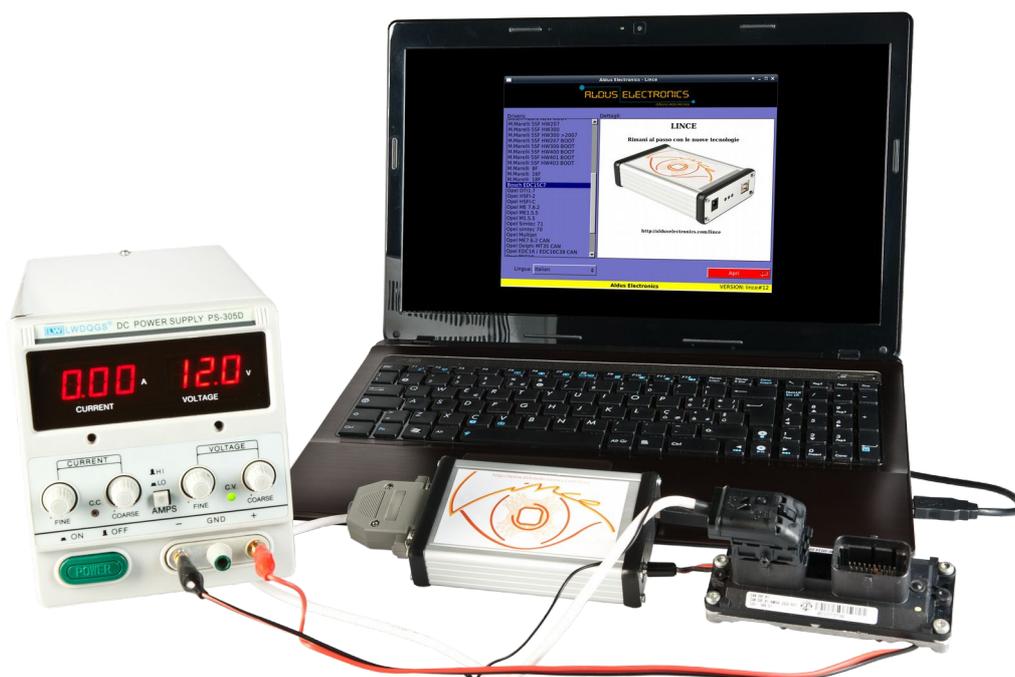
The copy of configuration consists in the complete read/write of the unit (FLASH + EEPROM), when it is allowed by the unit.

It's possible to read / write the odometer value directly from the EOBD plug!
Read within the single drivers for further details.

You can also access to body computer EEPROM memory.

The product includes all the wires for the connection of the units off-board and also an OBD cable.

In this manual you'll find all the details to operate correctly with the product.



Kit contents

The product include this components, that will be described below.

- The communication interface, composed of an aluminum case with USB, Jack and DB-25 connectors. Also there are 3 LED for activity information.
- A Jack red/black cable for power supply.
- An USB cable for PC connection.
- An EOBD cable
- An universal cable
- A cable for Magneti Marelli 16F
- A cable for Magneti Marelli 59F
- A cable for Bosch M155
- An USB key drive for the software and manual.



Connections

Power supply

For the correct supply of the tool, if you are working on bench, it's recommended to have a stabilized power supply, preferably with voltmeter, amperometer and current limiter. This helps to diagnose possible defects in ECUs.



The power supply cable has two wires, one Black and one Red, that match the ground and +12V. It's recommended to connect first ground and then +12V.

Note: it's important to not feed the circuit with more than 14V

If you are working in OBD, it's necessary that the car is not connected to a battery charger or started, you can otherwise damage the tool.

USB

It's recommended to connect the USB to the main ports, and not through a HUB. At least USB 2.0 port is required.

ECU

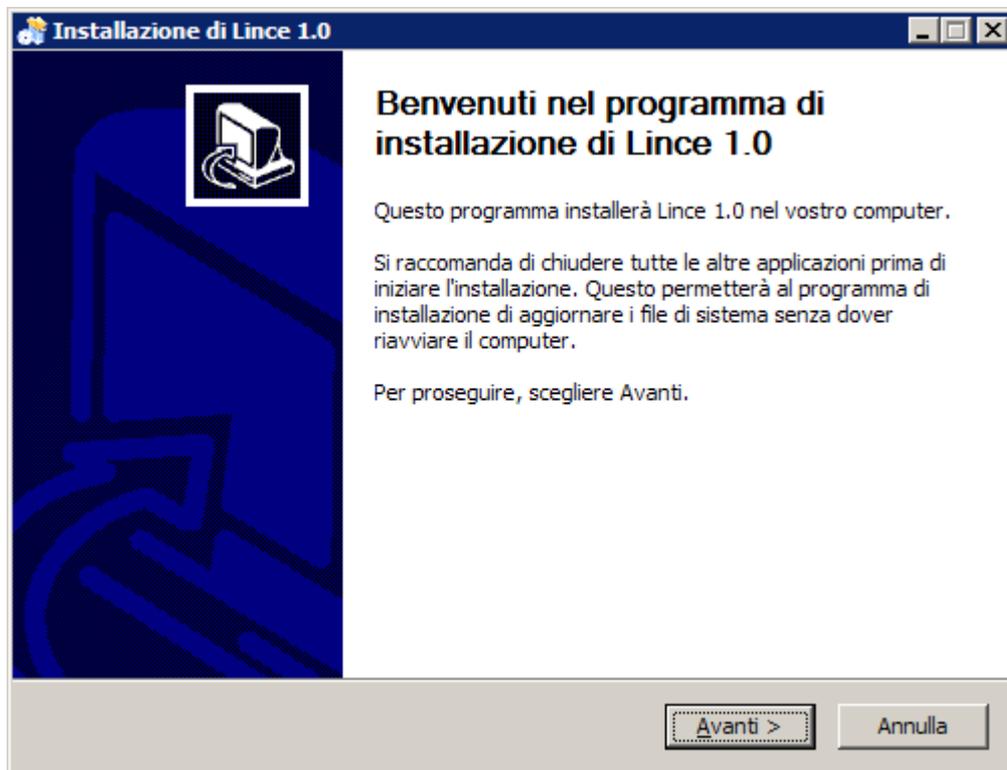
It's preferred to wire the ECU with the supply off, or at least not have active connections in software (See "Connect" button).

Take care to not allow free wires around ECU to avoid short circuits.

Software installation

Setup

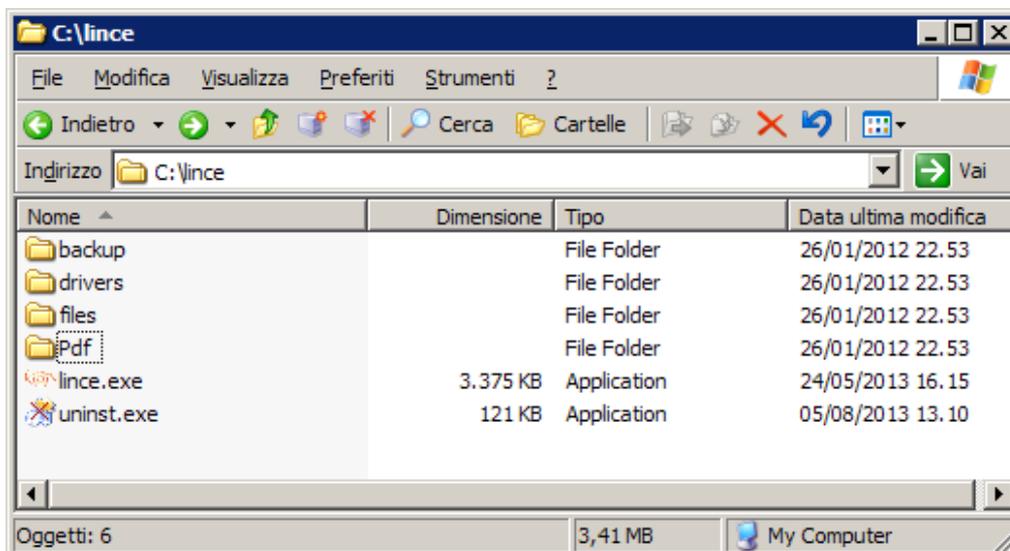
Insert the USB key and start the program XXXX.exe where XXXX is the product serial number.



Follow the installation steps.

Directory

It will be created a folder under c: named Lince (c:\lince).

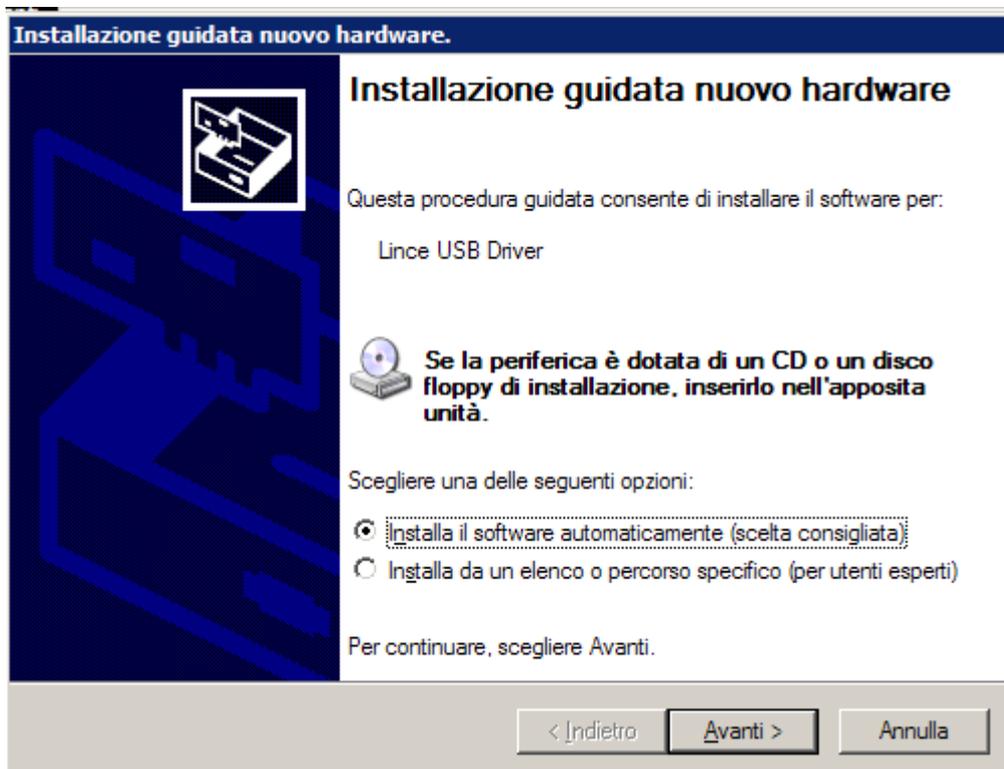


Inside you'll find the following files

- **lince.exe** The lince software
- **uninst.exe** To uninstall lince
- **files/** Here you'll eventually find original files for ECU's
- **backup/** under this directory lince saves automatically backup files of ECU's. If you loose some file you can look here.
- **drivers/** Driver for hardware (If windows ask for drivers, indicate this directory)
- **pdf/** Possible documents and manuals

Device drivers

When you connect the hardware, windows will notice you about new hardware.

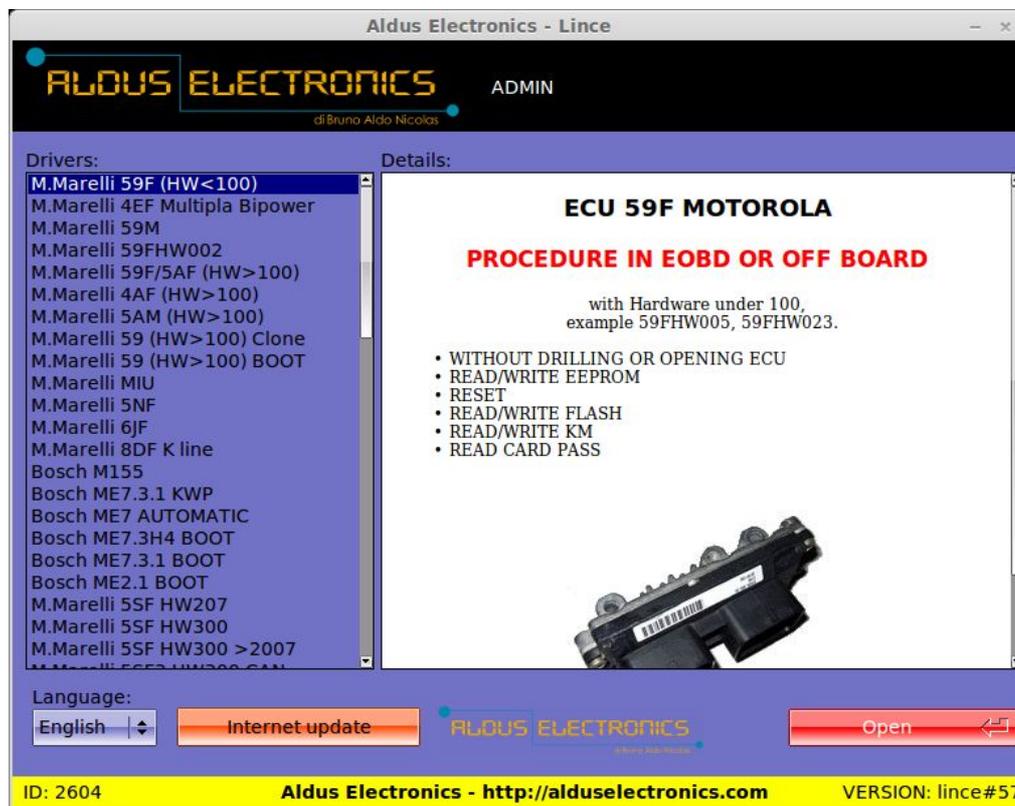


If it does not find the driver automatically, specify the directory c:\lince\drivers

The drivers work correctly with Windows 98 SE, Windows ME, Windows 2000, Windows XP 32bit, Windows Vista 32bit, Windows Vista 64bit, Windows 7 32bit, Windows 7 64bit.

Software operation

Main screen



Language select

Down on the left there's a drop-down menu where you can choose software language. To apply the new setting you need to restart software.

Internet update

Behind the language selector there is the Internet update button. Click on this button to check for software updates.

Driver select

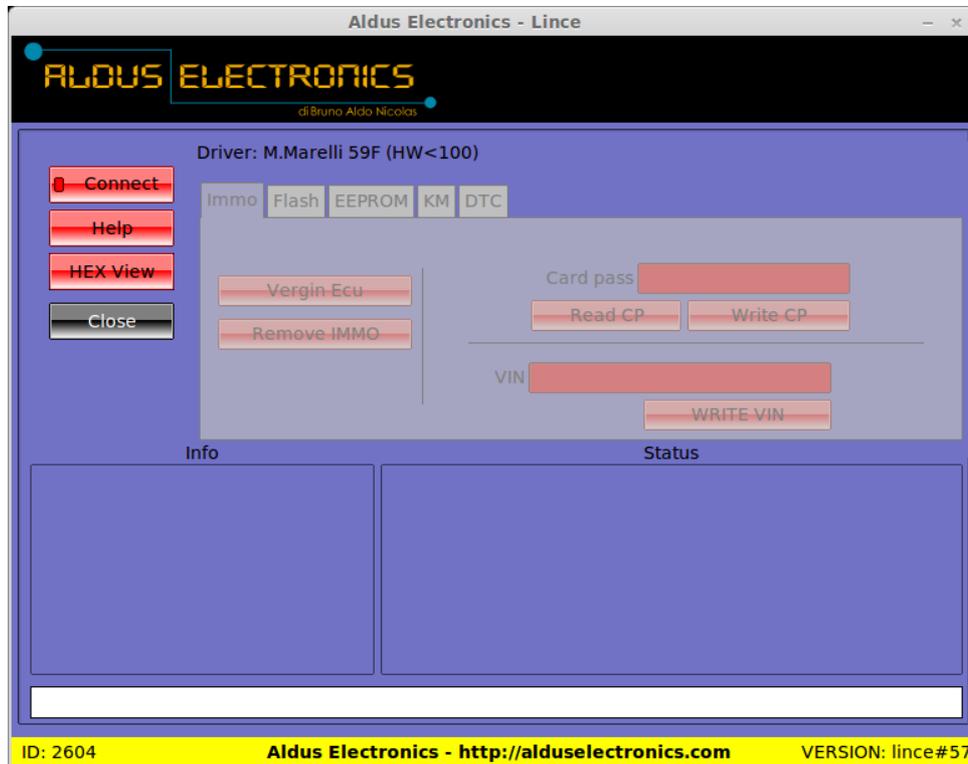
On the left side there is a List with supported drivers. Scroll the list to choose the desired one. Then on the right side you'll see some information about the driver, such as description, functionality and an image of ECU.

Once you selected the driver, you can continue clicking the red button Open.

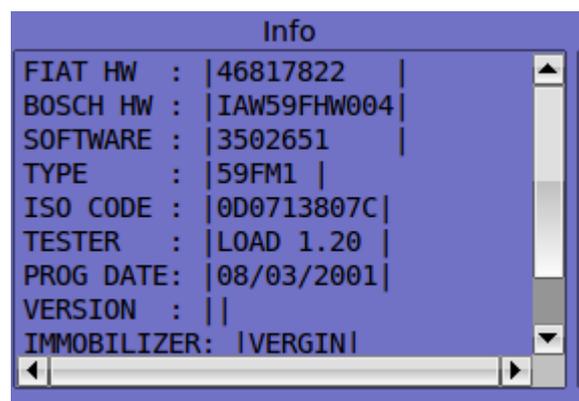
Driver screen

The driver screen is composed of the following blocks:

- On top there is the selected driver name.



- On the left there are the management commands (Connect, Help, HEX View, Close)
- On the right there is the work zone, where you can select operations and see the corresponding commands.
- Down on the right there is the ECU information



- Down on the right there is the message window, with the information about current operations.
- At last down there is the progress bar.

Management commands

- **Connect button** starts the ECU connection procedure. Enabling the 12V supply and Key outputs, requesting identification data.

If the connection success, the Connect button LED will turn on.

If you click the button again, Lince will disconnect the ECU and turn off all the outputs.

- **Help button** shows more information about selected driver, suggestions about operations and connection diagrams.
- **HEX View** shows rapidly the last read file with HEX and ASCCI

```

Aldus Electronics - Lince
ALDUS ELECTRONICS ADMIN
di Bruno Aldo Nicolas

*BUFFER*
miohex 0 1 2 3 4 5 6 7 8 9 A B C D E F 0123456789ABCDEF
00000000: 03 E4 03 E6 03 E3 03 B3 03 B6 03 1B 03 E8 3B 91 .....:
00000010: 6F FF F5 67 F5 BF FF DF 7F 3D 2F 6C 11 A0 04 04 o..g.....=/l...
00000020: 03 E4 03 E6 03 E3 03 B3 03 B6 03 1B 03 E8 3B 91 .....:
00000030: 7E FA DF FF DB DF FB 7F FD F7 FF F7 90 80 80 0B ~.....:
00000040: 00 10 98 80 28 81 30 03 00 00 20 30 F7 F7 59 1D ....(.0... 0..Y.
00000050: 34 36 38 31 37 38 32 32 20 20 20 40 41 57 35 39 46817822 LAW59
00000060: 46 48 57 30 30 34 00 33 35 30 32 36 35 31 20 20 FHW004.3502651
00000070: 20 20 00 00 35 39 46 4D 31 20 0D 07 13 80 7C 4C ..59FM1 ....|L
00000080: 4F 41 44 20 31 2E 32 30 20 20 01 03 08 00 FE 74 OAD 1.20 ....t
00000090: FF EE 00 00 00 00 00 00 80 FF FF 00 01 55 54 56 .....UTV
000000A0: FF FF FF FF FF FF 55 AD FF FF FF FF FF FF FF .....U.....
000000B0: FF .....
000000C0: FF 01 FF FF FF .....
000000D0: FF .....
000000E0: FF .....
000000F0: FF FF 55 CF FF ..U.....
00000100: FF .....
00000110: 00 00 27 11 00 FF 2E A8 FF FF FF FF FF FF FF .....
00000120: FF .....
00000130: FF .....
00000140: FF .....

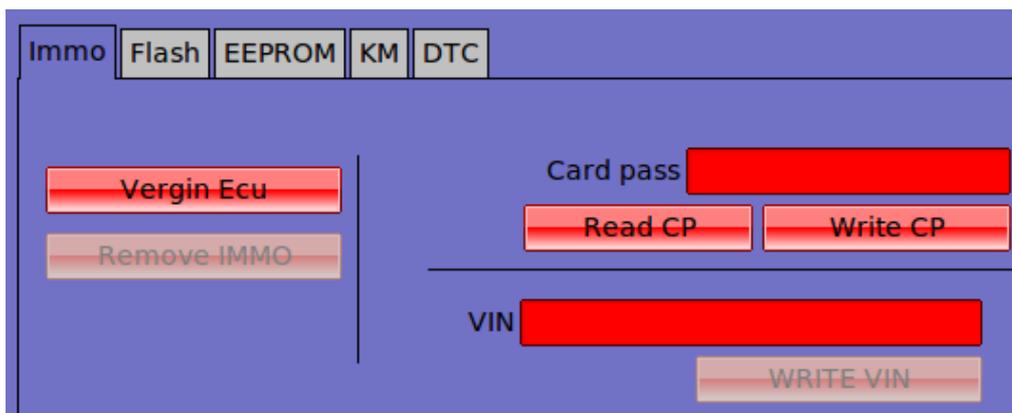
*- *BUFFER* 0% p:(5B)x (91)d s:(5B,5B,0)x (91,91,0)d S8:00 - S8:1D04 CRC:2B6B155D

Indietro
ID: 2604 Aldus Electronics - http://alduselectronics.com/lince VERSION: lince#57

```

- **Close button** Closes the driver window to return to the main window

Immo



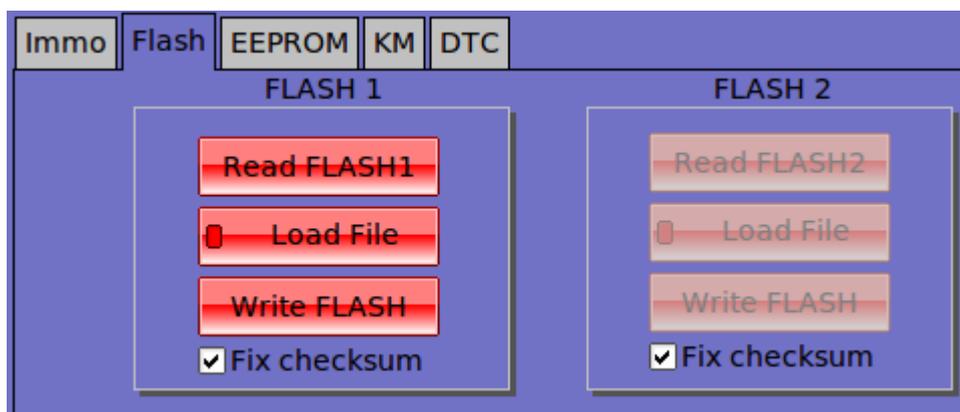
In this section there are 5 buttons:

- **Vergin ECU** starts the vergin procedure, bringing the immobilizer of ECU to original state.
- **Remove immo** currently not implemented.
- **Read CP** reads the emergency card code
- **Write CP** currently unlocks the immo for engine emergency start
- **Write VIN** allows to program the Vehicle Identification Number

FLASH

This section is divided in two frames.

FLASH 1 e FLASH 2 matching internal FLASH and external FLASH.



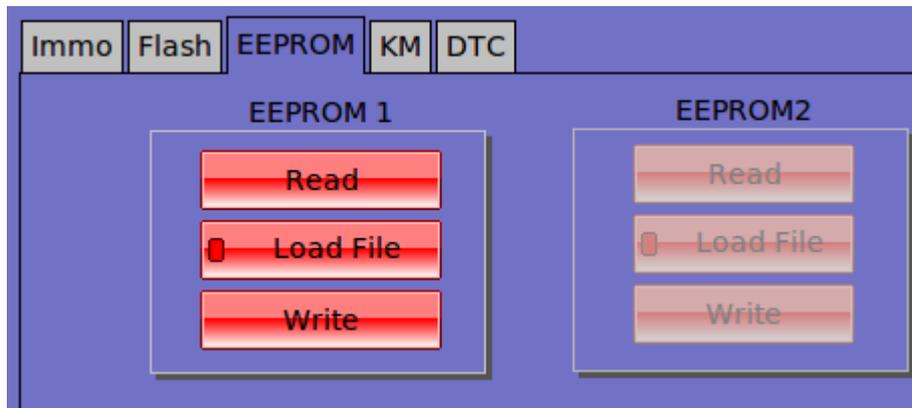
Each block has 3 buttons.

- **Read FLASH X** Reads the corresponding memory
- **Load File** Load the file to be written. The button LED will turn on if the file is valid. To unload the file click again the button, the LED will turn OFF
- **Write FLASH** Write the loaded file to the ECU

For each frame there is also a check-box to enable the automatic checksum fix.

Warning: If you load both files, or even an EEPROM memory from the other section, automatically **all files will be written at once.**

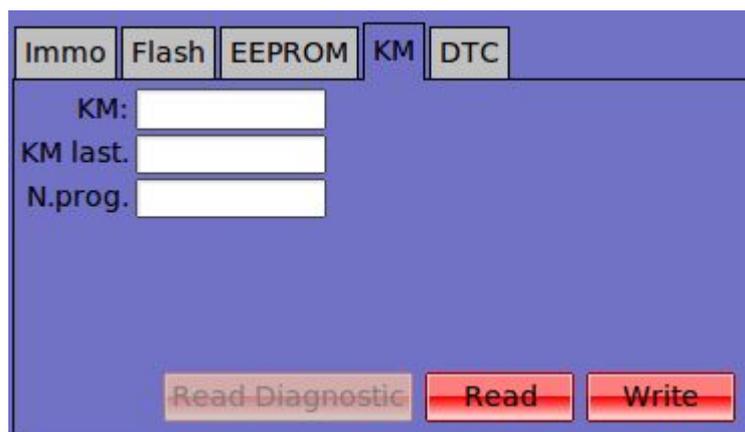
EEPROM



The functionality is analog to the FLASH, only there is no checksum fix box.

KM

This functions allows to align the mileage of ECU to the car mileage.



The box labeled KM is the total mileage, The box labeled Last p. KM is the last programming mileage (i.e. At time of software update). With the button Read you can read the current values, that will be shown in the boxes KM and Last p. KM. With the button Write you can write the values of the corresponding boxes.

DTC

The Clear DTC will delete the diagnostic trouble codes from ECU.

The Read DTC command is not currently implemented.

Declaration of conformity

According to EN 45014

Under our own responsibility, we declare that the product:

LINCE

as to which this declaration refers conforms to the following regulations:

- a) EN 55022
- b) EN 55024

as prescribed by the directive 89/336/EEC

Place of issue: ITALY

Date of issue: 20 February 2012

In good faith,



Aldo Nicolas Bruno