BMW Multi Tool User Manual

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1. Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well ventilated work area: Exhaust gases are poisonous.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
- Don’t connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when necessary.

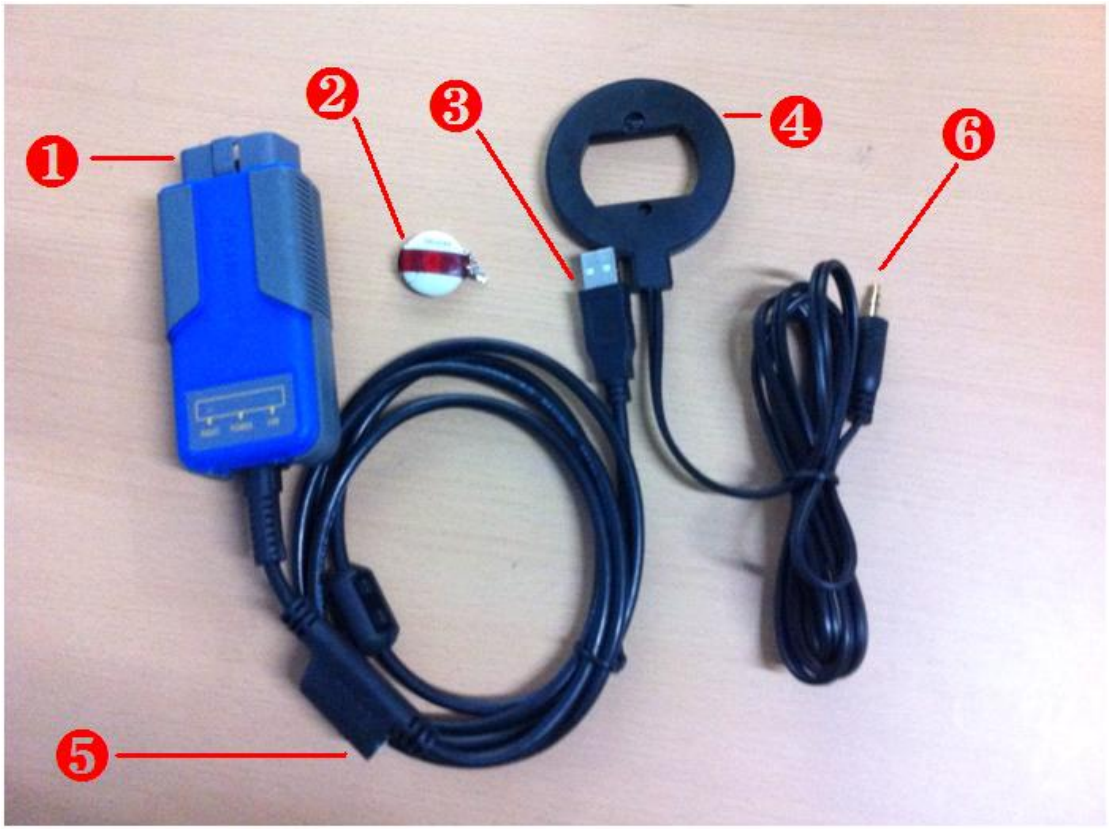
2. General Information

Thank you for choosing BMW Multi Tool.

This manual includes the use of equipment notes, please read this manual carefully before use so that you can correctly use it.

3. Hardware Overview

3.1. Tool Description



ITEM	Description
1	**OBD II CONNECTOR** Connects the tool to the vehicle's Data Link connector (DLC).
2	**Dongle** USB dongle.
3	**USB CONNECTOR** Connects the tool to the PC/Laptop through USB Cable.
4	**Programmer** Program keys.
5	**Programmer Female Pin** Connects programmer to device.
6	**Programmer Male Pin** Connects programmer to device.

3.2.Specifications

ITEM	Description		
Operating Temperature	-20 to 70 °C (-4 to 158 °F)		
Storage Temperature	-40 to 85 °C (-40 to 185 °F)		
Diagnostic Interface	16 PIN		
USB Interface	USB 2.0		
Power	DC 5 V - 12 V		
Consumption	1 W		
Dimensions	**Length** 95 mm(3.74″)	**Width** 49 mm(1.93″)	**Height** 28 mm(1.10″)
Net Weight	85 g		
Gross Weight	223 g		

3.3.System Requirements

PC/Laptop Minimum Specification

	Minimum Specification	Recommended Specification
CPU	Pentium 3/1GHz or above	Pentium 4/1.6GHz or above
Memory(RAM)	512M or above	1G or above
HDD	40G or above	60G or above
Display	800 x 600 or above	1024 x 768 or above
OS	Win98/2000/XP/Vista	WinXP
Port	USB	USB

4. Software Overview

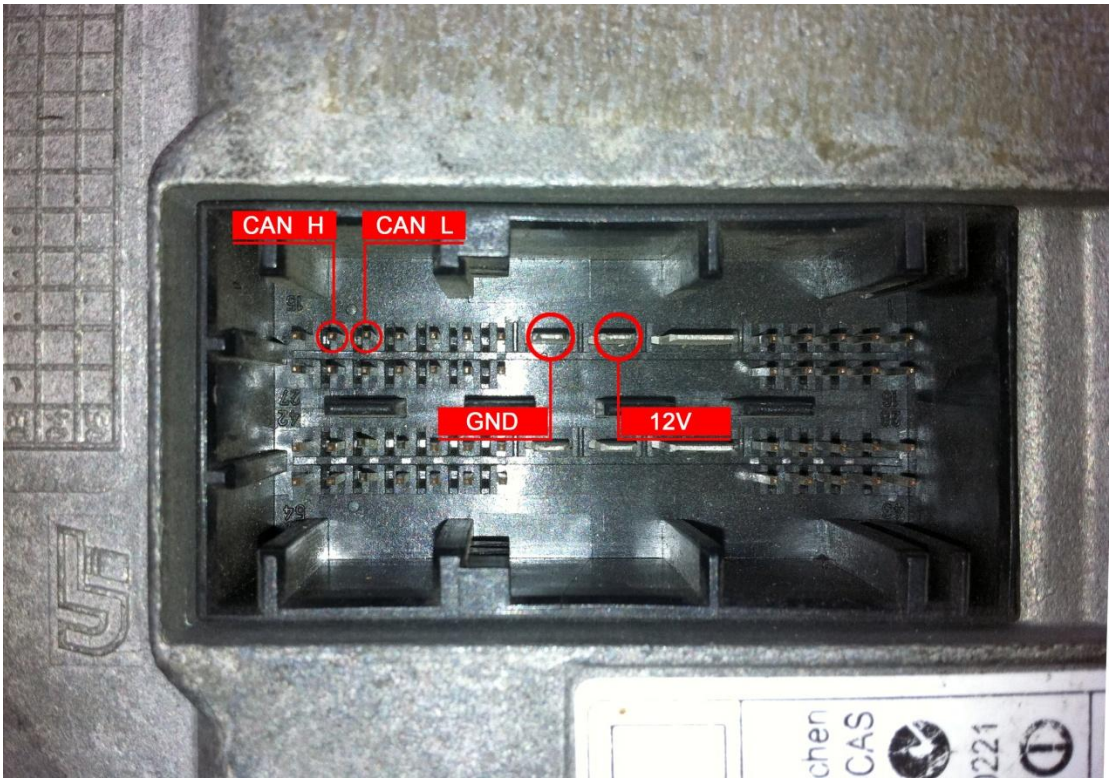
4.1. Overview

BMW Multi Tool includes forth parts, hardware device, dongle, programmer, software（CAS Plug and CAS4 antenna need pay extra）. Before running software you must connect dongle and hardware device to computer.

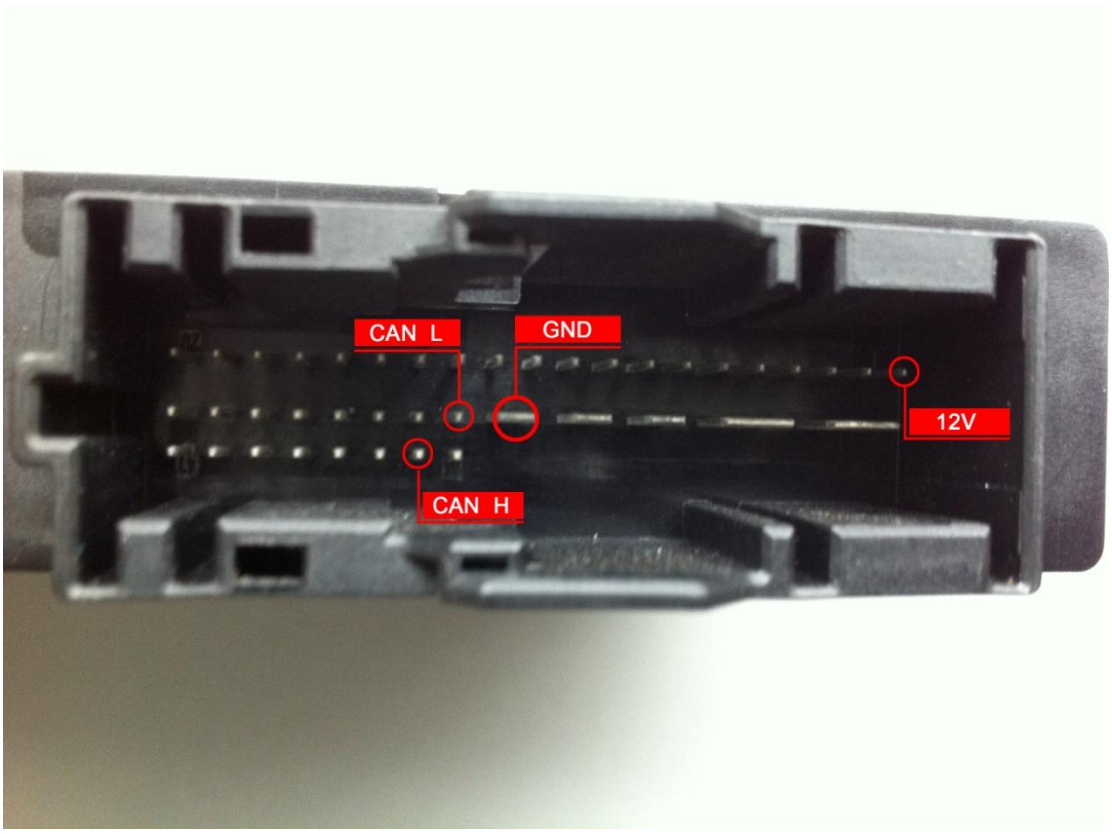
BMW Multi Tool Support Table			○ ●	Not Support Support
System	Function	OBDII	CAS PLUG	Support EEPROM Dump
EWS1	Change KEY	○	○	○
	IMMO	○	○	●
EWS2	Change KEY	○	○	○
	IMMO	○	○	●
EWS3	Change KEY	○	●	●
	IMMO	○	●	●
EWS4	Change KEY	○	●	●
	IMMO	○	●	●
CAS1(0K50E)(7 Series)	Change KEY	●	●	●
	IMMO	●	●	●
CAS2(2K79X)(7 Series)	Change KEY	○	●	●
	IMMO	○	●	●
CAS2(2K79X)(White box)	Change KEY	○	●	●
	IMMO	●	●	●
CAS3(0L01Y)	Change KEY	○	●	●
	IMMO	●	●	●
CAS3+(0L15Y)(no encypt)	Change KEY	●	●	●
	IMMO	●	●	●
CAS3+(0L15Y) (encrypt)	Change KEY	●	●	●
	IMMO	●	○	●
CAS4	Change KEY	○	○	●
	IMMO	○	○	●

1. **OBD II: BMW Multi Tool connects to car directly.**
2. **CAS PLUG: Connect CAN line manually, support 12V. Detail method followed in next page.**
3. **Support EEPROM dump: get EEPROM dump with programmer.**

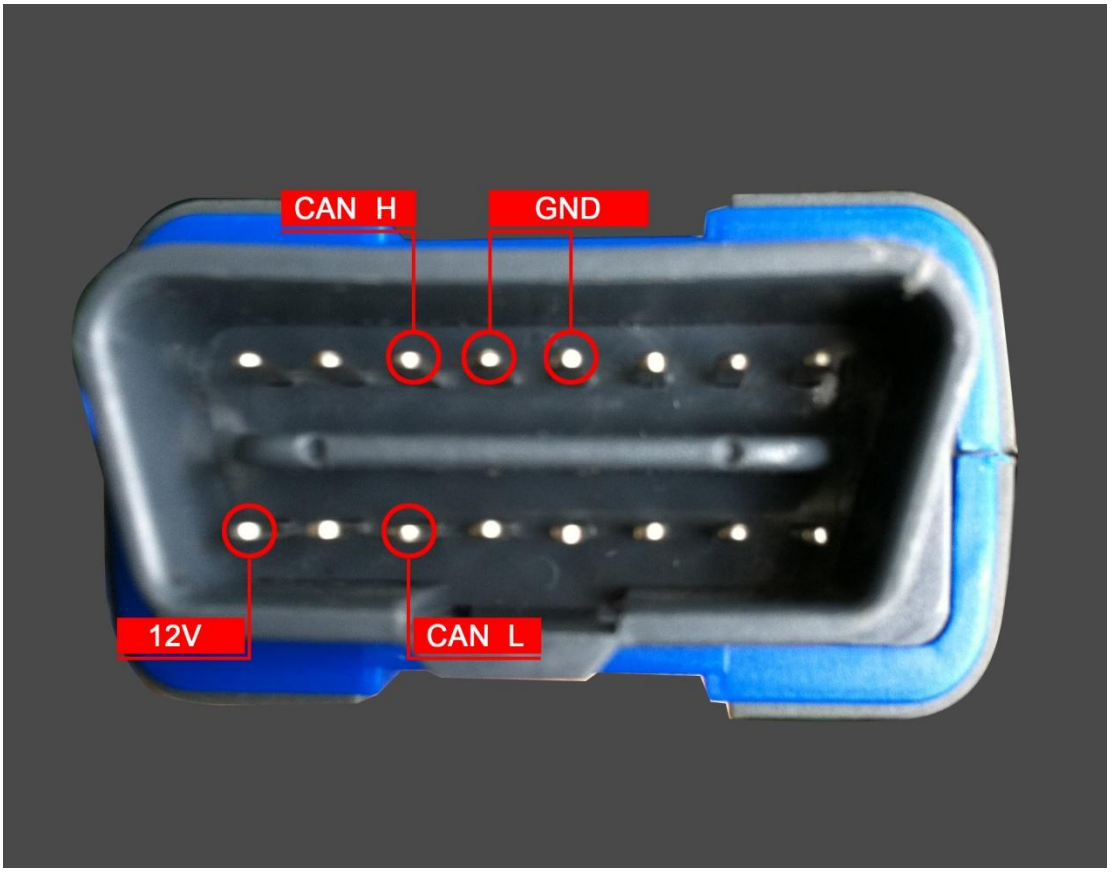
1. **7 Series CAS1/CAS2 pin method:**



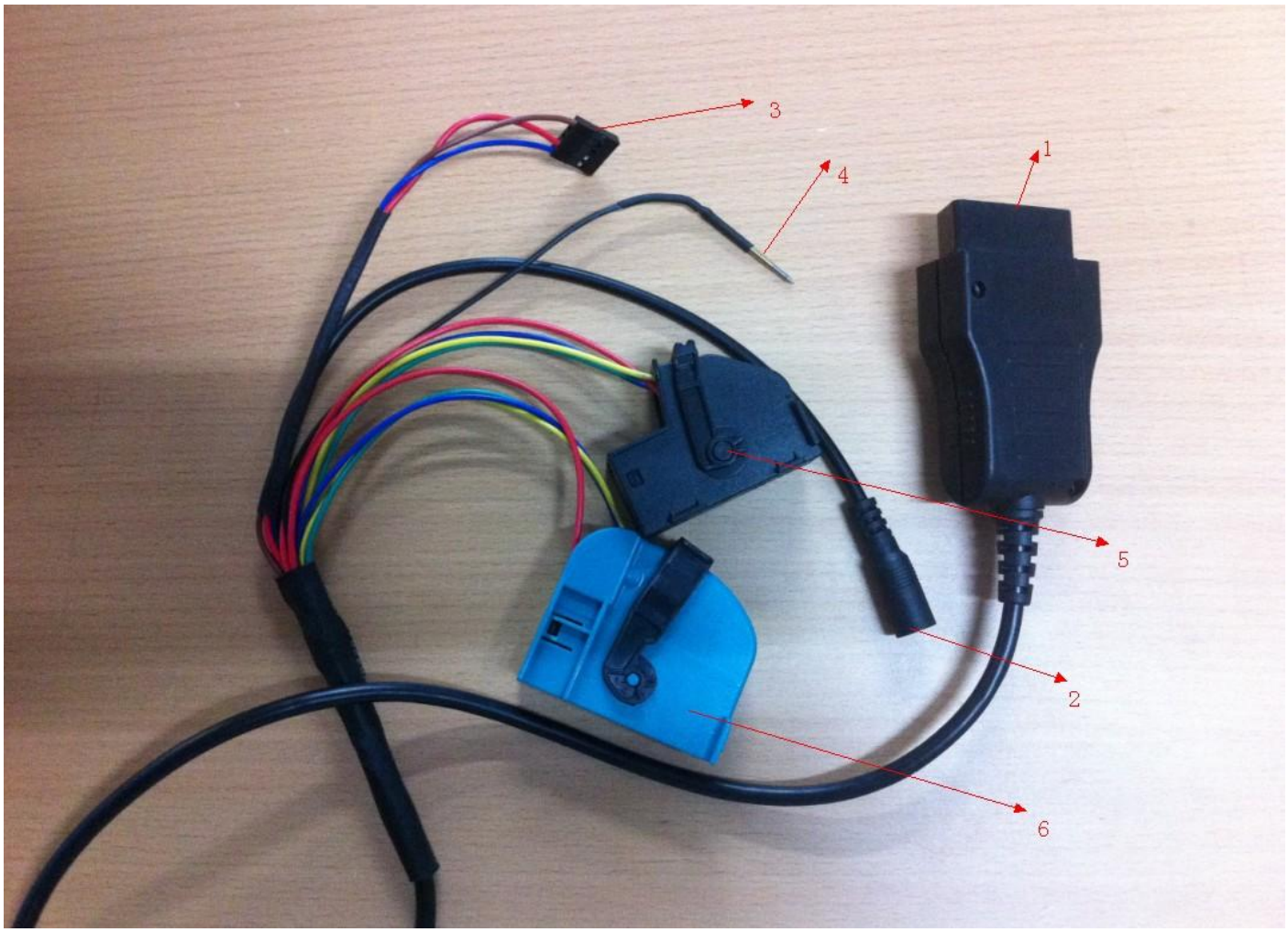
2. **CAS2(While Box)/CAS3/CAS3+ pin method:**



3. Device pin method:

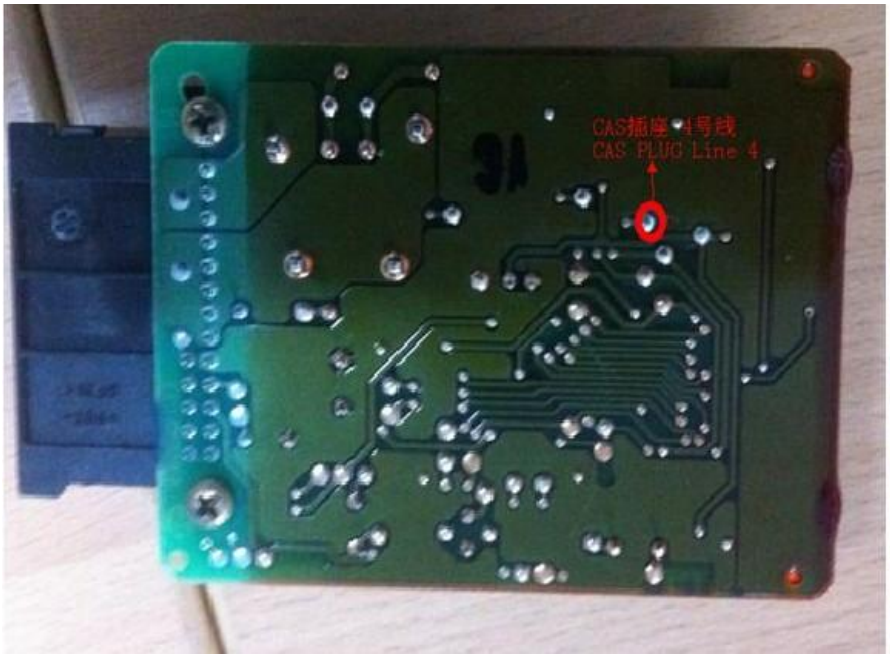


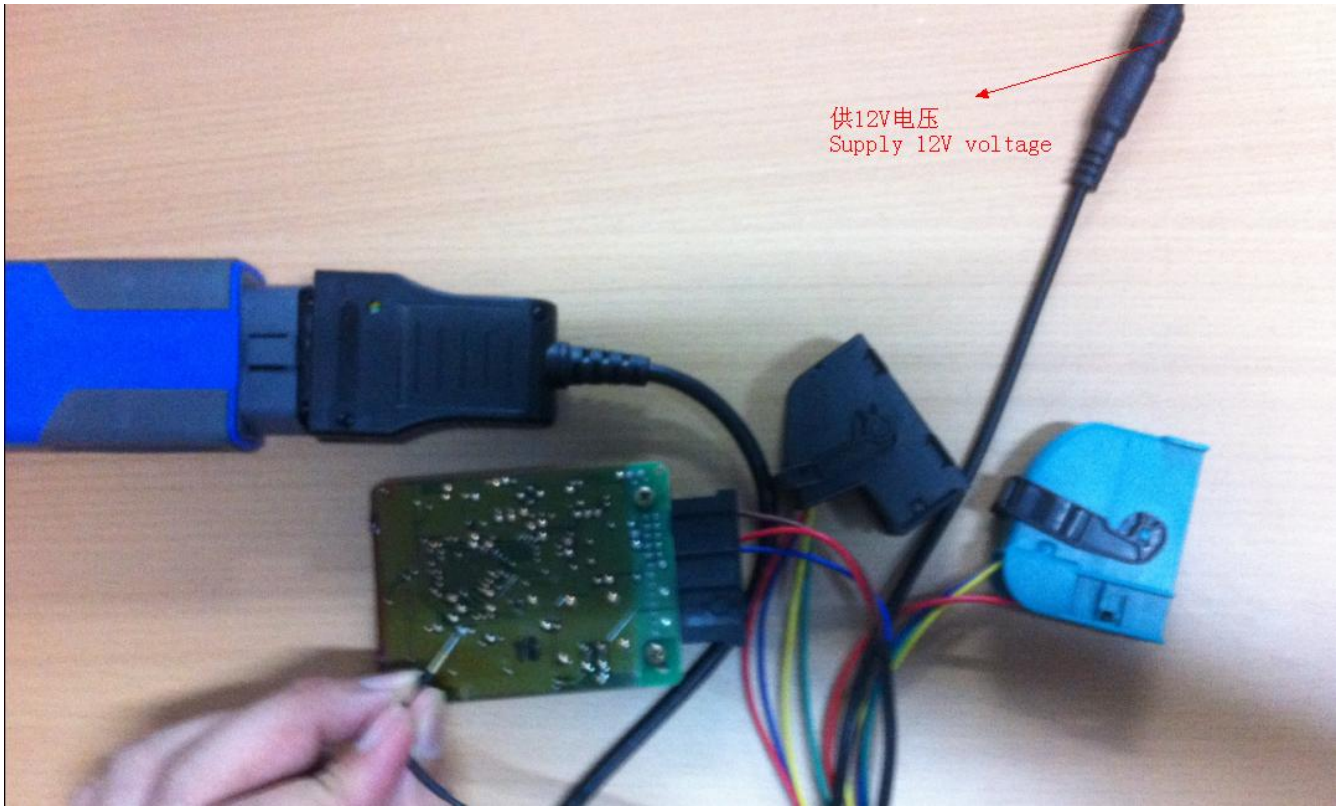
4. CAS PLUG(Non-standard accessories sold separately)：



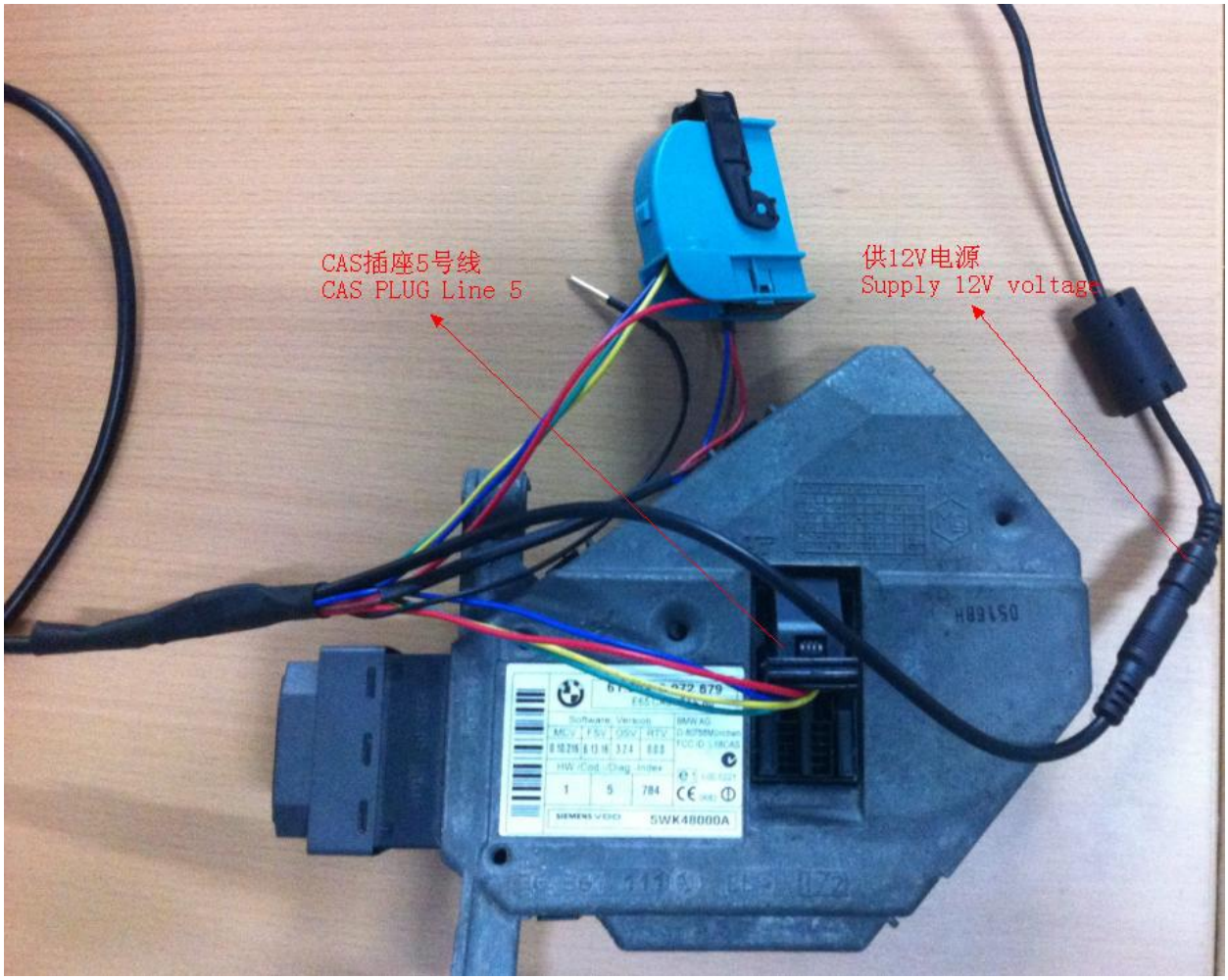
1. **Connect to device OBDII.**
2. **Supply 12V voltage**
3. **EWS OBD Line**
4. **EWS OBD Line 2**
5. **7 Series CAS1/CAS2 plug**
6. **CAS3/CAS3+ plug**

5. How to connect EWS with CAS PLUG

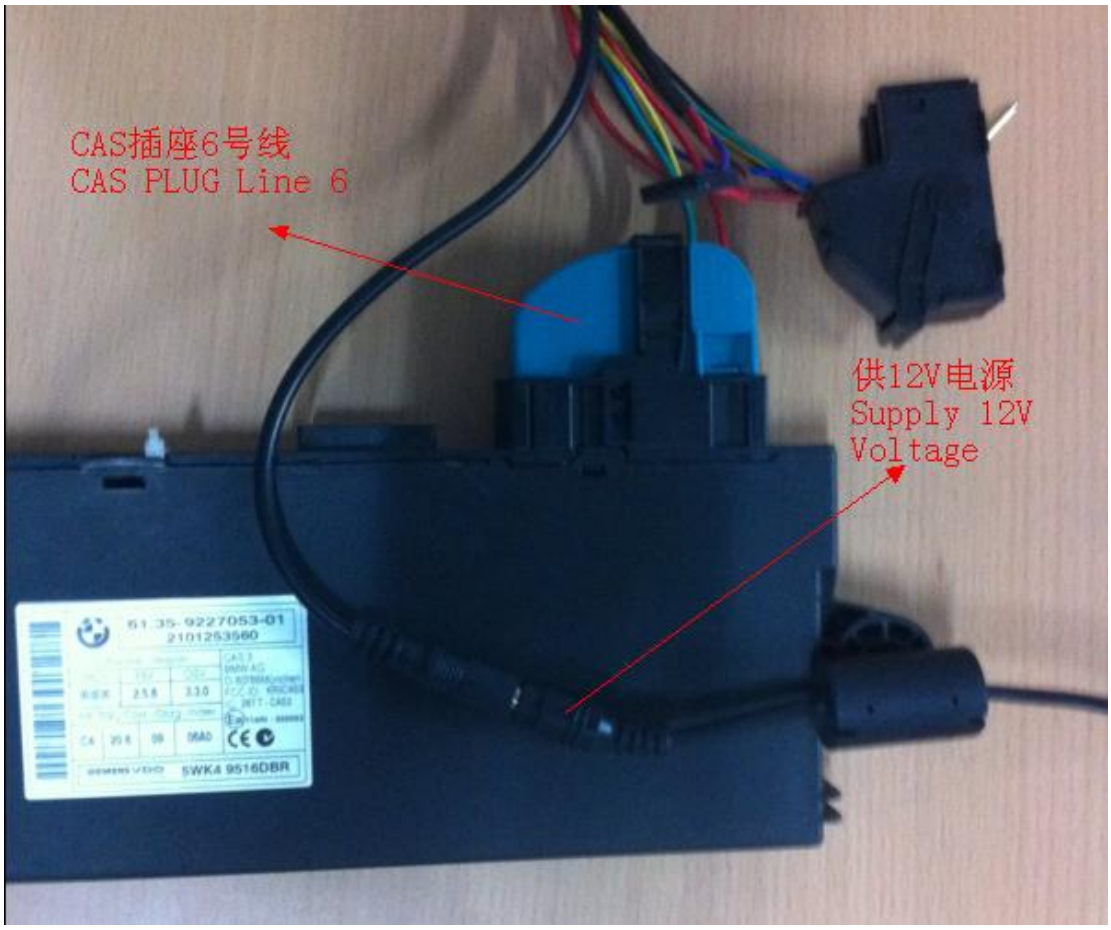




6. How to connect 7 Series CAS1/CAS2 with CAS PLUG

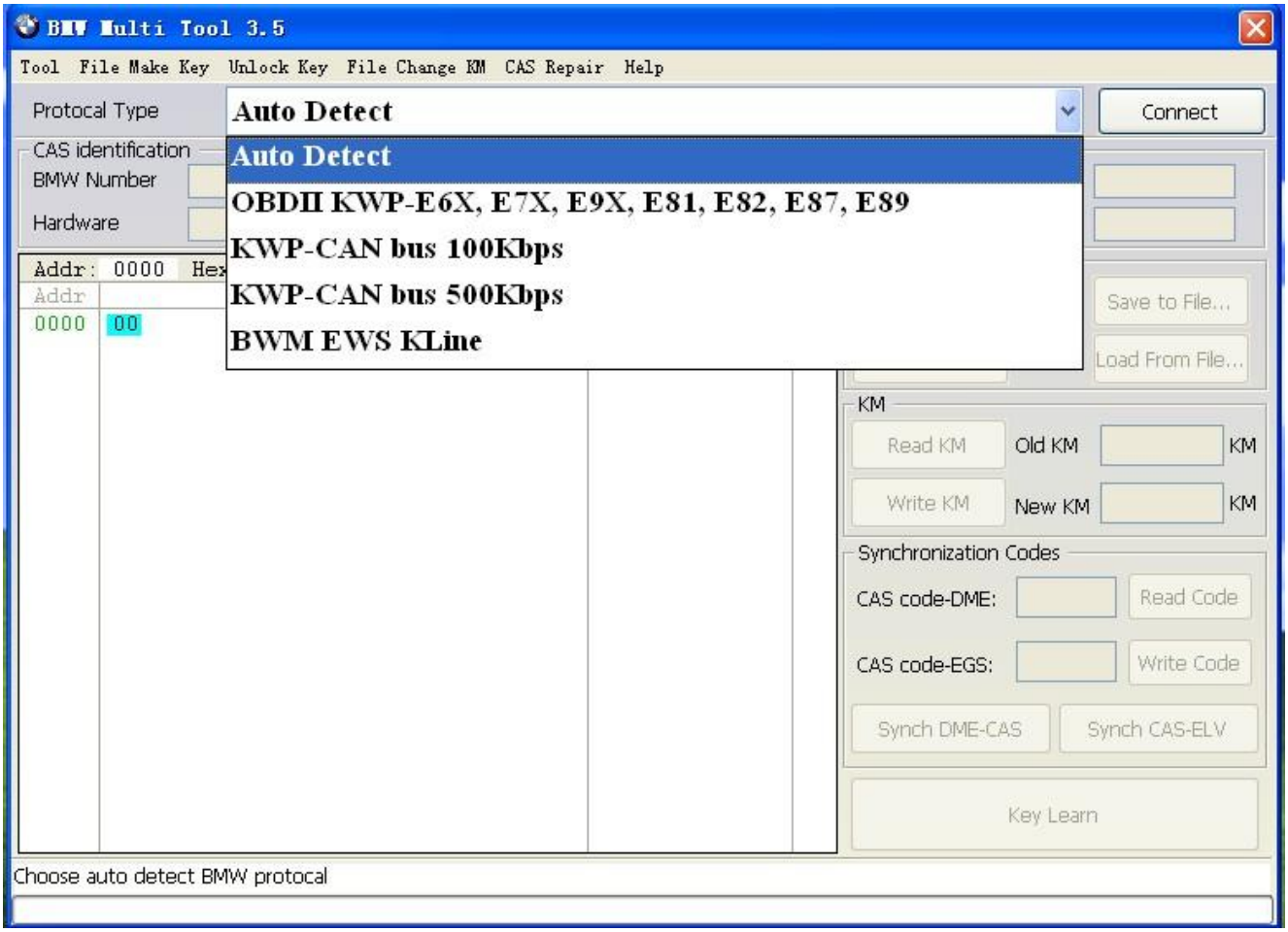


7. How to connect CAS3/CAS3+ with CAS PLUG



4.2. Function

Main window follows:



i. **Menu**

Tool: you can choose language here, support "English" , "Chinese Simplified" , "German", "Italian", "Spanish" and "Hungarian". Restart software to apply your settings.

File Make Key: Prepare dealer key with EWS and CAS EEPROM (support CAS4 encrypt version).

Help: Device update. You can get your device and dongle id version and update it.

Unlock Key: Key make by this software can be unlocked with the original EEPROM dump or key file (Don't support CAS4 key).

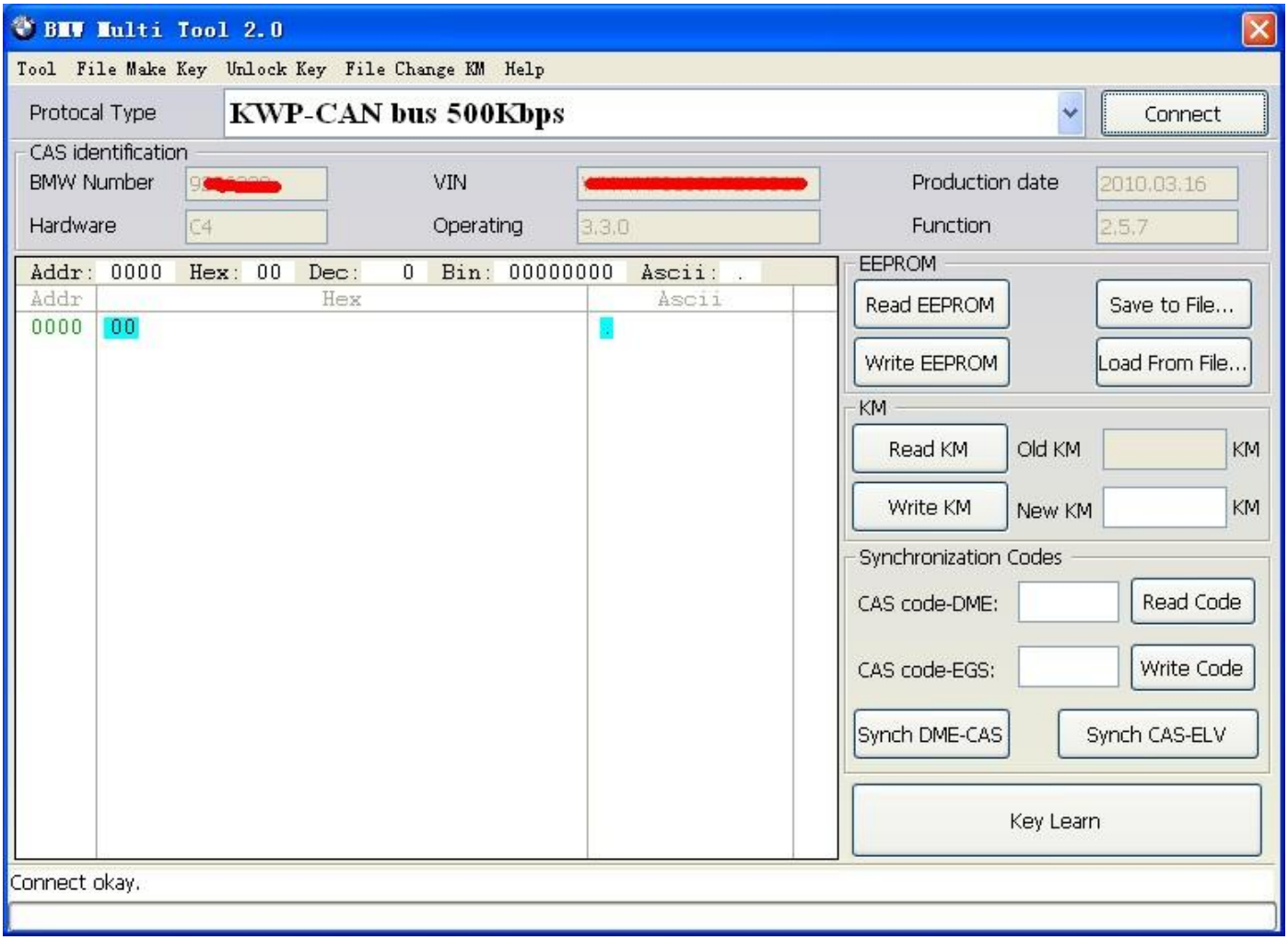
File Change KM: KM stored in CAS EEPROM and instrument dashboard (M35080) can be changed here.

CAS Repair: Repair CAS1(OBDII) soft repair/ ISTA-P4* update flash repair.

Help: Update device, you can get newest software version and firmware version. Also update it to newest one.

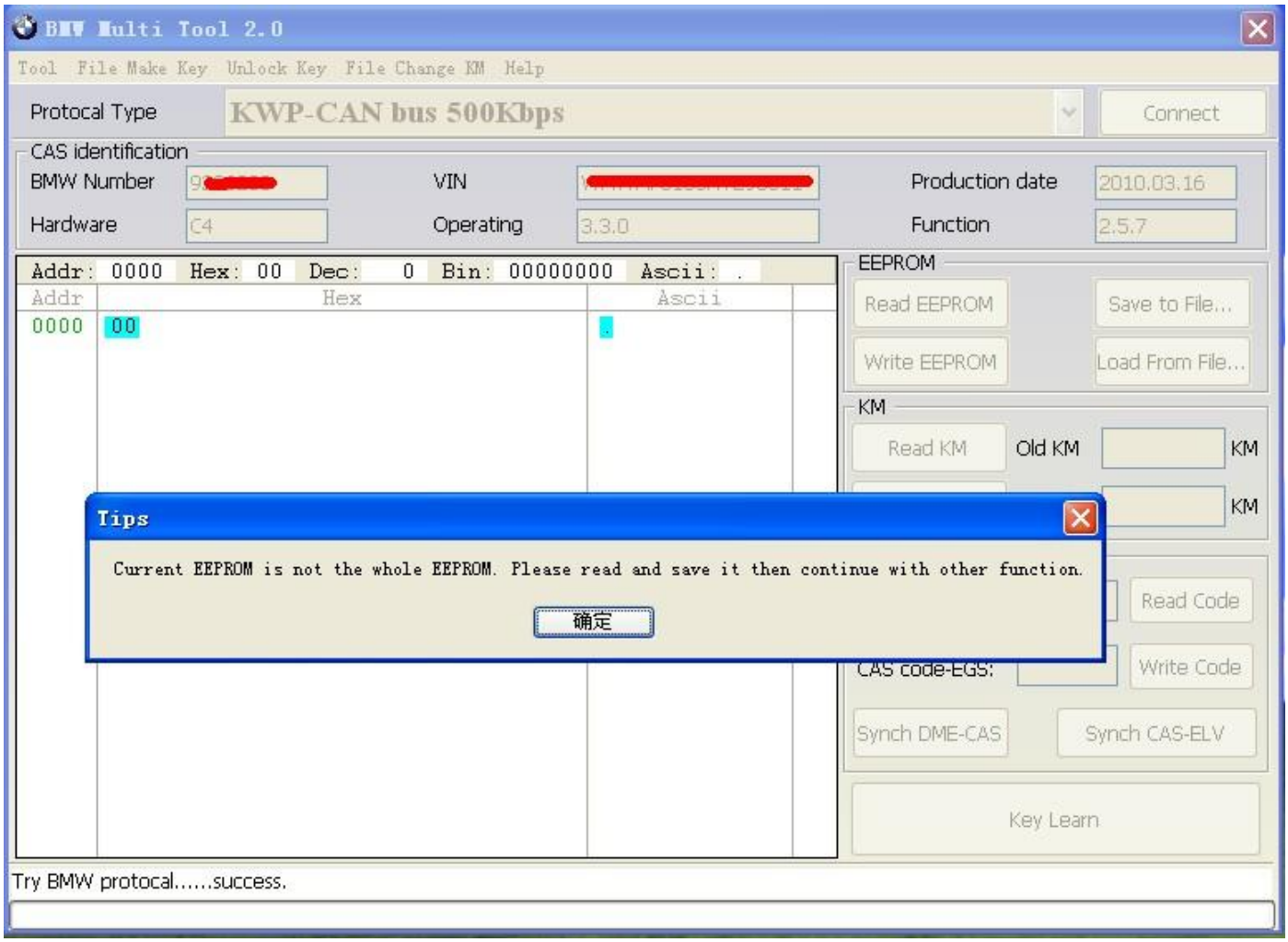
ii. Protocal type:

Now BMT support there type of protocol: KWP-CAN BUS 100Kbps, KWP-CAN BUS 500Kbps, KWP-2000. "Auto Detect" function can help you to choose the right protocol. After choose protocol okay, then press "Connect". If connected success. All CAS info will display in CAS Identification. Include CAS number, VIN, production date, etc. see the picture follows:

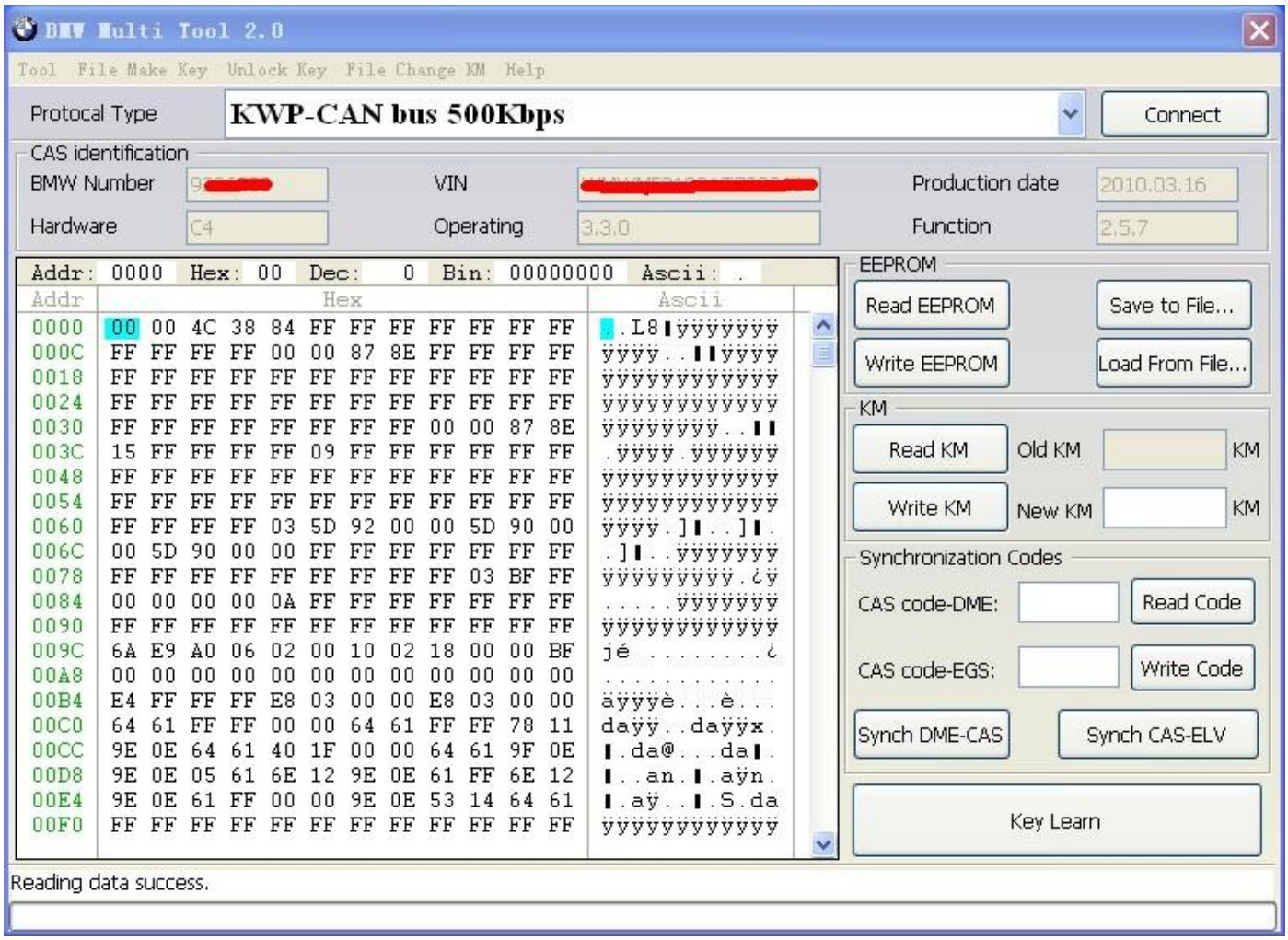


iii. **EEPROM Function: Read EEPROM，Write EEPROM，Save File，Load File…**

1. **You should backup the CAS EEPROM before prepare dealer key. After succeed read EEPROM, please save it as back file. This step is very important. (For some part CAS system, Read EEPROM is not supported, you can go to Key Learn directly)l**
2. **Now can't read the whole EEPROM for CAS3(0L15Y) system. But the main section is contained. It should be saved. When you read CAS EEPROM, it will give tips as follow(Press ok to continue):**

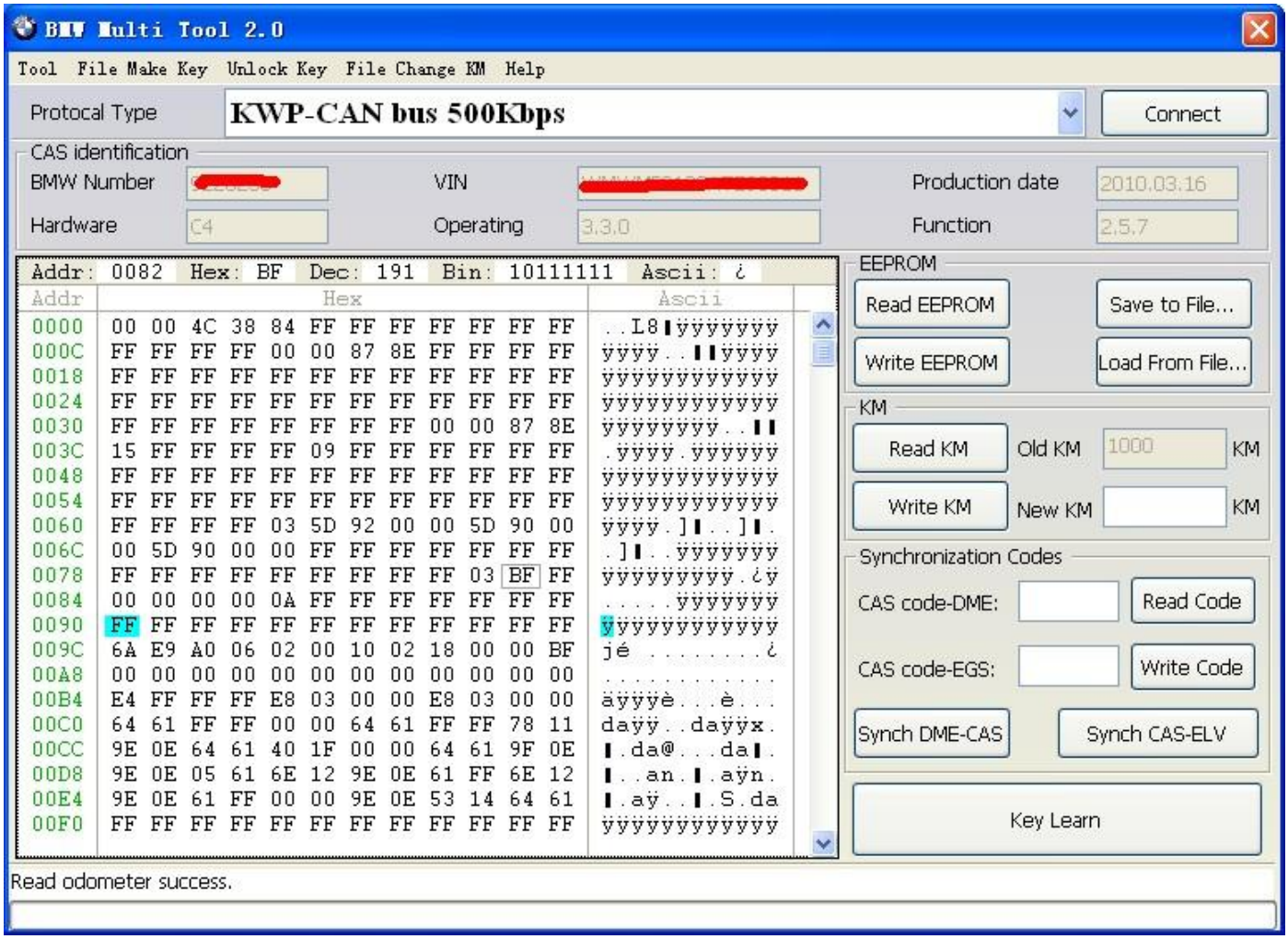


3. **After success read it, you will get:**

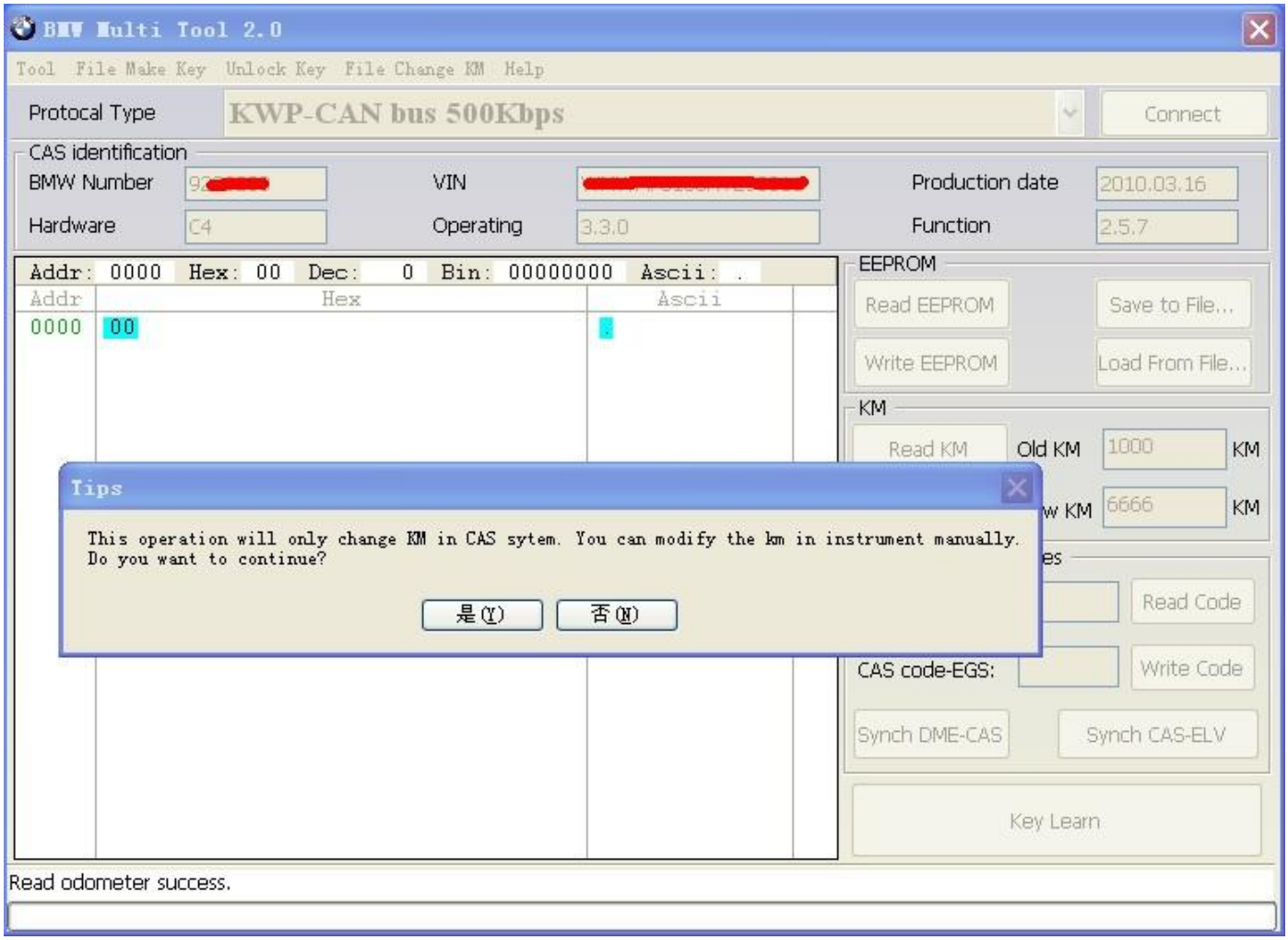


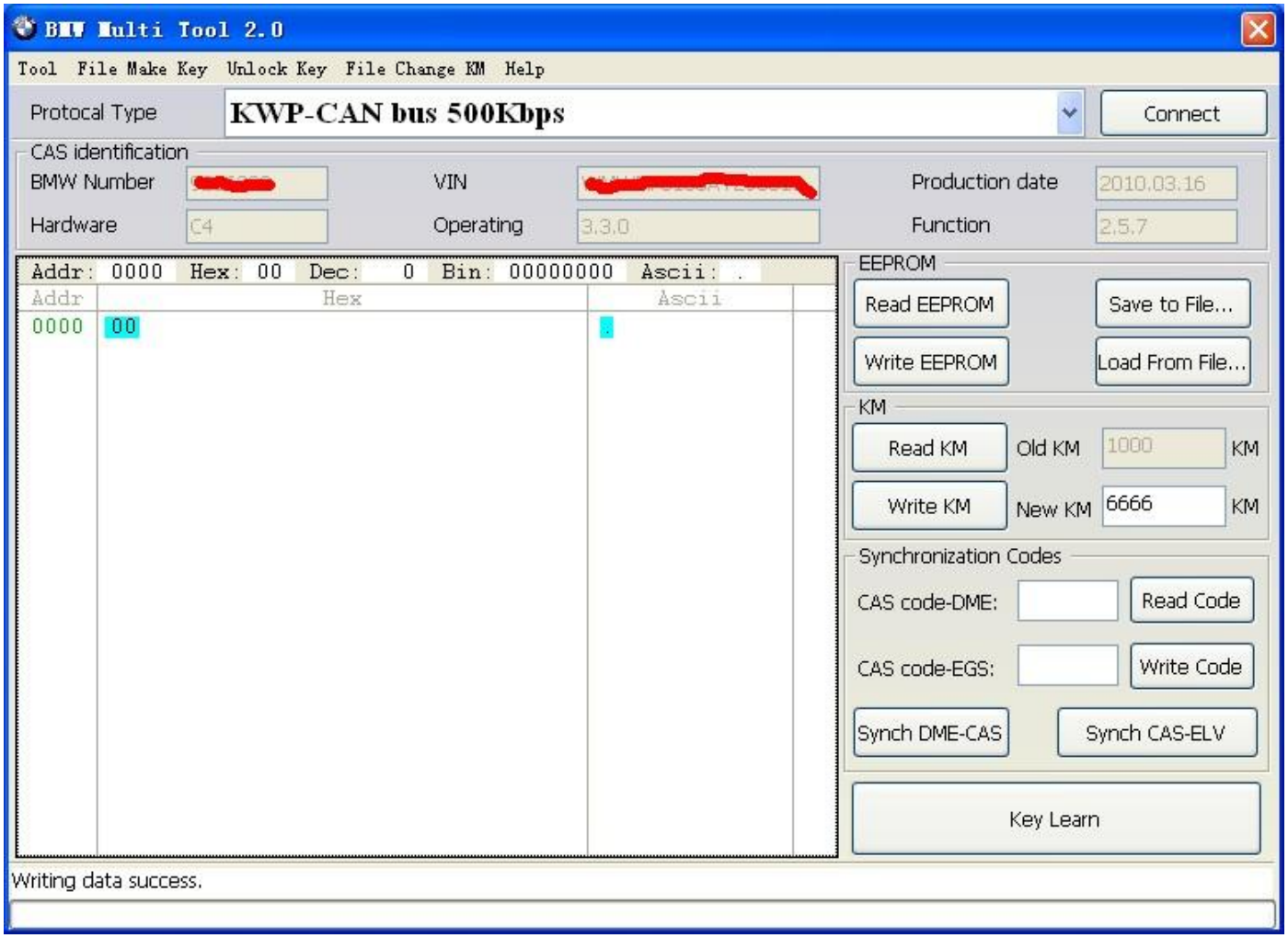
4. **Write EEPROM function is only support CAS1, CAS2 , CAS3(0L01Y)system. Doesn't support write to CAS3(0L15Y) system. (Write EEPROM to CAS2/CAS3(0L01Y) system need CAS PLUG).**

iv. **Odometer: Support read and change KM stored in CAS system. Don't support to change KM in instrument. If you want to change the KM display in instrument. You should remove dashboard from car and change the KM in it first. Before replace the dashboard to car, you should change KM in CAS system. Read KM :**



When you try to write KM to CAS system, you will get the following tips: Press OK to continue.


BMW Multi Tool 2.0
Tool File Make Key Unlock Key File Change KM Help
Protocal Type
KWP-CAN bus 500Kbps
Connect
CAS identification
BMW Number
VIN
Production date
2010.03.16
Hardware
C4
Operating
3.3.0
Function
2.5.7
Addr: 0000 Hex: 00 Dec: 0 Bin: 00000000 Ascii: .
Addr
Hex
Ascii
0000
00
EEPROM
Read EEPROM
Save to File...
Write EEPROM
Load From File...
KM
Read KM
Old KM
1000
KM
w KM
6666
KM
Tips
This operation will only change KM in CAS sytem. You can modify the km in instrument manually.
Do you want to continue?
是(Y)
否(N)
Read Code
CAS code-EGS:
Write Code
Synch DME-CAS
Synch CAS-ELV
Key Learn
Read odometer success.


BMW Multi Tool 2.0
Tool File Make Key Unlock Key File Change KM Help
Protocal Type
KWP-CAN bus 500Kbps
Connect
CAS identification
BMW Number
VIN
Production date
2010.03.16
Hardware
C4
Operating
3.3.0
Function
2.5.7
Addr: 0000 Hex: 00 Dec: 0 Bin: 00000000 Ascii: .
Addr
Hex
Ascii
0000
00
EEPROM
Read EEPROM
Save to File...
Write EEPROM
Load From File...
KM
Read KM
Old KM
1000
KM
Write KM
New KM
6666
KM
Synchronization Codes
CAS code-DME:
Read Code
CAS code-EGS:
Write Code
Synch DME-CAS
Synch CAS-ELV
Key Learn
Writing data success.

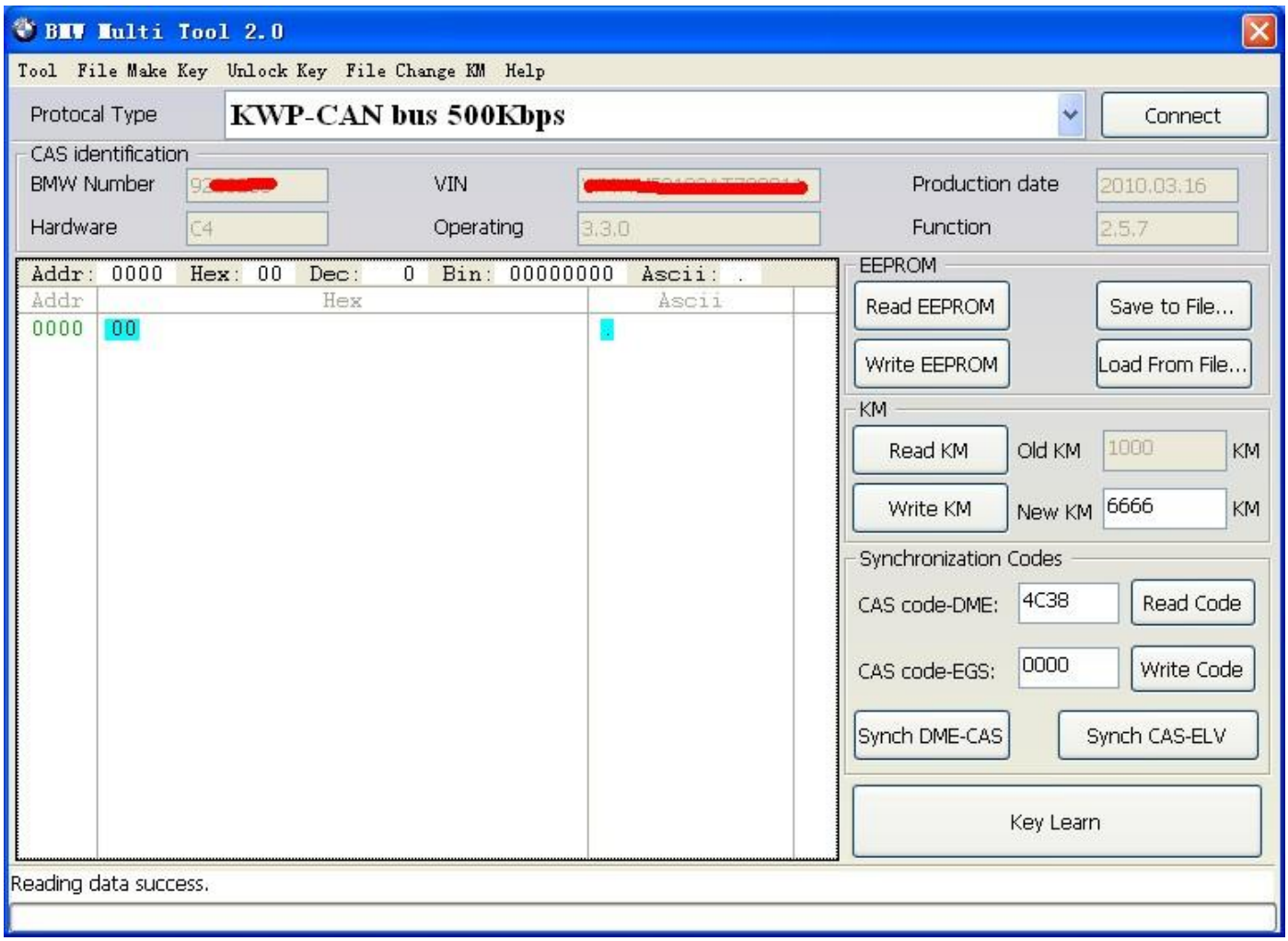
v. **Synchronization Codes:**

1、CAS3 code-DME 、CAS3code-EGS: Read and write DME and EGS code stored in CAS3 system.

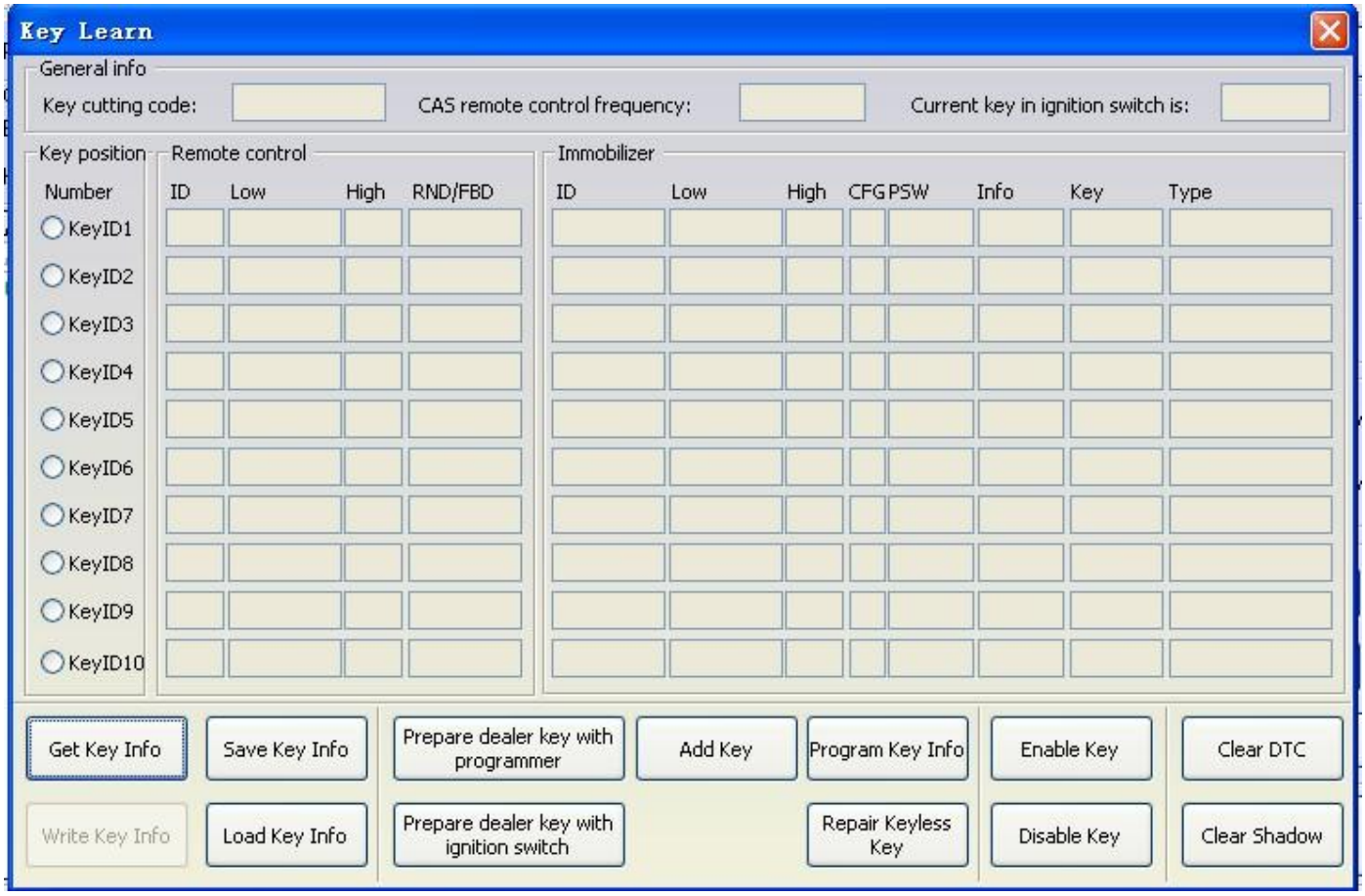
2、Synchronize DME and CAS— this function will be useful while prepare dealer key or any other operation which cause can't start the engine.

3、Synchronize CAS and ELV — this function can help clear wheel errors.

4、Once lost all working key, please don't run this function.



vi. Key Learn

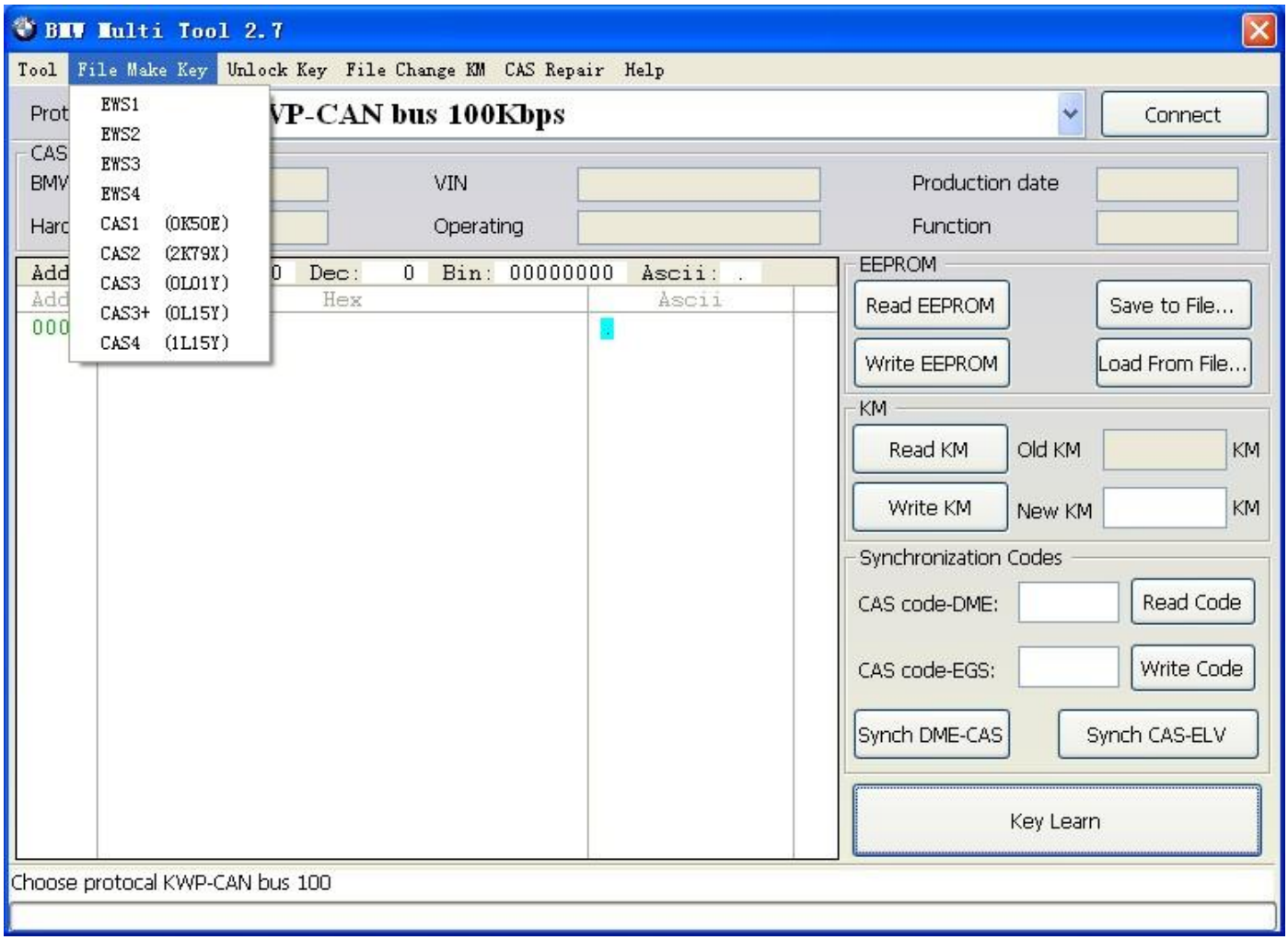


Function introduction:

1. **Get Key Info: With this function you can get the key cutting, remote frequency, and key data.**
2. **Save Key Info: Save the read key info.**
3. **Load Key Info: Load the saved key info. To see the key data and prepare for write key info.**
4. **Write Key Info: Write the loaded key info into CAS system.**
5. **Prepare dealer key with programmer: You can prepare dealer key with tag programmer after you get key info successfully. Also you should choose the key position.**
6. **Add key: Add the new dealer key into CAS system. Some CAS system needs this step to start the engine.**
7. **Program Key Info: This function will allow modify every item key info and update it to car (For advanced user).**
8. **Prepare dealer key with ignition switch: You can prepare dealer key with ignition switch after read key info successfully.**
9. **Repair Keyless Key: Sometimes the keyless key will don't have keyless. Just run this function to repair the keyless function.**

10. **Enable Key: Insert a working key, choose the key position which you want to disable. The key position can't be same with the key in ignition.**
11. **Disable Key: Insert a working key, choose the key position which you want to enable. The key position can't be same with the key in ignition.**
12. **Clear DTC: Before prepare dealer key and after it you can use this function to clear DTC.**
13. **Clear Shadow：Before prepare dealer key and after it you can use this function to clear Shadow.**

vii. File Make Key



1. **Choose CAS or EWS type. It will tips you:**

2. **Load the choose EEPROM file you will get the make dealer key window:**

3. **Choose key position and press "Make Dealer Key" button. Flow the given tips to prepare dealer key. After succeed you can save the new EEPROM dump file.**

For EWS1, EWS2, EWS3, EWS4, CAS1, CAS2, CAS3 type the prepared dealer key can start the engine directly.

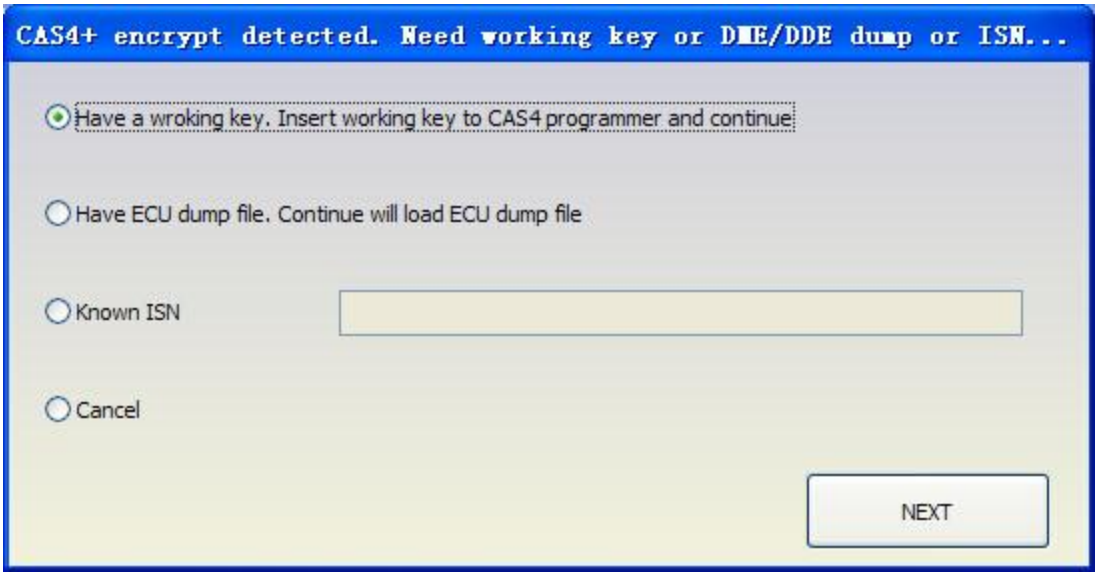
For s*ome CA3+ type you need to write back the n*ew dump file into car.(Don't write EEPROM dump back to car for ISTAP45/46/47 version)

4. **CAS3 encrypt type, only can prepare dealer key with a working key data.**

5. **How to prepare CAS4 dealer key:**

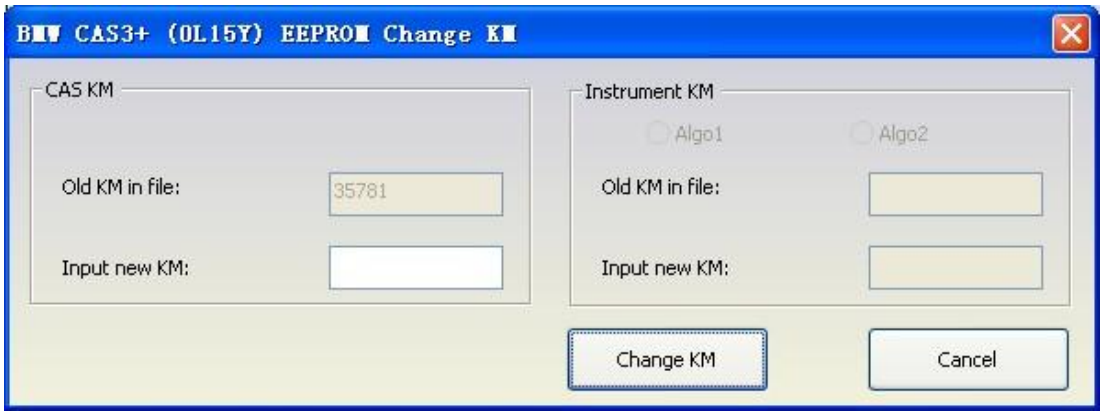
a. **Read CAS4 EEPROM dump with other BDM programmer.**
b. **Connect CAS4 antenna (need pay extra) to BMW Multi Tool. Support 12V extra power to CAS4 antenna.**
c. **Run software and choose "File Make Key"->CAS4, load CAS4 EEPROM dump according to your car type. It shows you all the key info. Choose position where you want to place the key, put a new CAS4 key into CAS4 antenna. Press OK to continue**
d. **Prepare dealer key for CAS4 needs about 2 minutes. The windows maybe false dead. Just wait for it complete.**
e. **After you get the dealer key. It doesn't need write back the EEPROM dump, just insert the key to car ignition.**
f. **Warning: You must choose the right type to load EEPROM dump. The dealer key maybe not start engine if the car isn't belong to our support type. Our support type now: Series 1 F20 (2011-), Series 5 F10/F11 (2010-), Series 5 GT F07(2010-), Series 6 F12/F13 (2011-), Series 7 F0x (2008-), Series X1 (2010-), Series X3 F25 (2011-), XEP100 MCU(5M48H mask) etc.**
g. **Warning: For CAS4 encrypt version need Condor Automatic Key Cutting Machine authorize and update newest firmware. Add key for CAS4 encrypt version need working key support. Lost all key for CAS4 encrypt version need ECU dump file or**

known ISN.


CAS4+ encrypt detected. Need working key or DME/DDE dump or ISN...
Have a wroking key. Insert working key to CAS4 programmer and continue
Have ECU dump file. Continue will load ECU dump file
Known ISN
Cancel
NEXT

viii. File Change KM

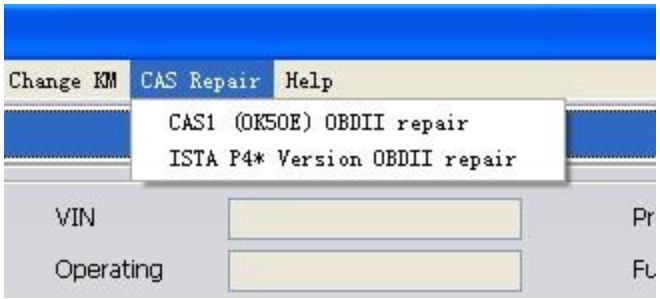
Load EWS/CAS/Dashboard EEPROM file, you can get the old KM from EEPROM, after write new KM, save the new file. Then flash the new file to device. For M35080 chipset used in dashboard it has 2 methods to generate new KM. taker care for it.



ix. CAS Repair

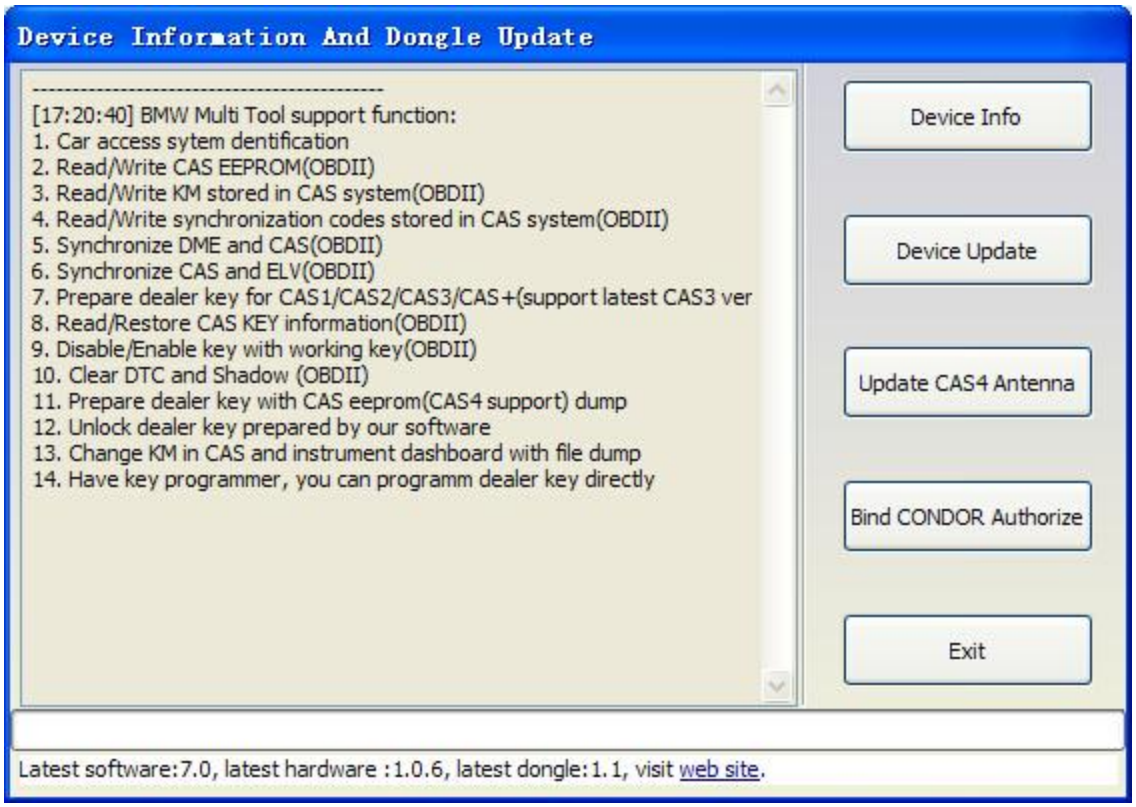
CAS1 (0K50E) OBDII Repair: If interrupt while read CAS1 EEPROM, cause CAS1 doesn't work, you can repair it.

ISTA-P 45 OBDII repair: If interrupt while update ISTA-P 45 progress. You can repair it from here.

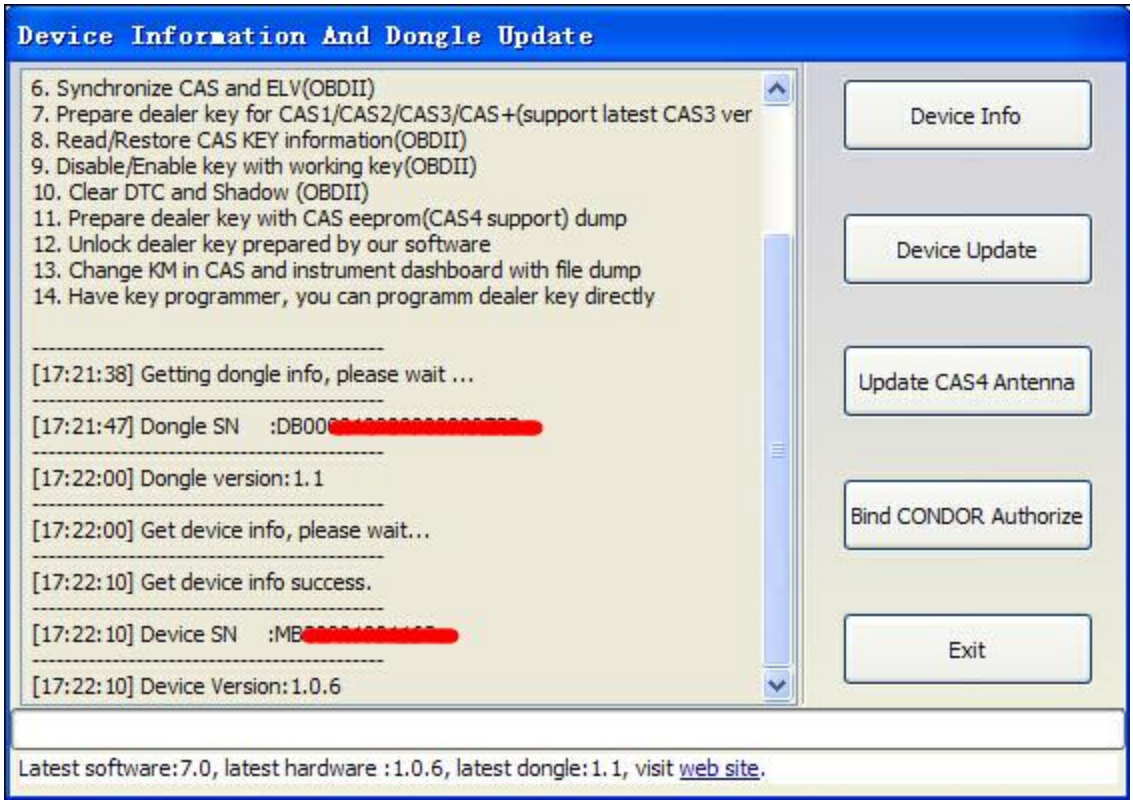


x. Device Update

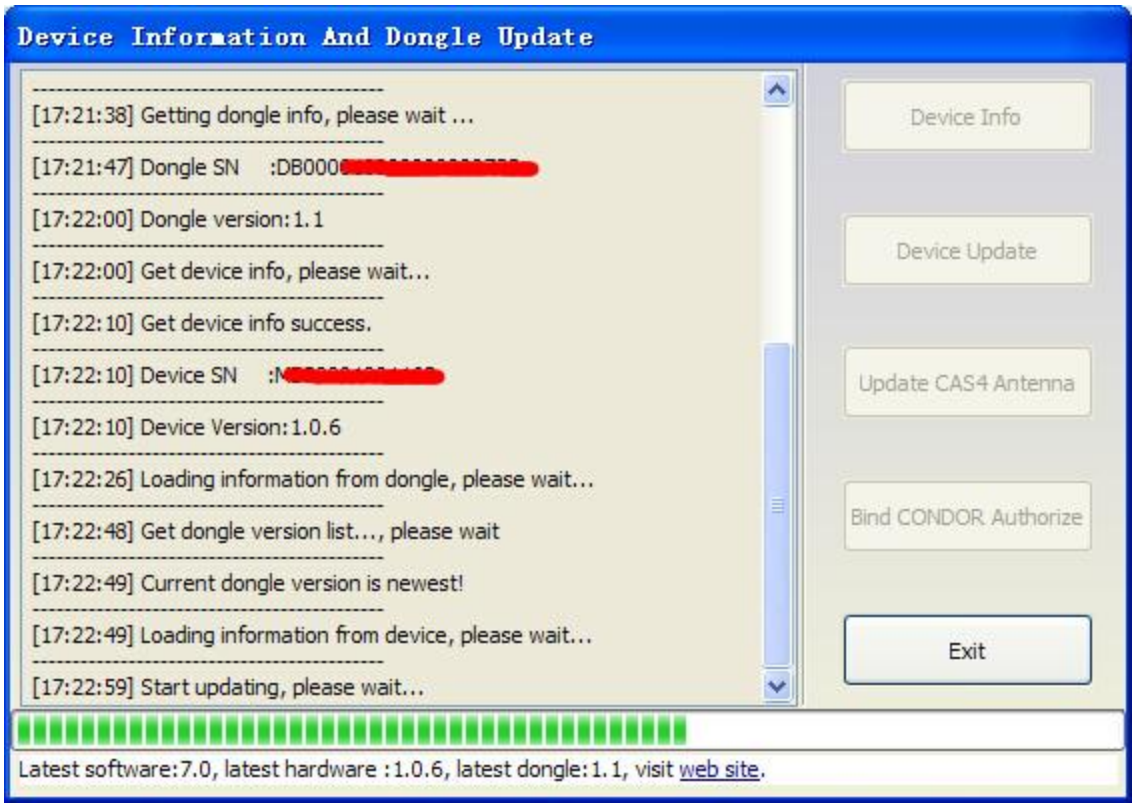
Open this window after connect to internet. You can see the latest software version, firmware version, dongle version. You can go to our website for further information. After succeeded update device firmware, must reconnect the hardware to computer.



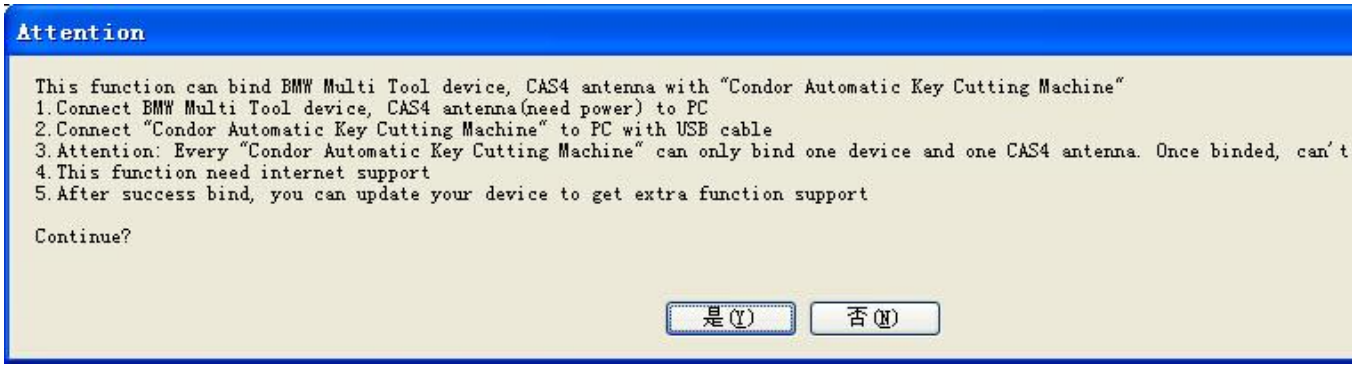
1. **Device Info: Get dongle and hardware SN and version.**


Device Information And Dongle Update
6. Synchronize CAS and ELV(OBDII)
7. Prepare dealer key for CAS1/CAS2/CAS3/CAS+(support latest CAS3 ver
8. Read/Restore CAS KEY information(OBDII)
9. Disable/Enable key with working key(OBDII)
10. Clear DTC and Shadow (OBDII)
11. Prepare dealer key with CAS eeprom(CAS4 support) dump
12. Unlock dealer key prepared by our software
13. Change KM in CAS and instrument dashboard with file dump
14. Have key programmer, you can programm dealer key directly
[17:21:38] Getting dongle info, please wait ...
[17:21:47] Dongle SN :DB00
[17:22:00] Dongle version:1.1
[17:22:00] Get device info, please wait...
[17:22:10] Get device info success.
[17:22:10] Device SN :MB
[17:22:10] Device Version:1.0.6
Device Info
Device Update
Update CAS4 Antenna
Bind CONDOR Authorize
Exit
Latest software:7.0, latest hardware :1.0.6, latest dongle:1.1, visit web site.

2. **Device Update: This function can update the dongle and device.**



3. **Update CAS4 Antenna: This function can update CAS4 antenna firmware.**
4. **Bind CONDOR Authorize: This function will bind your BMW Multi Tool with CAS4 antenna and "CONDOR Automatic Key Cutting Machine". After binded you need update your device again to get extra function support. Ex: Make dealer key for CAS4 encrypt version**



Process to prepare dealer key:

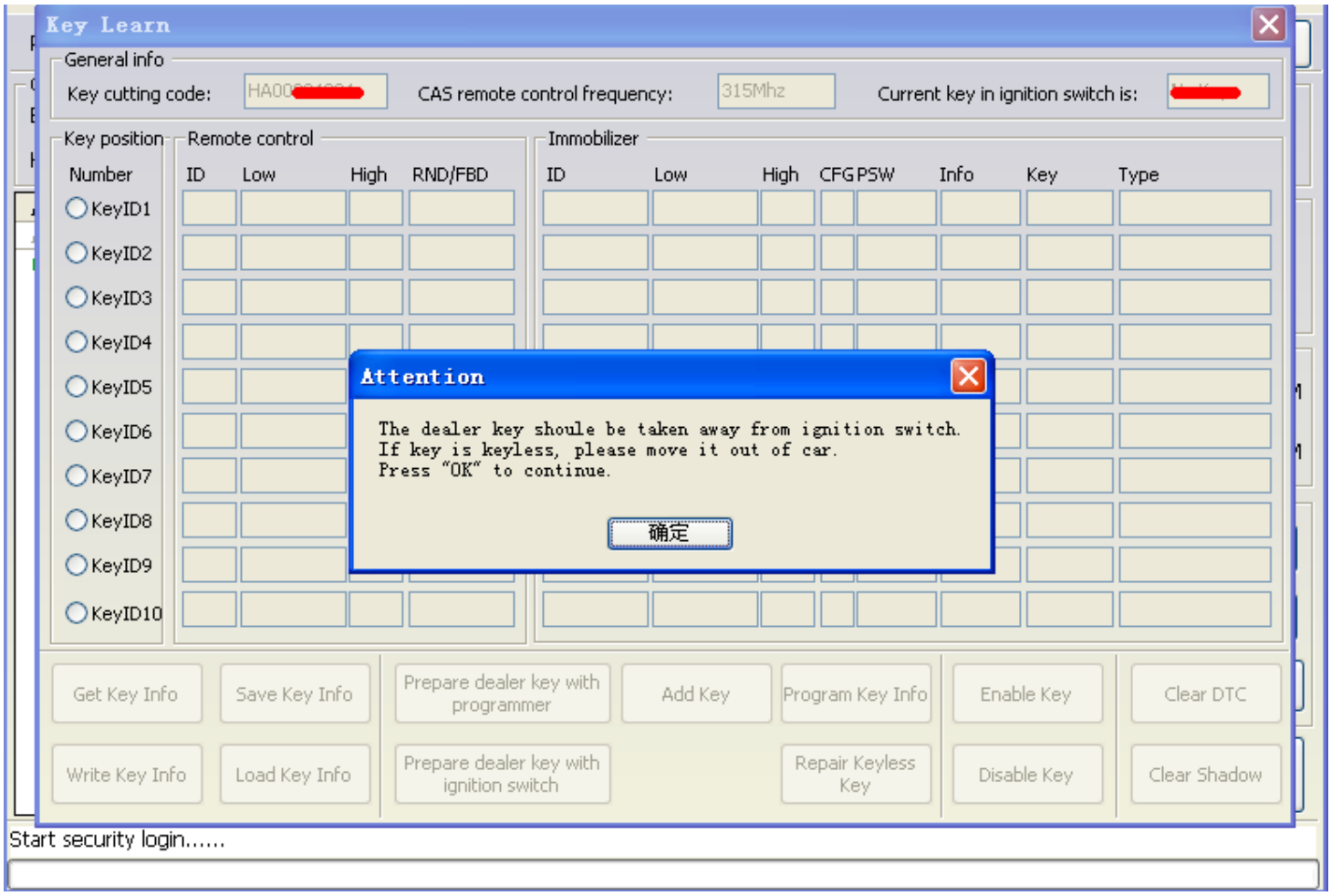
1. **On main window choose "Connect" to auto detect the current car protocol and get the CAS info.**
2. **On main window choose "Read EEPROM" to read the CAS EEPROM file and save it.**
3. **On main window choose "Key Learn" button to get key learn window.**
4. **On Key Learn window choose "Get Key Info" to get the key info stored in CAS system.(Picture 2).(Warning: You must chose "Lost all key" type while the car is CAS3 encrypt type and lost all working key. Else choose "Add key" module. Picture 5)**
5. **Choose "Save Key Info" button to save the read key info for backup.**
6. **Check the connection between programmer and device. Keep connection while make key process. (Step 7-Step 13 is use programmer to prepare dealer key. If you choose ignition prepare dealer key please go to Step 14)**
7. **Put new blank key into the center of programmer.**
8. **Choose the position where you want to suit the key.**
9. **Press "Make Dealer Key" to prepare dealer key. After succeed you will get (Picture 3)**

"Key make okay and locked. Please use it start the car. If can't start engine, use "Add Key" function add the new dealer key to CAS system." Once can start the engine, go to step 13.

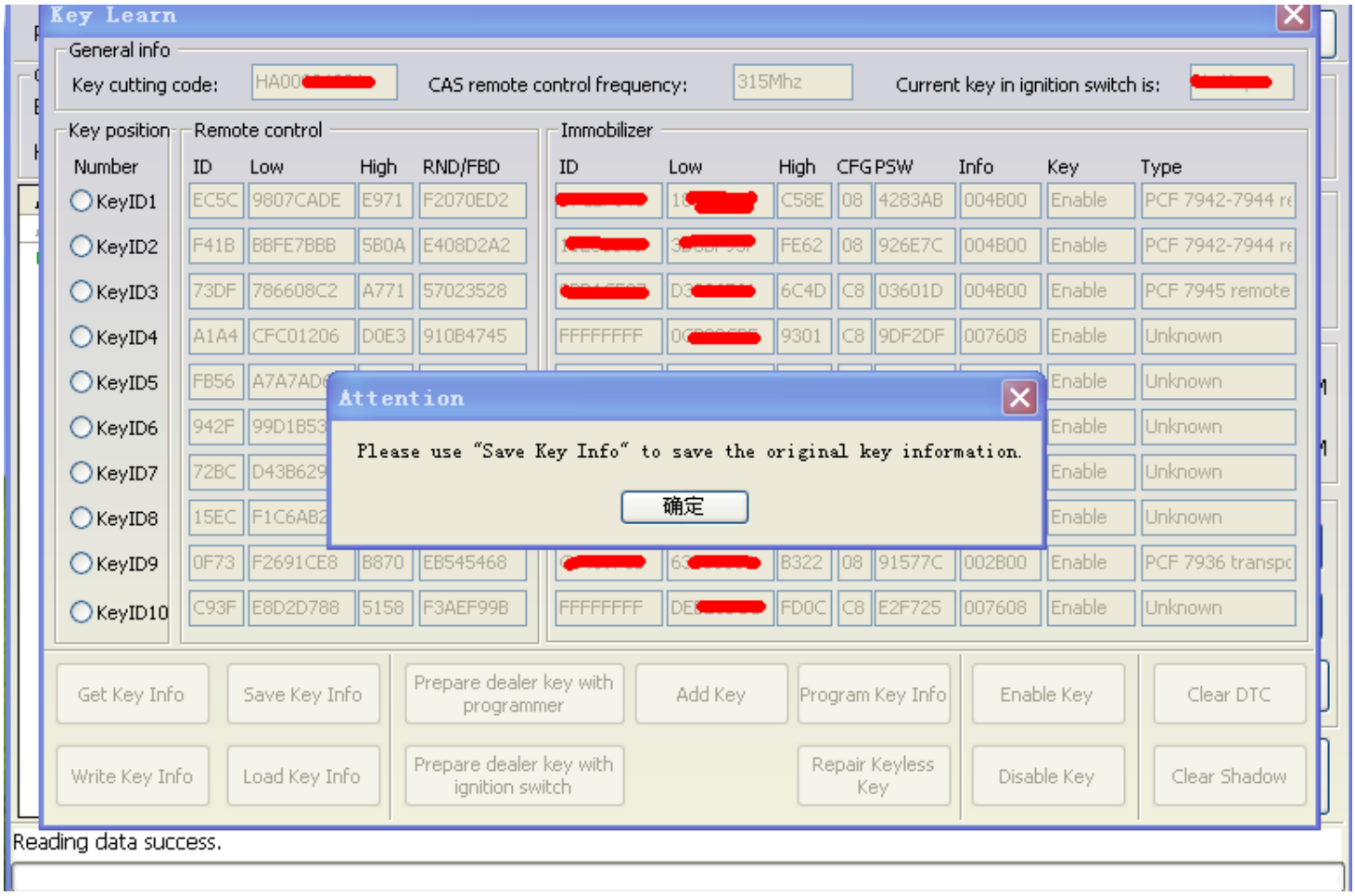
10. **Put the new dealer key into programmer. Use "Add Key" function to add the key to CAS system. After that you will get (Picture 4):"New dealer key success written to CAS system. You can start engine with the new key now. If can't please use the original working key first."**
11. **Please return to main widow and use function "Synch DME-CAS" to synchronize DME (ECU) with CAS.**
12. **Use "Synch CAS-ELV" to clear wheel errors.**
13. **Enter to key learn window use "Clear DTC" and "Clear Shadow" function clear all error sin CAS system. (Dealer key is okay for programmer)**
14. **While choose ignition prepare dealer key, You must chose key type, and pre-process with the new key, the key put into programmer while pre-processing.(Picture6, Warning: This window maybe not in the front, please choose window in taskbar make it shows in front.) After pre-process, insert the key into ignition and press "NEXT" to continue.**

While prepare dealer key process. Once you get the tips like picture 1, remove the key from ignition switch, if key has keyless, take the key out of car.

Picture 1:



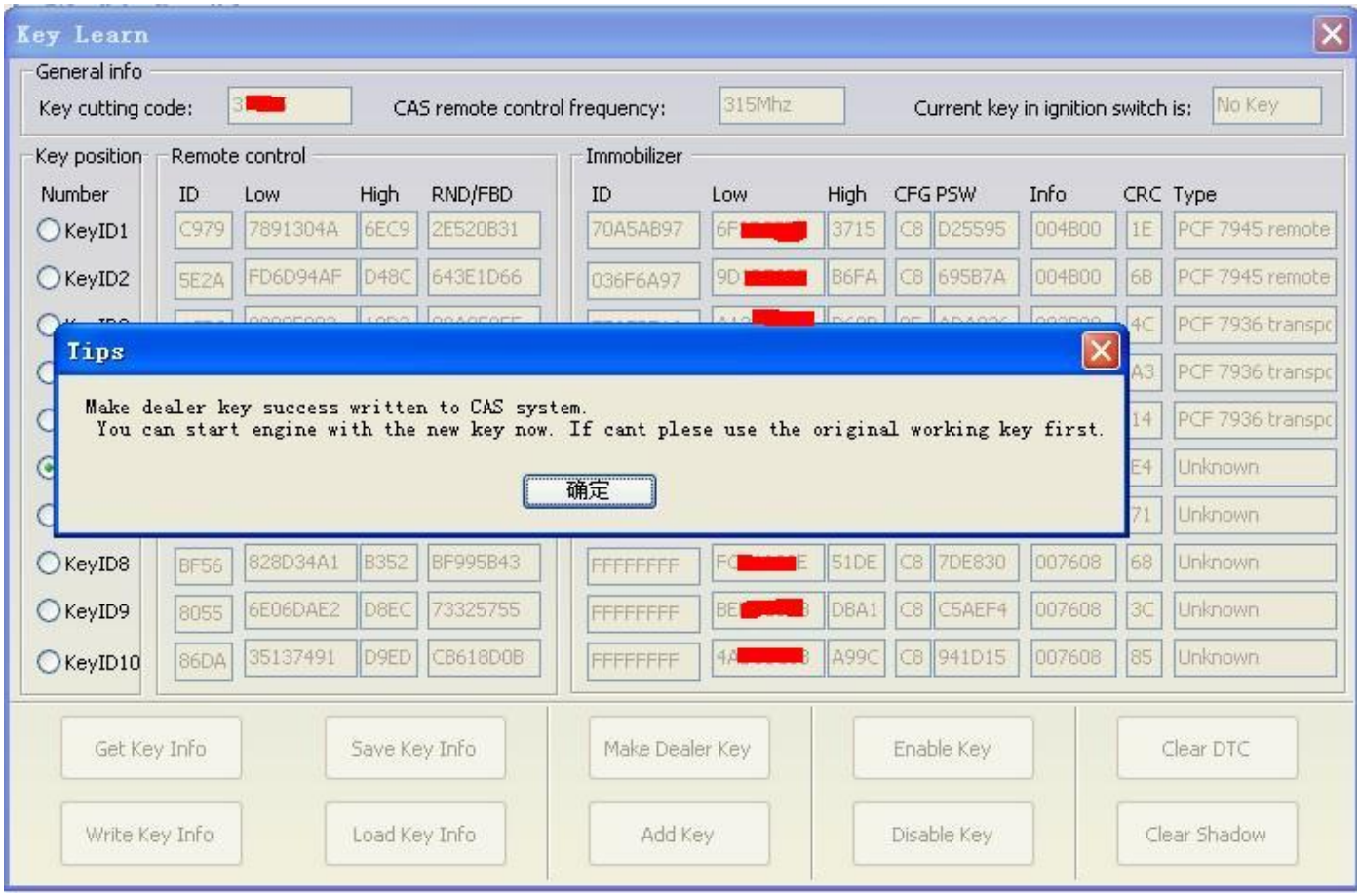
Picture 2:


Key Learn
General info
Key cutting code:
CAS remote control frequency:
315Mhz
Current key in ignition switch is:
Key position
Remote control
Immobilizer
Number
ID
Low
High
RND/FBD
CFG
PSW
Info
Key
Type
KeyID1
KeyID2
KeyID3
KeyID4
KeyID5
KeyID6
KeyID7
KeyID8
KeyID9
KeyID10
Attention
Please use "Save Key Info" to save the original key information.
确定
Get Key Info
Save Key Info
Prepare dealer key with programmer
Add Key
Program Key Info
Enable Key
Clear DTC
Write Key Info
Load Key Info
Prepare dealer key with ignition switch
Repair Keyless Key
Disable Key
Clear Shadow
Reading data success.

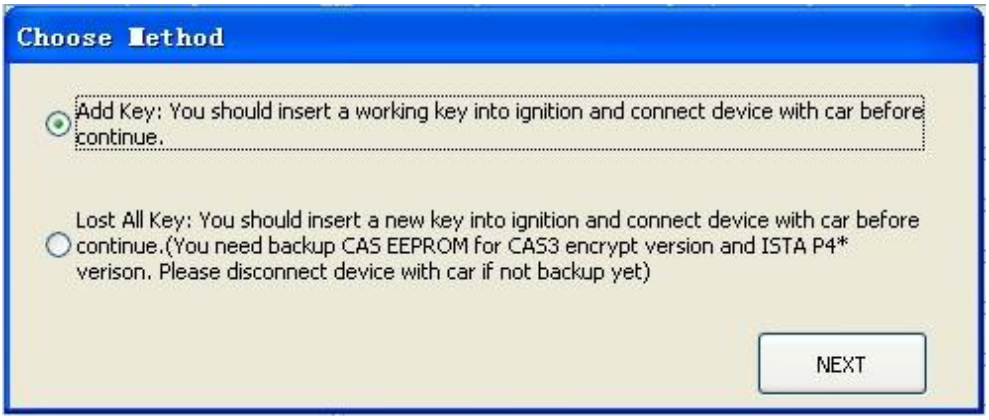
Picture 3:


Key Learn
General info
Key cutting code:
CAS remote control frequency:
315Mhz
Current key in ignition switch is:
No Key
Key position
Remote control
Immobilizer
Number
ID
Low
High
RND/FBD
CFG
PSW
Info
CRC
Type
KeyID1
KeyID2
KeyID3
KeyID4
KeyID5
KeyID6
KeyID7
KeyID8
KeyID9
KeyID10
Tips
Key make okay and locked. Please use it start the car.
If can not start engine. use "Add Key" function add the dealer key to CAS system.
确定
Get Key Info
Save Key Info
Make Dealer Key
Enable Key
Clear DTC
Write Key Info
Load Key Info
Add Key
Disable Key
Clear Shadow

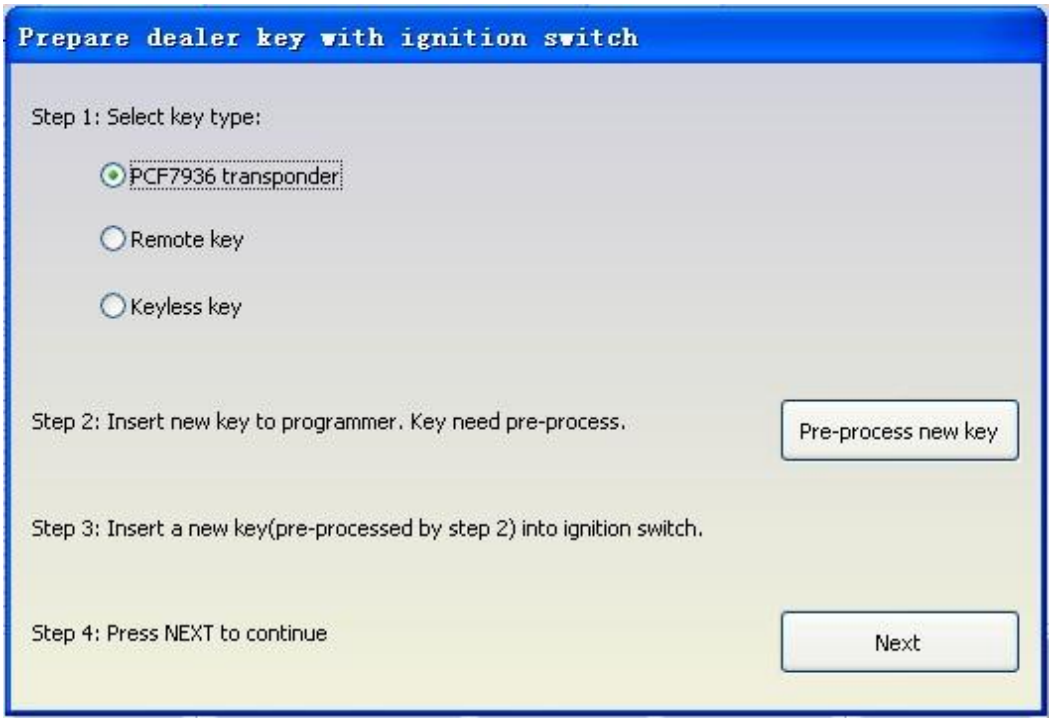
Picture 4:


Key Learn
General info
Key cutting code:
CAS remote control frequency:
315Mhz
Current key in ignition switch is:
No Key
Key position
Remote control
Immobilizer
Number
ID
Low
High
RND/FBD
CFG
PSW
Info
CRC
Type
KeyID1
KeyID2
KeyID8
KeyID9
KeyID10
Tips
Make dealer key success written to CAS system.
You can start engine with the new key now. If cant plese use the original working key first.
确定
Get Key Info
Save Key Info
Make Dealer Key
Enable Key
Clear DTC
Write Key Info
Load Key Info
Add Key
Disable Key
Clear Shadow

Picture 5:



Picture 6:



Prepare dealer key for CAS3+ encrypt version and ISTAP 45/46/47

1 Add key

i. CAS3+ encrypt version

Can use “File Make Key” and OBD prepare dealer key

a. File Make Key (You’d better choose this method): Get CAS device and read EEPROM dump with other BDM programmer. Then use “File Make Key”->”CAS3+ (0L15Y)” prepare dealer key. It needs the working key support in this method. The new dealer key can start engine after write back the new EEPROM dump.

b. OBDII prepare dealer key:

a) Insert working key into ignition switch

b) Use “Read EEPROM” to backup EEPROM (You can’t write this file to CAS with BDM programmer. The file only used in this software)

c) Enter “Key Learn”

d) Press “Get Key Info”. Use Add key method. Then NEXT

e) Use “Save Key Info” after read key info successfully

f) Choose where you want to place the new key

g) Use Programmer or Ignition switch prepare dealer key. (It may need the EEPROM read in step b).)

a.User programmer: It need put new key into device programmer. Try to start engine after make dealer key. Use “Add Key” to add the key to CAS if the key can’t start engine.

b. User ignition switch: First choose new key type. Then put new key into device programmer to pre-process. Before continue insert the success pre-processed key into ignition. Wait until key make okay. The key can start engine without add it to CAS.

ii. ISTAP45/46/47 version

Can use “File Make Key” and OBD(need update flash) prepare dealer key

a. File Make Key (You’d better choose this method): Get CAS device and read EEPROM dump with other BDM programmer. Then use “File Make Key”->”CAS3+ (0L15Y)” prepare dealer key. It needs the working key support in this method. The new dealer key can start engine without write back the new EEPROM dump.

b. OBDII prepare dealer key:

a) You’d better get CAS device and backup flash and EEPROM with other BDM programmer

b) In main window, use “Connect” connect to CAS system and remember “BMW Number”

c) Enter Key Learn

d) Use “Get Key Info”. It need update your CAS flash if it never does this step. See Picture 7. You must follow the step in picture 7.(Support

extra power to car battery and your pc. Avoid low voltage causes update failed). After update flash, you can follow add key for CAS3+ encrypt version step c)-step g) prepare dealer key

e) You can use "CAS Repair"->"ISTAP4* version OBDII repair" in menu to repair CAS if failed in update progress. It needs BMW Number.

2 Lost all working key

i. CAS3+ encrypt version

Can use "File Make Key" and OBD prepare dealer key

a. File Make Key (You'd better choose this method): Get CAS device and read EEPROM dump with other BDM programmer. Then use "File Make Key"->"CAS3+ (0L15Y)" prepare dealer key. (Picture 9) You can make dealer key with ECU dump or known ISN (this method need write back new CAS dump file). Also you can use try 16 times start method: You need write back EEPROM dump to CAS after first try, then you can follow the attention to try start engine at most 16 times, car will start.

b. OBDII prepare dealer key:

a) Insert a new key into ignition switch

b) Use "Read EEPROM" to backup EEPROM (You can't write this file to CAS with BDM programmer. The file only used in this software)

c) Enter "Key Learn"

d) Press "Get Key Info". Use Lost All Key method. Then NEXT

e) Use "Save Key Info" after read key info successfully.

f) Choose where you want to place the new key

g) Use Programmer or Ignition switch prepare dealer key. (It may need the EEPROM read in step b).). This 2 methods use same steps:

a.First ask you it needs try 16 times (at most) to start engine. Continue

b. Choose new key type

c.Put new key into device programmer to pre-process

d. Before continue insert the success pre-processed key into ignition

e.Until you get "Picture 8"（It is the current try times in title of picture 8）

f. Then follow the tips insert key into ignition try to start the engine. If can't start Press "NO", else "YES".

ii. ISTAP45/46/47 version

Can use "File Make Key" and OBD(need update flash) prepare dealer key

a. File Make Key (You'd better choose this method): Get CAS device and read EEPROM dump with other BDM programmer. Then use "File Make Key"->"CAS3+ (0L15Y)" prepare dealer key. (Picture 9) You can make dealer key with ECU dump or known ISN (this method don't need write back new CAS dump file). Also you can use try 64 times start method: you can follow the attention to try start engine at most 64 times, car will start..

b. OBDII prepare dealer key:

a) You'd better get CAS device and backup flash and EEPROM with other BDM programmer

b) In main window, use "Connect" connect to CAS system and remember

"BMW Number"

c) **Enter Key Learn**

d) **Use "Get Key Info". Choose lost all key method before continue. It need update your CAS flash if it never does this step. See Picture 7. You must follow the step in picture 7. (Support extra power to car battery and your pc. Avoid low voltage causes update failed). You can use "CAS Repair"->"ISTAP4* version OBDII repair" in menu to repair CAS if failed in update progress. It needs BMW Number**

h) **Press "Get Key Info" again after update flash. Choose lost all key method before continue**

i) **Use "Save Key Info" after read key info successfully**

j) **Choose where you want to place the key**

k) **Use Programmer or Ignition switch prepare dealer key. This 2 methods use same steps:**

a.First ask you it needs try 64 times (at most) to start engine. Continue

b. Choose new key type

c.Put new key into device programmer to pre-process

d. Before continue insert the success pre-processed key into ignition

e.Until you get "Picture 8"(It is the current try times in title of picture 8)

f. Then follow the tips insert key into ignition try to start the engine. If can't start Press "NO", else "YES".

Attention:

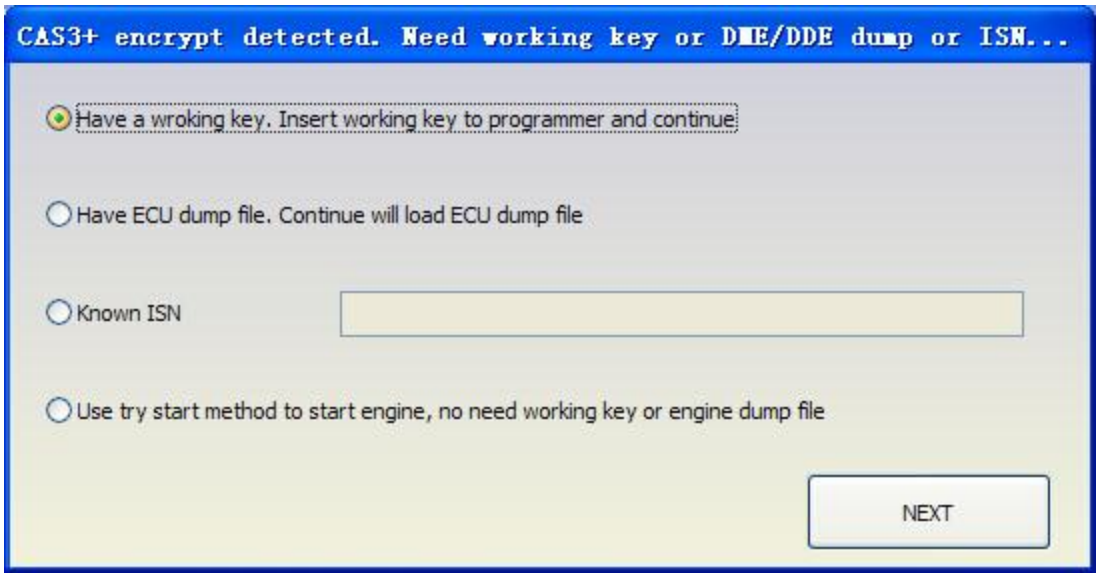
CAS3+ encrypt version includes following BMW Number: 9226238, 9227053, 9237046, 9237047 etc.

ISTAP 4* version includes following BMW Number: 9262360, 9262361, 9278745, 9278746, 9287534, 9287535, 9267608, 9267609 etc.

Picture 7:

Picture 8:

Picture 9:

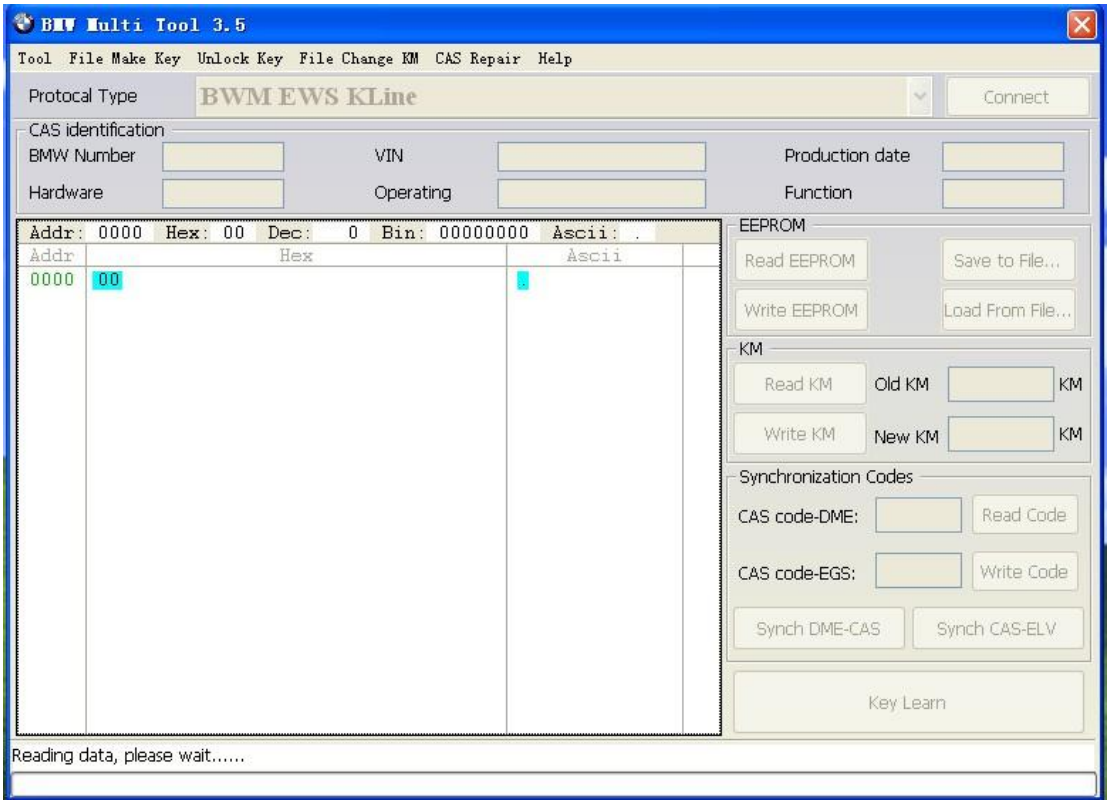


xi. EWS Data Read/Write

EWS support Read/Write EEPROM and prepare dealer key with EWS EEPROM (in File Make Key). Only support 0D46J and 2D467 types EWS

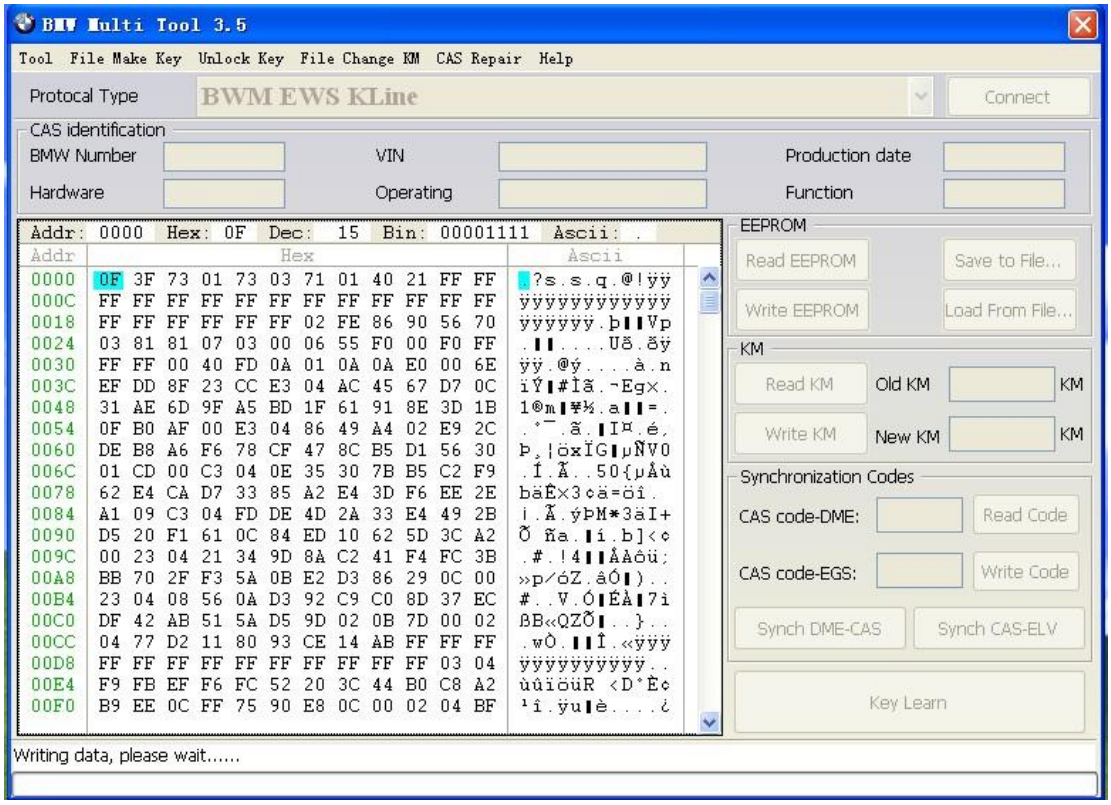
After you press button READ EEPROM:

While Reading:



After read:

While writing:



Warning: Make sure connect dongle to compute before run the software.

5. Troubleshooting

a) “Device not connected” Error

Information: Hardware not connected to PC with USB port.
Solution: Plug device to USB.

6. Warranty and Service

a) Limited One Year Warranty

We warrants to its customers that this product will be free from all defects in materials and workmanship for a period of one(1) year from the date of the original purchase, subject to the following terms and conditions:

- This warranty does not apply to damages caused by improper use, accident, flood, lightning, or if the product was altered or repaired by anyone other than the Manufacturer's Service Center.
- We shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the tool. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
- All information in this manual is based on the latest information available at the time of publication and no warranty can be made for its accuracy or completeness. We reserves the right to make changes at any time without notice.