

***CG-PRO users
manual***

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1. Statement

Dear all valuable customer, thanks for choosing our CGPRO products. These instructions will give you a detailed description of equipment, software and features of this product. Before using, please read this instruction manual to help you understand. Please keep the following in mind before using:

CGPRO only can use for normal and legal equipment vehicle maintenance, please do not use it for illegal purposes;

If used illegally, user need to borne all risks and legal liabilities;

If used unreasonably, the user need to borne the data loss and damage;

This instruction manual will try our best to introduce CGPRO for you. If have any questions, please consult before and after sales.

2. Precautions

To avoid damage the equipment, vehicles and property, please observe the following precautions:

Before soldering operation, to avoid short-circuiting, please ensure

the device and each electronic parts are in a power-off;

Please solder and operate equipment in a static-free environment;

Please do not place the device in a humid, ash, or direct sunlight environment for long times. and not stress, fading, or immersing equipment.

Before operating the equipment, to avoid damage to the equipment or electronic parts, please confirm the correctness of the wiring .

Please do not connect to a inconsistent specifications power supply;

Please be cautious to avoid damage to equipment and electronic parts caused by negligence.

3. Equipment introduction

3.1 Glossary

EEPROM : refer to an programmer memory with electricity, can wipe and program. It is a memory chip that does not lose data after power off.

extFLASH : External non-volatile memory.

intFLASH : Internal non-volatile memory.

DSLASH : Data flash memory for storing chip data.

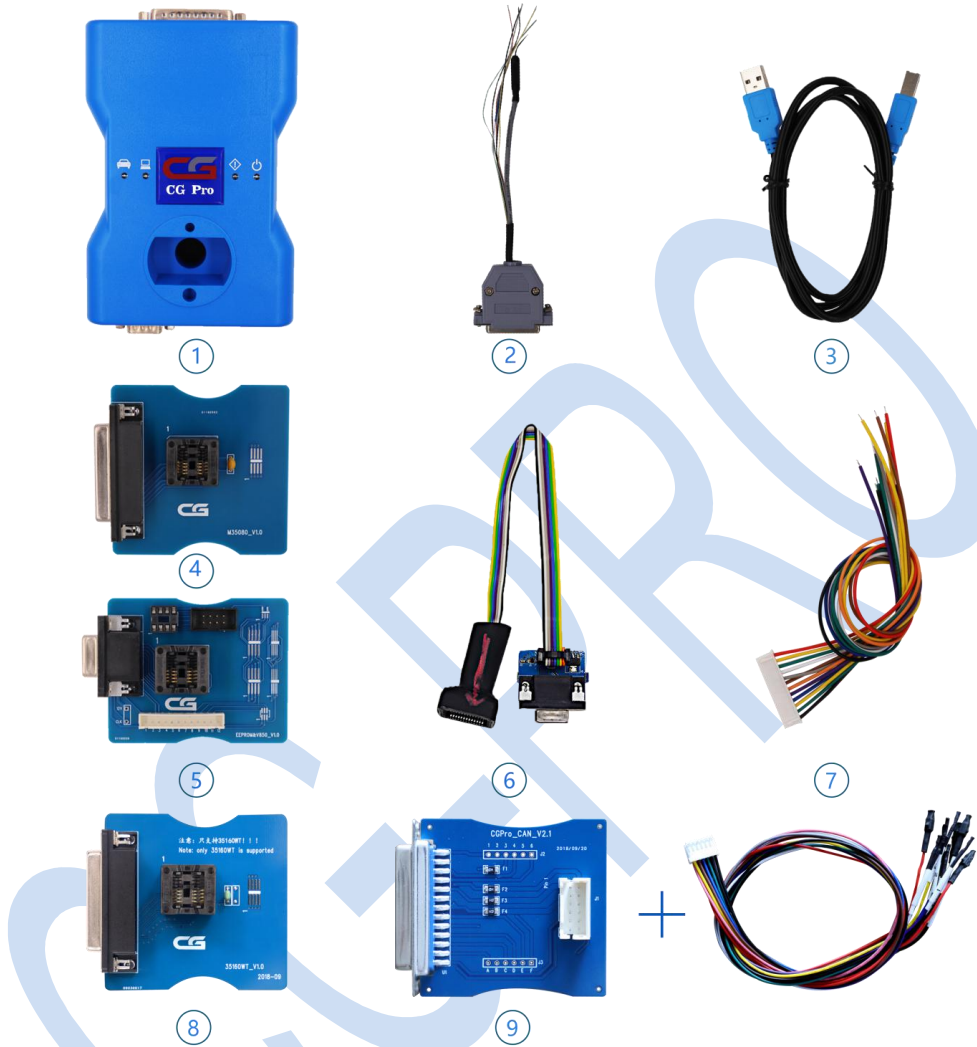
PFLASH : Program flash memory for storing chip programs.

Partition : 9S12XE series unique operation, used for EEPROM and DFLASH capacity size setting.

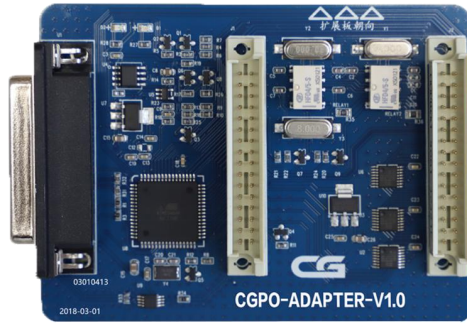
Decryption : Some chips have unique operations, which can change the chip from inoperable FLASH to operate flash, and clear all data in FLASH.

Encryption : Some chips have unique operations, which can change the chip from unencrypted state to encrypted state, and the data has not changed.

3.2 Product List



- ① CG-PRO Host
- ② DB25 Adapter
- ③ USB Cable
- ④ M35080 Adapte
- ⑤ 8 Pin/V850 Adapter
- ⑥ HC711 Adapter
- ⑦ 12P Cable
- ⑧ 35160WT Adapter
- ⑨ CAN Adapter



⑩



⑪



⑫



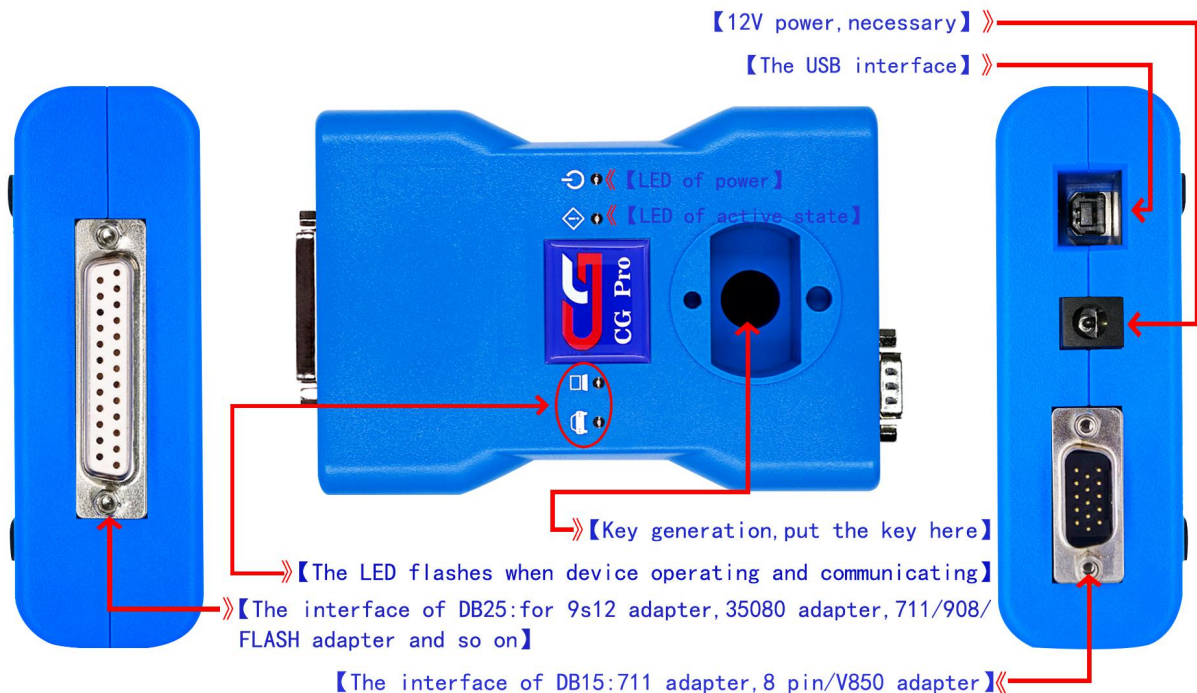
⑬

CGPRO Integrated adapter: (Optional, need to separately purchase)

- ⑩ CG-PRO expanding board
- ⑪ AM29BLXXX adapter
- ⑫ AM29FXXX adapter
- ⑬ HC705/908 adapter

3.3 Host interface Introduction

Following is an introduction to the CGPRO host interface. It is recommended that customer connect the connected line of the DB25 cable to the device firstly, and then connect the 12V cable and USB cable in turn. This sequence is safer to prevent equipment from damage.



3.4 Main functions

1. Support various kinds of encryption chips, powerfully crack, steady fast
2. Adopt high-end technology, real-time monitoring to prevent data loss
3. Used for the high-end cars such as Mercedes-Benz, BMW, Land Rover, Jaguar, Porsche, Audi, etc., it is favored by their peers
4. BMW Instruments 35160WT and 35128WT World Premiere
5. Used for various anti-theft computers, such as BMW CAS, Mercedes-Benz EIS, Porsche BCM with clear wiring diagram, guided operation, this device is simple and convenient
6. With independent intellectual property rights, we can increase the module chip arbitrarily according to customer needs

This product is powerful, stable and safe to operate, and excellent cost performance. Mainly supports the following features:

- Support reading and writing of anti-theft computers for Mercedes-Benz, BMW, Audi, Porsche, Jaguar Land Rover, Roewe, and MG;
- Support intelligent tuning instruments for Mercedes-Benz, BMW, Volvo, Honda, Hyundai, Kia, Suzuki, Changan and other models;
- Support smart computer reading and writing repairs of Jaguar Land Rover, Volvo and other models;
- Support reading and writing repairs of ECU such as Delphi;
- Support reading and writing repair of gateway computers such as Mercedes-Benz;
- Support key matching of BMW, Jaguar Land Rover and Porsche;
- Support reading and writing repair of Mercedes-Benz W221 LU computer;
- Support reading and writing repair of BMW footstep space computer, F series SZL module ect
- Support reading and writing repair of Audi direction lock computer;
- Supports professional programming of MCU such as NEC, MC9S12, mc9s08, HC (7) 05, HC (7) 11, HC (9) 08, HC (9) 12, Fujitsu, microchip, etc., and memory chips such as parallel admflash, m35080, 8-pin chip, etc.

4. Software introduction

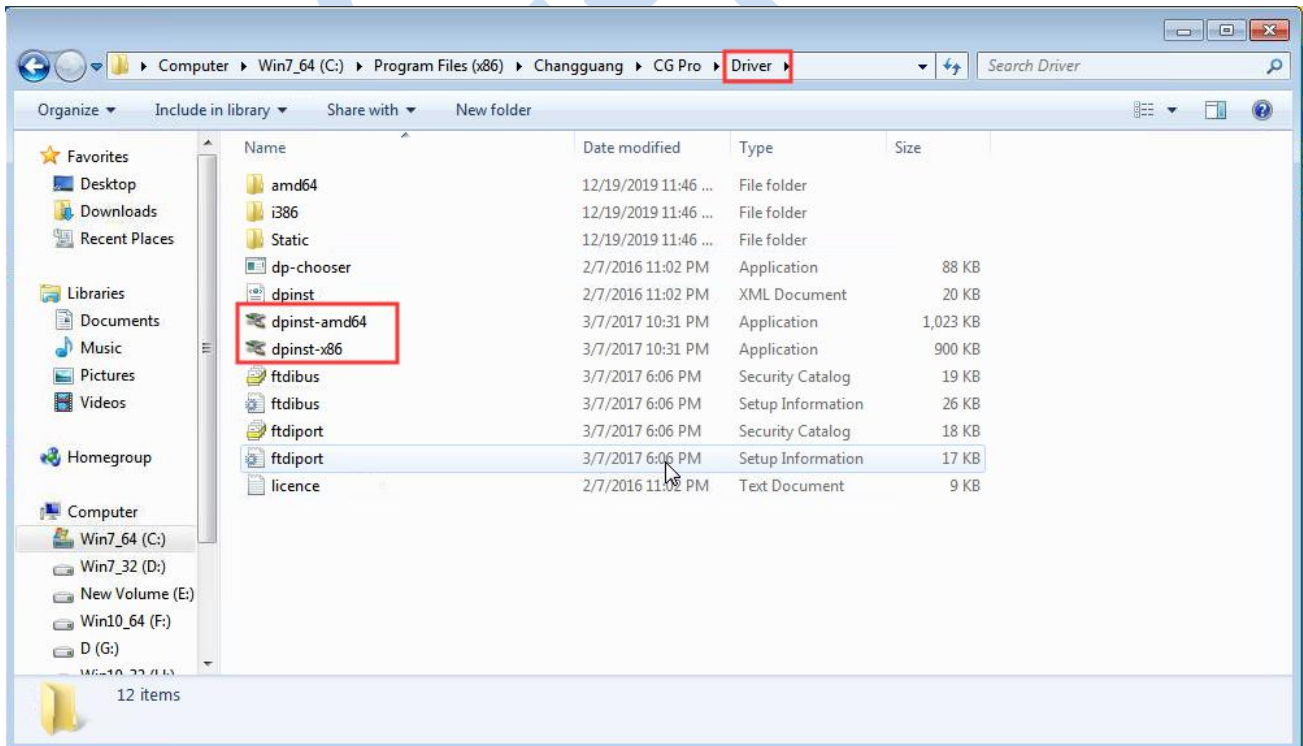
4.1 Driver Installation

After installing CGPRO, first time opening the software, it will pop up automatically the driver installation wizard. Just install it step by step according to the operation. The installation wizard is shown as below:

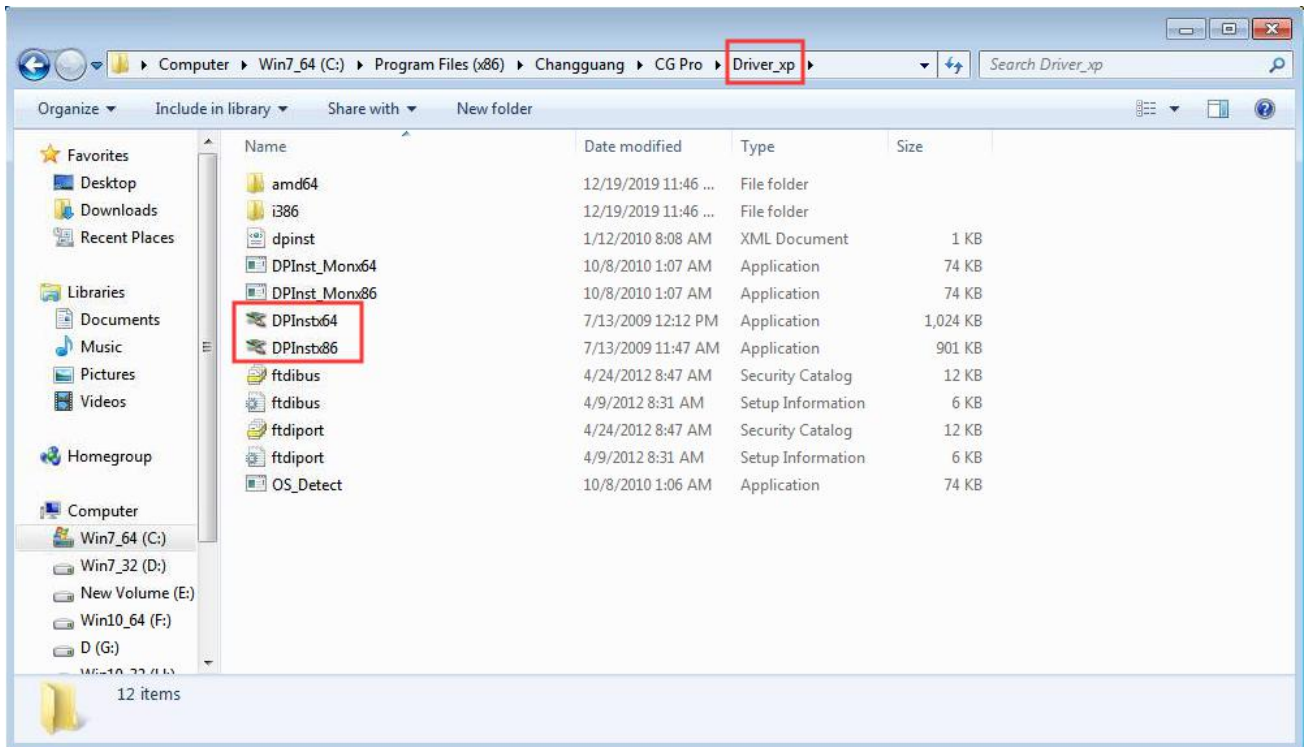


If the driver does not work properly, or the device cannot be connected, etc problem, and need to reinstall the driver, you can manually install it by finding the installation package in the installation directory.

For systems with WIN7 and above, please look for the installed drivers in the Driver folder. The 64-bit system is equipped with dpinst-amd64.exe; the 32-bit system is equipped with dpinst-x86.exe. As shown below:

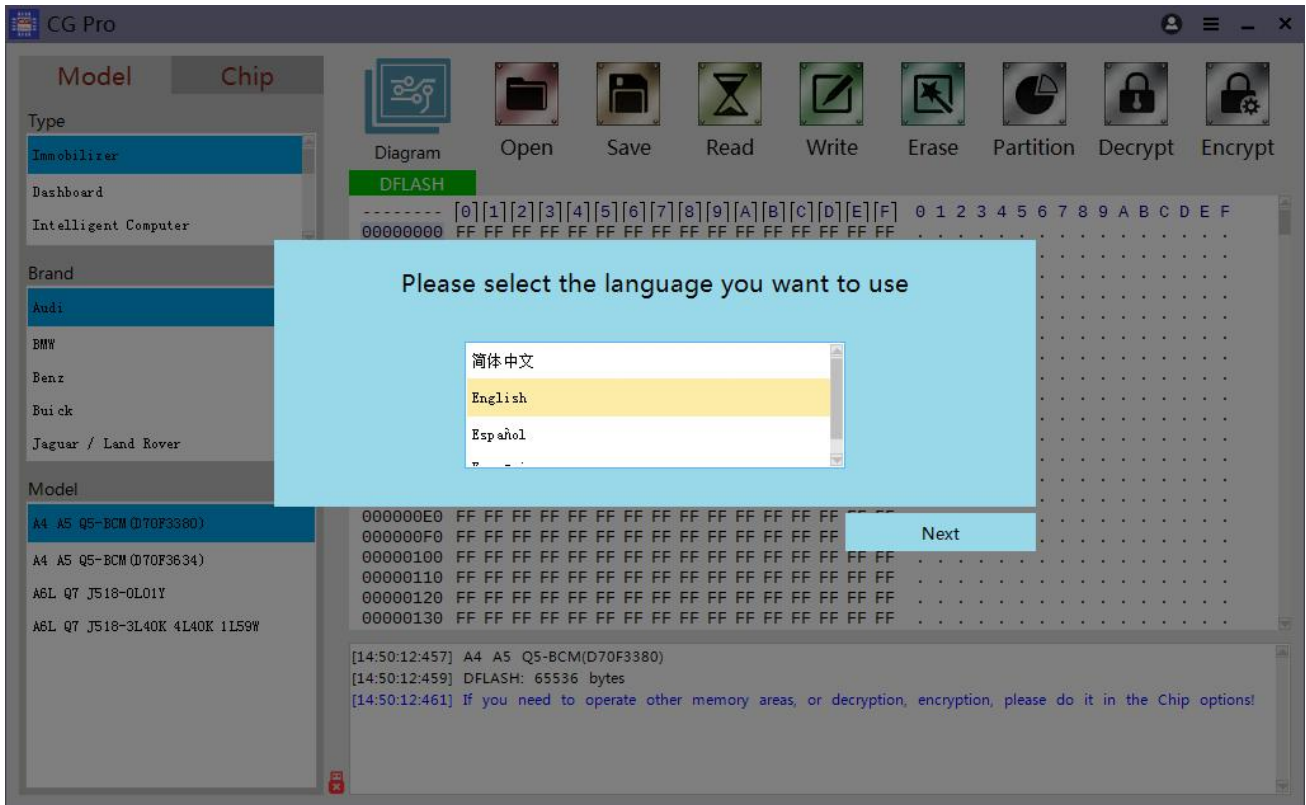


For the WINXP system, look for the installed driver in the Driver_xp folder. The 64-bit system is equipped with DPInstx64.exe; the 32-bit system is equipped with DPInstx86.exe. As shown below:

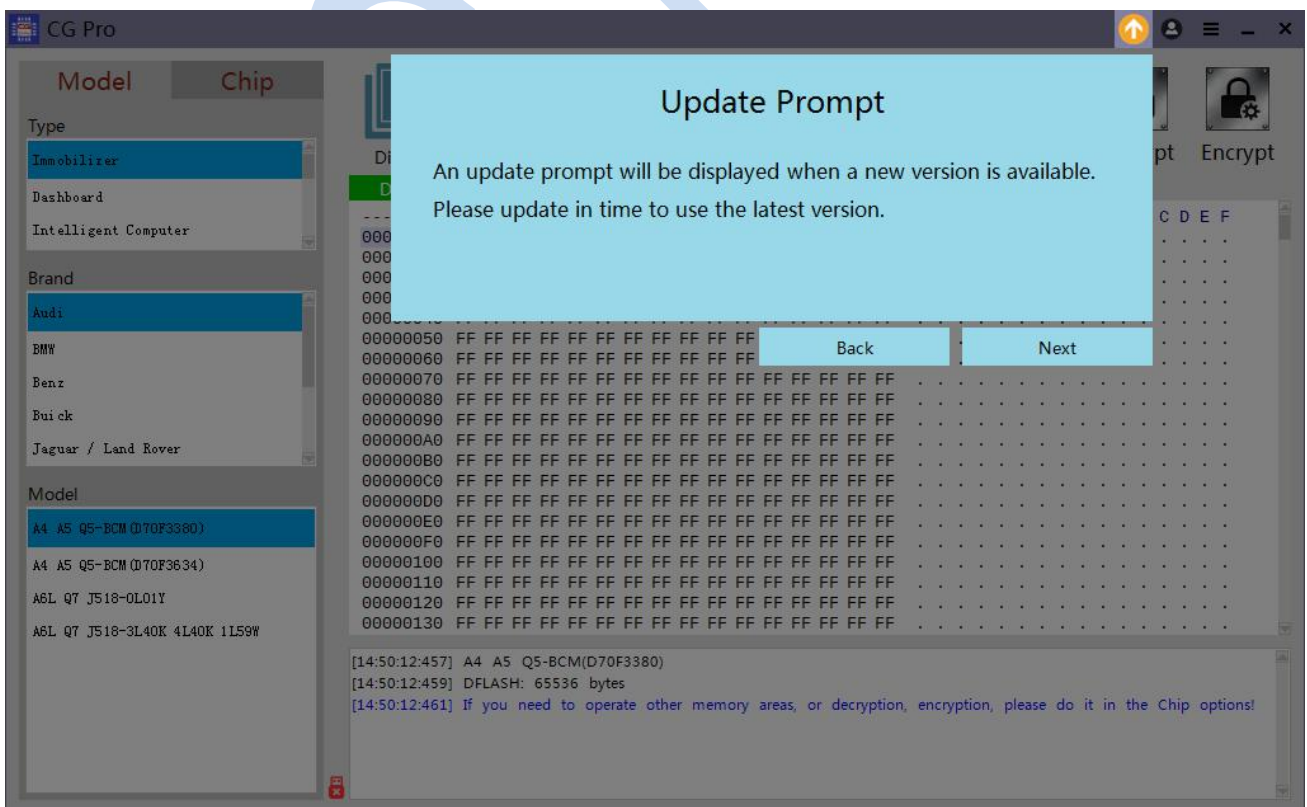
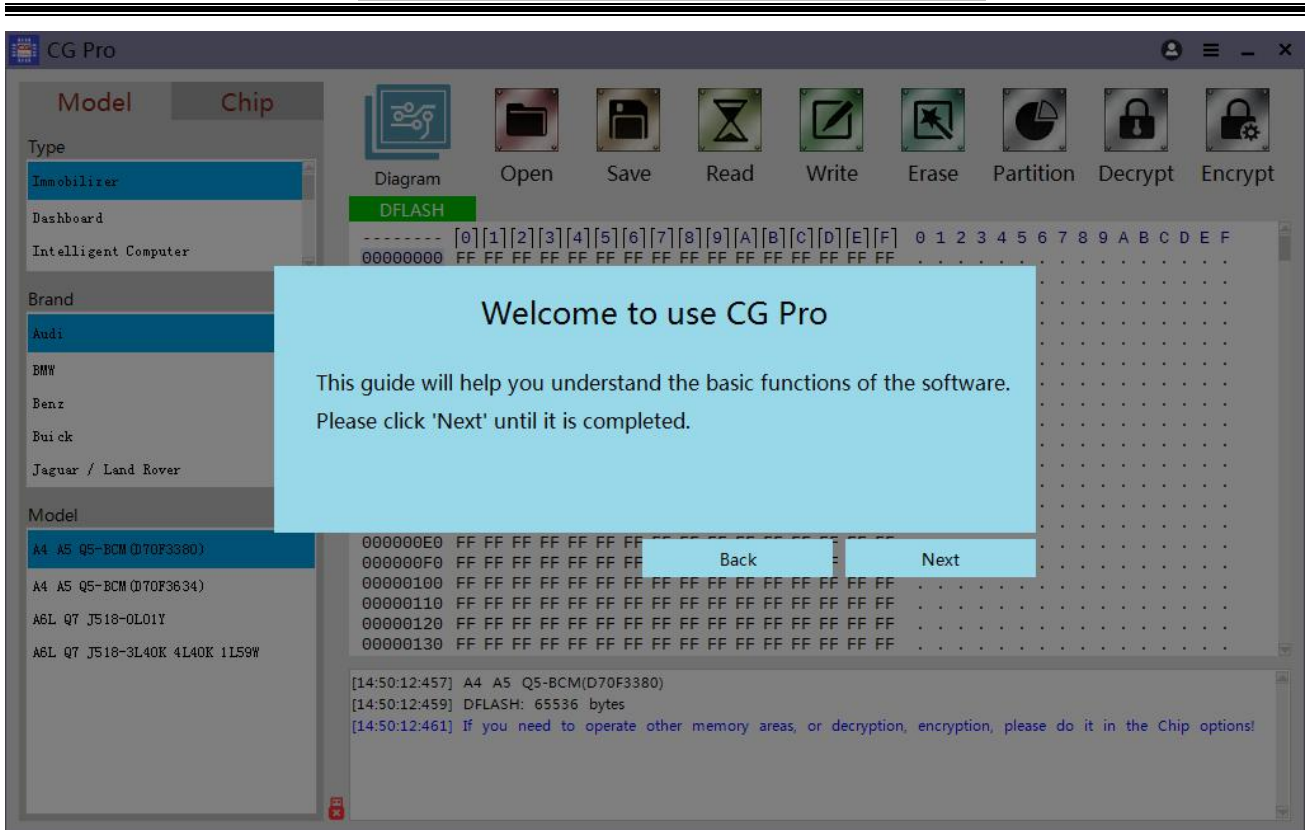


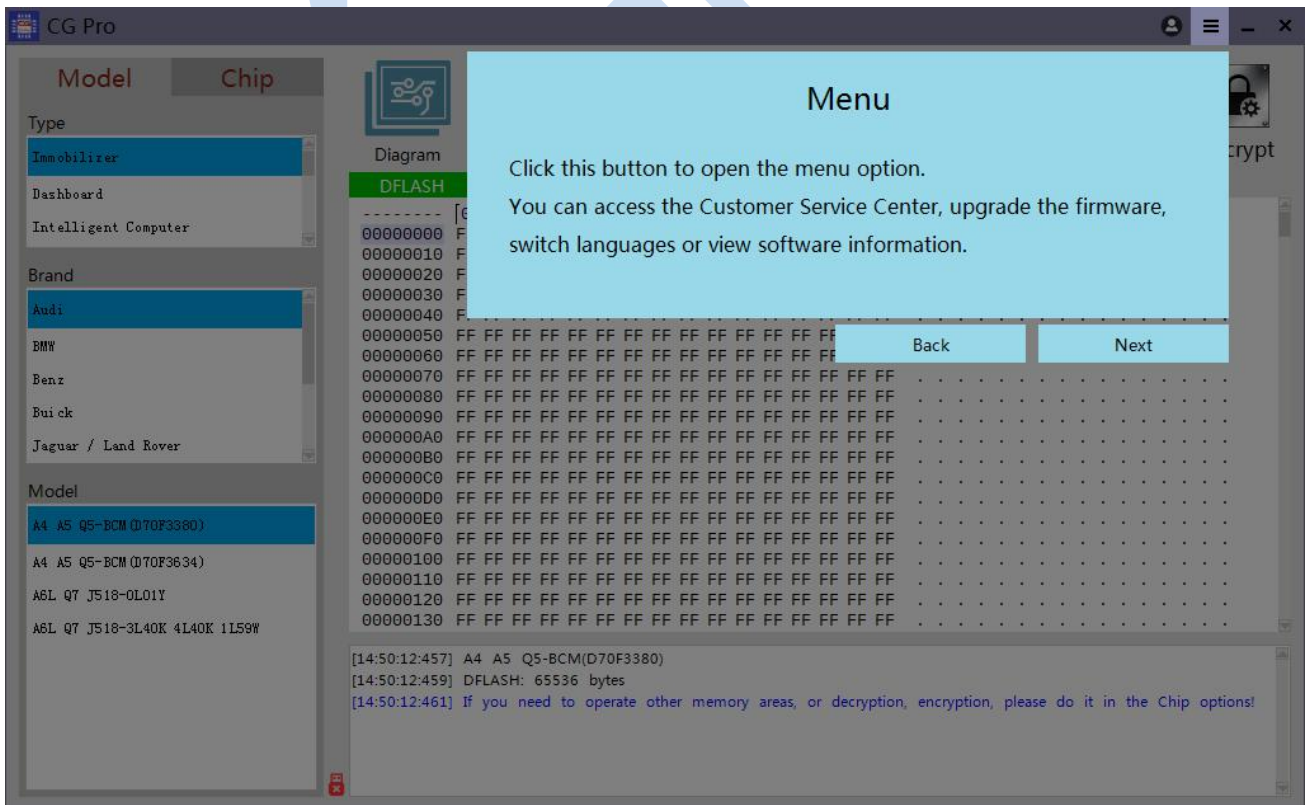
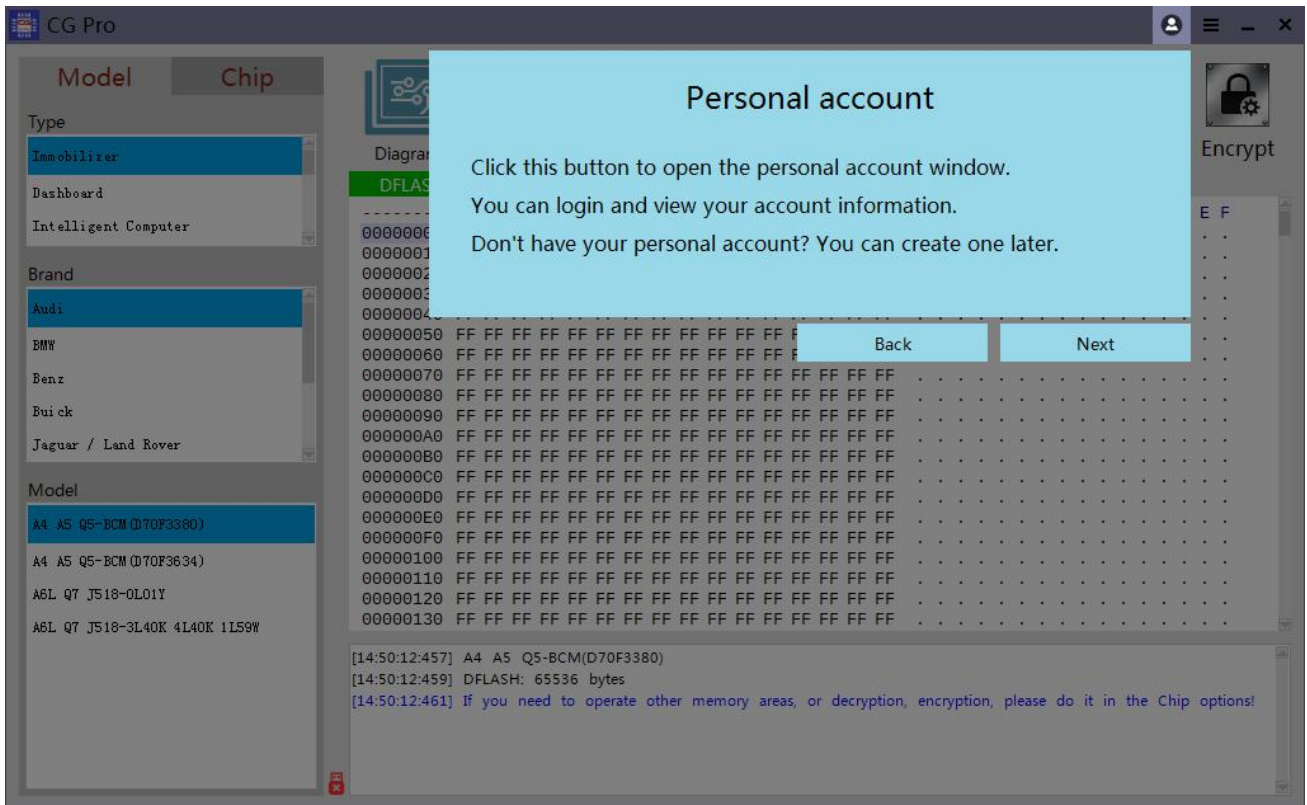
4.2 Software wizard

When firstly opened, there are the installation driver wizard and software introduction wizard. the software wizard will probably show you how to use the CGPRO software. As shown in the following picture:

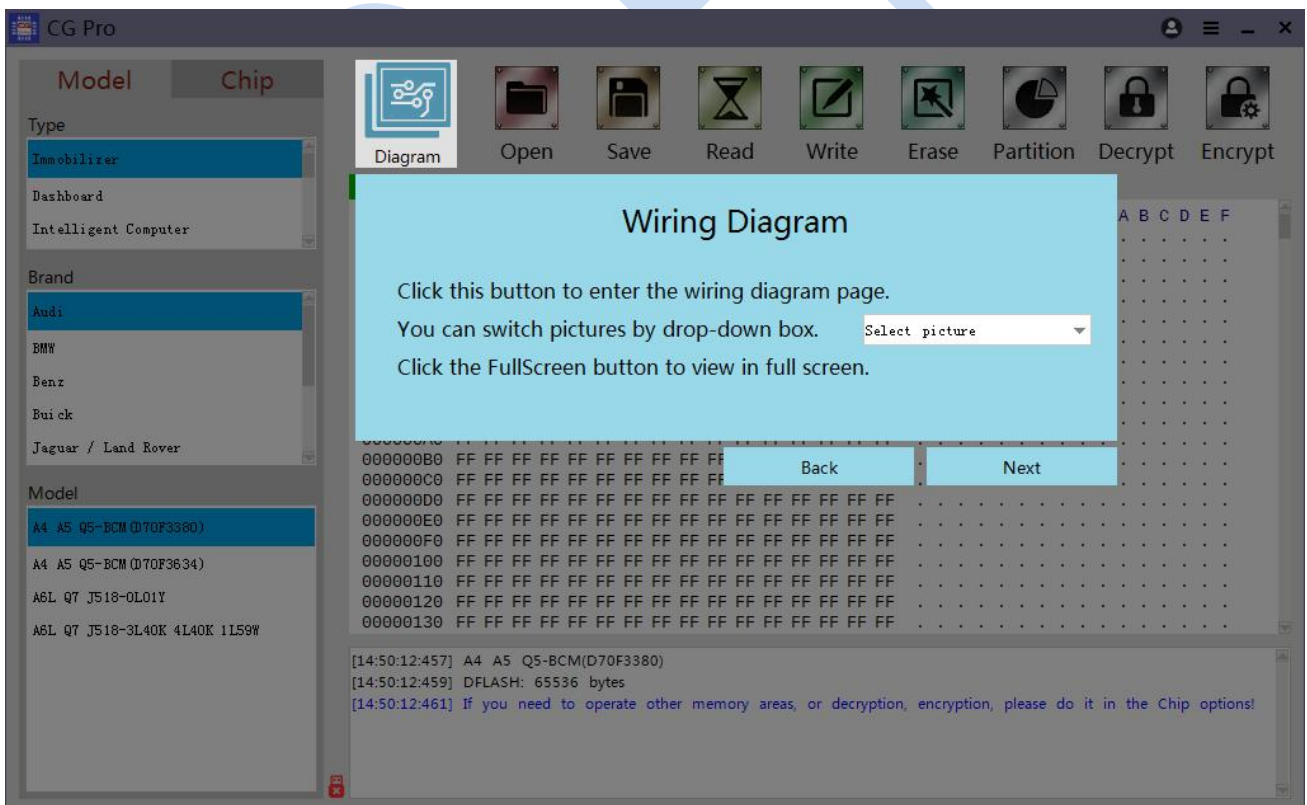
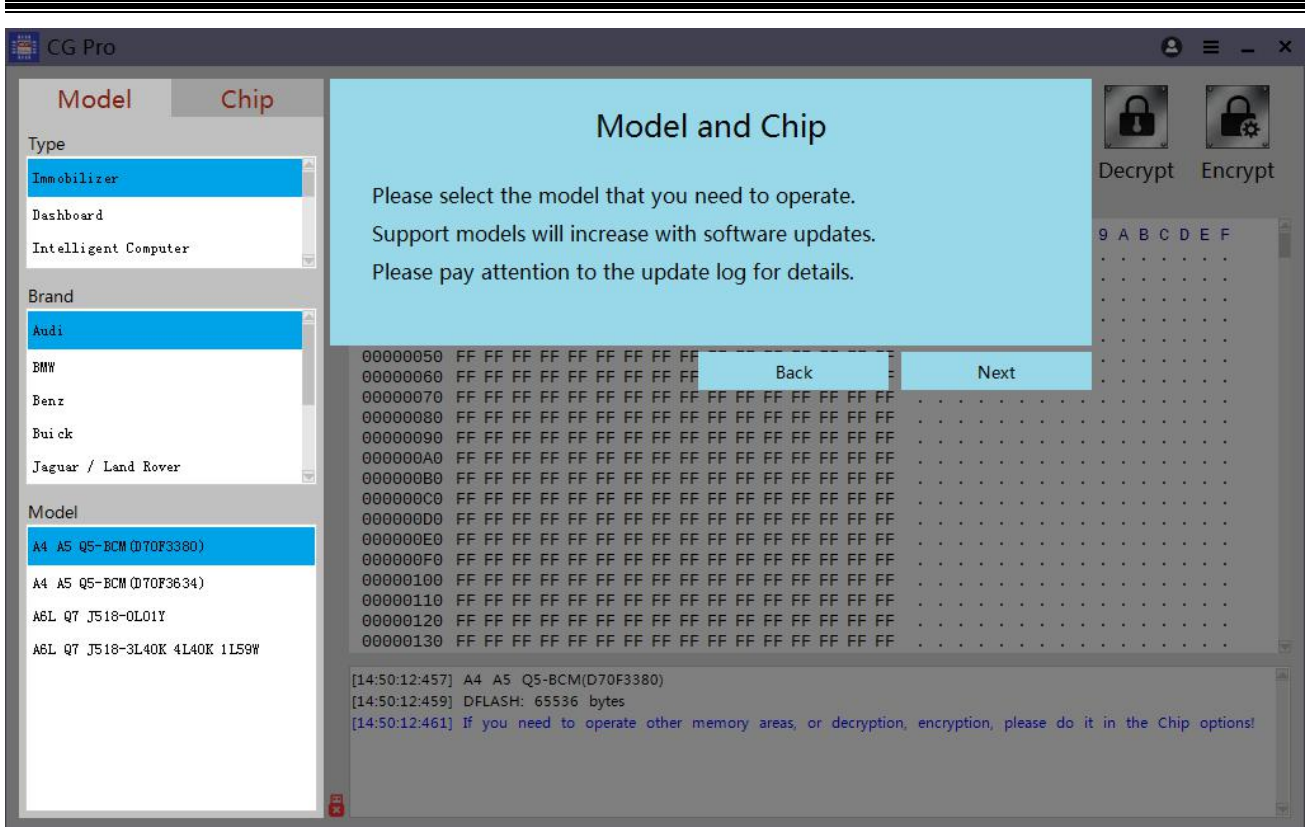


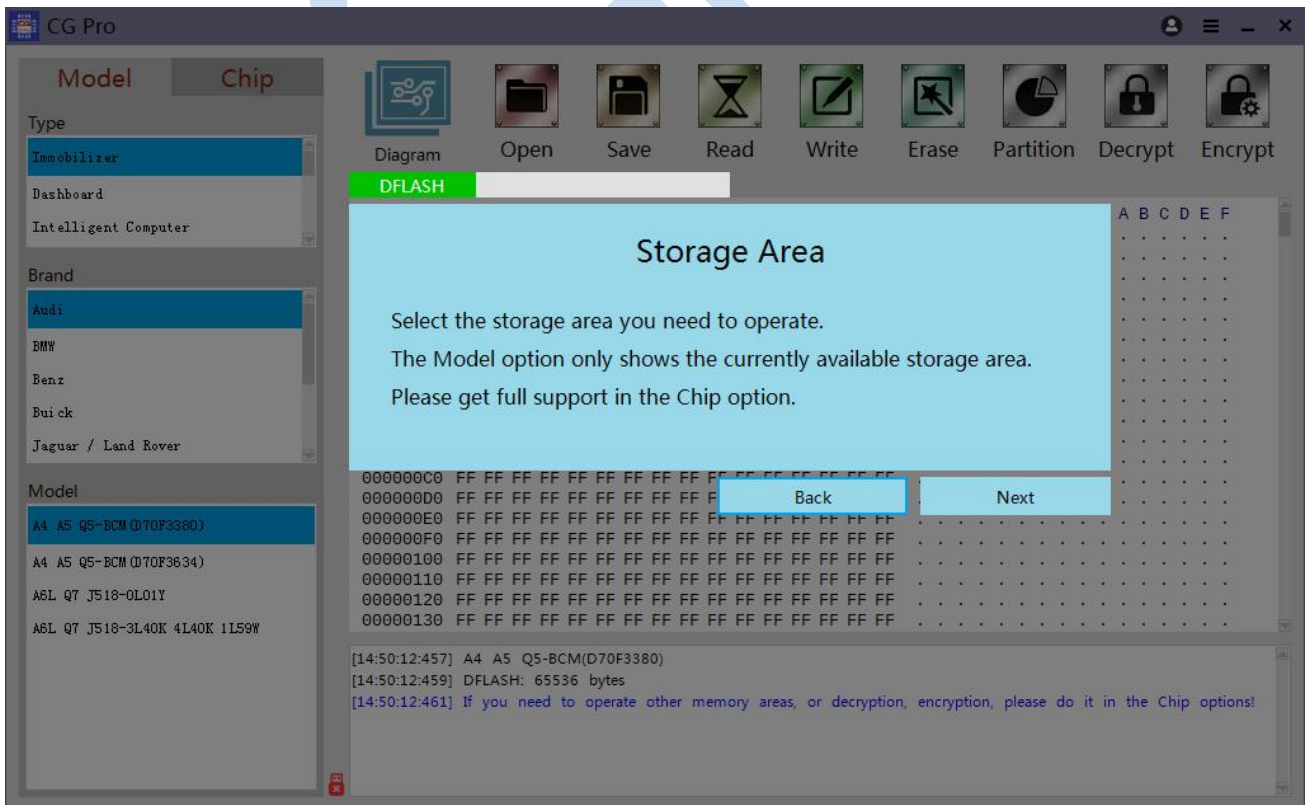
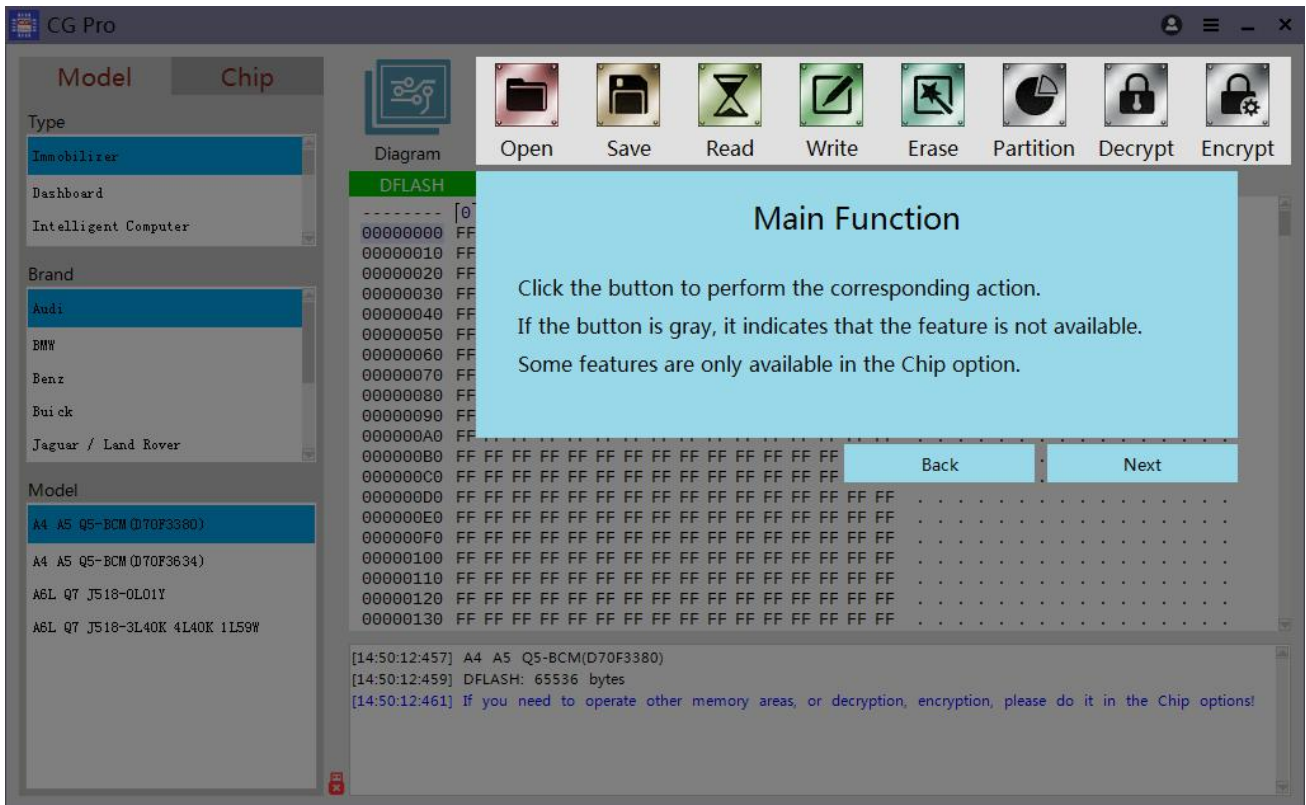
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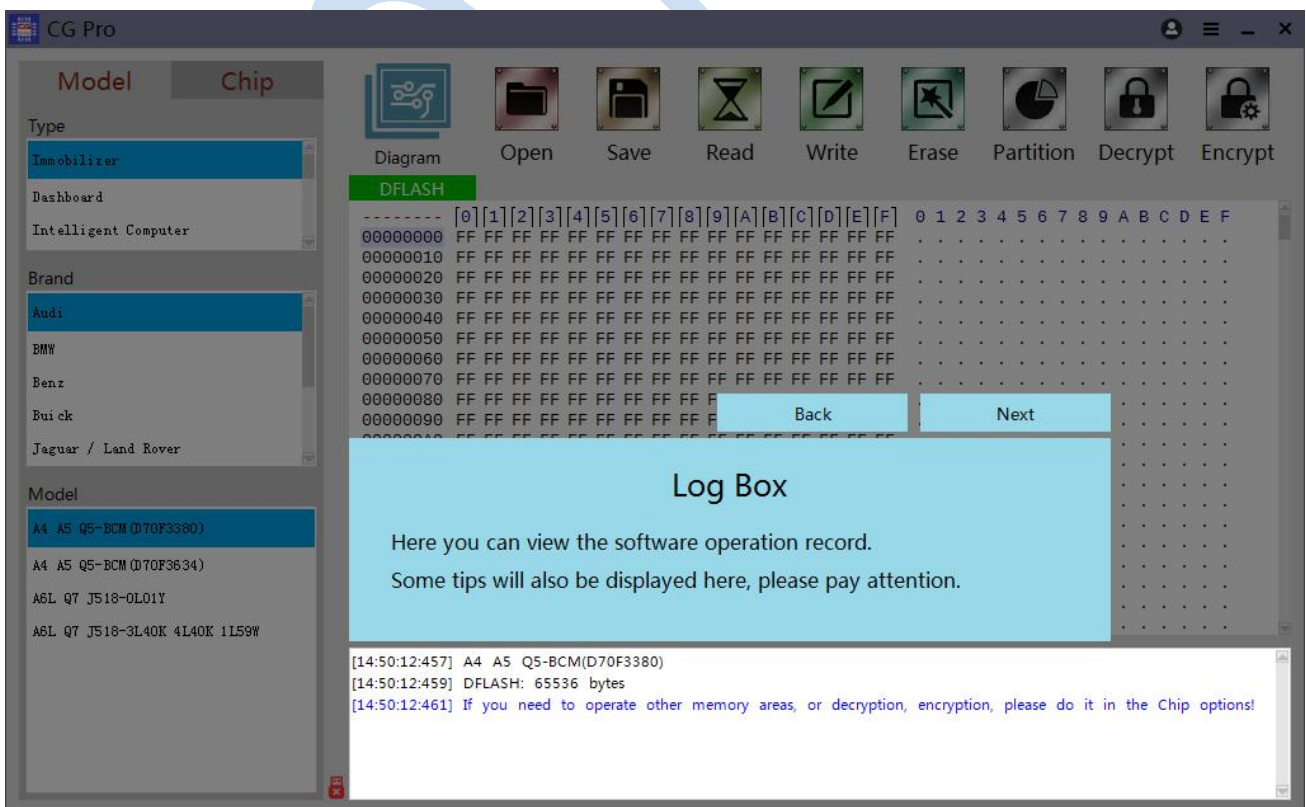
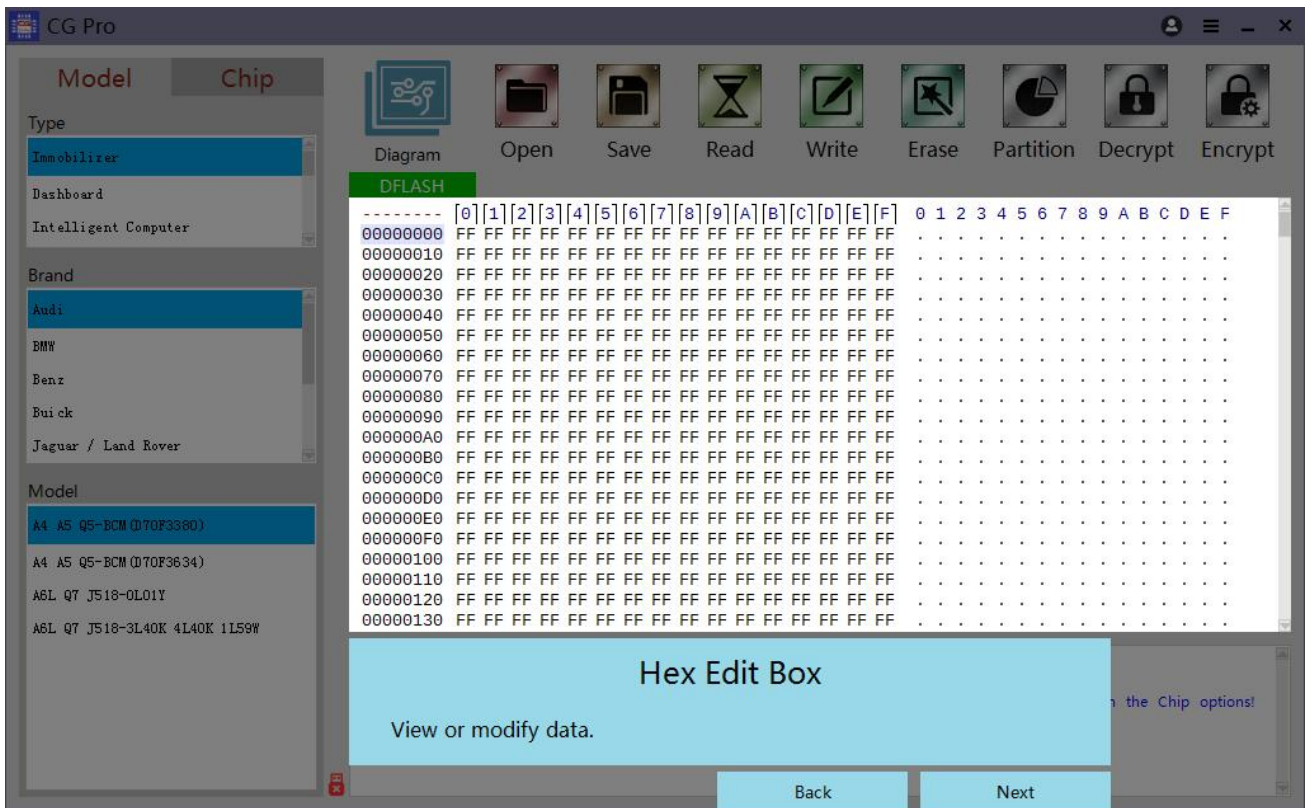


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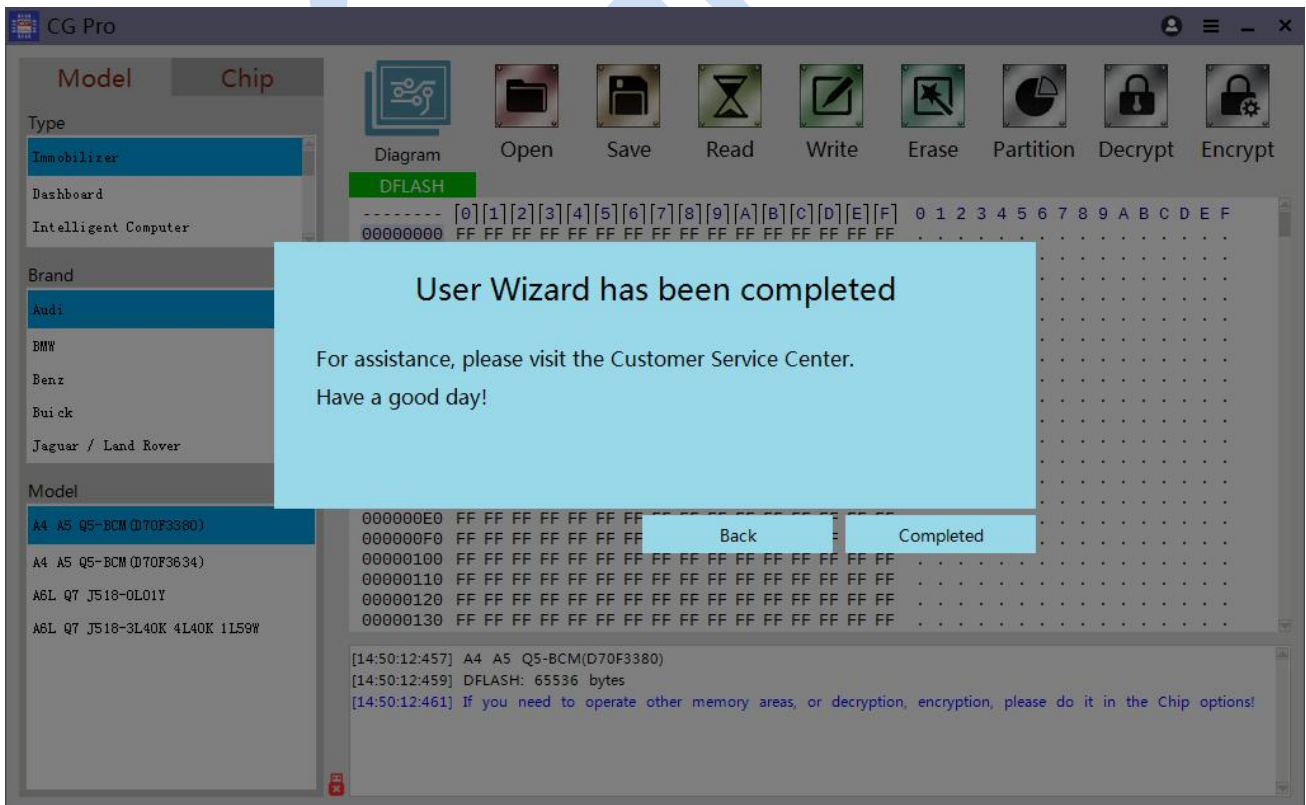
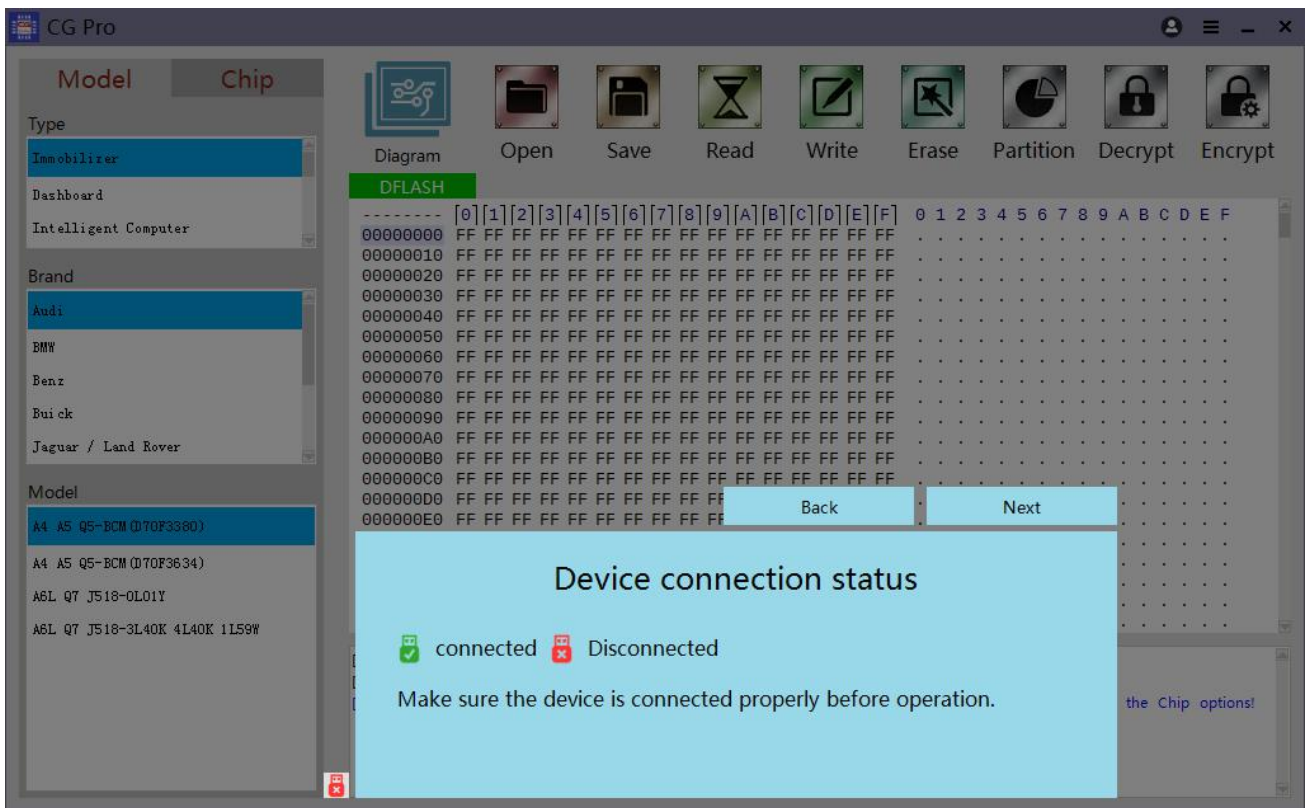




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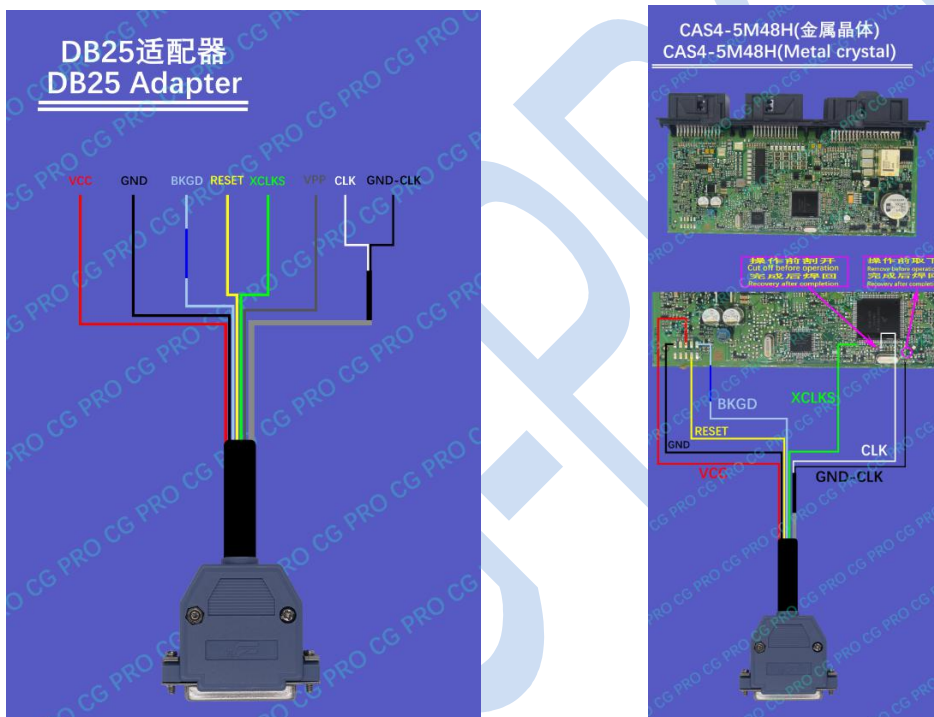
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4.3 Further introduction for the software

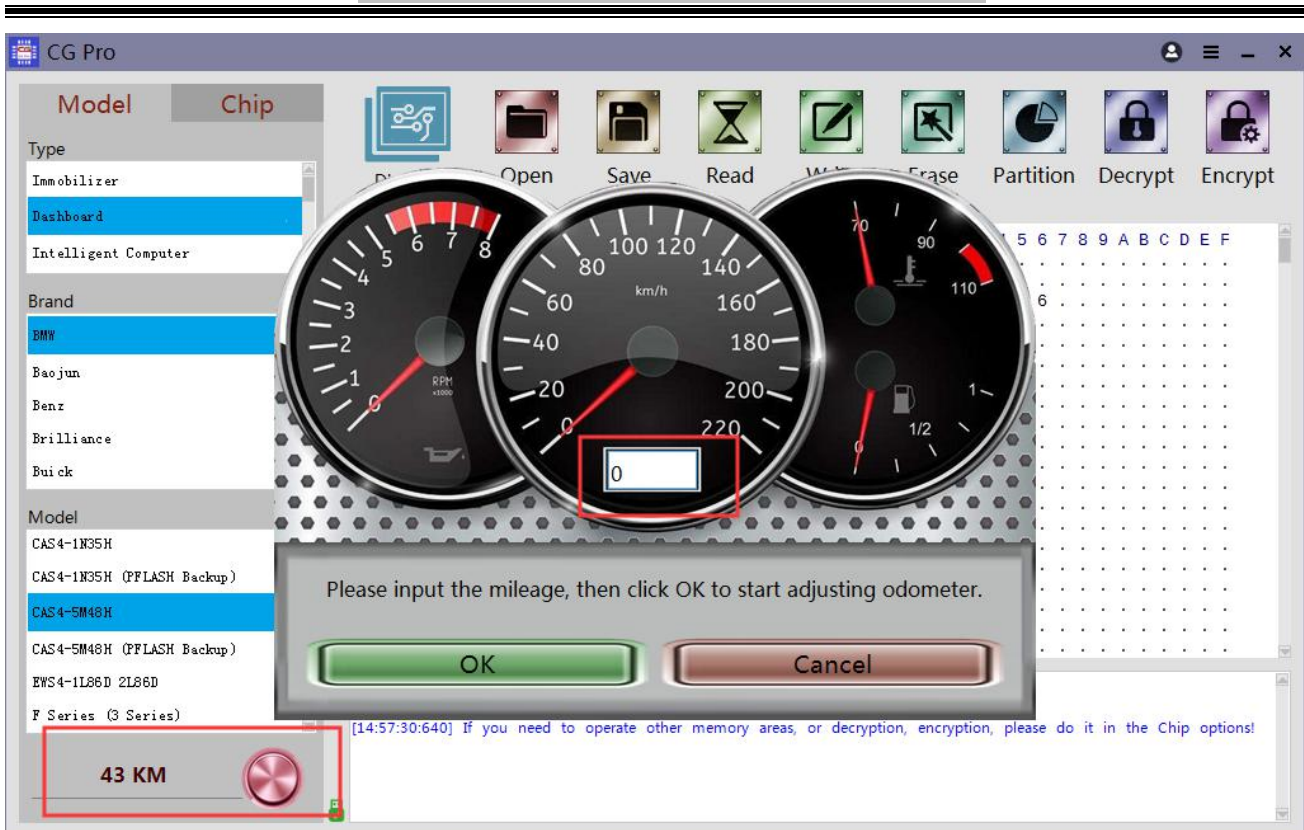
CGPRO software is mainly divided into two parts. One part is car models. In the model, you can operate a specific model, which is convenient and smart.

- Anti-theft computer: In the anti-theft computer, you can select the area where the anti-theft data is located. Just connect the line and click to read, so it can safely and stably read out the required data for you. If it is an encrypted computer, CGPRO will intelligently help you decrypt and read the data. The wiring diagram provides you with a picture of the adapter which you need and a specific wiring diagram for the anti-theft computer. As shown below:



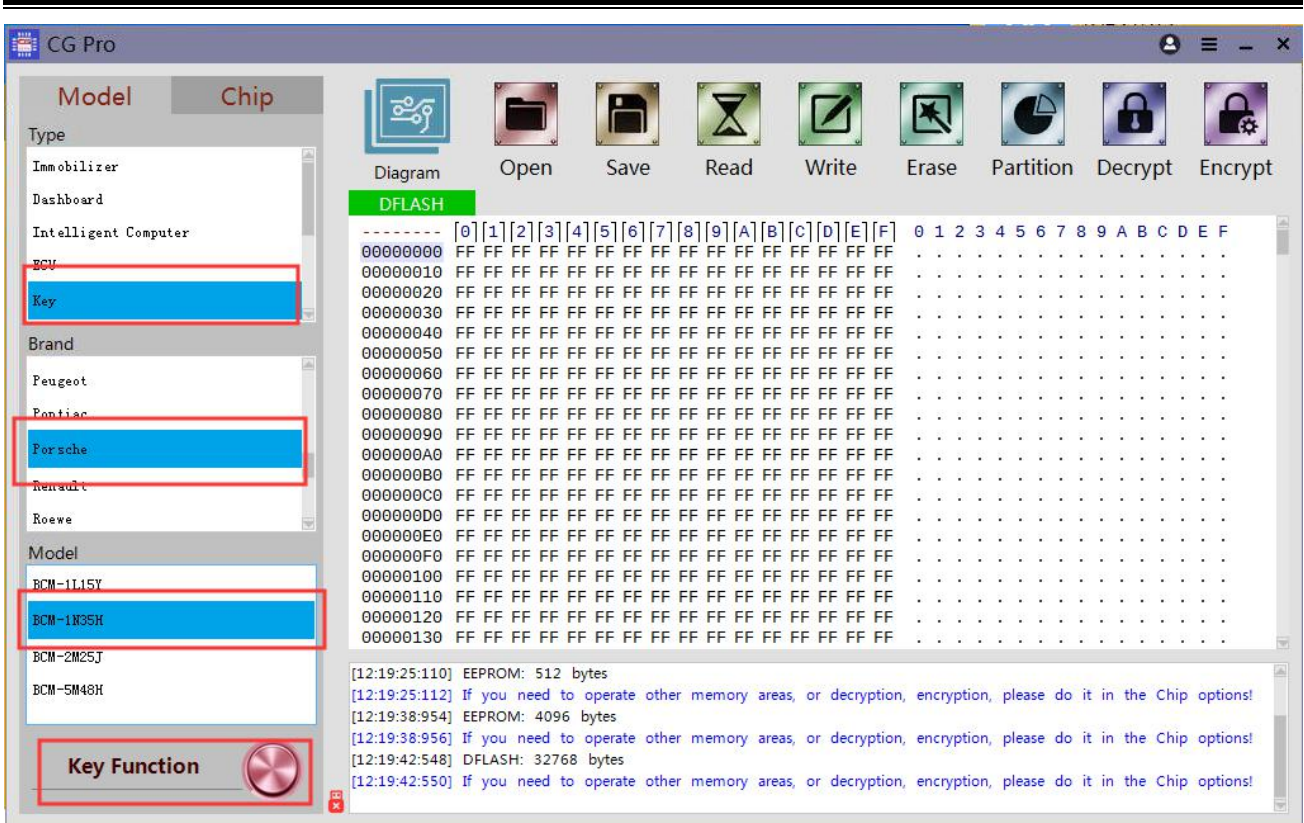
- Meter mileage: In the meter mileage, has been selected the area where the number of kilometers for you. Just connect the line according to above picture and click to read the data. Or the number of kilometers will be displayed directly below the software, or click to adjust the mileage. Enter the number of kilometers that you want to modify and click OK. The software will automatically modify the number of kilometers for you, which is convenient and simple. As shown below:

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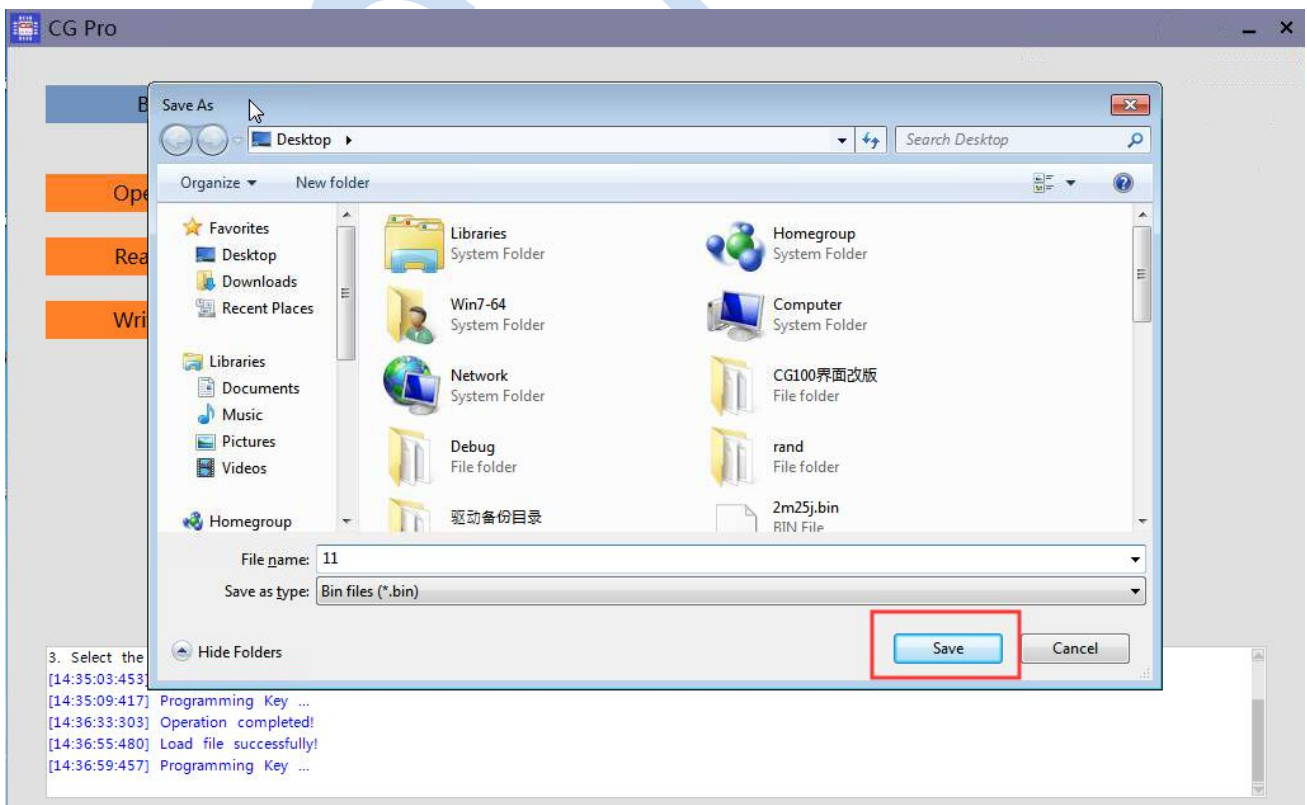
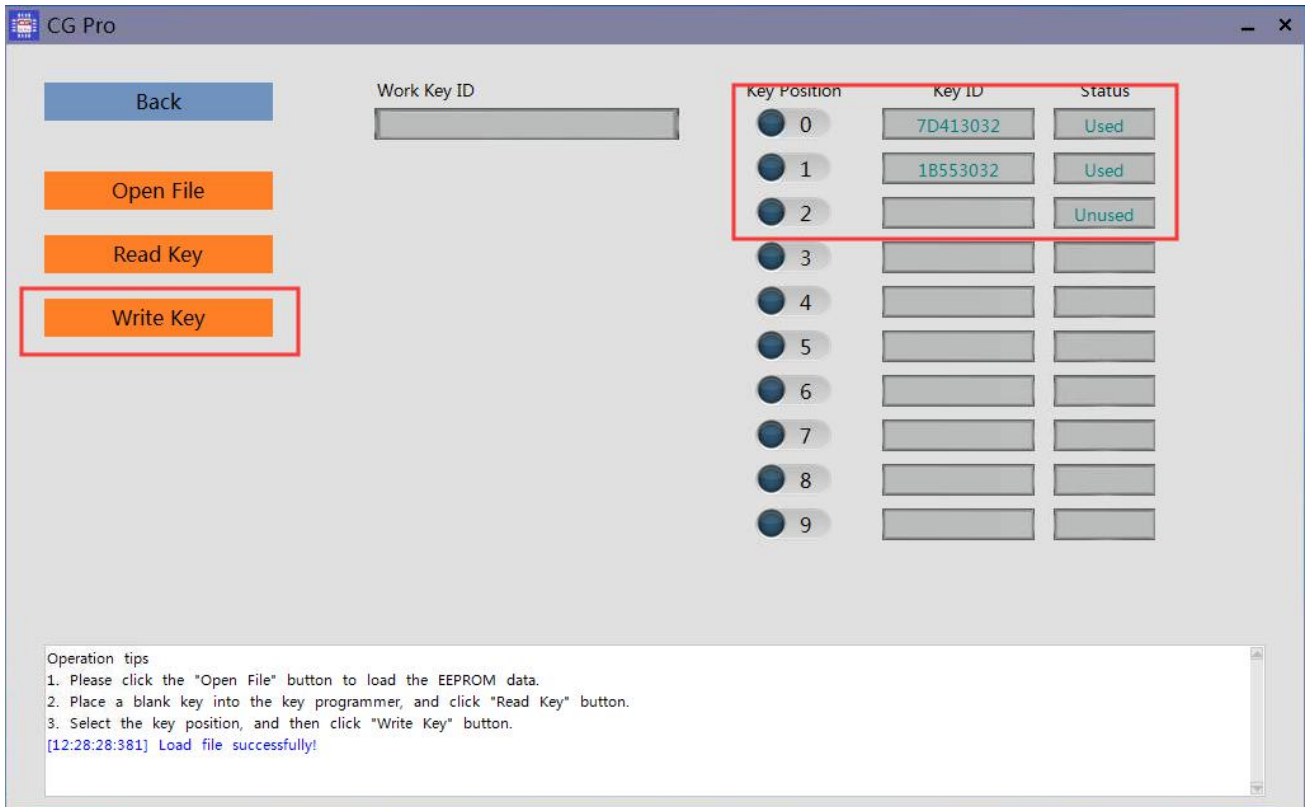


- Intelligent computer: The operation is same as anti-theft computer. Firstly connect the line according to the picture. After clicking and reading, the software will automatically read the data of the computer only for you..
- ECU: The operation is same as anti-theft computer. Firstly connect the line according to the picture. After clicking and reading, the software will automatically read the data of the computer only for you.
- Key matching: currently available add key for BMW, Porsche, and Land Rover. Select the model corresponding to your anti-theft computer, then load the corresponding anti-theft data according to the prompts and select the key location. After the key is written, the data to be written back to the computer board is saved. Write the data back to the computer board and get on car. As shown below:

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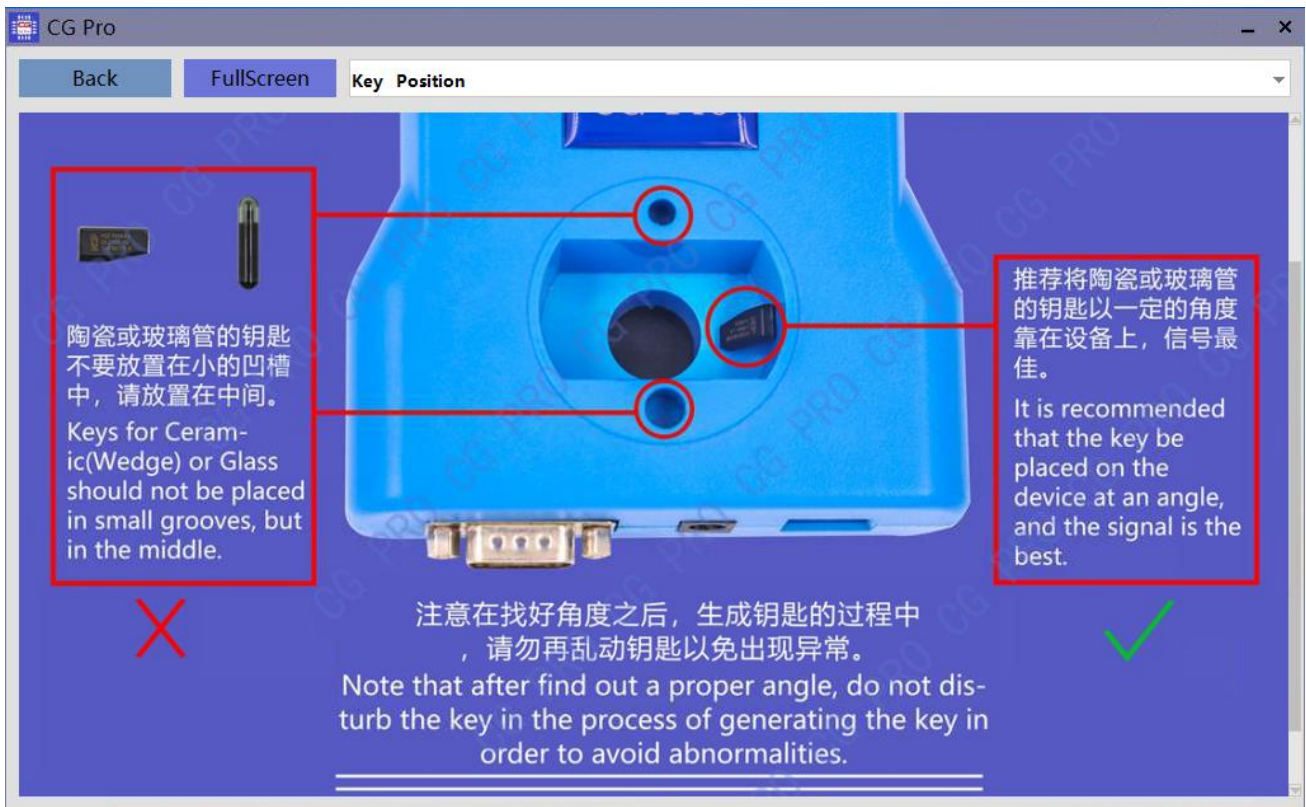


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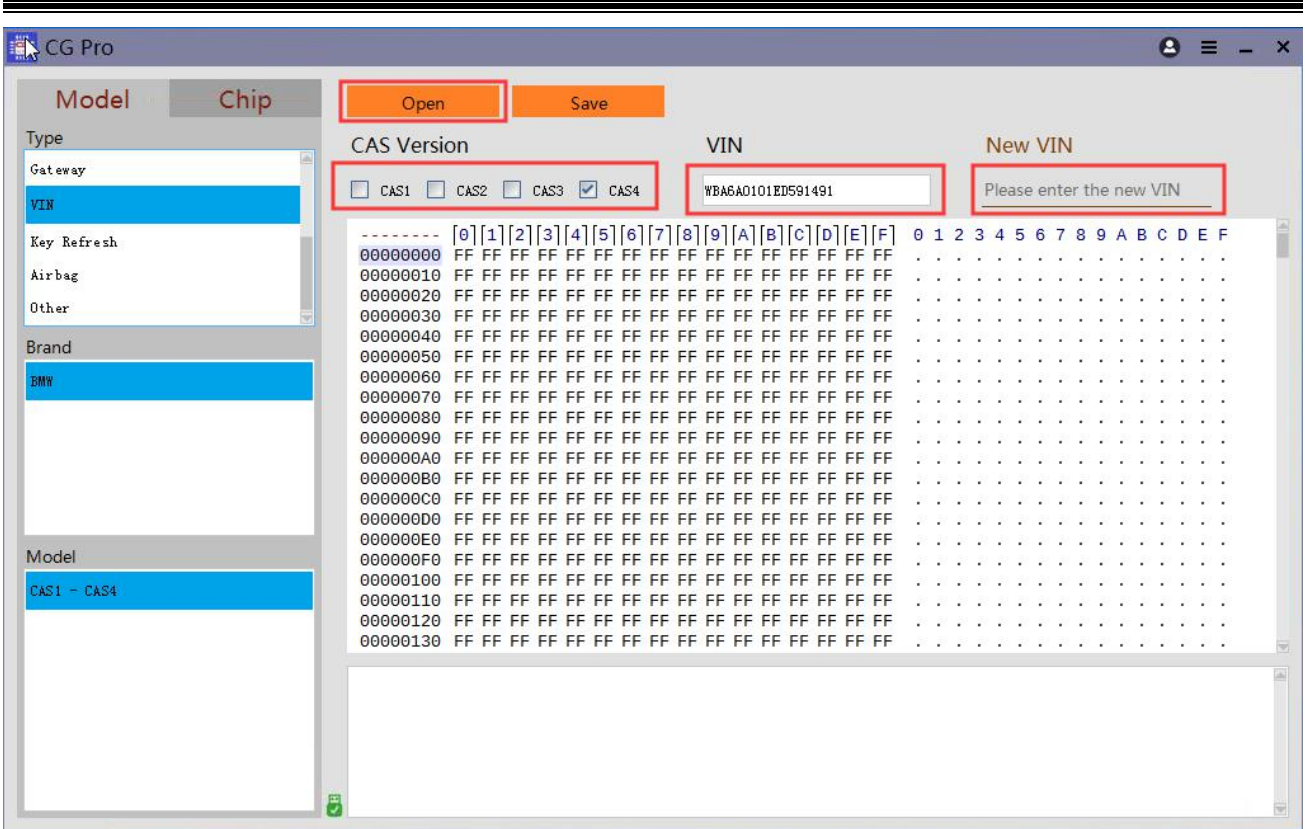
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The key recognition signal of some models is not good, so the location should be identified as shown below, otherwise it may cause the matching failure.

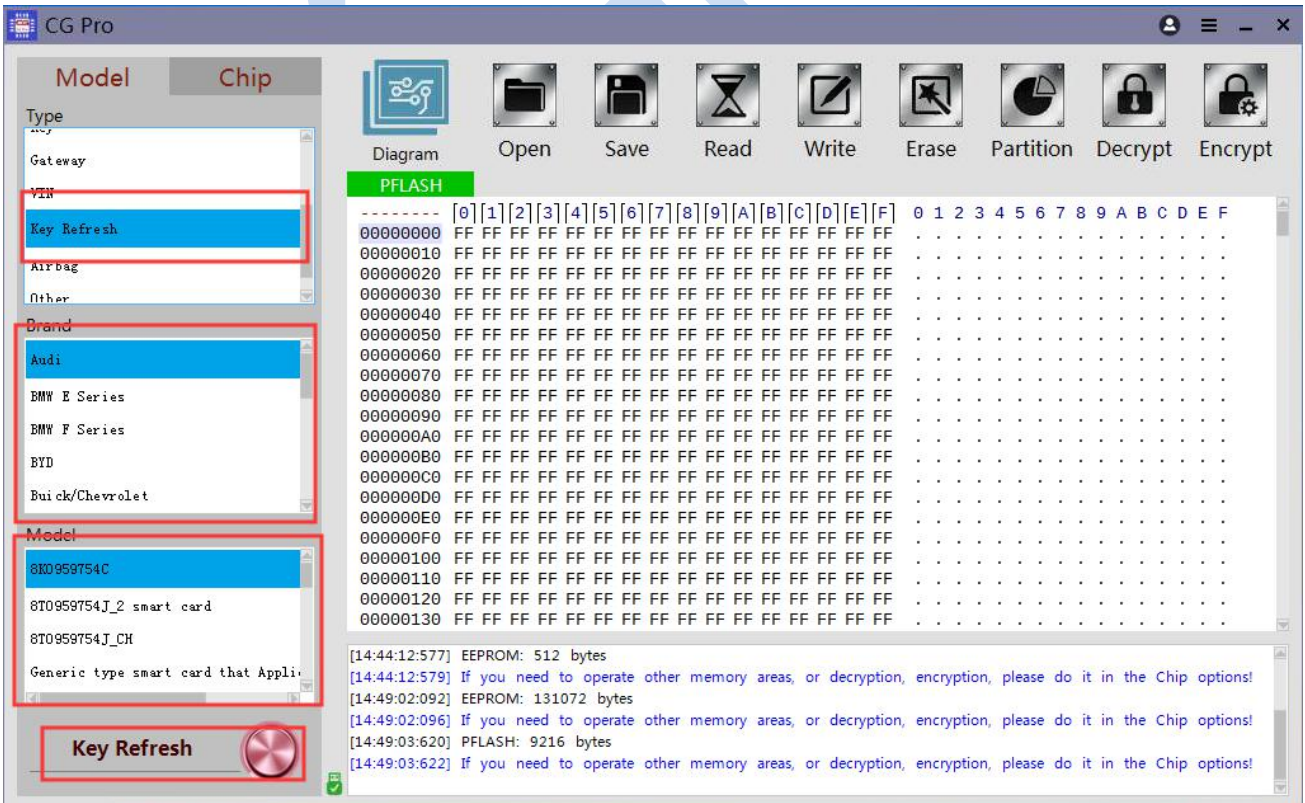


- Gateway computer: The operation is same as anti-theft computer. Firstly connect the line according to the picture. After clicking and reading, the software will automatically read the data of the computer only for you.
- VIN: After entering the operation interface, click to load the CAS1~4 file. The software will automatically recognize the data version and display the VIN. Enter the new VIN in the VIN below, and save the modified VIN.

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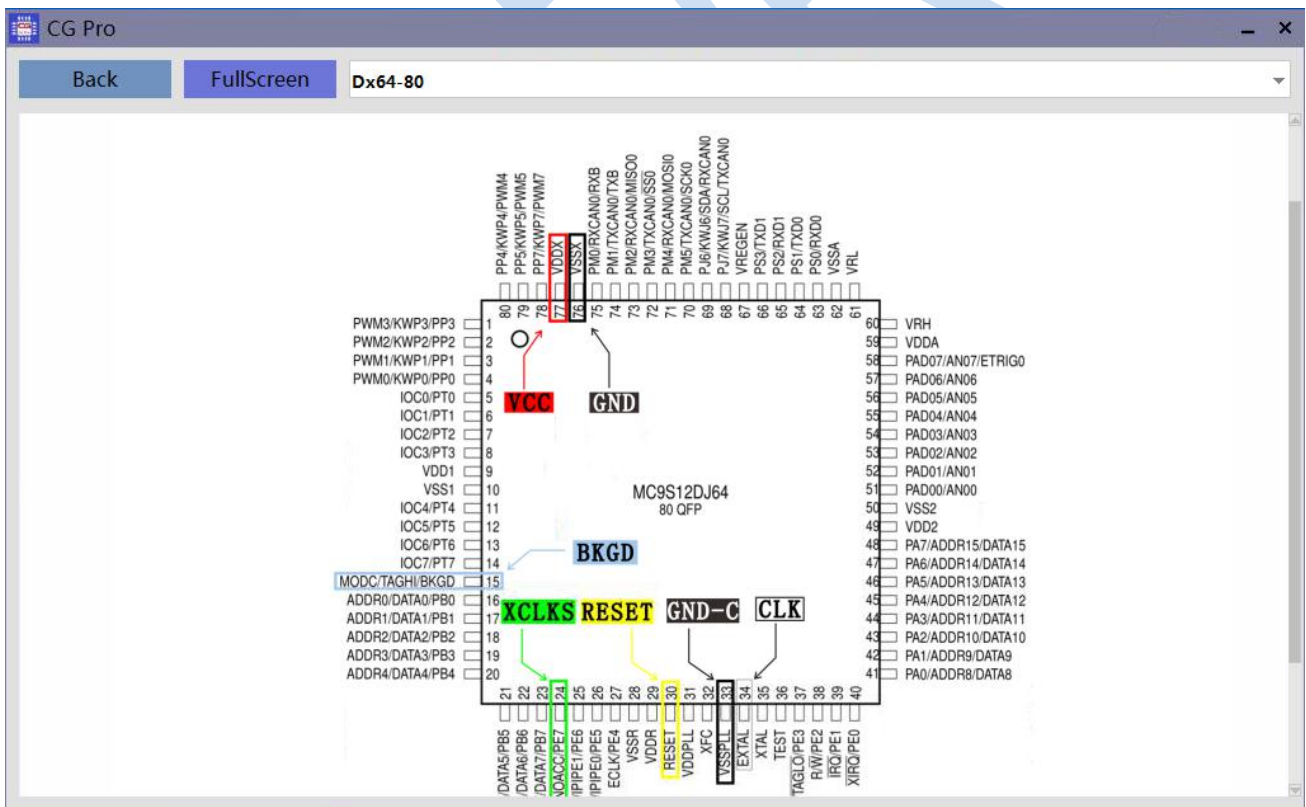
- Key Refresh: According to the corresponding key, select the corresponding model. After connecting the line according to the pin diagram, click the button beside [Key refresh], and the software will successfully enter the key data.



- Airbag: The operation is same as anti-theft computer. Firstly connect the line according to the picture. After reading, the software will automatically read the data of the computer only for you.
- Others: The operation is same as anti-theft computer. Firstly connect the line according to the picture. After reading, the software will automatically read the data of the computer only for you.

The other part of the chip is mainly to provide more professional operation for the chip programmer.

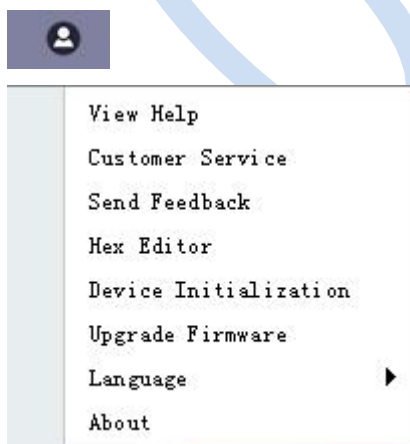
- CPU→MCU: In professional MCU programming, we provide you with more memory types for chip operation, such as EEPROM, DFLASH, PFLASH, etc. Also provides you with the specific pin wiring diagram of the chip, which can meet the wiring read in different situations. As shown below:



- Memory chip: Most of the memory chips are clip-type adapters. Please operate according to the picture requirements. For example as below picture shown:

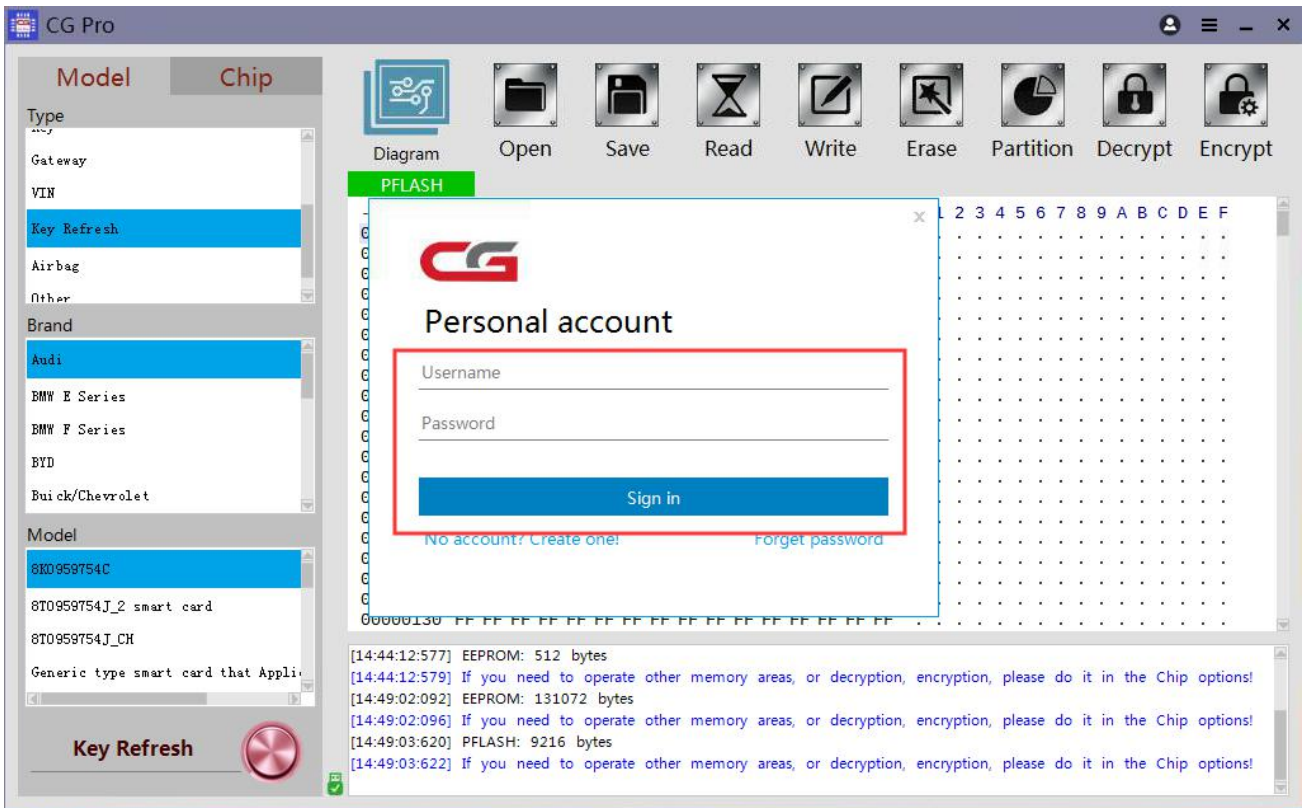


4.4 Introduction to the rest of the features

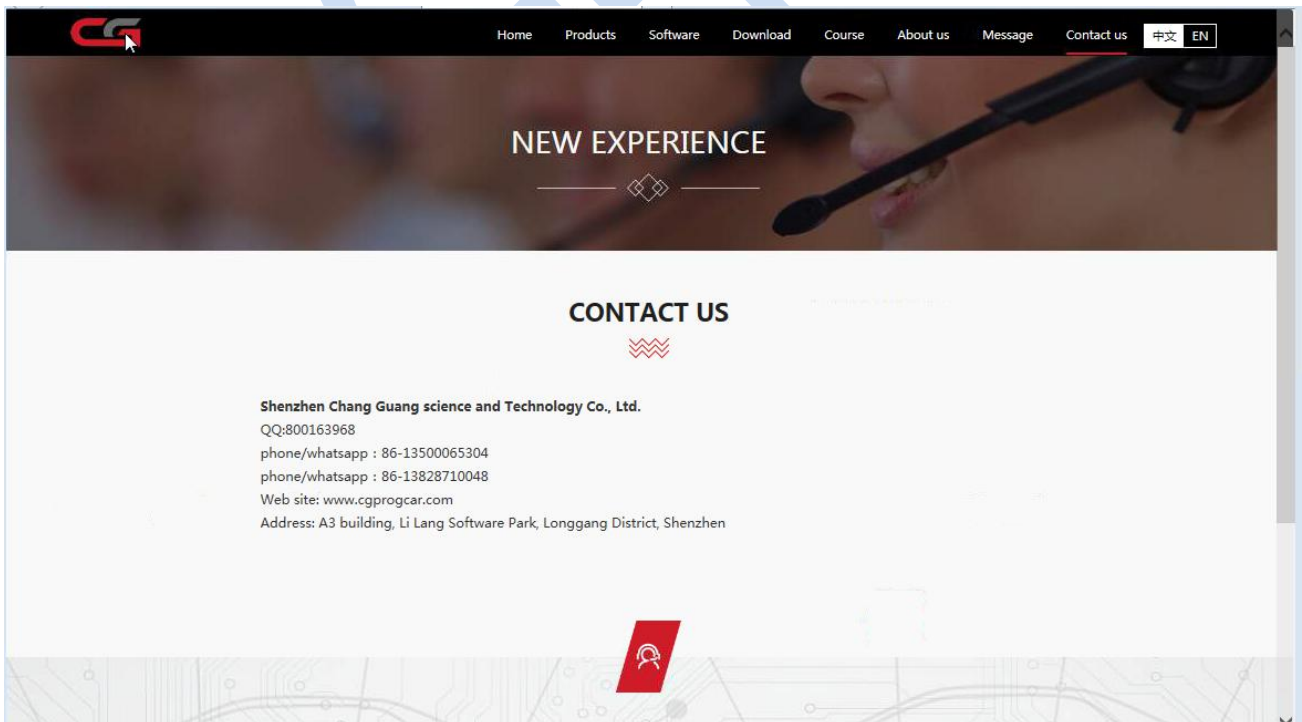


- Register and log in: CGPRO supports user to register and login. After logging in, you

can see the device which you are bound to.



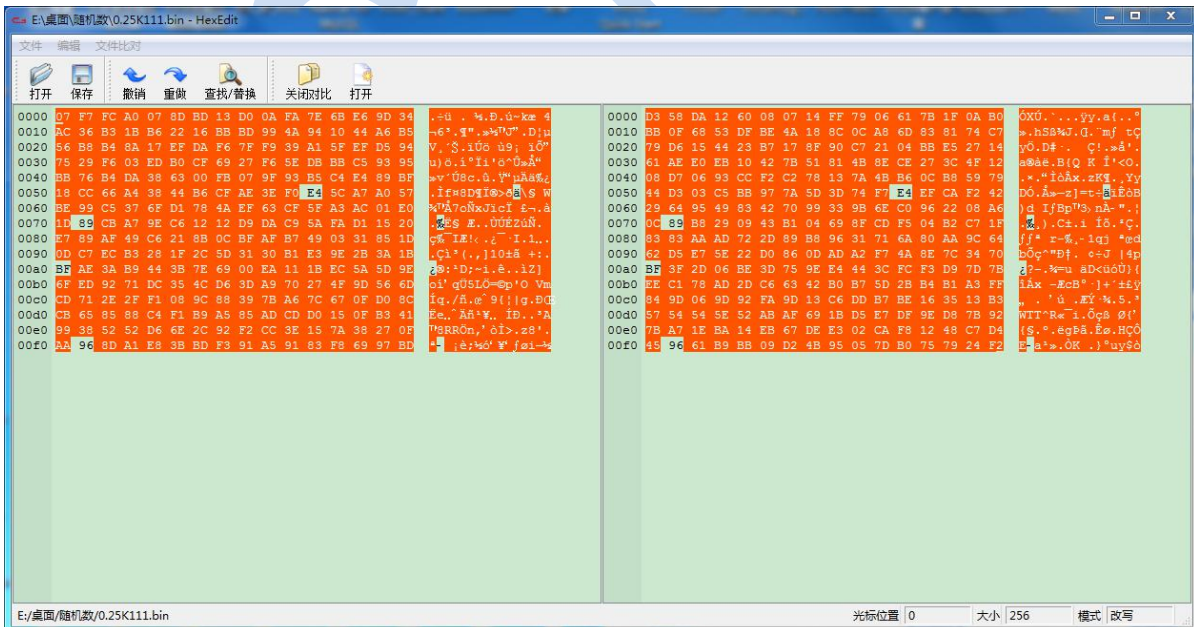
- **Customer Service Center:** After clicking, it will link to the company's website, that you can further understand the company and products. The website also provides the contact information of the company before and after the sale. As shown below:



- Send feedback: Here you can give us feedback for your problems or send us your valuable suggestions.



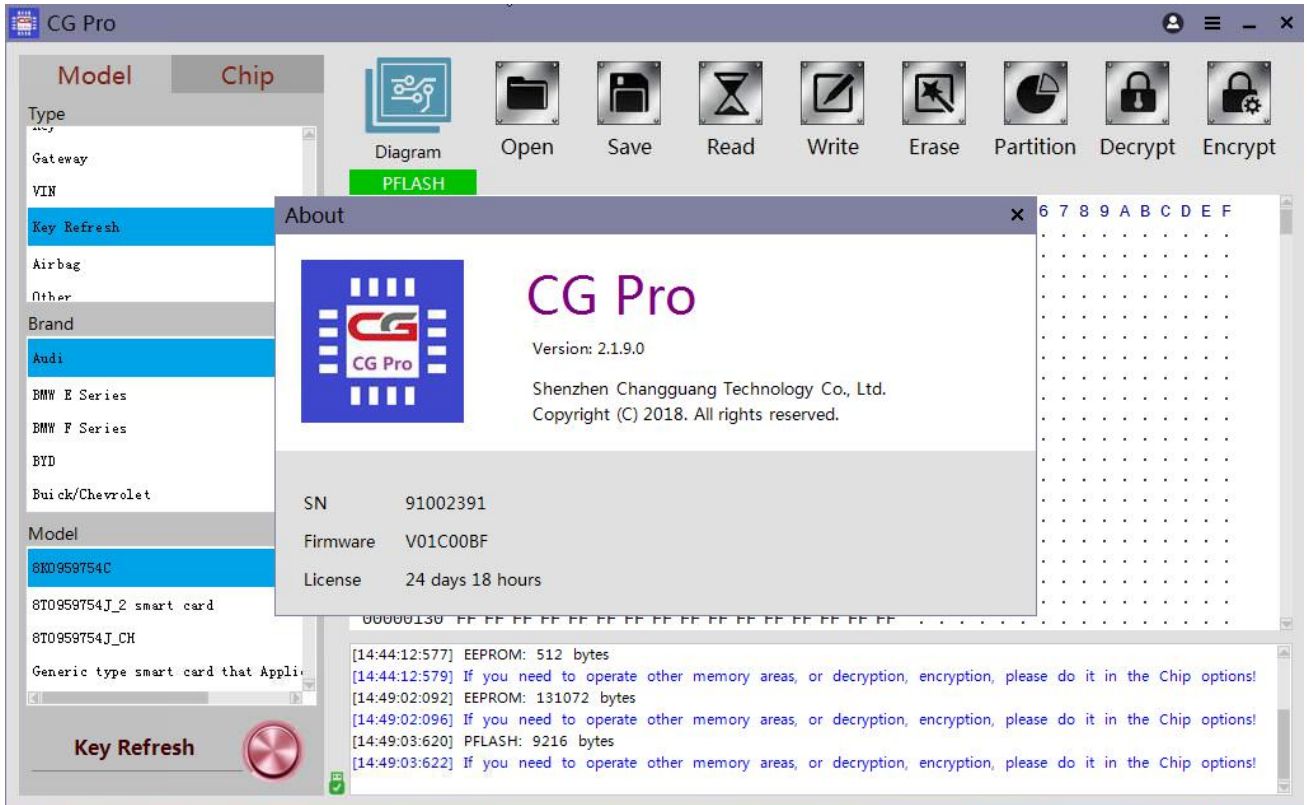
- Hex Editor: This function is an additional hex editor that allows you to compare the data files in this function.



- Device initialization: This function is the initialization of a function, which is not normally used. It is a function for after-sales use, and can only be carried out after the password is entered.

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- Upgrade firmware: if you want to upgrade manually but you miss the upgrade prompted by the software, you can upgrade manually here.
- Language: Currently supports Chinese\English\Spanish. The domestic version only supports Chinese version, and the foreign version of the hardware can be switched here. More languages will be supported later.
- About: Here you can see information about the device, such as SN number, remaining activation days, software version, and so on.



4.5 Device activation

CGPRO is activate freely and automatically. When the remaining time of activation of the device is less than 1 day, the software will automatically detect the activation time of the device for one month. Welcome to use it.

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5. Model support list

5.1 Anti-theft computer

Vendor	Model	Remarks
Mercedes	EIS-164 (ST12)	
	EIS-169 (ST12)	
	EIS-203 (HC08)	
	EIS-209 (ST12)	
	EIS-209 OLD (0K50E)	
	EIS-209 OLD (3K91D)	
	EIS-211 (ST12)	
	EIS-211 OLD (0K50E)	
	EIS-211 OLD (3K91D)	
	EIS-215 (ST12)	
	EIS-220/215 (HC08)	
	EIS-639 (HC08)	
	EIS-639 (ST12)	
	EIS-906 (ST12)	
BMW	CAS1-0K50E	
	CAS2-0L01Y	
	CAS2-2K79X	
	CAS3-0L15Y	
	CAS3-0M23S	
	CAS4-1L15Y	

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	CAS4-1N35H	Back up here PFLASH
	CAS4-5M48H	Back up here PFLASH
	EWS2-1D47J	
	EWS3-0D46J	
	EWS3-2D47J	
	EWS4-1L86D/2L86D	
	CAS4-5M48H(Convenience)	
	CAS4-1N35H(Convenience)	
	CAS4-5M48H(Convenience PFLASH)	Back up here PFLASH
	CAS4-1N35H(Convenience PFLASH)	Back up here PFLASH
Audi	A4 A5 Q5-BCM(D70F3380)	
	A4 A5 Q5-BCM(D70F3634)	
	A6L Q7 J518-0L01Y	
	A6 Q7 J518-3L40K 4L40K 1L59W	
Porsche	BCM-1L15Y	
	BCM-1N35H	Back up here PFLASH
	BCM-2M25J	
	BCM-5M48H	Back up here PFLASH
	BCM-1N35H(Convenience)	
	BCM-1N35H(Convenience PFLASH)	
	BCM-5M48H(Convenience)	
	BCM-5M48H(Convenience PFLASH)	
Jaguar Land Rover	BCM-XEP100	
	BCM-XEP768	
	Discovery 3	

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	EWS-3L40K 4L40K 1L59W	
Roewe	750-0M89C	
MG	MG-0M89C	
Shanghai Industrial Transportation	Anti-theft box(0L07H 0L59X 0L72A 3K56G) (EEPROM)	
	Anti-theft box(0L07H 0L59X 0L72A 3K56G) (FLASH)	
Buick	Excelle 14 manual transmission BCM(EEPROM)	
	Excelle 14 manual transmission BCM(DFLASH)	
	Excelle 14 manual transmission BCM(Back up PFLASH)	

5.2 Instrument mileage

Vendor	Model	Remarks
Mercedes	EIS-203(HC08)	Pay attention to the choice of solder chip, see the wiring diagram
	EIS-220/215(HC08)	
	EIS-639(HC08)	
	EIS-906 (ST12)	
	EIS-211 (ST12)	
BMW	080DQ 方式 1	
	080DQ 方式 2	
	160DQ 方式 1	
	160DQ 方式 2	
	35080VP V6 方式 1	

	35080VP V6 方式 2	
	35080_3 6 方式 1	
	35080_3 6 方式 2	
	35128WT 方式 1	Use a dedicated adapter
	35128WT 方式 2	Use a dedicated adapter
	35160WT 方式 1	Use a dedicated adapter
	35160WT 方式 2	Use a dedicated adapter
	CAS1-OK50E	
	CAS2-0L01Y	
	CAS2-2K79X	
	CAS3-0L15Y	
	CAS3-0M23S	
	CAS4-1L15Y	
	CAS4-1N35H	
	CAS4-5M48H	
	EWS3-1L86D/2L86D	
	F Series (3Series)	The algorithm does not support this time.
	CAS4-5M48H(Convenience)	
	CAS4-1N35H(Convenience)	
	CAS4-5M48H(Convenience PFLASH)	Back up here PFLASH
	CAS4-1N35H(Convenience PFLASH)	Back up here PFLASH
Volvo	2012 S60-XC60-S80 (384EEPROM)	
	2012 S60-XC60-S80 (384FLASH)	
	2012 S60-XC60-S80 (512EEPROM)	
	2012 S60-XC60-S80 (512FLASH)	

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	2015 XC60-S60 (384EEPROM)	
	2015 XC60-S60 (384FLASH)	
	2015 XC60-S60 (512EEPROM)	
	2015 XC60-S60 (512FLASH)	
	2016 S60-XC60-S80 (384EEPROM)	
	2016 S60-XC60-S80 (384FLASH)	
	2016 S60-XC60-S80 (512EEPROM)	
	2016 S60-XC60-S80 (512FLASH)	
	10 Model-XC90 Instrument	
Honda	High fit	
	High fit	
	Gray	
	Binzhi	
	XR-V	
Hyundai	2016 Jiale	
	Sonata 9	
	Sonata 9 V2	
	Acceptable	
Kia	2016 K3	
	2016 K5	
	2017 K2	
	2017 KX	
	New K5	
Suzuki	2017 Jimny	
Changan	Chang'an Star II	

Baojun	730	
Toyota	Runner	
Chery	Tiggo 5	
Ford	Fox 5M5T10849ER	
Chevrolet	Copac-13 Instrument	
Brilliance	China V5-13 Instrument	
SAIC	Datong RV-17 Instrument	
Buick	Excelle Instrument	
Jaguar Land Rover	2006 Jaguar S-TYPE Instrument	
Chrysler	2005 Chrysler 300 Instrument	
SAAB	2008 SAAB 93 Instrument	

5.3 Smart computer

Vendor	Model	Remarks
Jaguar Land Rover	Jaguar-0L01Y	
	RFA-1M12S DFLASH	
	RFA-1M12S EEPROM	
	RFA-2M53J DFLASH	
	RFA-2M53J EEPROM	
Volvo	S80-0L01Y	
	XC60-0L01Y	

5.4 ECU

Vendor	Model	Remarks
--------	-------	---------

Delphi	MT20	
	MT22. 1. 1-2M53J (DFLASH)	
	MT22. 1. 1-2M53J (EEPROM)	
	MT22. 1. 1-2M53J (PFLASH)	
	MT22/MT60 (DFLASH)	
	MT22/MT60 (EEPROM)	
	MT22/MT60 (PFLASH)	
BMW E series	3series or 5series(EEPROM)	
	3series or 5series(outside FLASH)	
	3series or 5series(FLASH)	
	DDE701_EDC17C50 (EEPROM)	
	DDE701_EDC17C50 (FLASH)	
	DDE70_EDC17C06 (EEPROM)	
	DDE70_EDC17C06 (FLASH)	
	DDE71_EDC17CP02 (EEPROM)	
	DDE71_EDC17CP02 (FLASH)	
	DDE721_EDC17C41 (EEPROM)	
	DDE721_EDC17C41 (FLASH)	
	DDE731_EDC17C45 (EEPROM)	
	DDE731_EDC17C45 (FLASH)	
	DDE73_EDC17CP09 (EEPROM)	
	DDE73_EDC17CP09 (FLASH)	
	ME1745 (N45) (EEPROM)	
	ME1745 (N45) (FLASH)	
MEVD17 (N55) (EEPROM)		

	MEVD17 (N55) (FLASH)	
	MEVD17 (N55) (PASSWORD)	
	MEVD1724 (N20) (EEPROM)	
	MEVD1724 (N20) (FLASH)	
	MEVD1724 (N20) (PASSWORD)	
	MEVD1726 (N55) (EEPROM)	
	MEVD1726 (N55) (FLASH)	
	MEVD1726 (N55) (PASSWORD)	
	MEVD1729 (N20) (EEPROM)	
	MEVD1729 (N20) (FLASH)	
	MEVD1729 (N20) (PASSWORD)	
	MEVD1746 (N46) (EEPROM)	
	MEVD1746 (N46) (FLASH)	
	MVS946 (N46) (EEPROM)	
	MVS946 (N46) (FLASH)	
	X1 (EEPROM)	
	X1 (Ext FLASH)	
	X1 (FLASH)	
BMW F series	B38 MEVD 17. 2. 3 (F20 1793) (EEPROM)	
	B38 MEVD 17. 2. 3 (F20 1793) (FLASH)	
	B38 MEVD 17. 2. K (F20 1793) (EEPROM)	
	B38 MEVD 17. 2. K (F20 1793) (FLASH)	
	DDE701A (EEPROM)	
	DDE701A (FLASH)	
	DDE701P (EEPROM)	

DDE701P (FLASH)	
DDE721B (EEPROM)	
DDE721B (FLASH)	
DDE731A (EEPROM)	
DDE731A (FLASH)	
DDE73A (EEPROM)	
DDE73A (FLASH)	
DDE741A (EEPROM)	
DDE741A (FLASH)	
DDE751A (EEPROM)	
DDE751A (FLASH)	
MEVD1724 (N20) (EEPROM)	
MEVD1724 (N20) (FLASH)	
MEVD1724 (N20) (PASSWORD)	
MEVD1725 (N13) (EEPROM)	
MEVD1725 (N13) (FLASH)	
MEVD1726 N55 (X5 X6 5X) (EEPROM)	
MEVD1726 N55 (X5 X6 5X) (FLASH)	
MEVD1726 N55 (X5 X6 5X) (PASSWORD)	
MEVD1728 (S63) (EEPROM)	
MEVD1728 (S63) (FLASH)	
MEVD1729 (N20) (EEPROM)	
MEVD1729 (N20) (FLASH)	
MEVD1729 (N20) (PASSWORD)	
MEVD172G (N55) (EEPROM)	

	MEVD172G (N55) (FLASH)	
	MEVD172G (N55) (PASSWORD)	
	MEVD172P (N20) (EEPROM)	
	MEVD172P (N20) (FLASH)	
	MEVD172P (N20) (PASSWORD)	
	MEVD172S (N55) (EEPROM)	
	MEVD172S (N55) (FLASH)	
	MEVD172S (N55) (PASSWORD)	
BMW R series (Mini)	DDE701_EDC17C50 (EEPROM)	
	DDE701_EDC17C50 (FLASH)	
	MED172 (N14/N16) (EEPROM)	
	MED172 (N14/N16) (FLASH)	
	MEV172 (N14/N16) (EEPROM)	
	MEV172 (N14/N16) (FLASH)	
	MEV1722 (EEPROM)	
	MEV1722 (FLASH)	
	MEVD17. 2 SAU (TC1796) (EEPROM)	
	MEVD17. 2 SAU (TC1796) (Ext FLASH)	
	MEVD17. 2 SAU (TC1796) (FLASH)	
	MEVD17. 2 (TC1796) (EEPROM)	
	MEVD17. 2 (TC1796) (FLASH)	
	MEVD17. 2. 2 (TC1797) (EEPROM)	
	MEVD17. 2. 2 (TC1797) (FLASH)	
	MEVD1722 (EEPROM)	
MEVD1722 (FLASH)		

	MINI (TC1766) (EEPROM)	
	MINI (TC1766) (FLASH)	
	MEVD1727 (EEPROM)	
	MEVD1727 (FLASH)	
Bentley	MEVD17XX (TC1797) (EEPROM)	
	MEVD17XX (TC1797) (FLASH)	
Volkswagen	MEVD17XX (TC1766) (EEPROM)	
	MEVD17XX (TC1766) (FLASH)	
	MEVD17XX (TC1796) (EEPROM)	
	MEVD17XX (TC1796) (Ext FLASH)	
	MEVD17XX (TC1796) (FLASH)	
	MEVD17XX (TC1797) (EEPROM)	
	MEVD17XX (TC1797) (FLASH)	
MT60	Jianghuai B6000246 (EEPROM)	
	Jianghuai B6000246 (FLASH)	
	MT60 (EEPROM)	
	MT60 (FLASH)	
	Sail 28086804 (EEPROM)	
	Sail 28086804 (FLASH)	
MT80	28147667 (EEPROM)	
	28147667 (FLASH)	
	28180087 (EEPROM)	
	28180087 (FLASH)	
	28209396 (EEPROM)	
	28209396 (FLASH)	

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28232660 (EEPROM)	
28232660 (FLASH)	
3095167 (EEPROM)	
3095167 (FLASH)	
9015432 (EEPROM)	
9015432 (FLASH)	
9025068 (EEPROM)	
9025068 (FLASH)	
B6000396 (EEPROM)	
B6000396 (FLASH)	
England 1 (EEPROM)	
England 1 (FLASH)	
England 2 (EEPROM)	
England 2 (FLASH)	
Excelle 9025069 (EEPROM)	
Excelle 9025069 (FLASH)	
Lefeng 9015423 (EEPROM)	
Lefeng9015423 (FLASH)	
Lefeng Auto (EEPROM)	
Lefeng Auto (FLASH)	
MT80 (EEPROM)	
MT80 (FLASH)	

5.5 Key matching

Vendor	Model	Remarks
BMW	CAS1-0K50E	CAS1 Key
	CAS2-0L01Y	CAS2 Key
	CAS2-2K79X	CAS2 Key
	CAS3-0L15Y	CAS3 Key
	CAS3-0M23S	CAS3 Key
	CAS4-1L15Y	CAS4 Key
	CAS4-1N35H	CAS4 Key
	CAS4-5M48H	CAS4 Key
	EWS1	
	EWS2	
	EWS3	
	EWS4	
	CAS4-5M48H(Convenience)	
	CAS4-1N35H(Convenience)	
	CAS4-5M48H(Convenience PFLASH)	Back up here PFLASH
	CAS4-1N35H(Convenience PFLASH)	Back up here PFLASH
Audi	Audi A2 VDO 1999 93C86	
	Audi A3 VDO 1999 93C66 86	
	Audi A4 VDO 1999 93C66 86	
	Audi A6 VDO 1998 93C66 86	
	Audi A8 VDO 1999 24C16 17	
	Audi A3 MagnetiMarelli 1998 HC912	

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	Audi A4 MagnetiMarelli 1998 HC912	
	Audi A6 MagnetiMarelli 1998	
	Audi TT MagnetiMarelli 1998 HC912	
	Audi ImmoBox 4B0 953 234 93C56	
	Audi A4 UKNSI 1998 24C04	
Porsche	BCM-1N35H	XEP100 16/32K Data
	BCM-2M25J	XET256 16/32K Data
	BCM-5M48H	XEP100 16/32K Data
	BCM-1L15Y	XDP512 4K Data
	BCM-1N35H(Convenience)	
	BCM-5M48H(Convenience)	
Jaguar Land Rover	3L40K	
	KVM-XET256 XEQ384	
	600_68HC05	
	618_68HC05	
	620_68HC05	
	75_68HC11	
	800_68HC05	
	Discovery 3	
	Jaguar 2001_MC68HC11_ID73	
	Jaguar S-Type_MC68HC11	
	Jaguar S-Type MC68HC912	
	Jaguar X-Type MC68HC912	
Volvo	40_93C46	
	40_93C56	

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	40_93C66	
	70_93C56	
	70_93C66	
	850_93C46	
	940_93C46	
	Trucks_FH12_93C66	
	Trucks_FH250_93C66	
	Volvo V40 2004 9S12 Meg48	
	Volvo V50 2004 9S12 Meg48	
	Volvo S60 2003 28F400 Meg48	
	Volvo V70 2003 28F400 Meg48	
	Volvo S80 2003 28F400 Meg48	
	Volvo XC70 2003 28F400 Meg48	
	Volvo XC90 2003 28F400 Meg48	
Honda	Accord_1999_68HC05	
	Civic_1997_68HC05	
	Civic_2001_68HC05	
	Honda Cars Accord 2005 93C46	
	Honda Cars City 2002 93C46	
	Honda Cars Civic 2002 93C46	
	Honda Cars CR-V 1999 93C46	
	Honda Cars Jazz 2003 93C46	
	Honda Cars Steam 2006 93C46	
	Honda Cars CR-V 1998 MC68HC805P18	
	Honda Cars Civic 2006 24C04	

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	Honda Cars Accord 2002 24C04	
	Honda Cars CR-V 2004 24C04	
	Honda Cars Element 2004 24C04	
	Honda Cars Fit 2002 24C04	
	Honda Cars Pilot 2002 24C04	
	Honda Cars Pilot 2002 24C04	
Hyundai	Hyundai Accent 2004 93C56	
	Hyundai Coupe 2005 93C66	
	Hyundai Elantra 2005 93C66	
	Hyundai H1 2001 93C56	
	Hyundai H200 2001 93C56	
	Hyundai SantaFe 2006 93C56	
	Hyundai Sonata 2003 93C56	
	Hyundai Starex 2002 93C56	
	Hyundai Terracan 2001 93C56	
	Hyundai Trajet 2000 93C56	
	Hyundai SantaFe 2005 93C66	
	Hyundai Sonata 2005 93C66	
	Hyundai Tiburon 2005 93C66	
	Hyundai Tucson 2005 93C66	
	Hyundai Tuscani 2005 93C66	
	Hyundai Accent 2004 95040 95160 95320	
	Hyundai Atos Prime 2003 95040 95160	
	Hyundai Elantra 2004 95040 95160	
	Hyundai Elantra 2010 95320	

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	Hyundai Era 2008 95040 95160	
	Hyundai Getz 2007 95040 95160 95320	
	Hyundai i30 2008 95320	
	Hyundai SantaFe 2009 95320	
	Hyundai Sonata 2008 95040 95160	
	Hyundai Verna 2007 95040 95160	
	Hyundai Coupe 2002 68HC908	
	Hyundai H1 2001 95P08	
	Hyundai SantaFe 2002 95P08	
	Hyundai Starex 2001 95P08	
	Hyundai i10 2010 95160	
	Hyundai i30 2009 95160	
	Hyundai i30 2012 TC1762	
	Hyundai Solaris 2012 TC1762	
	Hyundai Sonata 2006 29BDD160 HITAG	
	Hyundai Sonata 2008 MPC5XX	
	Hyundai Terracan 2003 95080	
KIA	KIA Carnival 2002 93C56	
	KIA Magentis 2001 93C56	
	KIA Rio 2001 93C46	
	KIA Sorento 2003 93C56	
	KIA Sephia 1999 93C46	
	KIA Sportage 2001 93C46	
	KIA Carnival 2000 93C46	
	KIA Clarus 93C46	

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	KIA Sedona 1999 93C46	
	KIA Shuma 2000 93C46	
	KIA Sportage 1999 93C46	
	KIA Cerato 2003 95040 95160	
	KIA Sorento 2007 95320	
	KIA Spectra 2005 95040 160	
	KIA Cee' d 2008 95320	
	KIA Carens 2001 95P08	
	KIA Cee' d 2005 95160	
	KIA Cee' d 2012 TC1762	
	KIA Sportage 2008 MPC5X	
	KIA Bongo 3 2003 95080	
	KIA Soul 2008 TC1766	
Suzuki	Suzuki Alto 2002 24C01 4D	
	Suzuki Ignis 2000 24C01 4D	
	Suzuki Jimny 2003 24C01 4D	
	Suzuki Motorcycles 32920-01H10 93C66	
	Suzuki Motorcycles 32920-02H00 93C66	
	Suzuki Motorcycles 32920-21H50 93C66	
	Suzuki Motorcycles 32920-44GX0 93C66	
	Suzuki Motorcycles 32920-15H00 93C66	
	Suzuki Motorcycles 32920-15H30 93C66	
	Suzuki Motorcycles 32920-23H00 93C66	
	Suzuki Motorcycles 32920-37Hx0 93C66	

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	Suzuki Motorcycles 32920-38Hx0 93C66	
	Suzuki Motorcycles 32920-47H00 93C66	
	Suzuki Motorcycles 32920-41G50 93C66	
	Suzuki Alto 2006 93C56 HIAG	
	Suzuki Alto 2009 93C86 HIAG	
	Suzuki Grand Vitara 2006 93C56 HITAG	
	Suzuki Swift 2006 93C56 HIAG	
	Suzuki SX4 2006 93C56 HIAG	
	Suzuki Grand Vitara 2003 24C01 HITAG	
	Suzuki Splash 2009 93C66	
	Suzuki SX4 2012 TC172 HIAG	
Volkswagen	Fox 2005 9S12	
	Polo MagnetiMarelli 2006 9S12	
	Golf IV 1999 VDO 93C86	
	Jetta 2008 for Mexico 93C86	
	Passat DashboardVDO 1999 93C86	
	Beetle 1998 HC912	
	Fox 2008 93C56	
	Gol ImmoBox 93C56	
	Pointer ImmoBox 2004 93C56	
	Santana 2006 93C56	
	ImmoBox bypartNo 377953257A 93C56	
	Golf IV 1998 MotoMeter 93C56	
	T5 VDO 2003 93C86	

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	Golf IV 1998 VDO 93C66	
	Golf IV 2002 BOSCH RB8 24C08	
	Passat DashboardVDO 1997 93C66 ID48	
ChangAn	Chang' an benben 95040	
Bentley	Arnage_1998_24C04	
FIAT	Coupe_1996_93C46	
	Croma_1996_93C46	
	Panda_2002_9S12	
	Sedici_2006_93C56	
Mitsubishi	Carisma_2000_93C56	
	Mitsubishi Fuso Canter 2009 93C66 4D	
	Mitsubishi Montero 2000 68HC805	
	Mitsubishi Pajero 2000 68HC805	
	Mitsubishi Pajero Sport 2000 68HC805	
	Mitsubishi Space Wagon 1999 68HC805	
	Mitsubishi_Star_1999_93C56	
	Mitsubishi ASX 2010 24C16	
	Mitsubishi Lancer 2008 24C16	
	Mitsubishi Lancer X 2009 24C16	
	Mitsubishi Outlander 2006 24C16	
	Mitsubishi Colt 2004 9S12	
	Mitsubishi Galant 2004 24C01	
	Mitsubishi Grandis 2003 24C01	
Mitsubishi Pajero IV 24C01		

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	Mitsubishi Grandis 2006 24C02	
	Mitsubishi L200 2006 24C02	
	Mitsubishi Montero 2007 24C02	
	Mitsubishi Nativa 2008 24C02	
	Mitsubishi Pajero Sport 2007 24C02	
	Mitsubishi Lancer 2004 24C01	
	Mitsubishi Outlander 2004 24C01	
	Mitsubishi L200 2010 25320	
	Mitsubishi Mirage 2010 25320	
	Mitsubishi Raider 2005 9S12	
Alfa Romeo	145_93C46	
	146_93C46	
	155_93C46	
	156_93C46	
	164_93C46	
	166_1998_93C56	
	GTV_93C46	
	Spider_93C46	
Citroen	Berlingo_1998_93C46	
	Elysee_2002_93C46	
	Citroen Xantia 1999 93C66 ID48	
	Citroen Xantia 2001 95040	
	Citroen Berlingo 2000 NEC	
	Citroen Xsara 2000 NEC	
	Citroen DS3 2009 24C128	

Ford	Galaxy_1995_2003_Diesel_24C04	
	Galaxy_1995_2003_Gasoline_77014	
	Ford Edge_2007- (93C66, 4D)	
	Ford Escape_2001 (77014)	
	Ford Explorer_2004-(77014)	
	Ford Fiesta_93C56	
	Ford Fiesta_95P04	
	Ford Fiesta_2007(95160)	
	Ford Fiesta_2009(9S12)	
	Ford Focus_1998_95P04_DST40	
	Ford Focus_1998_77012_DST40	
	Ford Focus_1998_77014_DST40	
	Ford Focus_2007_93C56_DST40	
	Ford F_series_100_93C56	
	Ford Fusion_2007_93C56	
	Ford Fusion_2007(95160)	
	Ford Maverick_77014	
	Ford Mondeo_2000_77014	
	Ford Mondeo_2001_95P04	
	Ford Mondeo_2001_77014	
	Ford Ranger_93C56	
	Ford Taurus_2000_77014	
	Ford Transit_2000_95P04	
	Ford Transit_2000_77014	
	Ford Transit_2003_77014	

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	Ford Transit Connect_95P04	
	Ford Fiesta 2002...2008	
	Ford Fusion 2002 93C86	
	Ford Explorer 2007 93C86	
Iveco	Daily_1996_93C46	
Lancia	K_93C46	
Peugeot	106_93C46	
	206_1998_HC05	
	406_1997_93C46_ID33	
	Partner_1997_93C46	
	Peugeot Cars 607 2001 93C66 MEG48	
	Peugeot Cars Partner 2000 NEC	
	Peugeot Cars 206 2001 95160 HIAG	
	Peugeot Cars Partner 2002 95160 HITAG	
	Peugeot Cars 4007 2008 24C16	
Seat	Immobox_NO.6X0_953_257_24C04	
	Cordoba MagnetiMarelli 2004 9S12	
	Ibiza MagnetiMarelli 2006 9S12	
	Leon MagnetiMarelli 2004 9S12	
	Ibiza VDO 2000 93C66	
	Toledo 1999 VOD 93C86	
Kawasaki	Kawasaki Mitsubishi 21175-0079 24C04	
	Kawasaki Mitsubishi 21175-0158 24C04	
	Kawasaki Denso 21175-0046 93C66	
	Kawasaki Denso 21175-0053 93C66	

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	Kawasaki Denso 21175-0097 93C66	
	Kawasaki Denso 21175-0098 93C66	
	Kawasaki Denso 21175-0109 93C66	
	Kawasaki Denso 21175-0170 93C66	
	Kawasaki Denso 21175-0173 93C66	
	Kawasaki Denso 21175-0227 93C66	
	Kawasaki Denso 21175-0220 93C66	
	Kawasaki Denso 21175-0272 93C66	
	Kawasaki Denso 21175-0341 93C66	
	Kawasaki Denso 21175-0363 93C66	
	Kawasaki Denso 21175-0356 93C66	
	Kawasaki Denso 21175-0789 93C86	
	Kawasaki Denso 21175-0811 93C86	
	Kawasaki Mitsubishi 21175-0017 24C02	
AstonMartin	阿斯顿马丁 DB9 _2004_77014	
KTM	KTM 690 990 1190 9S12 DST40	
LDV	LDV Convoy 2000 95P04	
Renault	Renault Avantime 2001 HC912	
	Renault Megane 2000 68HC705 4D 4E	
	Renault Clio Sport 2009 9S12	
	Renault Megane 2003 9S12 Hitag	
	Renault Scala 2010 93C66	
Chevrolet	Chevrolet Epica 2003 68HC705	
	Chevrolet Evanda 2003 68HC705	
	Chevrolet Lacetti 2005 ST7	

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	Chevrolet Aveo 2006 93C56	
	Chevrolet Kalos 2006 93C56	
	Chevrolet Matiz 2006 93C56	
	Chevrolet Spark 2008 93C56 48	
	Chevrolet Tacuma 93C56	
	Chevrolet Camaro 2015 24C32	
	Chevrolet Cruze 2008 24C16	
	Chevrolet Equinox 2011 24C16 HIAG	
	Chevrolet Aveo 2009 93C76	
	Chevrolet Captiva 2011 9S08 HIAG	
	Chevrolet Silverado 2011 9S08 HIAG	
Lincoln	Lincoln LS 2000 MC68HC11	
Daewoo	Daewoo Lacetti 2006 ST7	
	Daewoo Kalos 2002 93C56	
	Daewoo Lanos 2002 93C56	
	Daewoo Leganza 2000 93C56	
	Daewoo Matiz 2001 93C56	
	Daewoo Nubira 2000 93C56	
FAW Group	FAW Group Besturn B50 95040	
	FAW Group Besturn B70 95040	
Infiniti	Infiniti Q45 2001 S29190	
Isuzu	Isuzu KB250D 93C66 4D	
	Isuzu D-Max 2010 93C66	
	Isuzu Forward FRR 2007 93C66	
	Isuzu Forward FTR 2009 93C66	

	Isuzu NPR 2007 93C56	
Mazda	Mazda 2 2003 93C56	
	Mazda 2 2009 9S12 [DST]	
	Mazda 2 2009 93C66	
	Mazda 3 Dashboard 93C56	
	Mazda 3 Dashboard 93C66	
	Mazda 5 93C56	
	Mazda 6 93C56, 66. 24C02	
	Mazda 6 2005 93C86	
	Mazda B3000 ECU 2001 95040	
	Mazda CX-7 93C66, 24C04 ID63	
	Mazda CX-7 93C66, 24C04 ID63	
	Mazda Demio 2009 9S12 [dst]	
	Mazda RX-8 24C02	
	Mazda Tribute Dashboard 2008 9S12	
	MazdaTribute ECU 2004 93C56	
	MazdaTribute ECU 2006 95040	
Nissan	Nissan NATS-5	
Scania	Scania R470	
SsangYong	SsangYong Actyon Diesel MSP430	
	SsangYong kyron Diesel MSP430	
	SsangYong Rexton Diesel MSP430	
	SsangYong Actyon Gasoline 29Fxxx	
	SsangYong korando Gasoline 29Fxxx	
	SsangYong Musso Gasoline 29Fxxx	

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	SsangYong Musso 2001 MC68HC05	
	SsangYong Rexton Gasoline 29Fxxx	
Subaru	Subaru Forester 2004 24C01	
	Subaru Impreza 2004 24C01	
	Subaru Legacy 2005 24C01	
	Subaru Tribeca 2005 24C01	
Yamaha	Yamaha Immo Moric S29190	
Brilliance	Brilliance M2 93C66	
	Brilliance Zhonghua FRV 24C01	
	Brilliance Zhonghua FSV 93C56	
Great Wall	Great Wall- Haval (Hover) H3 H5-93C66	
TagAZ	TagAZ Road Partner 29Fxxx	
DAF	DAF 2002	
Maserati	Maserati Quattroporte 2004 HC912	
Skoda	Skoda Fabia 2000 93C86	
	Skoda Octavia 2001 93C86	
Pontiac	Pontiac G3 (93C56)	
	Pontiac G3 (93C76)	
Acura	Acura CSX 2008 24C04	
	Acura MDX 2008 24C04	
	Acura RDX 2008 24C04	
	Acura TL 2008 24C04	
	Acura TSX 2008 24C04	
Acura	Acura Agila 2008 93C66	
	Acura Astra J 2008 25160	

	Acura Mokka 2008 24C16 HITAG	
Cadillac	Cadillac ATS 2012 95320 HIA	
Roewe	Roewe 750 2007 9S12	
SAIC	SAIC MG3 2011 24C16	
Tata	Tata Indica 2008 24C04	
	Tata Indigo 2008 24C04	
VAZ	VAZ Priora 2013 95040	
	VAZ APS6 24C04	
UAZ	UAZ Hunter 2010 TC1762	
Smart Forfour	Smart Forfour 2004 9S12	
Chrysler	Chrysler 300C 2005 9S12	
	Chrysler Aspen 2005 9S12	
	Chrysler 300C 2008 93C86	
	Chrysler Voyager 2008 93C86	
Dodge	Dodge Dakota 2005 9S12	
	Dodge Durango 2005 9S12	
	Dodge Journey 2009 93C86	
Jeep	Jeep Commander 2006 9S12	
	Jeep Grand Cherokee 2005 9S12	
	Jeep Commander 2007 93C86	
	Jeep Grand Cherokee 2008 93C86	
	Jeep Liberty 2004 95080	

5.6 Gateway computer

Vendor	Model	Remarks
Mercedes	204/212-1L15Y	
	204/212-1L15Y (FLASH)	Loadable CGMB production special data
	204/212-3M25J	
	204/212-3M25J (FLASH)	Loadable CGMB production special data

5.7 VIN

Vendor	Model	Remarks
BMW	CAS1 - CAS4	Load data identification, modify the VIN

5.8 Key Refresh

Vendor	Model	Remarks
Audi	8K0959754C	
	8T0959754J_2 smart card	
	8T0959754J_CH	
	Generic type smart card that Applicable to all 5 generations	
	PCB1 8T0959754 433 remote control	

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	PCB1 8T0959754A 315 remote control	
	PCB1 8T0959754D 868 remote control	
	PCB1 8T0959754F 433 smart card	
	PCB2 8T0959754 433 remote control	
	PCB2 8T0959754D 868 remote control	
	PCB2 8T0959754F 433 smart card	
	PCB2 8T0959754G 315smart card	
	PCB2 4H0959754G 315 smart card	
	PCB2 4H0959754K 868 smart card	
	PCB2 4G0959754G 315 smart card	
	PCB2 4G0959754K 868 smart card	
	PCB3 4H0959754DA 433 smart card	
	PCB3 4H0959754DB 315 smart card	
	PCB3 4H0959754DD 868 smart card	
Porsche	7PP959753AJ 434MHZ	
	7PP959753BM 315MHZ	
	7PP959753BN 434MHZ	
	7PP959753BQ 315MHZ	
	7PP959753BS 434MHZ	
Volvo	5WK49269 (433MHZ) smart card	
	5WK49266 (900MHZ) smart card	
BMW E Series	5WK49125 E series 868MHZ remote control	
	5WK49127 E series 315MHZ remote control	
	5WK49145 E series 868MHZ smart card	
	5WK49147 E series 315MHZ smart	

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	card	
BMW F Series	5WK49661 F series 868MHZ Continental	
	5WK49663 F series 315MHZ Continental	
	5WK49662 F series 434MHZ Continental	
	HUF5661 F series 868MHZ Huf	
	HUF5662 F series 315MHZ Huf	
	HUF5663 F series 434MHZ Huf	
	HUF5667 F series 434MHZ Huf	
	Huf-F series 868 frequency	
	Huf-F series 434 frequency	
Mitsubishi	GBD-644M-KEY (433MHZ)	
Peugeot	21676652	
	E28CI01B	
	E25CI009	
	E33CI002	
Renault	285970036R (Hitag2-433MHZ)	
	285975779R smart card 433MHZ	
	285979045R smart card 433MHZ	
	285974100 remote control (Hitag-AES 433MHZ)	
	285971998R smart card (Hitag-AES 433MHZ)	
Mazda	JX331BB1002A 2 key smart card	
	JX331BB1002A 3 key smart card	
Nissan	315MHZ Hitag2 smart card-A2C53188764	
	315MHZ Hitagsmart card-A2C53297341	

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	433MHZ Hitag3smart card-A2C53405173	
	Hitag2 smart card FCCID-CWTWB1U825 2 key	
	AES smart card-A232801600-c24 3 key 433MHZ	
	AES smart card-A2C32801600-E12 4 key 433MHZ	
	AES smart card-A232800800 5 key 433MHZ	
Great Wall	H2 smart 434MHZ PCB: CU1897L	
Chrysler & Jeep & Dodge	GQ4-54T AES Prox	
	IYZ-C01Csmart card	
	IYZ-C01C M3N5W783X Chip screen printing: 567.738.031	
	KOBOT04A	
	M3M Chip screen printing: F7953MC	
	M3M Hitag2	
	M3N5WY72XX	
	M3N5WY783X	
	M3N3322971XX	
	OHT692427AA (2005)	
OHT692713AA		
BYD	K2TA4-30A smart card	
	K2TA3-74B smart card black	
	K2TA3-76E smart card	
	K2TA3-H7J smart caed white oval	
	K2TD3-A0C smart card white	
	K2TD smart card white	
Buick	3 key intelligence 433MHZ F7952E	

& Chevrolet	4 key intelligence 315MHZ F7952E	
	4 key intelligence 433MHZ F7952E	
	5 key intelligence 315MHZ F7952E	
	5 key intelligence 433MHZ F7952E	
Hyundai & KIA	MP13A_15	
	MP13L-12	
	SVI_DMFGEO4	
	SVI_DMFNAO4	
	SVI_MDFGEO3	
	SVI_CMFCHO2	
	SVI_CMFEOU3	
	SVI_HMFEOU4	
	SVI_HMFKRO4	
SVI_HMFNAO4		
Land Rover	YWX000071 (315MHZ)Visteon	
	YWX000061 (434MHZ)Visteon	
	5EOU40247 (434MHZ)	

5.9 Airbag

Vendor	Model	Remarks
Volvo	XC90 (P31451730) (EEPROM)	
	XC90 (P31451730) (FLASH)	
Baojun	560 (23945367) (EEPROM)	

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	560 (23945367) (FLASH)	
Haima	S5 (SA12-57-K30) (EEPROM)	
	S5 (SA12-57-K30) (FLASH)	
Buick	Regal 10 Year (13578320TB) (EEPROM)	
	Regal 10 Year (13578320TB) (PFLASH Backup)	
KIA	SPORTAGE (95910-03100) (EEPROM)	
	SPORTAGE (95910-03100) (PFLASH Backup)	

5.10 Others

Vendor	Model	Remarks
Mercedes	W221 LU	
	S350Left rear door module	
	V260_Steering column	
BMW	F series SZL module	
	FRM computer (E series)	
	FRM computer (F series)	
Audi	ESL-4L35K (Lockless version)	
Volkswagen	Golf 6 radar module	
Buick	Lu Zun BCM	
	Regal 10 - airbag computer	
	Regal 10 - airbag computer (Backup PFLASH)	
Shanghai	Shanghai Huaying BCM	

Huaying		
Nissan	Scorpio-BCM-3M25J (EEPROM)	
	Scorpio-BCM-3M25J (DFLASH)	
	Scorpio-BCM-3M25J (BackupPFLASH)	
	Scorpio-BCM-1L15Y (EEPROM)	
	Scorpio-BCM-1L15Y (Backup PFLASH)	
Kia	Lion running airbag computer (EEPROM)	
	Lion running airbag computer (Backup PFLASH)	

6. Chip support list

6.1 CPU→MCU

Vendor	Model	Remarks
Renesas - V850	D70F3231	8 pins/V850 Adaptor
	D70F3232	
	D70F3233	

D70F3234
D70F3235
D70F3236
D70F3237
D70F3238
D70F3239
D70F3333
D70F3334
D70F3335
D70F3336
D70F3340
D70F3341
D70F3342
D70F3343
D70F3344
D70F3345
D70F3346
D70F3347
D70F3348
D70F3350
D70F3351
D70F3352
D70F3353
D70F3354
D70F3355

D70F3356
D70F3357
D70F3358
D70F3364
D70F3365
D70F3366
D70F3367
D70F3368
D70F3370A
D70F3371
D70F3372
D70F3373
D70F3374
D70F3375
D70F3376A
D70F3377A
D70F3378
D70F3379
D70F3380
D70F3381
D70F3382
D70F3383
D70F3384
D70F3385
D70F3402

D70F3403
D70F3416
D70F3417
D70F3421
D70F3422
D70F3423
D70F3424
D70F3425
D70F3426
D70F3427
D70F3433
D70F3469
D70F3522
D70F3523
D70F3524
D70F3525
D70F3526
D70F3548
D70F3549
D70F3550
D70F3551
D70F3552
D70F3553
D70F3554
D70F3555

D70F3557
D70F3558
D70F3559
D70F3560
D70F3585
D70F3611
D70F3612
D70F3613
D70F3614
D70F3615
D70F3616
D70F3617
D70F3618
D70F3619
D70F3620
D70F3621
D70F3622
D70F3623
D70F3628
D70F3634
D70F4000
D70F4001
D70F4002
D70F4003
D70F4003

	D70F4005	
	D70F4006	
	D70F4007	
	D70F4008	
	D70F4009	
	D70F4010	
	D70F4011	
	D70F4012	
Motorola - 9S12	9S12C128	DB25 Cable
	9S12C32	
	9S12C64	
	9S12C96	
	9S12D32	
	9S12DJ512	
	9S12DT512	
	9S12DP512	
	9S12D64-2L86D	
	9S12DG128-3L40K	
	9S12DG256-2K79X	
	9S12DJ-0M89C	
	9S12DT128-1L59W	
	9S12DT128-1L85D	
	9S12DT128-4L40K	
	9S12DT256-0L01Y	
	9S12G128	

9S12G192
9S12G240
9S12G48
9S12G64
9S12G96
9S12GA128
9S12GA192
9S12GA240
9S12GA48
9S12GA64
9S12GA96
9S12GC128
9S12GC16
9S12GC32
9S12GC64
9S12GC96
9S12GN16
9S12GN32
9S12GN48
9S12GNA16
9S12GNA32
9S12H128
9S12H256
9S12HA32-0M34S
9S12HA48-0M34S

9S12HA64-0M34S
9S12HY32-0M34S
9S12HY48-0M34S
9S12HY64-0M34S
9S12HZ128-3L16Y
9S12HZ256-3L16Y
9S12KGKT128
9S12KGKT256
9S12XD64
9S12XD128
9S12XDG128
9S12XD256
9S12XDQ256
9S12XDT256
9S12XDG256
9S12XDT384
9S12XDP512-0L15Y
9S12XDP512-0M23S
9S12XDP512-1L15Y
9S12XEG384-3M25J
9S12XEP100-1N35H
9S12XEP100-5M48H
9S12XEP768-1N35H
9S12XEP768-4M48H
9S12XEQ384-1M12S

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	9S12XET256-2M53J		
	9S12XET512-2M25J		
	9S12XF256-1M64J		
	9S12XHY128-0M23Y		
	9S12XHY256-0M23Y		
	9S12XHZ384-1M80F		
	9S12XHZ512-1M80F		
	9S12XS64		
	9S12XS128		
	9S12XS256		
	9S12XEP100-5M48H(Convenience)		
	9S12XEP100-1N35H(Convenience)		
Motorola - HC(7)05	HC705-0D40J		CG-PRO expanding board + HC705/908 Adaptor
	HC705-0D53J		
	HC705-0D59J		
	HC705-0D69J		
	HC705-0G47V		
	HC705-1D59J		
	HC705-1D69J		
	HC705-1H52A		
	HC705-2D59J		
Motorola - HC(7)11	HC711EA9-0D46J	HC711Adaptor	
	HC711EA9-1D47J		
	HC711EA9-2D47J		
Motorola	HC908AB32	DB25 Cable OR	

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- HC (9) 08	HC908ABAZ32A	CG-PRO expanding board +HC705/908 Adaptor
	HC908AZ60-1J35D	
	HC908AZ60-4J74Y	
	HC908GR16-4L35K (Unlock)	DB25 Cable
Motorola - HC (9) 12	HC912DG128-0K50E	DB25 Cable
	HC912DG128A-0L05H	
	HC912DG128A-3K91D	
	HC912DT128P-2L05H	
	HC912B32	
	HC912D60	
	HC912D60A	
	HC912BC32	
	HC12BC32	
HC12BE32		
HC912BD32		
Motorola - 9S08	9S08AC128	DB25 Cable
	9S08AC16	
	9S08AC32	
	9S08AC48	
	9S08AC60	
	9S08AC8	
	9S08AC96	
	9S08AW16	
	9S08AW32	
	9S08AW48	

9S08AW60
9S08AW8
9S08DN16
9S08DN32
9S08DN48
9S08DN60
9S08DV128
9S08DV16
9S08DV32
9S08DV48
9S08DV60
9S08DV96
9S08DZ128
9S08DZ16
9S08DZ32
9S08DZ48
9S08DZ60
9S08DZ96
9S08EL16
9S08EL32
9S08FL16
9S08FL8
9S08GB32
9S08GB60
9S08GT16

9S08GT32
9S08GT60
9S08GW32
9S08GW64
9S08JE128
9S08JE64
9S08JM16
9S08JM32
9S08JM60
9S08JM8
9S08JS16
9S08JS8
9S08LC36
LC60
9S08LG16-0M48V
9S08LG32-0M48V
9S08LH36
9S08LH64
9S08LL16
9S08LL36
9S08LL64
9S08LL8
9S08MM128
9S08MM32
9S08MM32A

9S08MM64
9S08QA2
9S08QA4
9S08QB4
9S08QB8
9S08QD2
9S08QD4
9S08QE128
9S08QE16
9S08QE32
9S08QE4
9S08QE64
9S08QE8
9S08QE96
9S08QG4
9S08QG8
9S08RC16
9S08RC32
9S08RC60
9S08RC8
9S08RD16
9S08RD32
9S08RD60
9S08RD8
9S08RE16

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	9S08RE32	
	9S08RE60	
	9S08RE8	
	9S08RG32	
	9S08RG60	
	9S08SC4	
	9S08SE4	
	9S08SE8	
	9S08SF4	
	9S08SG16	
	9S08SG32	
	9S08SG4	
	9S08SG8	
	9S08SH4	
	9S08SH8	
	9S08SL16	
	9S08SL8	
	9S08SU16	
	9S08SU8	
	9S08SV16	
	9S08SV8	
Fujitsu - MB91F	MB91F060	8pins/V850 Adaptor
	MB91F061S	
	MB91F062BS	
	MB91F067	

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	MB91F467S	
	MB91F575	
	MB91F577	
	MB91F578C	
	MB91F579C	
	MB91F591B	
	MB91F592B	
	MB91F594B	
	MB91F594BS	
	MB91F596B	
	MB91F597B	
	MB91F599B	
	MB91F59AC	
	MB91F59BC	
	TC1766	
	TC1793	
	TC1796	
	TC1797	
Infineon	XC2361A-56F	8pins/V850 Adaptor
	XC2361A-72F	
	XC2336A-56F	
	XC2336B-40F	
Microchip - PIC18F	PIC18F24J11	8pins/V850 Adaptor
	PIC18F24J50	
	PIC18F25J11	

	PIC18F25J50	
	PIC18F26J11	
	PIC18F26J13	
	PIC18F26J50	
	PIC18F26J53	
	PIC18F27J13	
	PIC18F27J53	
	PIC18F44J11	
	PIC18F44J50	
	PIC18F45J11	
	PIC18F45J50	
	PIC18F46J11	
	PIC18F46J13	
	PIC18F46J50	
	PIC18F46J53	
	PIC18F47J13	
	PIC18F47J53	
	PIC18F6520	
	PIC18F6620	
	PIC18F7620	
	PIC18F8520	
	PIC18F8620	
	PIC18F8720	
Microchip	PIC16F610	
- PIC16F	PIC16F506	

PIC16F505
PIC16F1823
PIC16F1936
PIC16F616
PIC16HV616
PIC16HV610
PIC16LF1823
PIC16LF1936
PIC16F722
PIC16F1847
PIC16LF1847
PIC16F1824
PIC16LF1824
PIC16F1825
PIC16LF1825
PIC16F1826
PIC16LF1826
PIC16F1827
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PIC16F1828
PIC16LF1828
PIC16F1829
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PIC16F1713
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PIC16LF1527
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PIC16LF1618
PIC16F1615
PIC16LF1615
PIC16F1619
PIC16LF1619
PIC16(L)F1703
PIC16(L)F1704
PIC16(L)F1705
PIC16(L)F1707
PIC16(L)F1708
PIC16(L)F1709
PIC16(L)F1716
PIC16(L)F1717
PIC16(L)F1718
PIC16(L)F1719
PIC16(L)F18324
PIC16F18325
PIC16(L)F18326
PIC16(L)F18344
PIC16F18345
PIC16(L)F18346
PIC16LF18325
PIC16LF18345

	PIC16F1946	
	PIC16LF1946	
	PIC16F1947	
	PIC16LF1947	
	PIC16LF1566	
	PIC16LF1567	
	PIC16LF1904	
	PIC16LF1906	
	PIC16LF1907	
	PIC16F631	
	PIC16F636	
	PIC16F639	
	PIC16F677	
	PIC16F684	
	PIC16F685	
	PIC16F687	
	PIC16F688	
	PIC16F689	
	PIC16F690	
Microchip - PIC10F 12F	PIC10F220	
	PIC10F222	
	PIC12F1501	
	PIC12F1571	
	PIC12F1572	
	PIC12F1612	

	PIC12F1822	
	PIC12F1840	
	PIC12F508	
	PIC12F509	
	PIC12F510	
	PIC12F519	
	PIC12F608	
	PIC12F609	
	PIC12F615	
	PIC12F617	
	PIC12F635	
	PIC12F683	
	PIC12FHV609	
	PIC12FHV615	
	PIC12FLF1501	
	PIC12FLF1552	
	PIC12FLF1571	
	PIC12FLF1572	
	PIC12FLF1612	
	PIC12FLF1822	
	PIC12FLF1840	
	R7F701002	
	R7F701003	
	R7F701006	
	R7F701007	

Renesas - RH850	R7F701008	8pins/V850Adaptor
	R7F701009	
	R7F701010	
	R7F701011	
	R7F701012	
	R7F701013	
	R7F701014	
	R7F701015	
	R7F701016	
	R7F701017	
	R7F701018	
	R7F701019	
	R7F701020	
	R7F701021	
	R7F701022	
	R7F701023	
	R7F701024	
	R7F701025	
	R7F701026	
	R7F701027	
	R7F701028	
	R7F701029	
	R7F701030	
	R7F701033	
	R7F701034	

R7F701040
R7F701041
R7F701042
R7F701043
R7F701044
R7F701045
R7F701046
R7F701047
R7F701048
R7F701049
R7F701050
R7F701051
R7F701052
R7F701053
R7F701054
R7F701055
R7F701056
R7F701057
R7F701401
R7F701402
R7F701403
R7F701404
R7F701405
R7F701406
R7F701407

	R7F701408	
	R7F701410	
	R7F701411	
	R7F701412	
	R7F701421	
	R7F701422	
	R7F701423	
	R7F701424	
	R7F701425	
	R7F701426	
	R7F701427	
	R7F701428	
	R7F701430	
	R7F701431	
	R7F701432	
	R5F2154	
	R5F21546E	
	R5F21546F	
	R5F21546G	
	R5F21546H	
	R5F21547E	
	R5F21547F	
	R5F21547G	
	R5F21547H	
	R5F21548E	

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Renesas - R8C	R5F21548F	8pins/V850 Adaptor
	R5F21548G	
	R5F21548H	
	R5F2154AE	
	R5F2154AF	
	R5F2154AG	
	R5F2154AH	
	R5F2154CE	
	R5F2154CF	
	R5F2154CG	
	R5F2154CH	
Motorola - MPC56XX	MPC5604P	8pins/V850 Adaptor
Freescale - MAC7XXX	MAC7241	8pins/V850 Adaptor
	MAC7242	
Renesas - H8SX	R5F61721	8pins/V850 Adaptor
	R5F61723	
	R5F61725	
	R5F61726	
	R5F61727	
NXP - PCF79XX	PCF7941	8pins/V850 Adaptor
	PCF7945	
	PCF7952	
	PCF7953	
	ST10F267	

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ST - ST10F	ST10F272	8pins/V850 Adaptor
	ST10F275	
	ST10F269	
	ST10F276	
TI - TMS570	TMS570LS1113	8pins/V850 Adaptor
	TMS570LS1114	
	TMS570LS1224	
ST - SPC560	SPC560B40L1	8pins/V850 Adaptor
	SPC560B40L3	
	SPC560B40L5	
	SPC560B50L1	
	SPC560B50L3	
	SPC560B50L5	
	SPC560B50B2	
	SPC560B54L3	
	SPC560B54L5	
	SPC560B60L3	
	SPC560B60L5	
	SPC560B60L7	
	SPC560B64L3	
	SPC560B64L5	
	SPC560B64L7	
	SPC560C40L1	
	SPC560C40L3	
SPC560C50L1		
SPC560C50L3		

	SPC560D30L1	
	SPC560D30L3	
	SPC560D40L1	
	SPC560D40L3	
	SPC560P44L3	
	SPC560P44L5	
	SPC560P50L3	
	SPC560P50L5	
	SPC560P54L3	
	SPC560P54L5	
	SPC560P60L3	
	SPC560P60L5	
	SPC56AP54	
	SPC564B64L8	

6.2 Storage Chips

Vendor	Model	Remarks
AMD	AM29BL802CB	CG-PRO expanding board+AM29BLXXX adaptor
	AM29F200BB	CG-PRO expanding board+AM29FXXX adaptor
	AM29F400BB	
	AM29F800BB	

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ST	080DQ	M35080adaptor
	160DQ	
	35080VP V6	
	35080_3 6	
	35128WT	35160WT Dedicated adaptor
	35160WT	
	M29F200BB	CG-PRO expanding board + AM29FXXX Adaptor
	M29F400BB	
8 PIN	24C01	8 pins/V850 Adaptor
	24C01A	
	24C01B	
	24C02	
	24C02B	
	24C04	
	24C08	
	24C16	
	24C32	
	24C64	
	24C128	
	24C256	
	24CLC01	
	24LC01A	
	24LC02	
	24LC04	
	24LC16	

24LC32
25010
25020
25040
25080
25128
25256
25320
25640
93A86
93C46
63C56
93C57
93C66
93C76
93C86
93CS56
93CS66
93LC46
93LC56
93LC66
93LC76
93LC86
93S56
95010

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	95020	
	95040	
	95080	
	95128	
	95160	
	95256	
	95320	
	95640	

CG-PRO