CKM200 Instruction

Version（V1.03）

March 2th,2010

Content

Important Statement:

This instruction is only available for reference for users. Nanning Auto Service Co., Ltd. reserves the right to change the product or product instruction without notice, reserves the right not to update this document to inform these changes.

I. Product Introduction

1 . Features

- **For BMW & BENZ** and more vehicles in the coming future;
- **Multi-functions:** Integrate functions such as key information reading, data calculating, key writing, and is applicable to both old and new models.
- **Easy operation:** Graphical workflow will make it easy for your operation. What s more, our CKM200 can be operated via OBD socket, CAN or K line on many models without disassembly.
- **Innovative Payment Methods --- Pay as you go!**
- **High security of G3 platform:** CKM200 is based on our G3 (the third generation) platform which adopted IDEA (International Data Encryption Algorithm) for registration, upgrade and payment.

2. Applicable Vehicles

2.1 BENZ

Benz S CLASSW140 W220

Benz CL CLASSW215

Benz SL CLASSR230

Benz E CLASSW210, W211

Benz CLK CLASSW208, W209

Benz CLS CLASS (W219)

Benz C CLASS (W202, W203)

Benz ML CLASS (W163)

2.2BMW

Old BMW (EWS2.EWS3.EWS4)

BMW 1/3/5/6E87.E90.E91.E92.E60.E61.E63.E64series white shell CAS 2

BMW 1/3/5/6/XE87.E90.E91.E92.E60.E61.E63.E64.E70.E71series black shell CAS 2

BMW 1/3/5/6/XE87.E90.E91.E92.E60.E61.E63.E64.E70.E71series black shell CAS 3

BMW 7 series E66 CAS 2005- CAS 2

3. CKM200 Device

Ⅱ Software Installation

Operation steps:

Double click to install “CKM 200-1.00-CN.exe”

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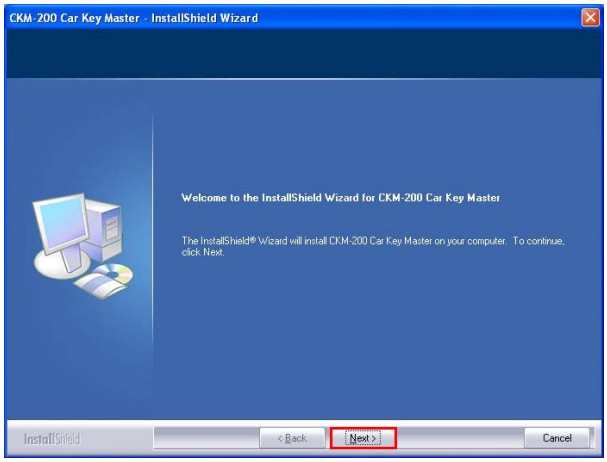

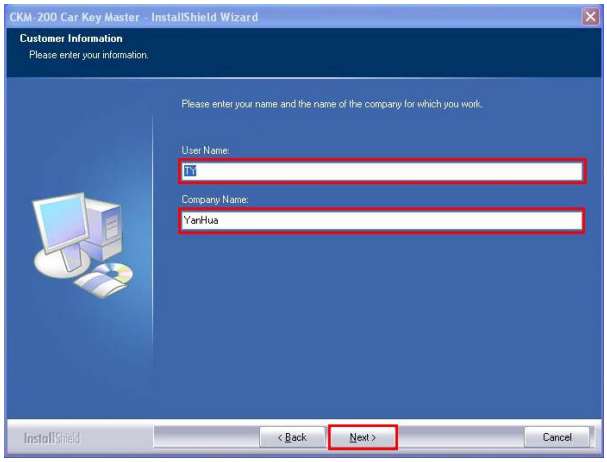

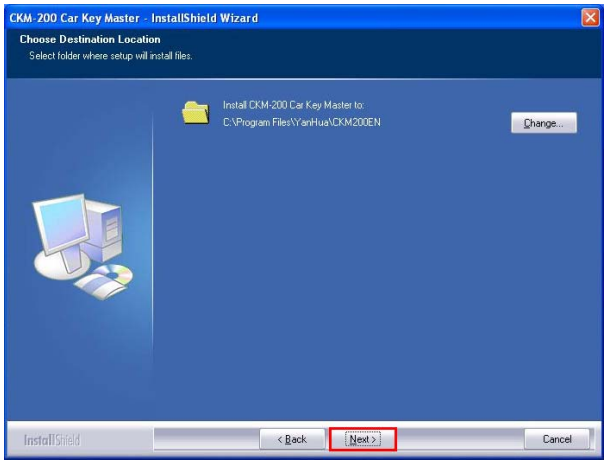

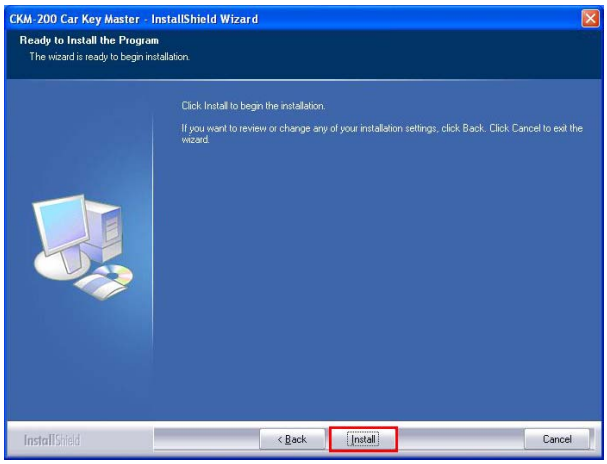

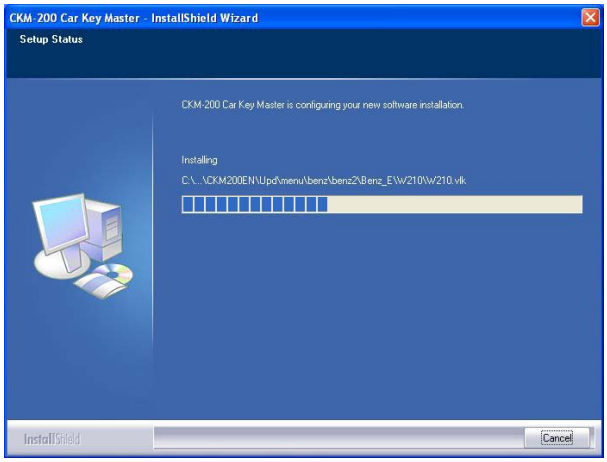

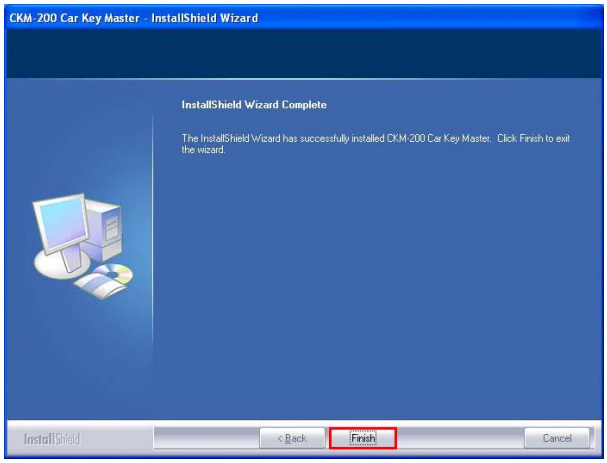

You have completed the software installation ,and the computer desktop displays the icon. 

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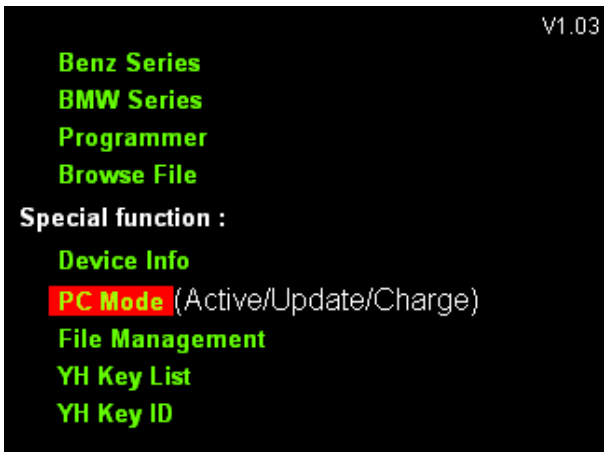
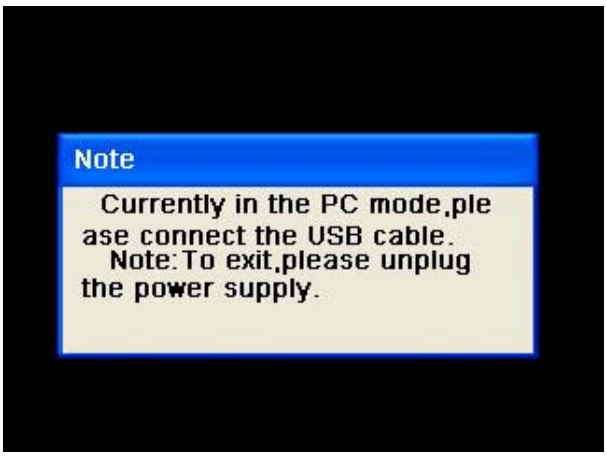
Ⅲ Activation

Note: Make sure the computer has been online before doing product activation operation.

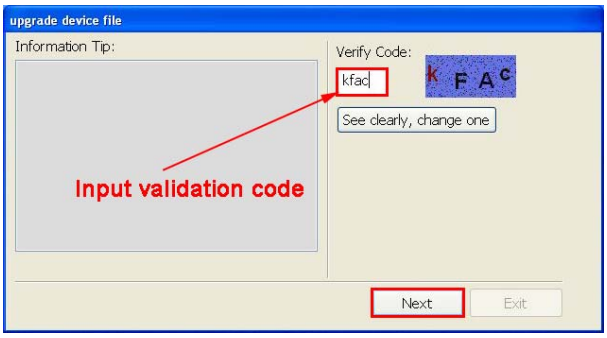
Operation steps:

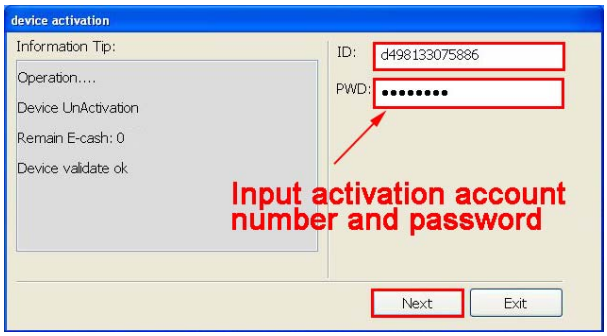
1. Connect device power;
2. Operate device manually, select the "PC mode", then the device connect computer with USB cable ;

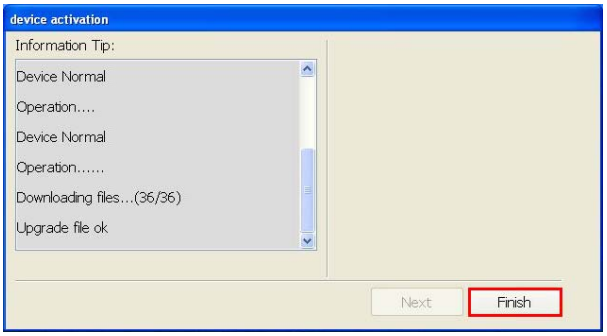




3. Click to run CKM-200 Car Key Master；（Operate as the following figure）







Ⅳ Payment

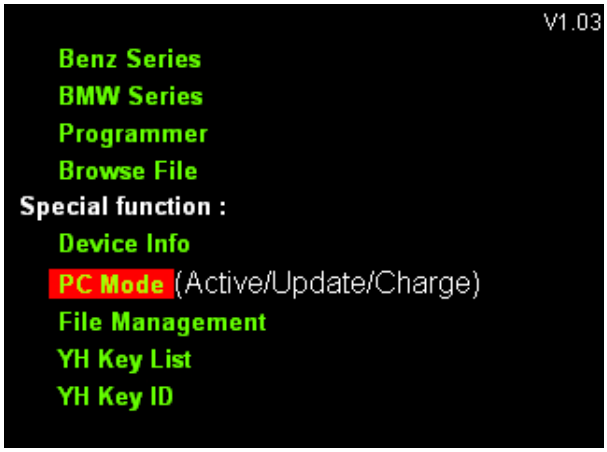
Function: input token card account to hardware device, ensure that the device can be used normally.

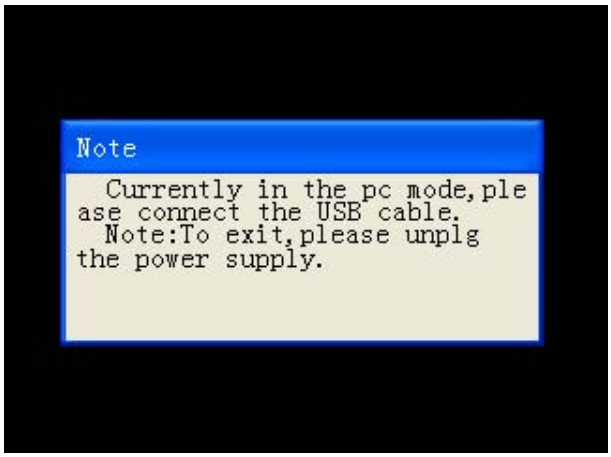
Note: Make sure the computer has been online before doing product payment operation.

Operation steps:

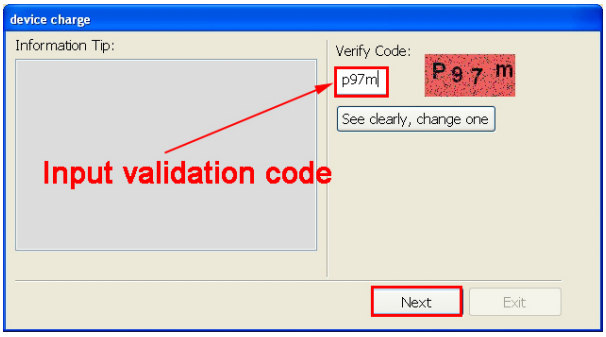
1.Connect device power;

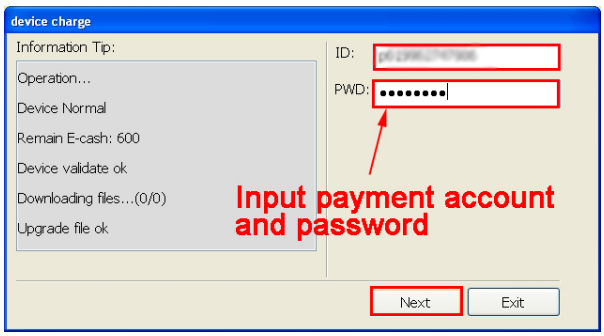
2.Operate device manually, select the "PC mode", then the device connect computer with USB cable ;

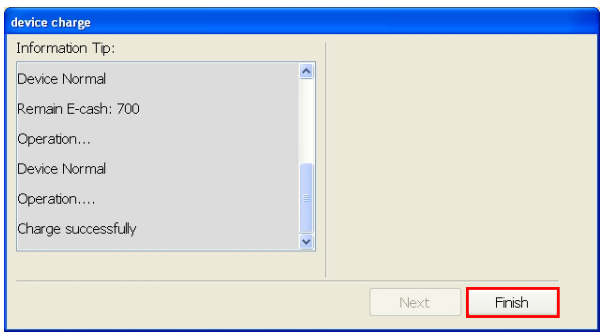




3. Run Car Key Master(CKM 200.exe), click "Management" → "Payment", operate as the following figure







Ⅴ Upgrade

Product Upgrade

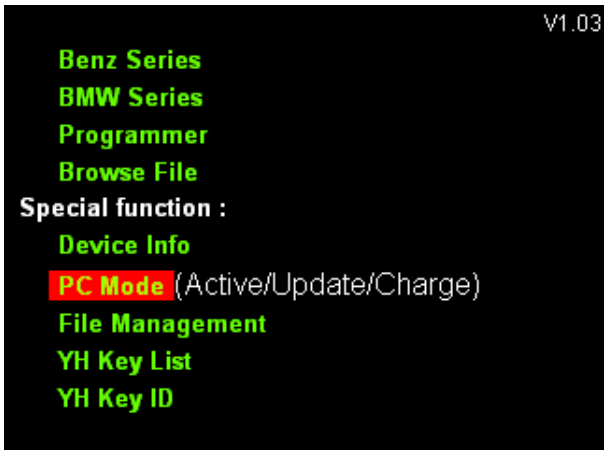
Function: Update the device operation interface and functionality

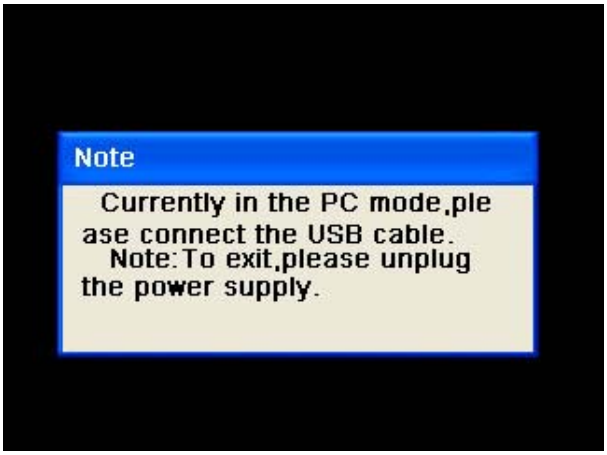
Note: Make sure the computer has been online before doing product upgrade operation.

Operation steps:

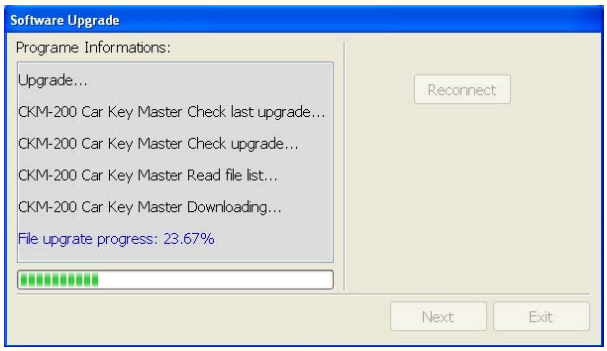
1. Connect device power;

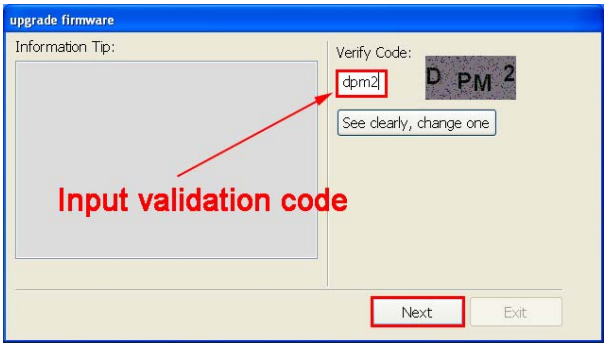
2. Operate device manually, select the "PC mode", then the device connect computer with USB cable ;

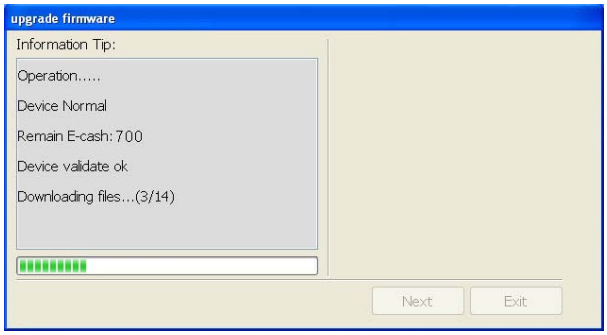




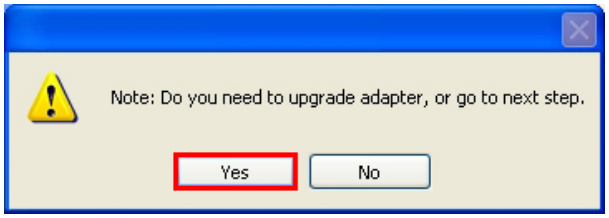
3. Run Car Key Master(CKM 200.exe), click "Management" → "Update"→ "Product Update" ,operate as the following figure

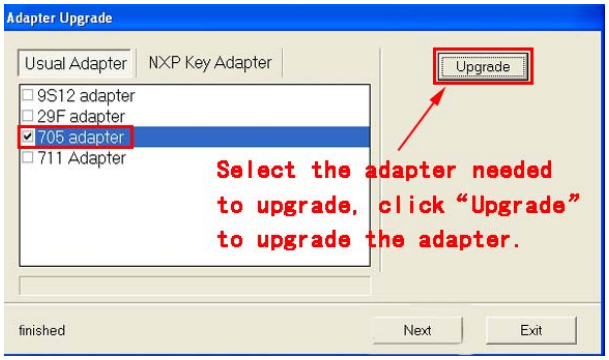


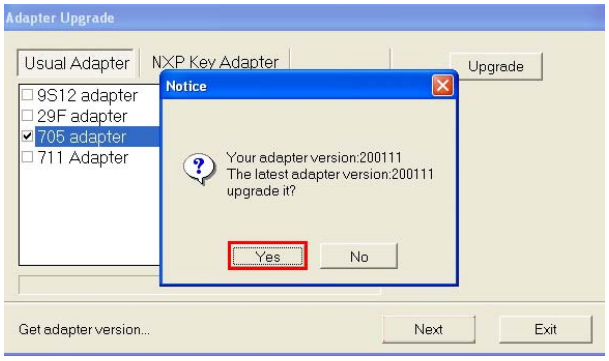


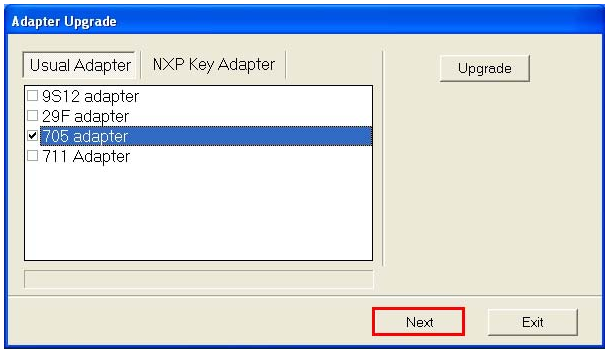


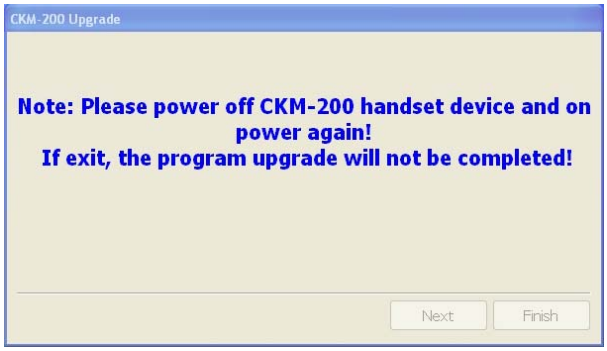
4. After the firmware upgrade completed there will pop up a dialog box and prompt whether you need to upgrade adapter, if yes, click "Yes" to upgrade adapter; If not, click "No" to cancel adapter upgrade.

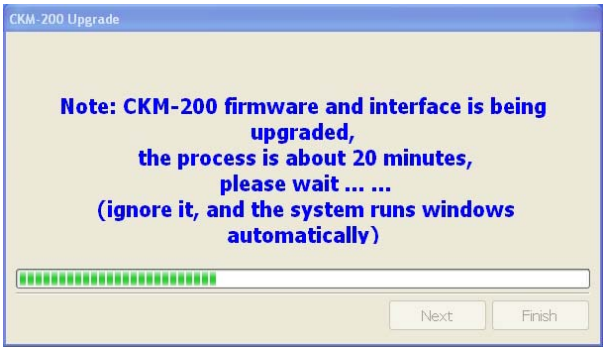


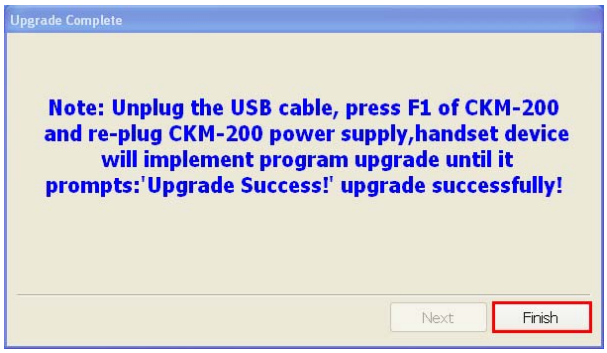




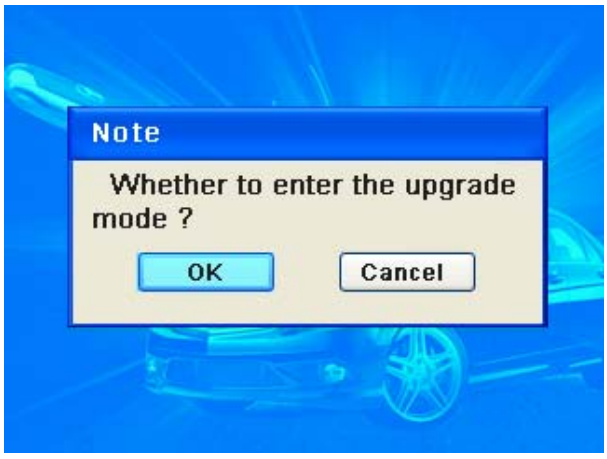


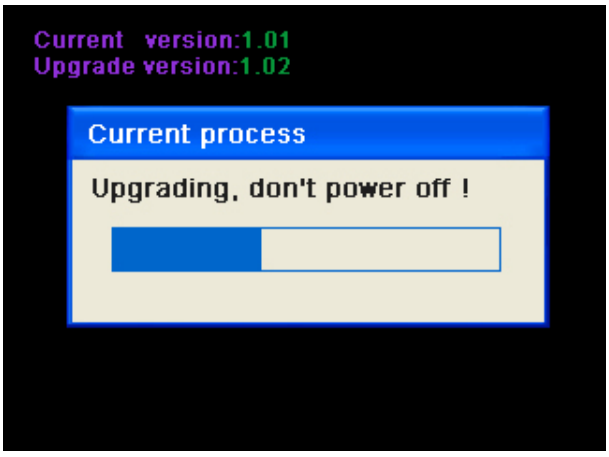






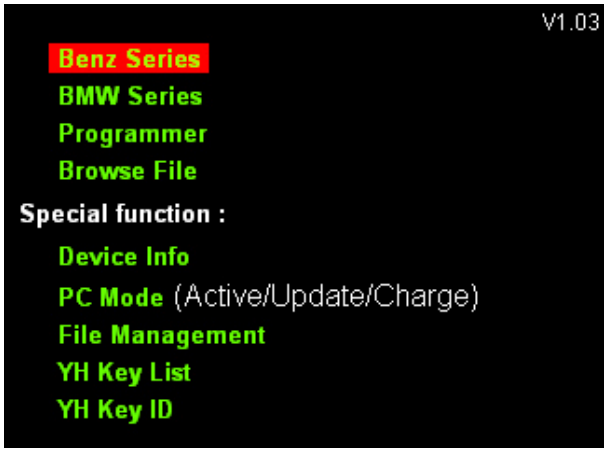
5. In the last step, it will prompt to upgrade device, you must first unplug the USB cable and device power line, press F1 of CKM-200, then plug device power line(please hold down F1 until plug the device power), handset device will upgrade procedure (in the device upgrade process, please do not off power supply) until the device prompts: "Upgrade Success!". This is a successful upgrading. As shown below:

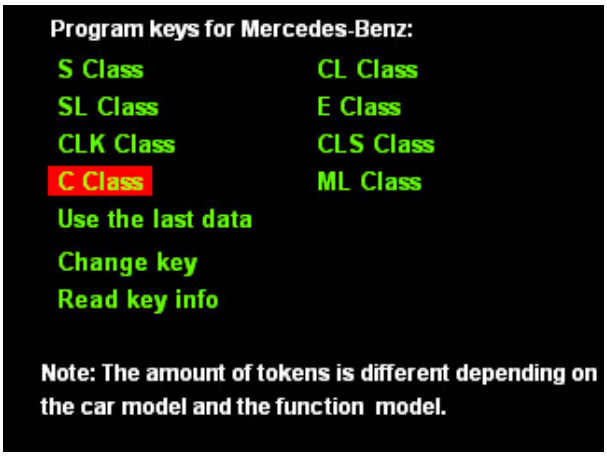


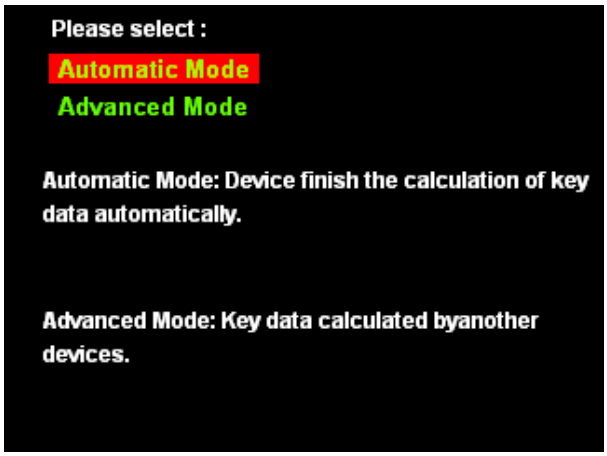


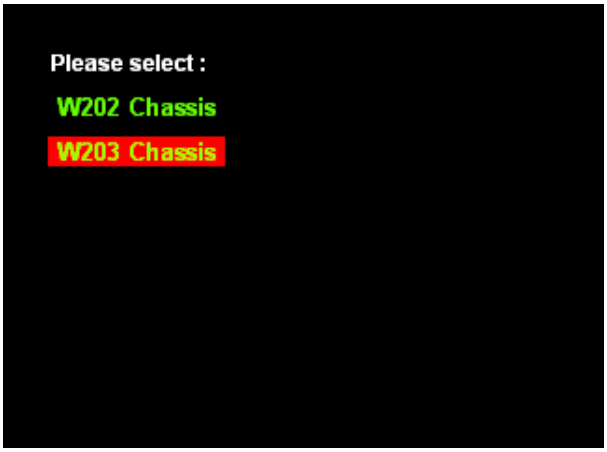
Ⅵ Examples

1. BENZ series(such as: C Class)

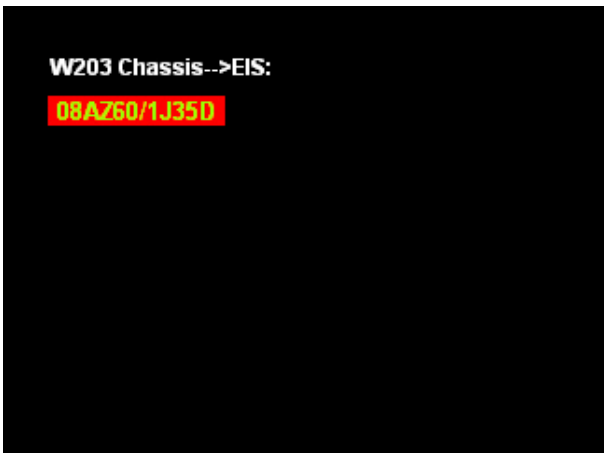


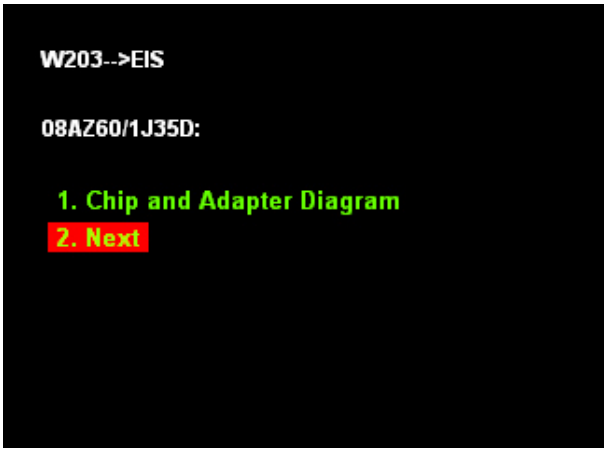




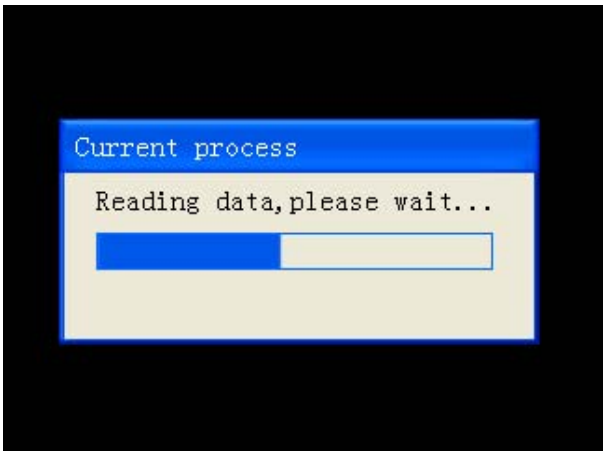


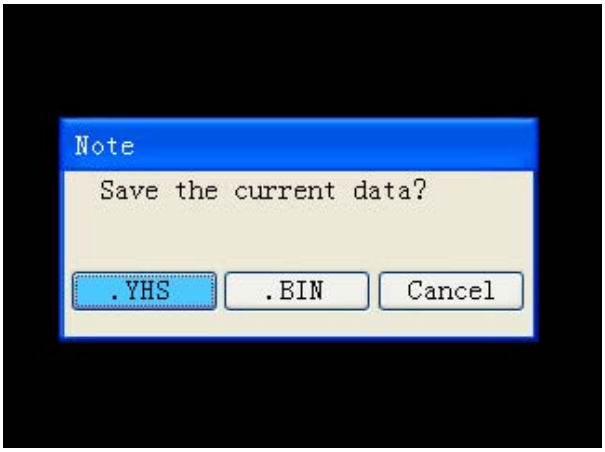
Step1: EIS



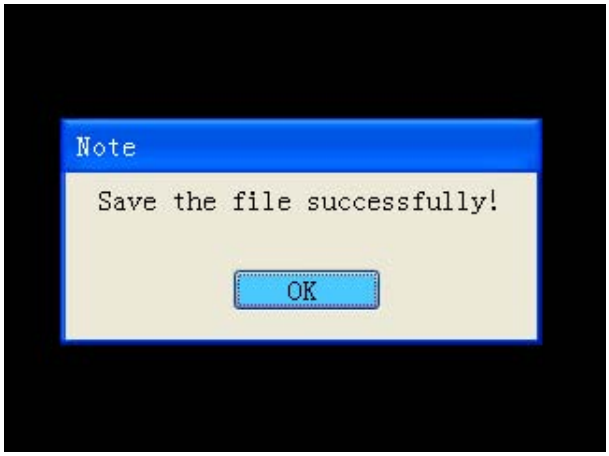

W203-->EIS
08AZ60/1J35D:
1. Chip and Adapter Diagram
2. Next

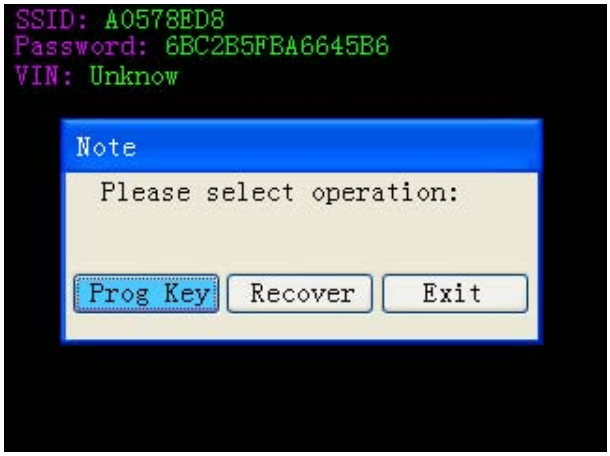

Program ID: B001
Stock-ont device
Version: 0001
Protocol ID: 0101
Account info
Remaining tokens: 600
Tokens will be deducted: 5
If continue,do not power off.
OK
Cancel

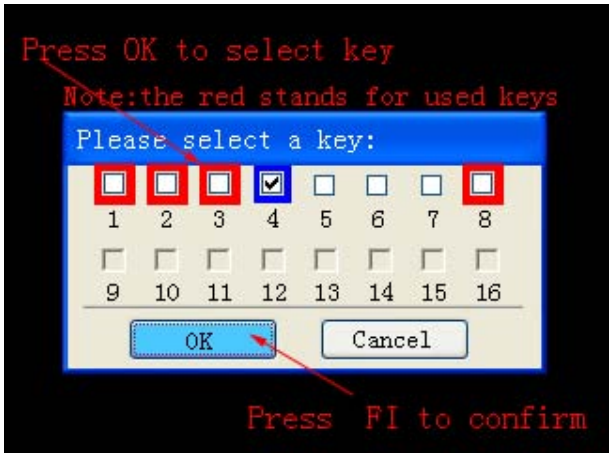

Current process
Reading data,please wait...


Note
Save the current data?
.YHS
.BIN
Cancel


Press F2 to cancel the input of file name
Please input
Please enter the file name,don exceed 7 characters.
2031311
OK
Cancel


Note
Save the file successfully!
OK

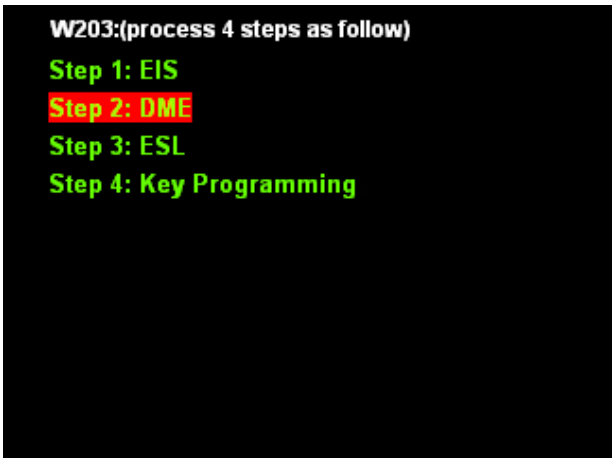

SSID: A0578ED8
Password: 6BC2B5FBA6645B6
VIN: Unknow
Note
Please select operation:
Prog Key
Recover
Exit


Press OK to select key
Note:the red stands for used keys
Please select a key:
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
OK
Cancel
Press F1 to confirm

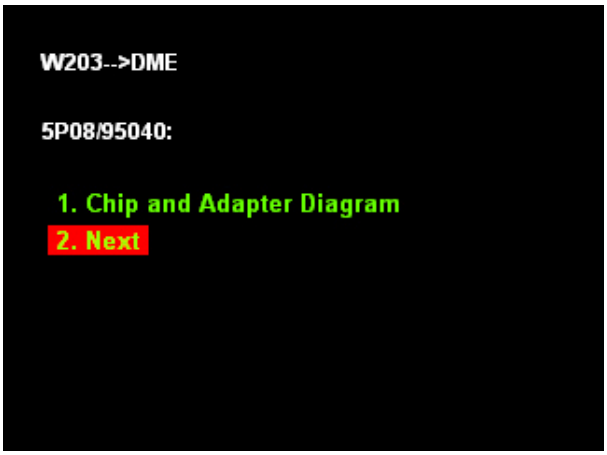

Note
Call module successfully!
OK


Stock-out device
Note
Remaining tokens: 595
Dedncted tokens: 5
OK
Cancel

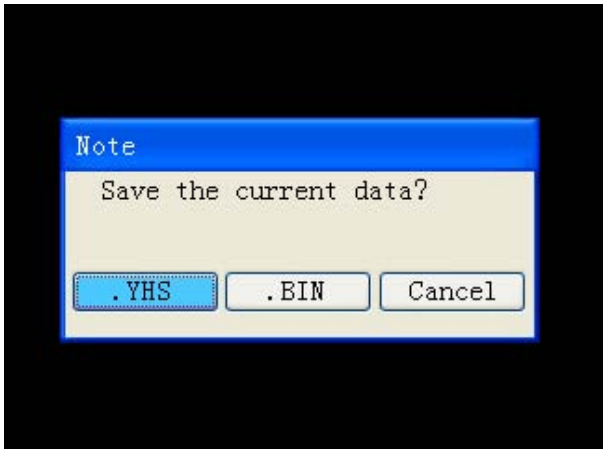
Step2: DME


W203:(process 4 steps as follow)
Step 1: EIS
Step 2: DME
Step 3: ESL
Step 4: Key Programming

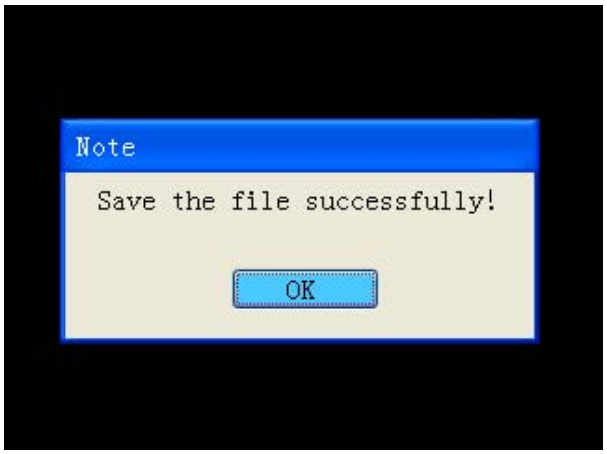

W203-->DME:
5P08/95040

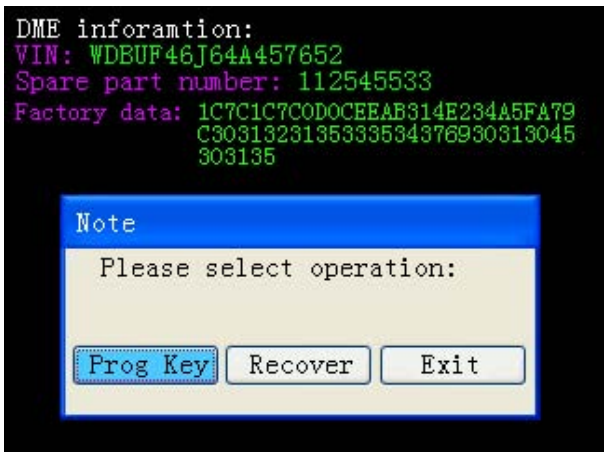

W203-->DME
5P08/95040:
1. Chip and Adapter Diagram
2. Next


Program ID: B001
Stock-ont device
Version: 0001
Protocol ID: 0101
Account info
Remaining tokens: 595
Tokens will be deducted: 1
If continue,do not power off.
OK
Cancel


Note
Save the current data?
.YHS
.BIN
Cancel


Press F2 to cancel the input of file name
Please input
Please enter the file name,don exceed 7 characters.
3467
OK
Cancel

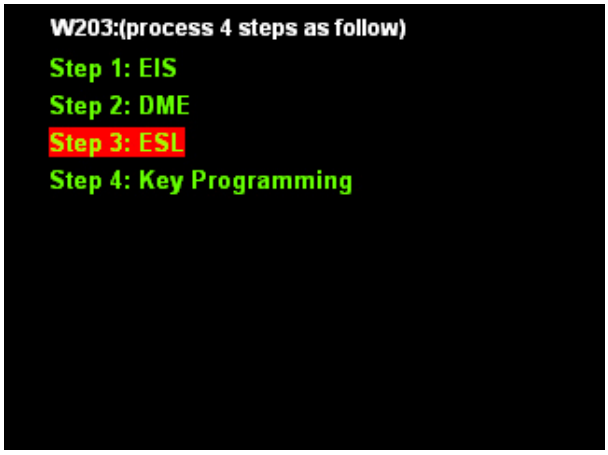

Note
Save the file successfully!
OK

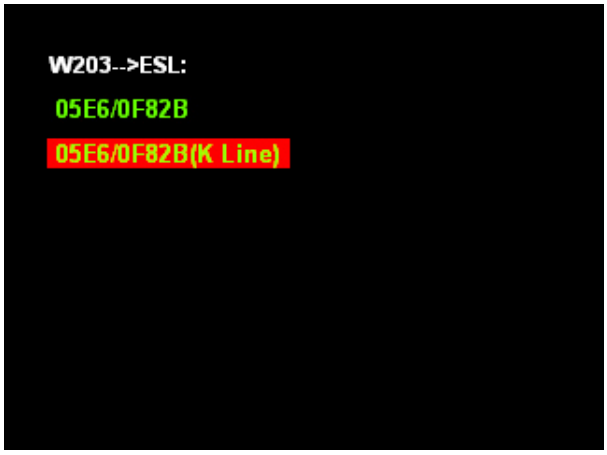

DME inforamtion:
VIN: WDBUF46J64A457652
Spare part number: 112545533
Factory data: 1C7C1C7C0D0CEEAB314E234A5FA79
C30313231353335343769303130 45
303135
Note
Please select operation:
Prog Key
Recover
Exit

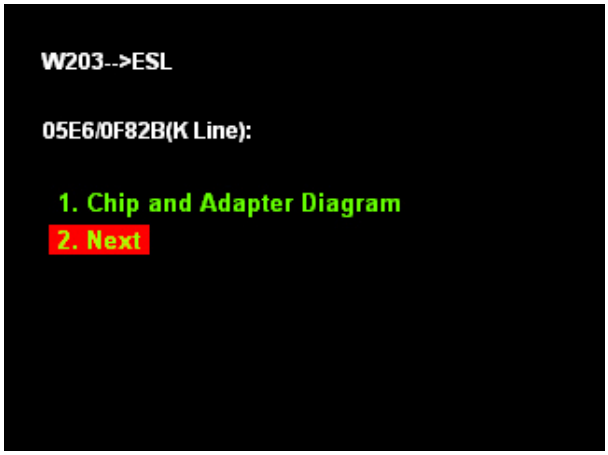

Note
Call module successfully!
OK


Stock-out device
Note
Remaining tokens: 594
Dedncted tokens: 1
OK
Cancel

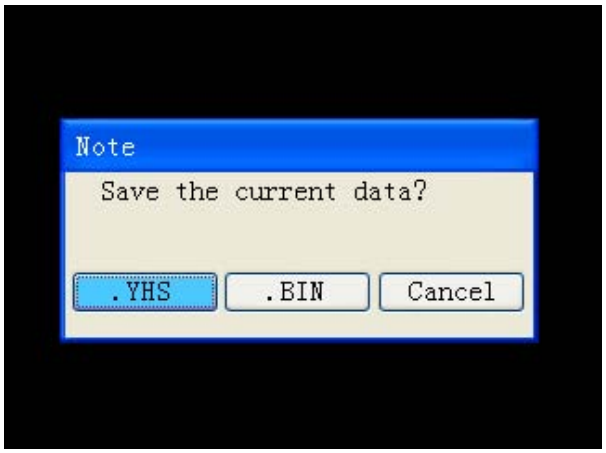
Step3: ESL


W203:(process 4 steps as follow)
Step 1: EIS
Step 2: DME
Step 3: ESL
Step 4: Key Programming

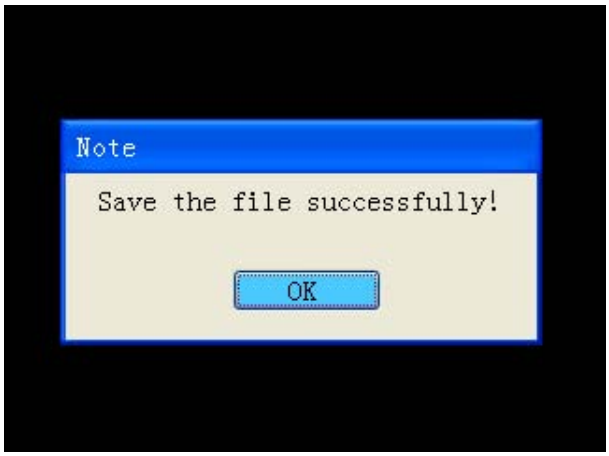

W203-->ESL:
05E6/0F82B
05E6/0F82B(K Line)


W203-->ESL
05E6/0F82B(K Line):
1. Chip and Adapter Diagram
2. Next

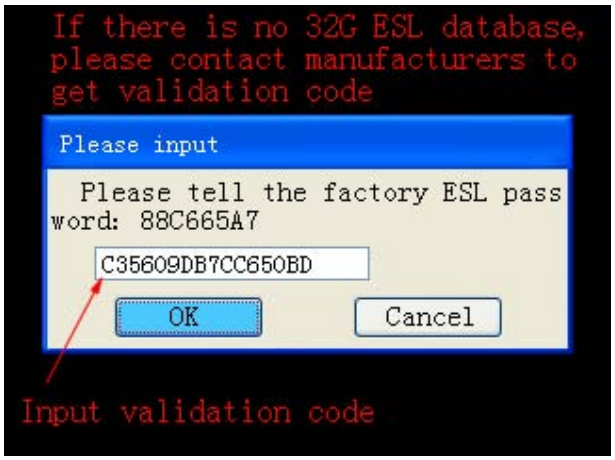

Program ID: B001
Stock-ont device
Version: 0001
Protocol ID: 0101
Account info
Remaining tokens: 594
Tokens will be deducted: 5
If continue, do not power off.
OK
Cancel


Note
Save the current data?
.YHS
.BIN
Cancel


Press F2 to cancel the input of file name
Please input
Please enter the file name, don exceed 7 characters.
7B541
OK
Cancel

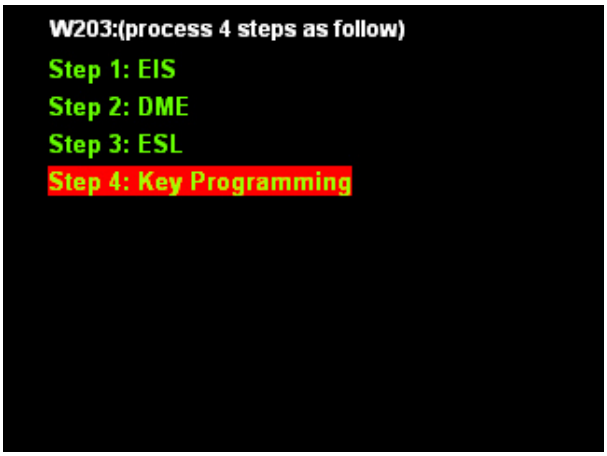

Note
Save the file successfully!
OK

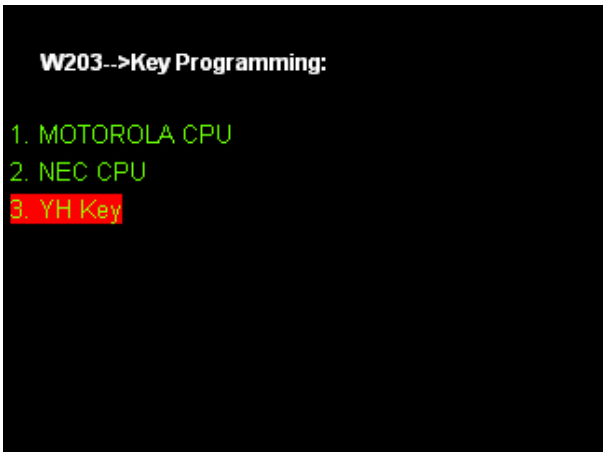

Note
Please select operation:
Prog Key
Recover
Exit

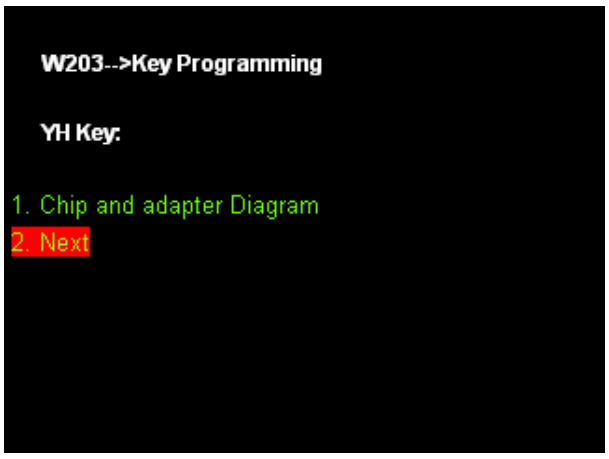

If there is no 32G ESL database, please contact manufacturers to get validation code
Please input
Please tell the factory ESL pass word: 88C665A7
C35609DB7CC650BD
OK
Cancel
Input validation code

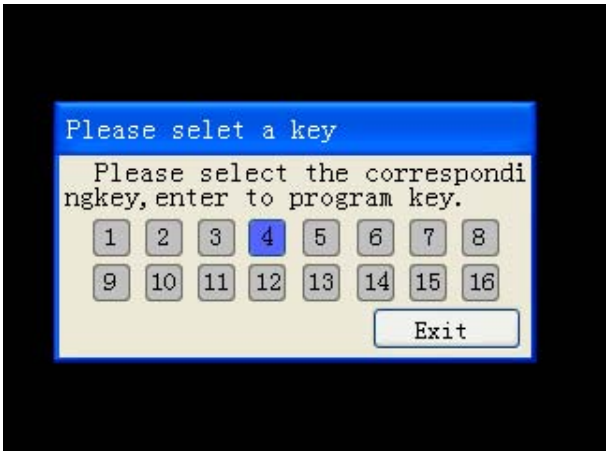

Note
Call module successfully!
OK

Step4: Key programming

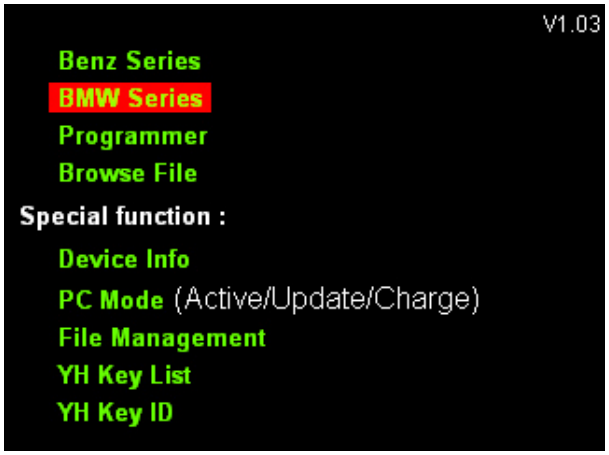


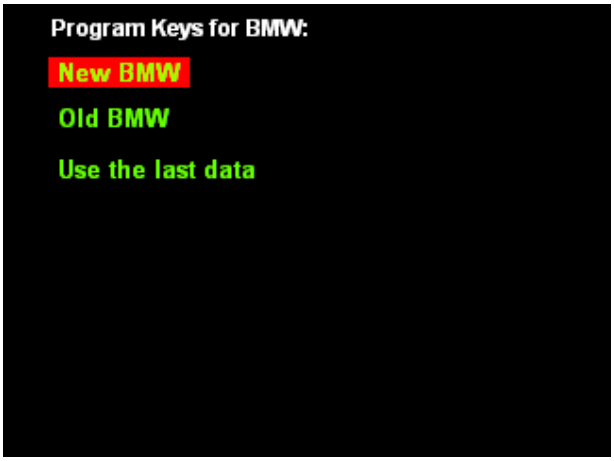


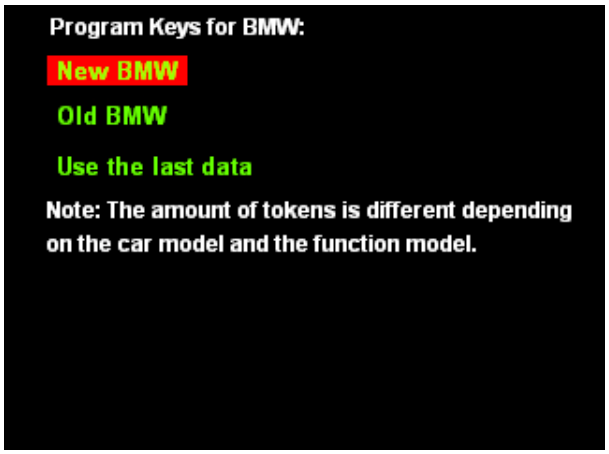




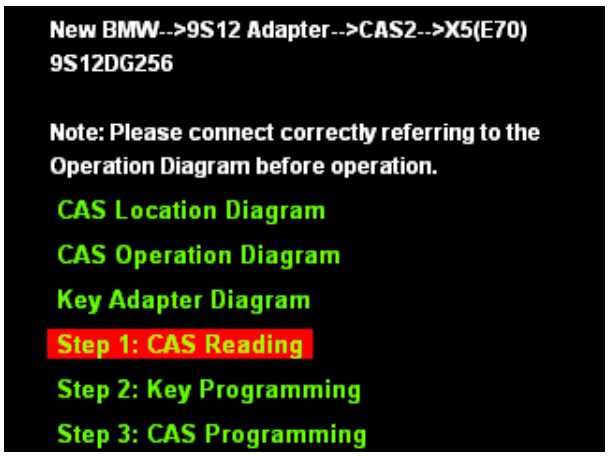
2.BMW series(such as:X5)

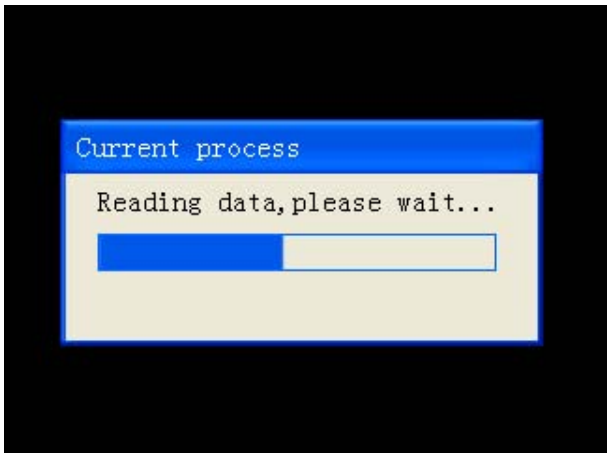


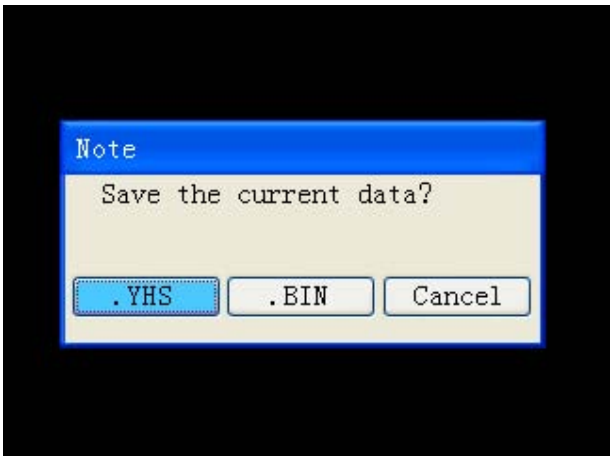




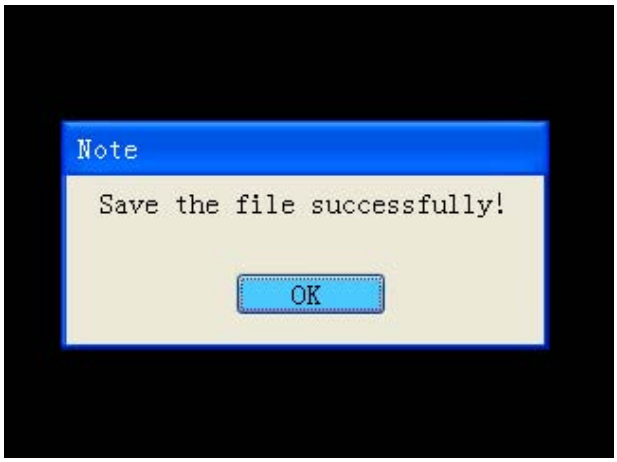
Step1: CAS Reading



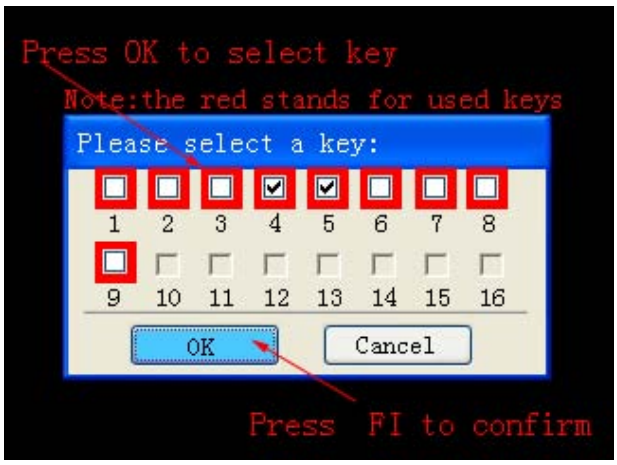

Current process
Reading data,please wait...

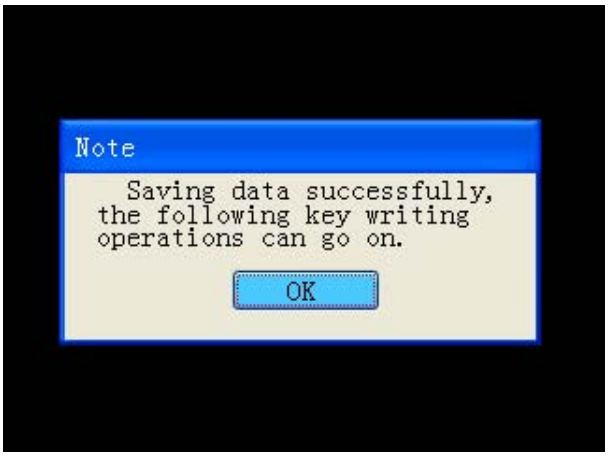

Note
Save the current data?
.YHS
.BIN
Cancel


Press F2 to cancel the input of file name
Please input
Please enter the file name,don exceed 7 characters.
65482
OK
Cancel

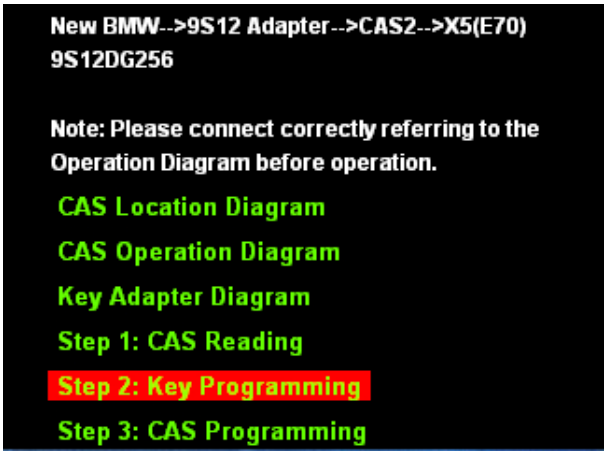

Note
Save the file successfully!
OK

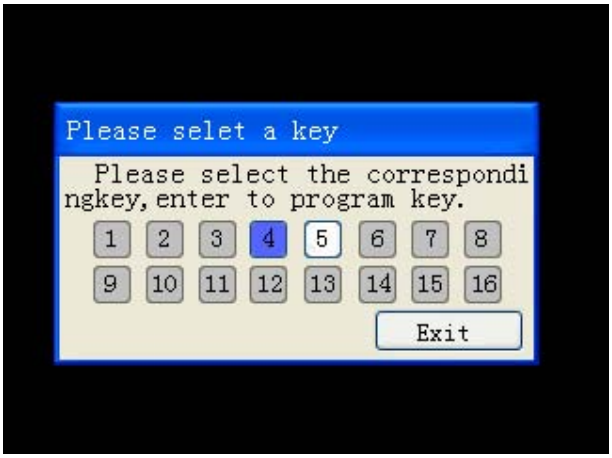

Note
Please select operation:
Prog Key
Recover
Exit

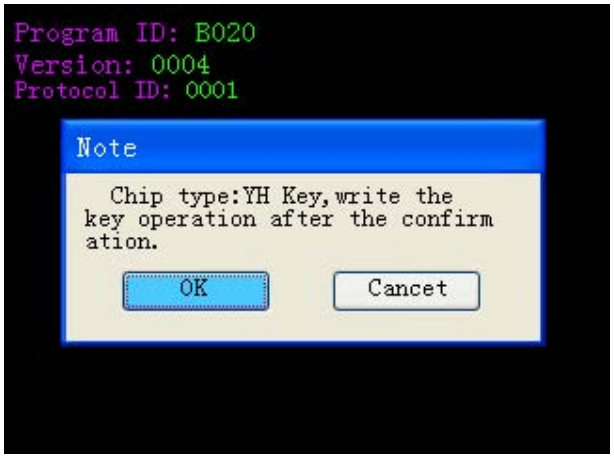

Press OK to select key
Note:the red stands for used keys
Please select a key:
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
OK
Cancel
Press FI to confirm



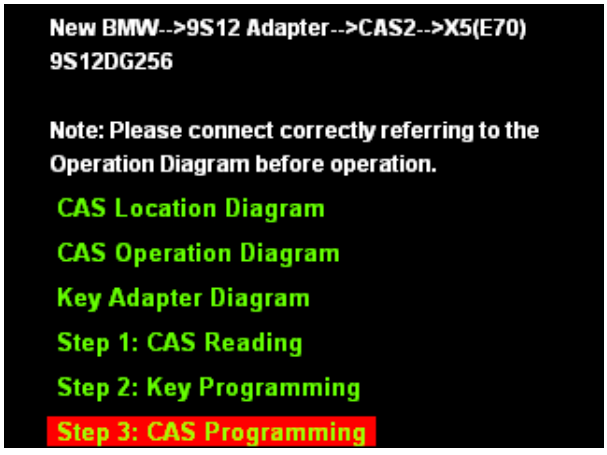
Step2: key Programming

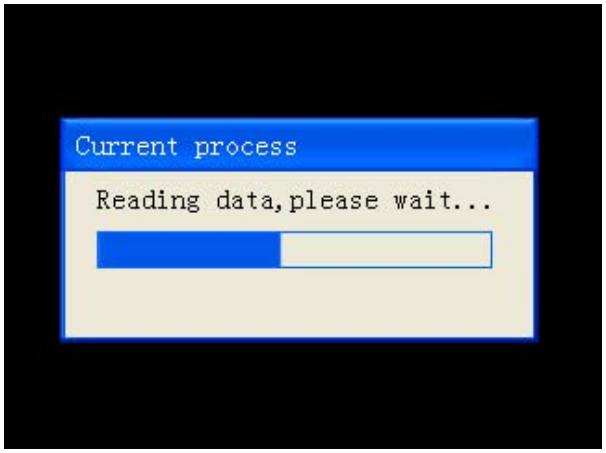


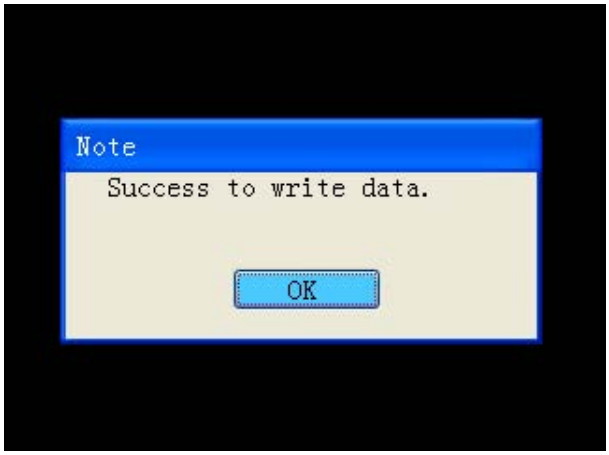




Step3: CAS Programming

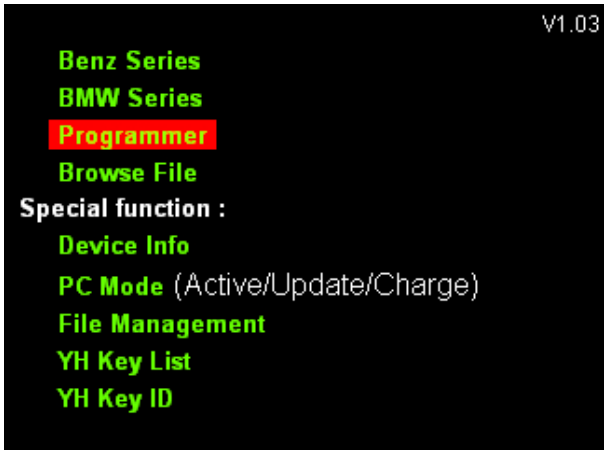


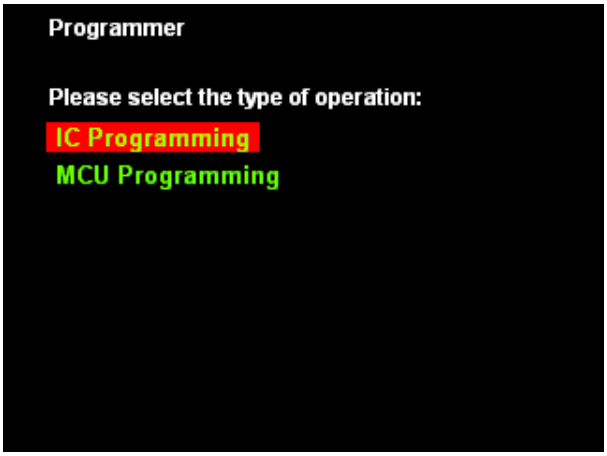




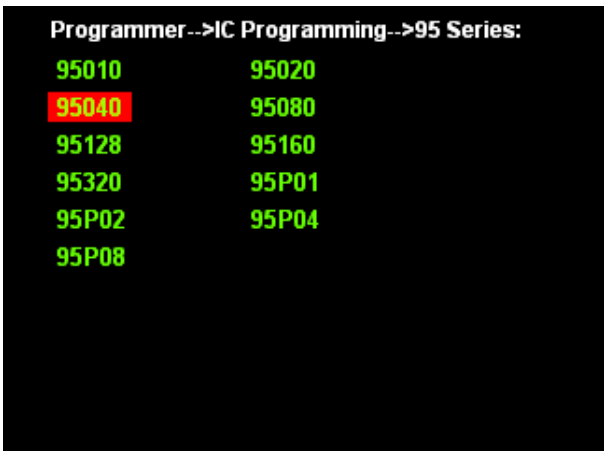
3. Programmer

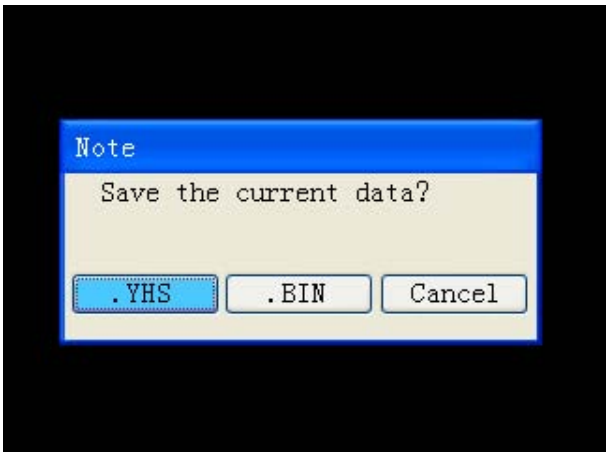
3.1 IC Programming

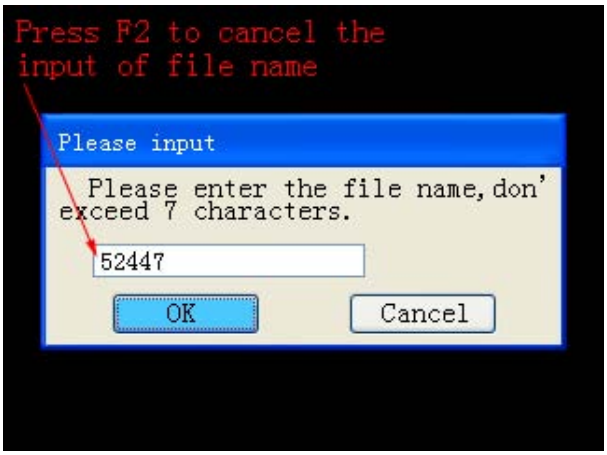


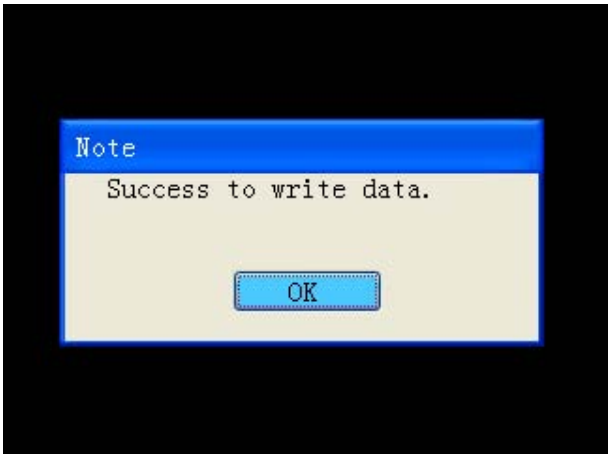



Programmer-->IC Programming
24 Series
25 Series
93 Series
95 Series
29F Series
Other Chip


Programmer-->IC Programming-->95 Series:
95010
95020
95040
95080
95128
95160
95320
95P01
95P02
95P04
95P08


Note
Save the current data?
.YHS
.BIN
Cancel


Press F2 to cancel the input of file name
Please input
Please enter the file name, don' exceed 7 characters.
52447
OK
Cancel


Note
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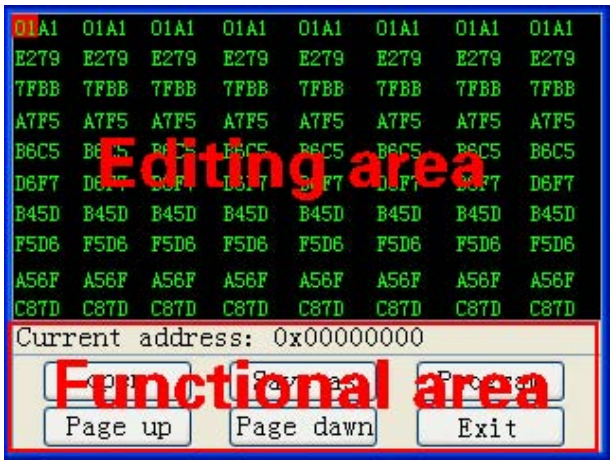
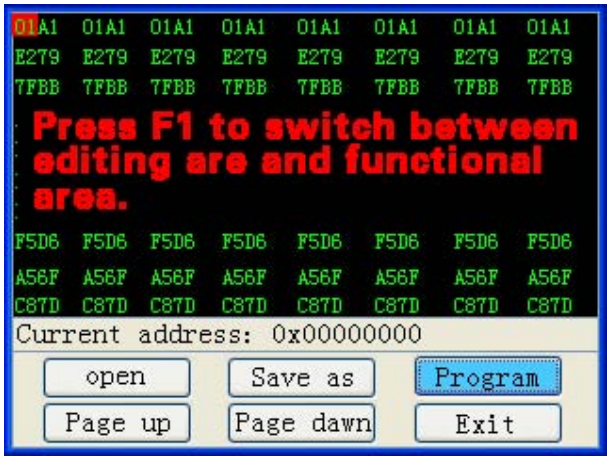
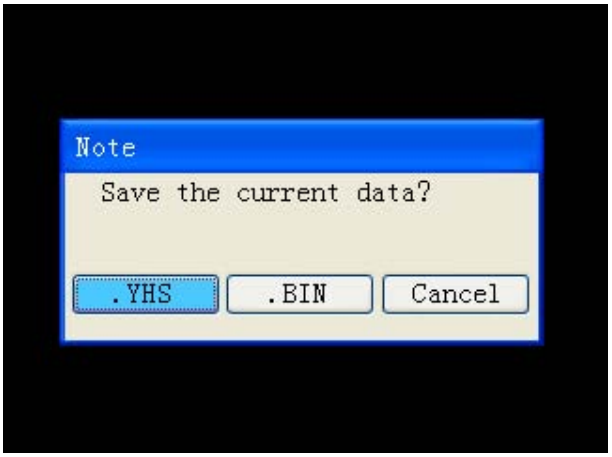
OK


Editing area
Current address: 0x00000000
Functional area
Page up
Page dawn
Exit


01A1 01A1 01A1 01A1 01A1 01A1 01A1 01A1
E279 E279 E279 E279 E279 E279 E279 E279
7FBB 7FBB 7FBB 7FBB 7FBB 7FBB 7FBB 7FBB
Press F1 to switch between editing are and functional area.
F5D6 F5D6 F5D6 F5D6 F5D6 F5D6 F5D6 F5D6
A56F A56F A56F A56F A56F A56F A56F A56F
C87D C87D C87D C87D C87D C87D C87D C87D
Current address: 0x00000000
open
Save as
Program
Page up
Page dawn
Exit


Note
Fail to program!
OK


Note
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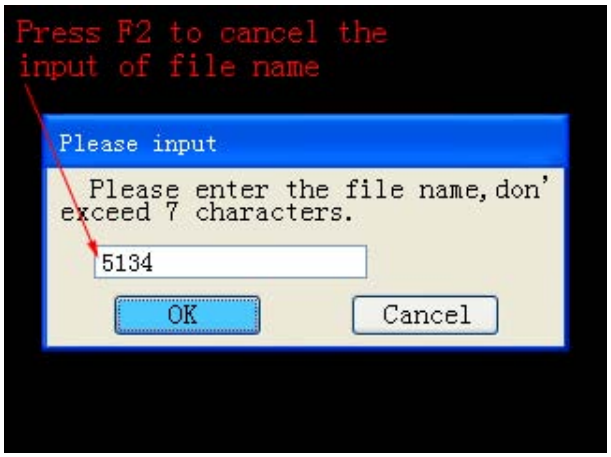
.YHS
.BIN
Cancel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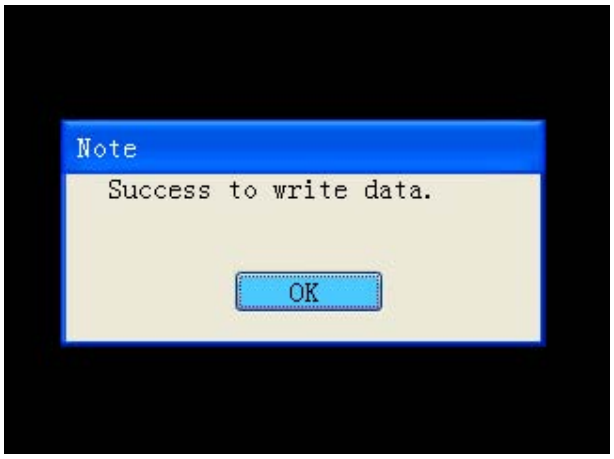
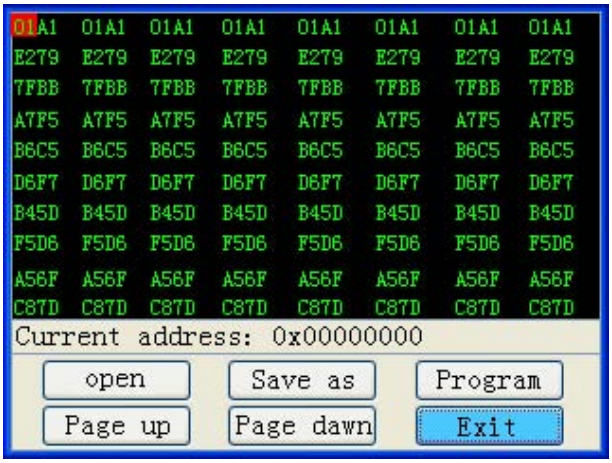
Please input
Please enter the file name, don' exceed 7 characters.
5134
OK
Cancel


Note
Success to write data.
OK


01A1 01A1 01A1 01A1 01A1 01A1 01A1 01A1
E279 E279 E279 E279 E279 E279 E279 E279
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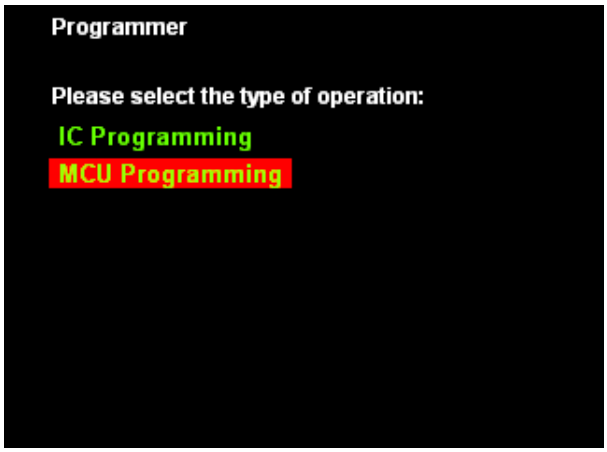
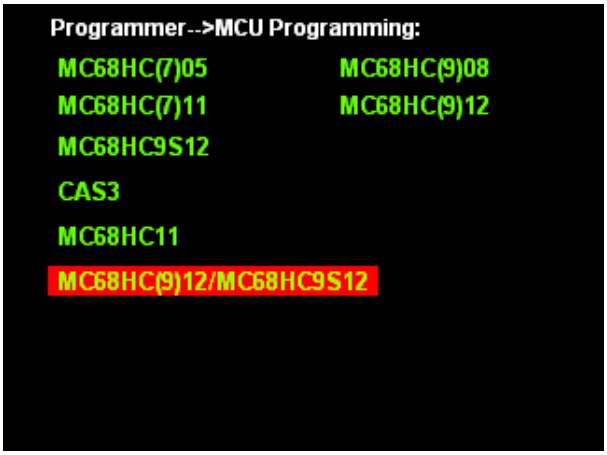
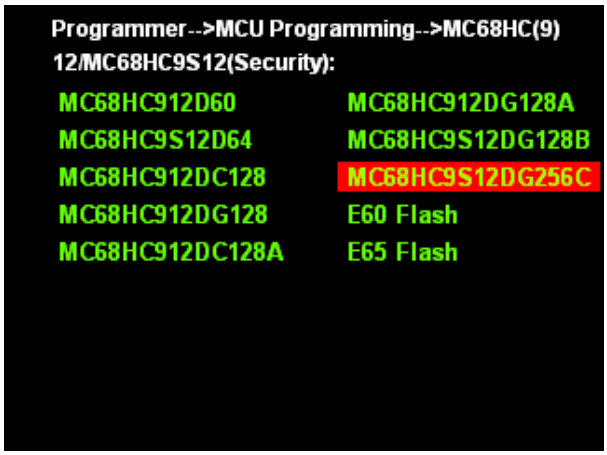
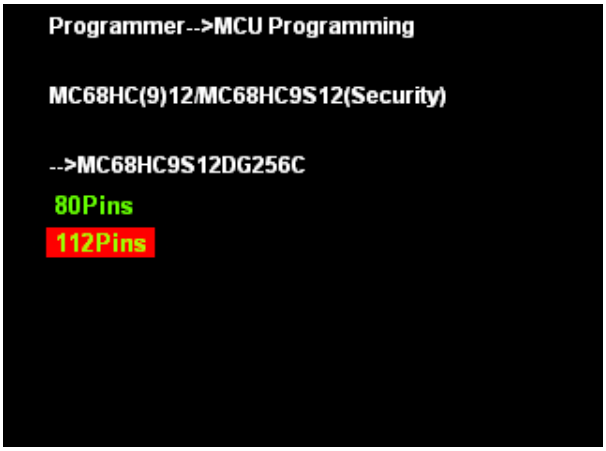
A7F5 A7F5 A7F5 A7F5 A7F5 A7F5 A7F5 A7F5
B6C5 B6C5 B6C5 B6C5 B6C5 B6C5 B6C5 B6C5
D6F7 D6F7 D6F7 D6F7 D6F7 D6F7 D6F7 D6F7
B45D B45D B45D B45D B45D B45D B45D B45D
F5D6 F5D6 F5D6 F5D6 F5D6 F5D6 F5D6 F5D6
A56F A56F A56F A56F A56F A56F A56F A56F
C87D C87D C87D C87D C87D C87D C87D C87D
Current address: 0x00000000
open
Save as
Program
Page up
Page dawn
Exit

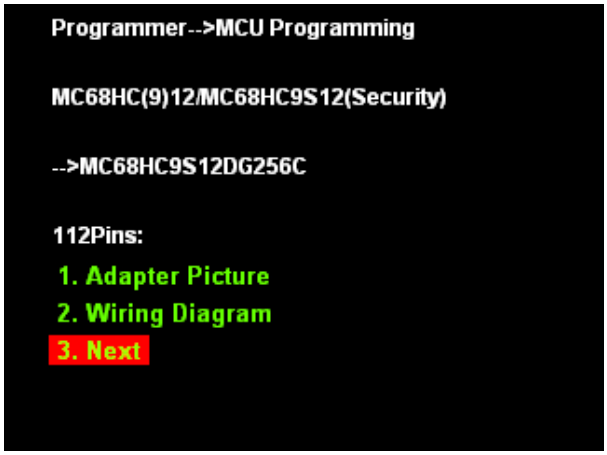
3.2 MCU Programming

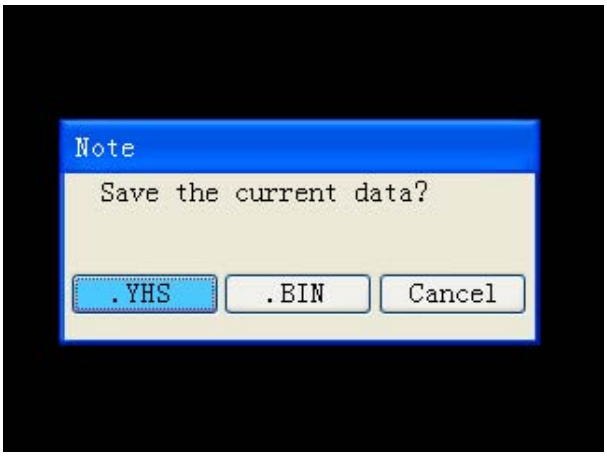











Note
Save the current data?
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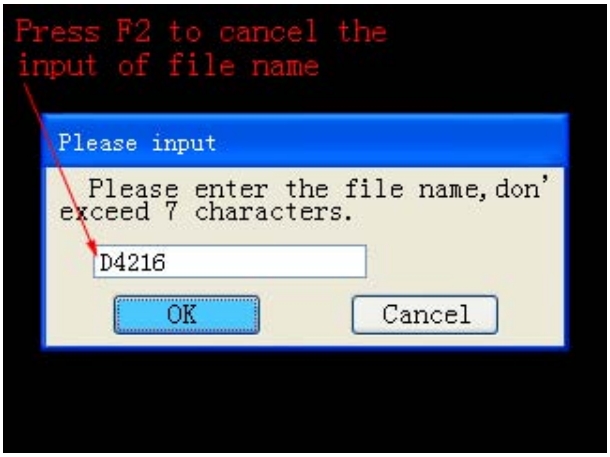
.BIN
Cancel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Please input
Please enter the file name, don' exceed 7 characters.
D4216
OK
Cancel


Note
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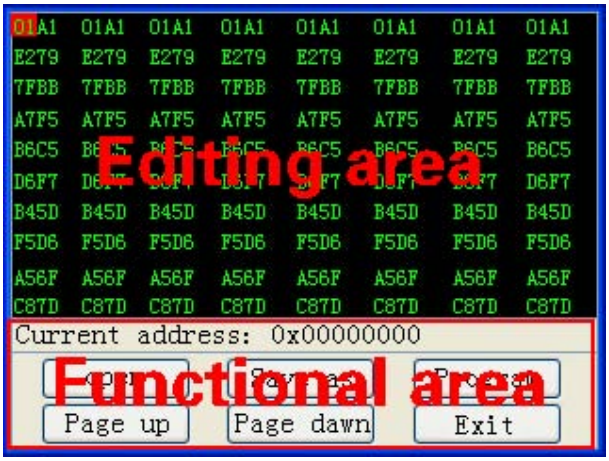
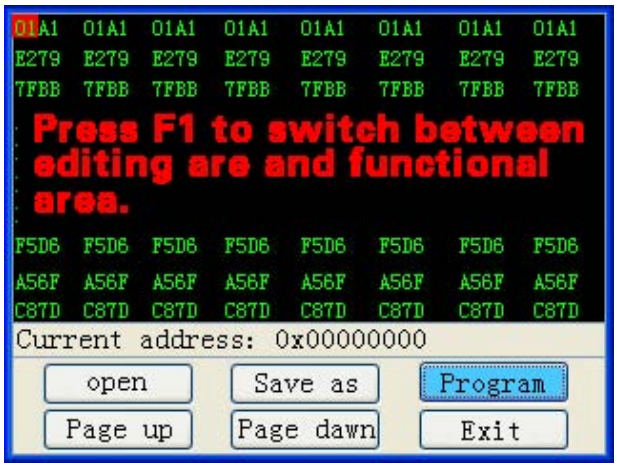
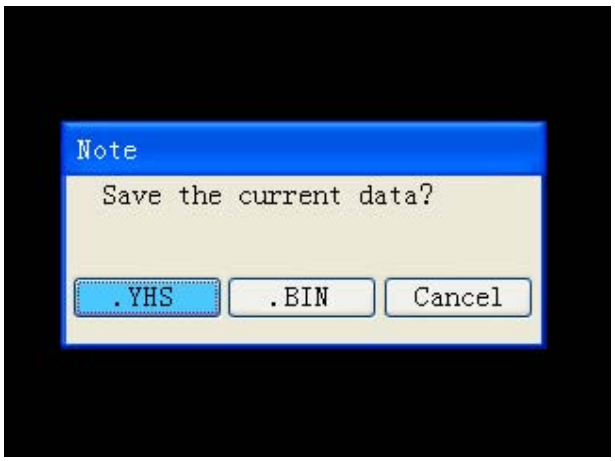
OK


Editing area
Current address: 0x00000000
Functional area
Page up
Page dawn
Exit


Press F1 to switch between editing are and functional area.
Current address: 0x00000000
open
Save as
Program
Page up
Page dawn
Exit


Note
Program successfully!
OK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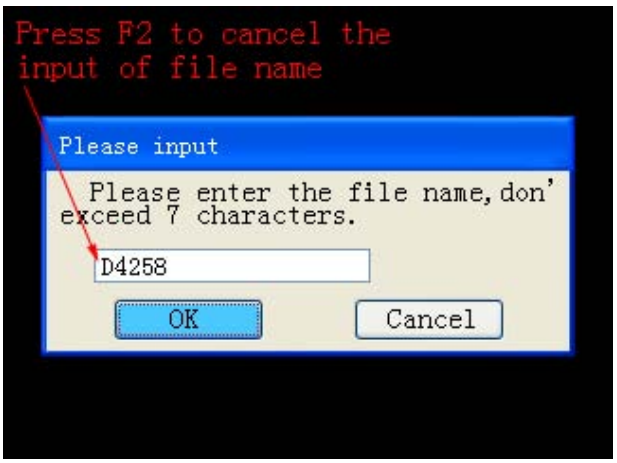
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Please enter the file name,don' exceed 7 characters.
D4258
OK
Cancel


Note
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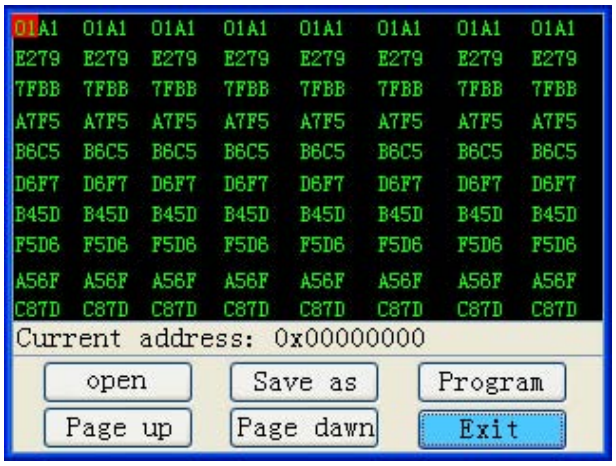
OK


01A1 01A1 01A1 01A1 01A1 01A1 01A1 01A1
E279 E279 E279 E279 E279 E279 E279 E279
7FBB 7FBB 7FBB 7FBB 7FBB 7FBB 7FBB 7FBB
A7F5 A7F5 A7F5 A7F5 A7F5 A7F5 A7F5 A7F5
B6C5 B6C5 B6C5 B6C5 B6C5 B6C5 B6C5 B6C5
D6F7 D6F7 D6F7 D6F7 D6F7 D6F7 D6F7 D6F7
B45D B45D B45D B45D B45D B45D B45D B45D
F5D6 F5D6 F5D6 F5D6 F5D6 F5D6 F5D6 F5D6
A56F A56F A56F A56F A56F A56F A56F A56F
C87D C87D C87D C87D C87D C87D C87D C87D
Current address: 0x00000000
open
Save as
Program
Page up
Page dawn
Exit


Stock-out device
Account info
Remaining tokens: 568
Dedncted tokens: 1
OK
Cancet

Ⅶ Appendix

Appendix 1: The Ways of Identifying the Pin Order

1. If the chip has nick, pin 1 is on the bottom left corner, and the number of Pins in Count-clockwise direction are 1, 2, 3, 4, 5, 6, 7, and 8.

2. If the chip has no nick, but "●", pin 1 is close to "●", and the identification of the others' number is the same as above.

3. If the chip has text only, from the text positive, pin 1 is on the bottom left corner, the identification of the others' number is the same as above.

Chip 93C56
outline diagram

Appendix 2: Chip Dismantling and soldering

1) The choice of iron:

It should be connected with ground safely. When there is no constant temperature soldering iron, the 20W internal heat-type or 25W external heat-type soldering iron can be OK, but ensure that the former should not exceed 25W, and the latter does not exceed 30W.

2) The choice of flux:

Rosin is the best choice. Solder paste will never be allowed to use in soldering. You should change the rosin immediately when it turns to black.

3) The choice of solder wire:

The imported solder wire with low melting point and rosin is the only choice.

2. Chip disassembling

1) When unsoldering biserial & straight inserted chip, you can clean out the soldering tin on the pin by disordering gun or disordering wire, please don't draw hard.

2) When unsoldering patch or chip, melting more rosin on the two rows of pins, and heat them up until the chip loose completely, then remove it. Please don't pry hard.

3) Please do not heat the chip too long, or it will be damaged.

4) If there is protection paint on the chip, please heat it up with iron, and scratch gently with a blade or tweezers, then dismantle the chip.

5) How to wipe off the protection paint on the circuit board or IC?

Before soldering, please heat the layer of protection paint with iron or hot air to 70-80 degrees Celsius, and then peel gently with a word screwdriver.

3. Chip Soldering

1) Please do not heat the chip too long, or it will be damaged.

2) The iron should be wiped with a damp cloth or soaking sponge to keep it clean ,because it won't be easy to disordering tin in a state of high-temperature oxidation for a long time.

3) The heat conduction should depend on the tin, and it does no good to soldering by the iron head-to-chip hard.

4) Don't move or shake the chip before the soldering solidified.

5) When soldering, you had better first solder the diagonally pins to fasten the chip, and then do other pins.

Thank you!

Any query, please kindly contact with us !

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