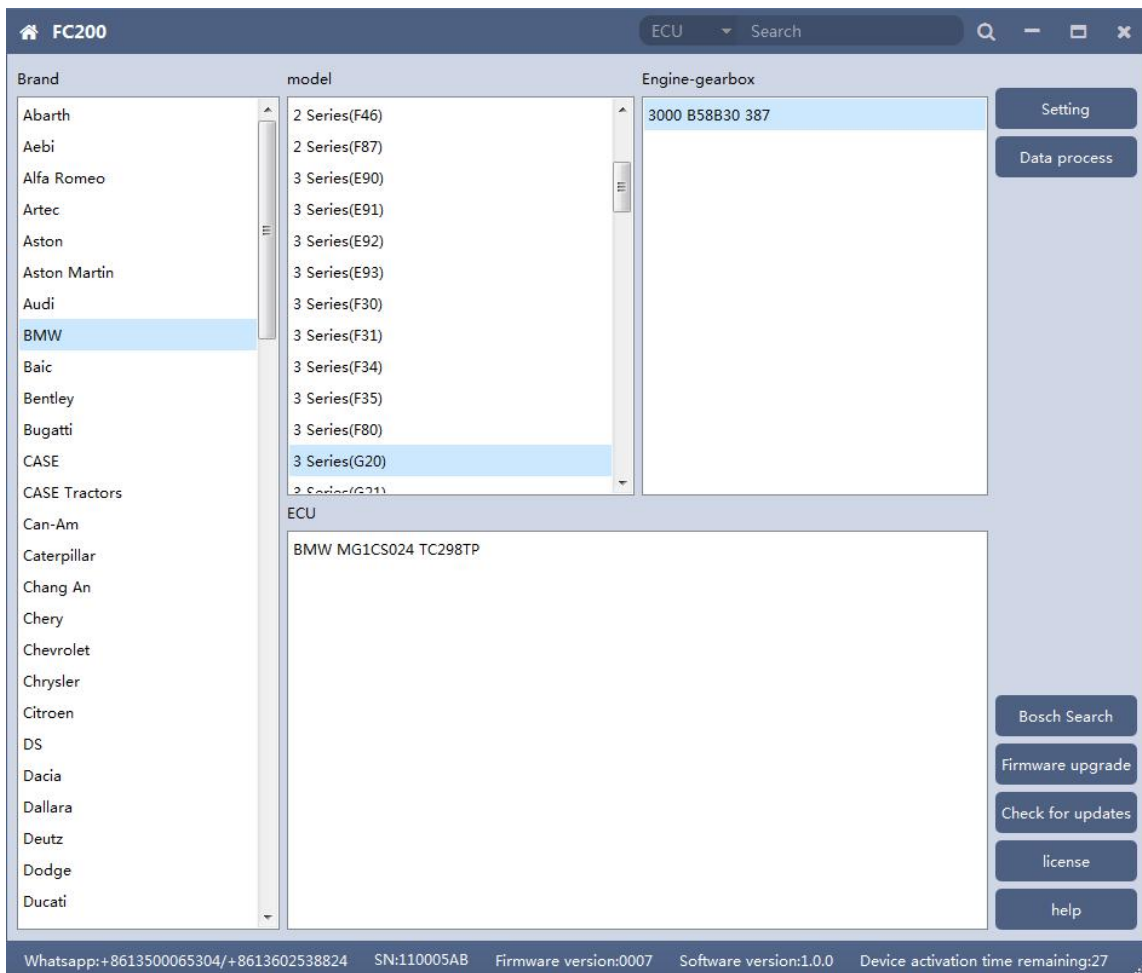

FC200 User Manual

Version No. : V1.0.0(2021.07.31)

1. Software Use

Below the main interface is the software version and device information.



The functions on right side are are:

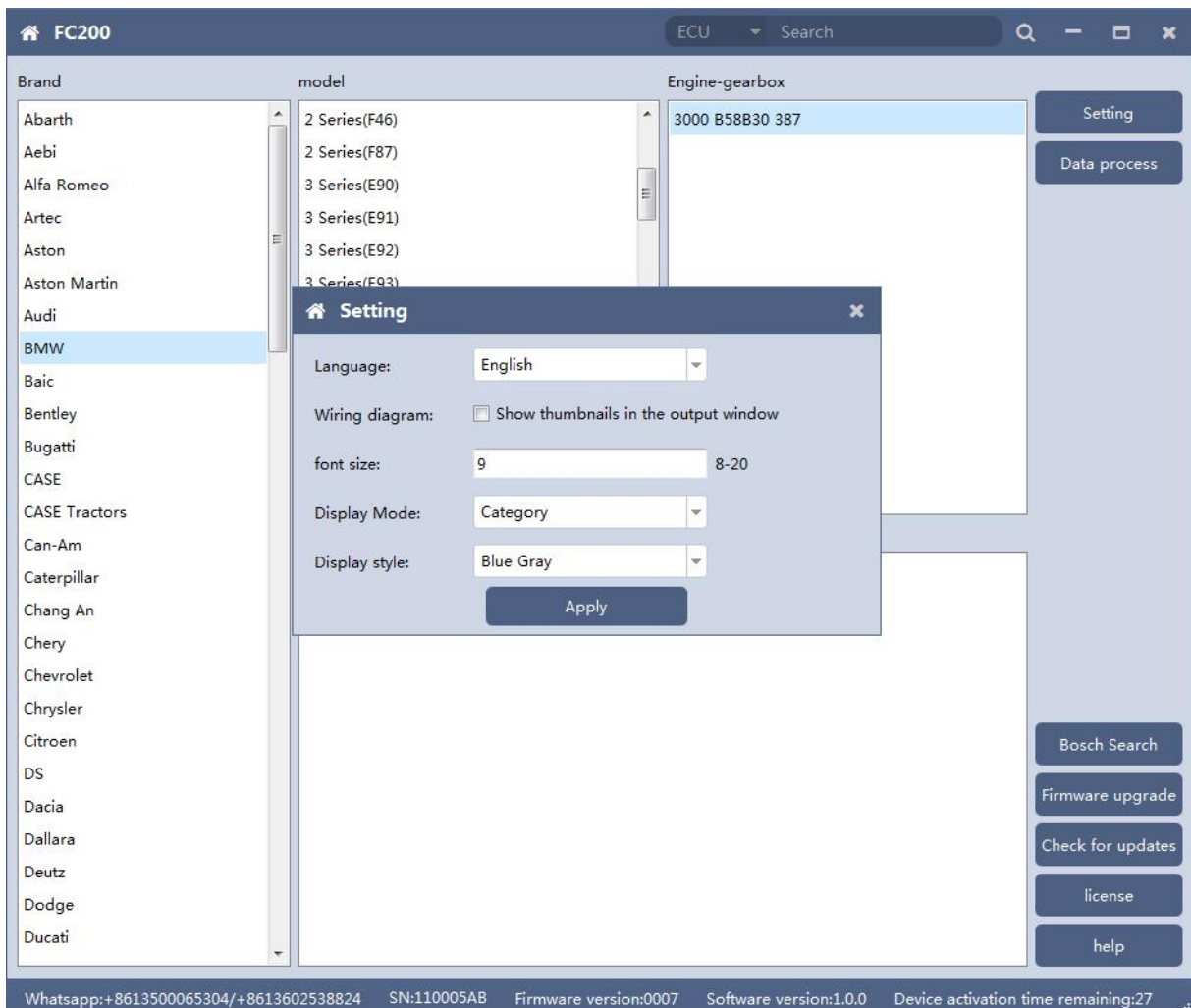
- ⦿ **Setting** Set the language, font size and display type.
- ⦿ **Firmware update** Firmware version update

⦿ **Authorization info** FC200 software requires authorization before use

⦿ **Use help** Open use document

1.1 Setting

- ⦿ **Language:** Switch languages, currently supports Simplified Chinese, Traditional Chinese, English, French ,Polish and Spanish
- ⦿ **Font size:** You can enter the font size yourself (the larger the number, the larger the font) Range: 8-20
- ⦿ **Display Method:** Select category display and merge display
- ⦿ **Display style:** Blue gray and dark blue



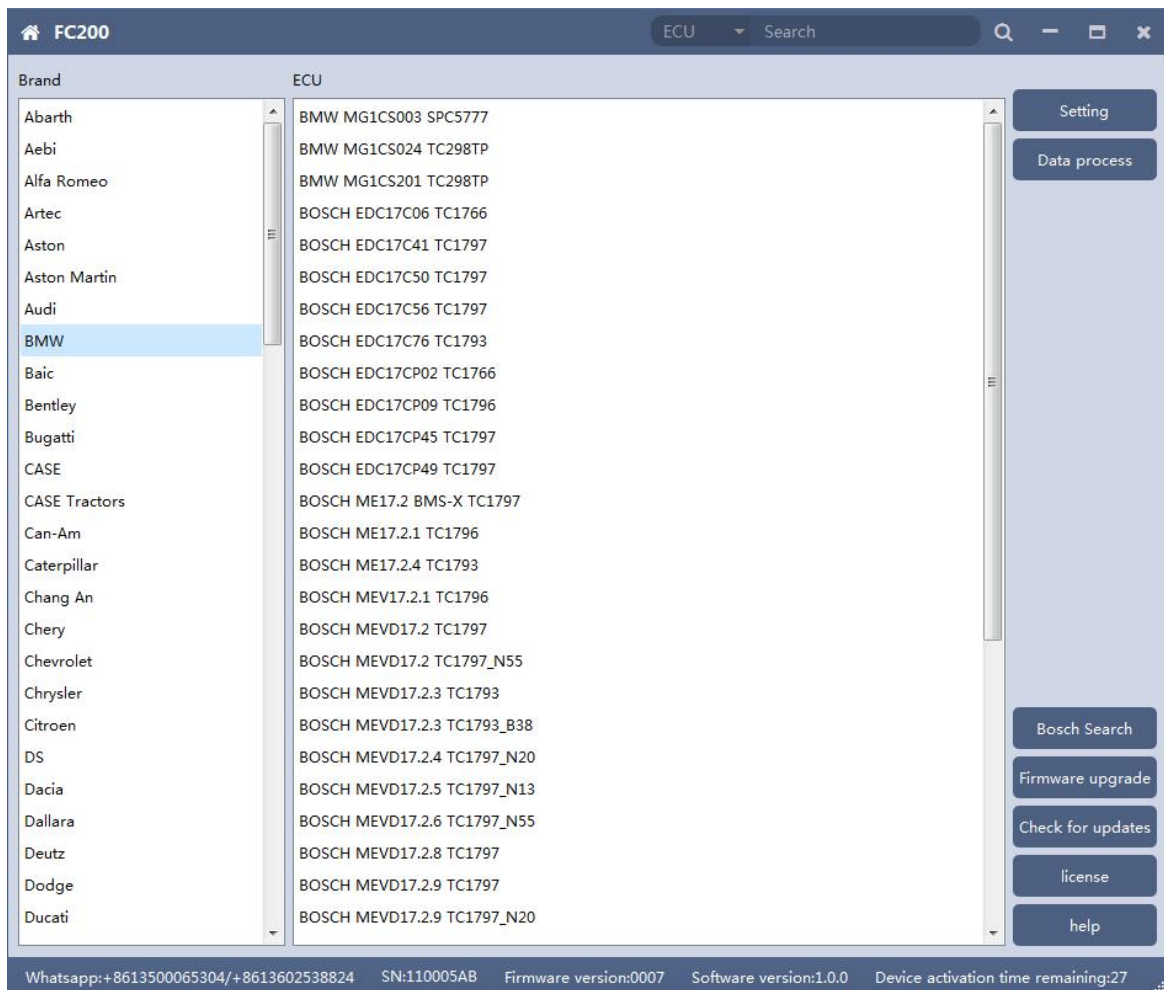
1.1.1 Display Method

⦿ Select category display

The screenshot displays the FC200 software interface for selecting a category display. The interface is organized into several sections:

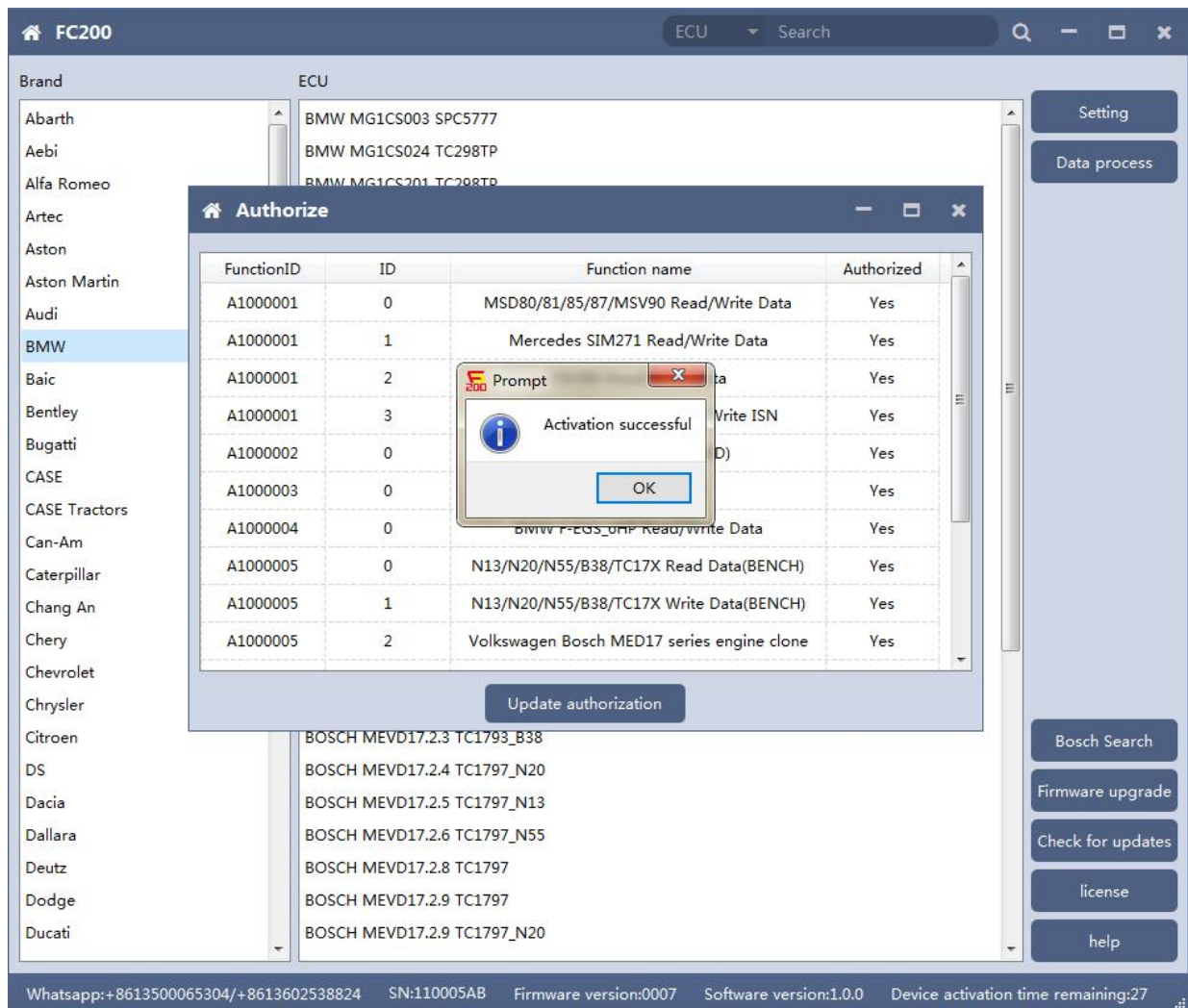
- Brand List:** A vertical list of car brands including Abarth, Aebi, Alfa Romeo, Artec, Aston, Aston Martin, Audi, BMW (highlighted), Baic, Bentley, Bugatti, CASE, CASE Tractors, Can-Am, Caterpillar, Chang An, Chery, Chevrolet, Chrysler, Citroen, DS, Dacia, Dallara, Deutz, Dodge, and Ducati.
- model List:** A list of car models including 2 Series(F46), 2 Series(F87), 3 Series(E90), 3 Series(E91), 3 Series(E92), 3 Series(E93), 3 Series(F30), 3 Series(F31), 3 Series(F34), 3 Series(F35), 3 Series(F80), 3 Series(G20) (highlighted), and 3 Series(G21).
- Engine-gearbox List:** A list of engine-gearbox configurations, currently showing '3000 B58B30 387'.
- ECU Section:** A section labeled 'ECU' containing the text 'BMW MG1CS024 TC298TP'.
- Search and Action Buttons:** A search bar at the top right, and a vertical stack of buttons on the right side: 'Setting', 'Data process', 'Bosch Search', 'Firmware upgrade', 'Check for updates', 'license', and 'help'.
- Status Bar:** A bottom status bar displaying contact information: 'Whatsapp: +8613500065304/+8613602538824', 'SN: 110005AB', 'Firmware version: 0007', 'Software version: 1.0.0', and 'Device activation time remaining: 27'.

⦿ Select category display



1.2 Device Authorization

- ⦿ FC200 software requires authorization before use
- ⦿ Click Authorization Information button on the main interface to view the authorization list
- ⦿ Click the Update Authorization button



⦿ If "No" is still displayed after updating authorization, please contact the manufacturer

1.3 Device search function (frequently-used)

ECU search

The screenshot shows the FC200 ECU search interface. The window title is "FC200" and the search criteria are "ECU" and "MSV90". The interface is divided into several sections:

- Brand:** A list of car brands. "BMW" is highlighted, with the annotation "1 Choose brand".
- model:** An empty field for entering the model name.
- Engine-gearbox:** A list of engine and gearbox specifications. The annotation "2 Insert ECU type to search" points to this list.
- ECU:** A field containing the result "CONTINENTAL MSV90 TC1796", with the annotation "3 Choose ECU".
- Mode Selection:** A vertical stack of buttons: "Setting", "Platform", "Boot", and "Data process". The "Platform" button is highlighted with a red box and the annotation "4 Choose mode to do".
- Footer:** A status bar with contact information and device details: "Whatsapp:+8613500065304/+8613602538824 SN:110005AB Firmware version:0007 Software version:1.0.0 Device activation time remaining:27".

© **Bosch number search**

FC200

Bosch 0261S11654

Brand model

2 Insert Bosch number to search

Setting

Platform

4 Choose mode to do

Boot

Data process

1 Choose brand

BMW

ECU

BOSCH MEVD17.2.P TC1797_N20

3 Choose ECU

Bosch Search

Firmware upgrade

Check for updates

license

help

Whatsapp:+8613500065304/+8613602538824 SN:110005AB Firmware version:0007 Software version:1.0.0 Device activation time remaining:27

⦿ **Bosch number query (click “Bosch search”)**

FC200

Bosch Search

Brand	model	Engine-gearbox
Abarth	1 Series(E81)	218d B47D20A 150
Aebi	1 Series(E82)	218d N47D20C 143
Alfa Romeo	1 Series(E87)	218i B38B15A 136
Artec	1 Series(E88)	220d B47D20A 190
Aston	1 Series(F20)	220d N47D20C 184
Aston Martin	1 Series(F21)	220d xDrive B47D20A 190
Audi	2 Series(F22)	220i B48A20A 192
BMW	2 Series(F23)	220i B48B20A 187
Baic	2 Series(F45)	225d B47D20B 224
Bentley	2 Series(F46)	225d N47D20D 218
Bugatti	2 Series(F87)	228i N20B20A 242
CASE	3 Series(E90)	228i N20B20A 245
CASE Tractors	2 Series(E91)	228i N26B20A 242 M5D90
Can-Am		
Caterpillar		
Chang An		
Chery		
Chevrolet		
Chrysler		
Citroen		
DS		
Dacia		
Dallara		
Deutz		
Dodge		
Ducati		

ECU

Setting

Data process

Bosch Search

Firmware upgrade

Check for updates

license

help

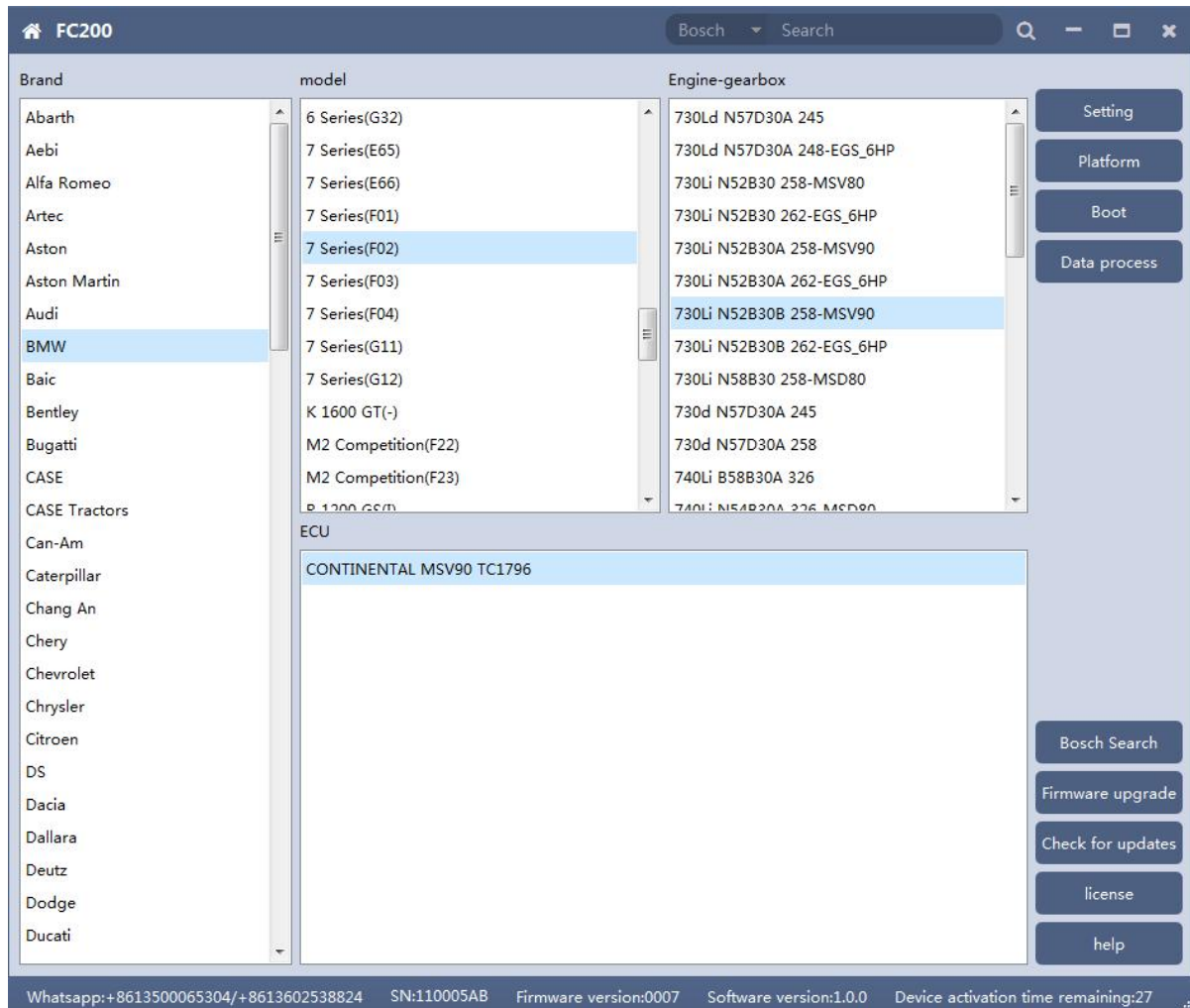
Whatsapp:+8613500065304/+8613602538824 SN:110005AB Firmware version:0007 Software version:1.0.0 Device activation time remaining:27



2. MSV90/80/MSD87/85/ 81/80/SIM271

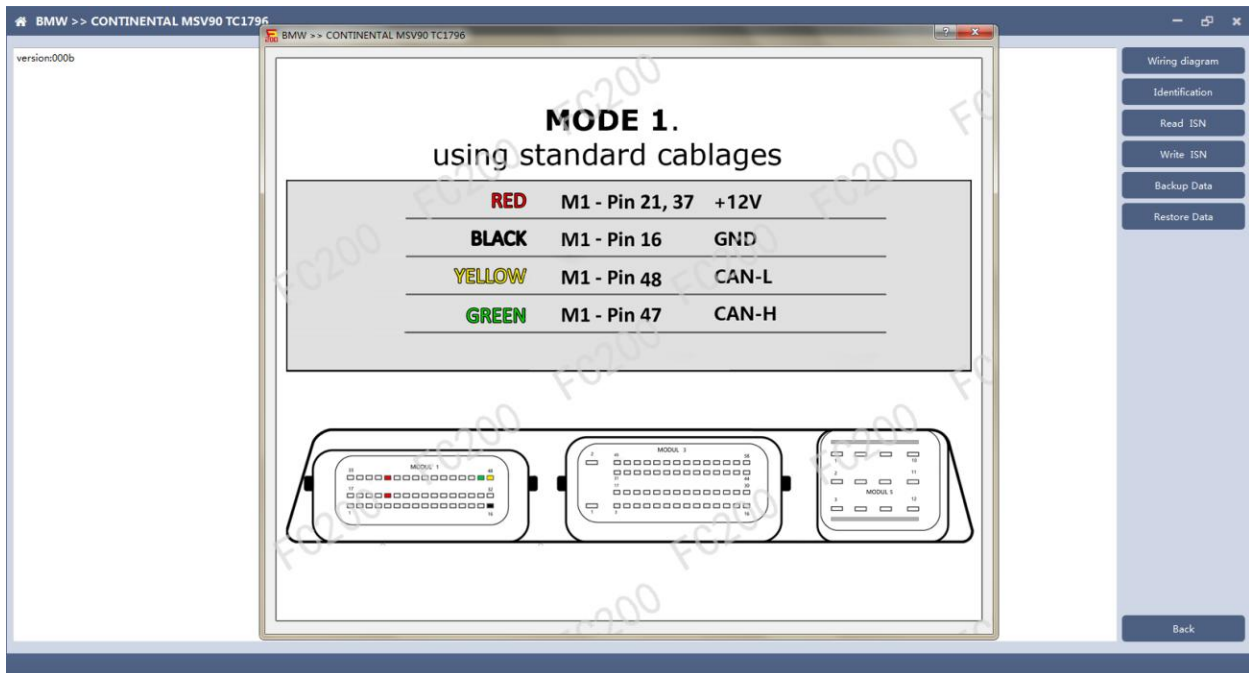
FC200 currently supports the cloning and ISN reading of BMW models MSV90/80/MSD87/85/81/80 (E series, F series) and Mercedes-Benz SIM271 ECU.

2.1 Determine the type of ECU according to the vehicle model, and select the correct model, otherwise the normal operation will not be possible. The MSV90 is used for description below.



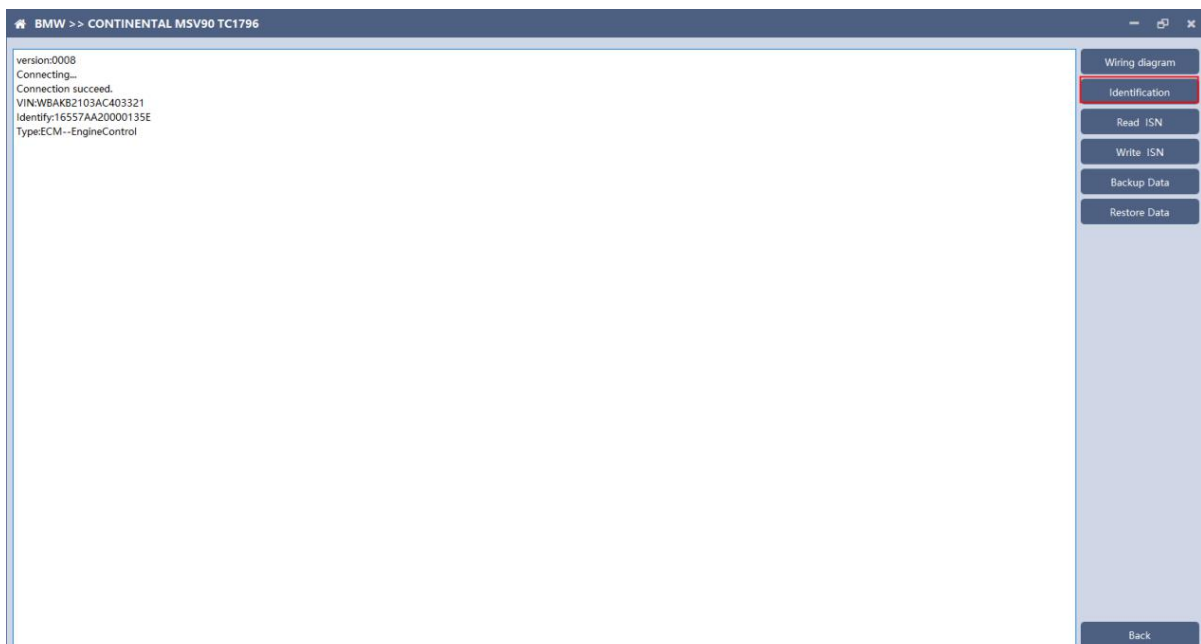
After selecting the correct ECU model, the "Platform" button will appear on the right. As shown in the figure above, click the "Platform" button to enter the ECU operation interface.

2.2 View wiring diagram



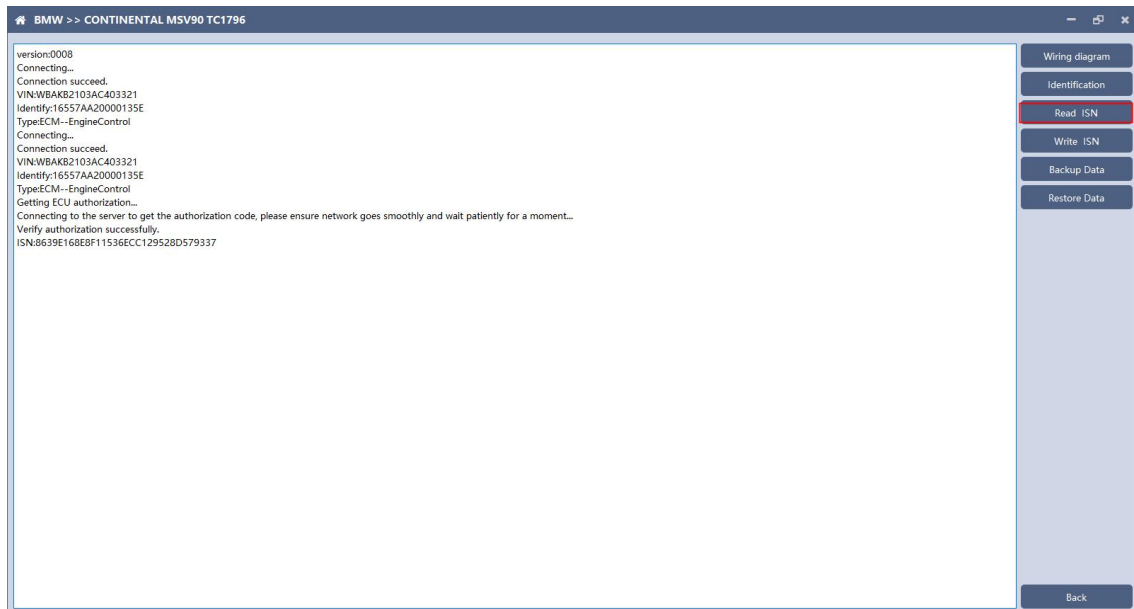
Click the "Wiring Diagram" button to view the ECU wiring diagram, connect the wiring harness correctly according to the wiring diagram, and connect with the device, plug in the device DC12V interface with 12V power supply.

2.3 Identifying the ECU



Click the "Identify" button to read the ECU related information, as shown in the figure above.

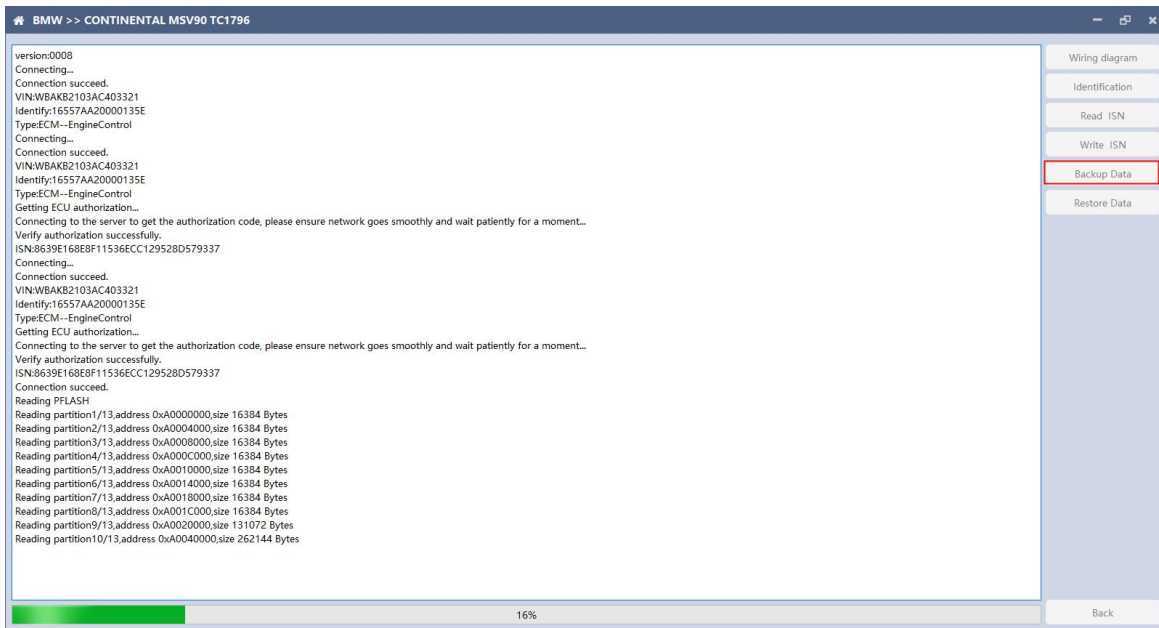
2.4 Reading ISN



Click the "Read ISN" button to read the ISN.

Note: This operation needs to be connected to the network. Please ensure that the network is normal during using.

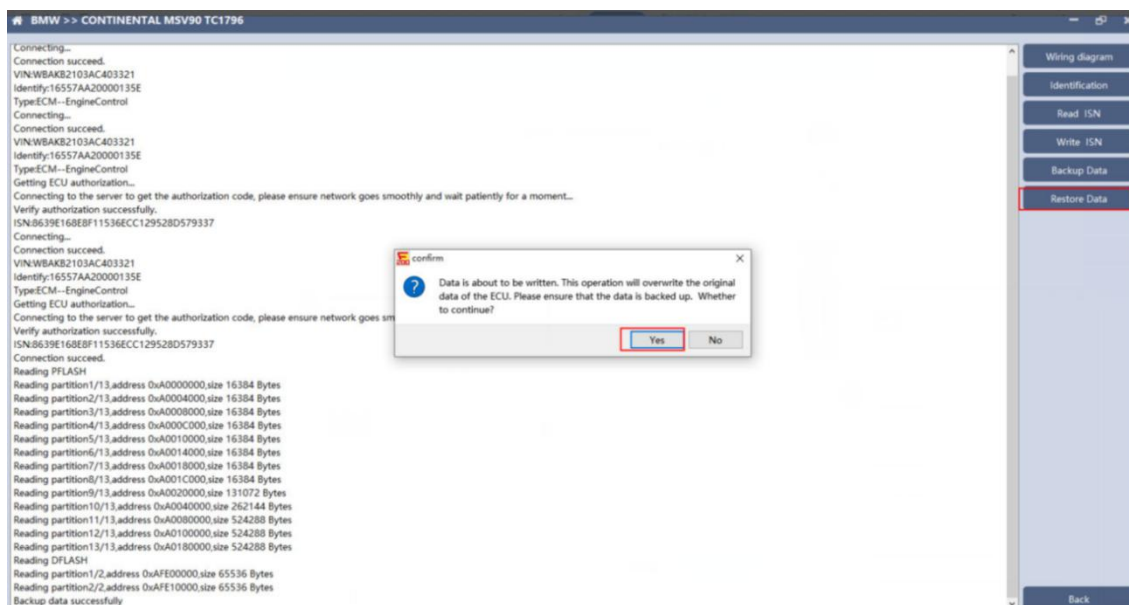
2.5 Backup Data



Click "Backup Data" to back up the ECU data. After reading, please save the data for subsequent use.

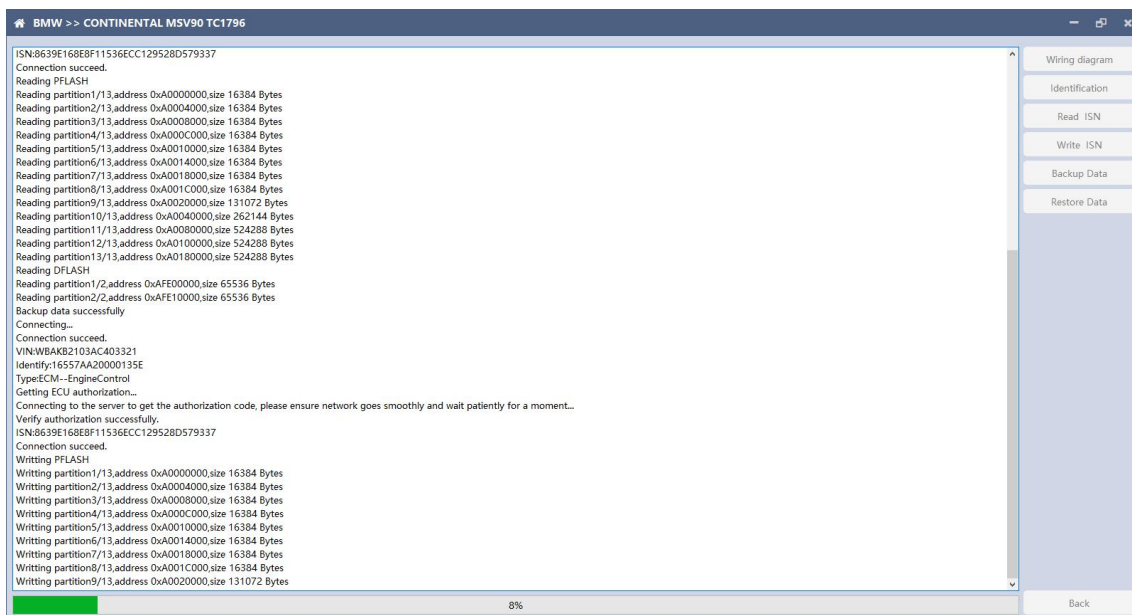
Note: This operation needs to be connected to the network. Please ensure that the network is normal during use.

2.6 Data Restore



Click "Restore Data" to write the ECU data. Before writing, please make sure

the data is backed up. The restored data will overwrite the current ECU data. The data can be the data of the current ECU or other ECU of the same type.

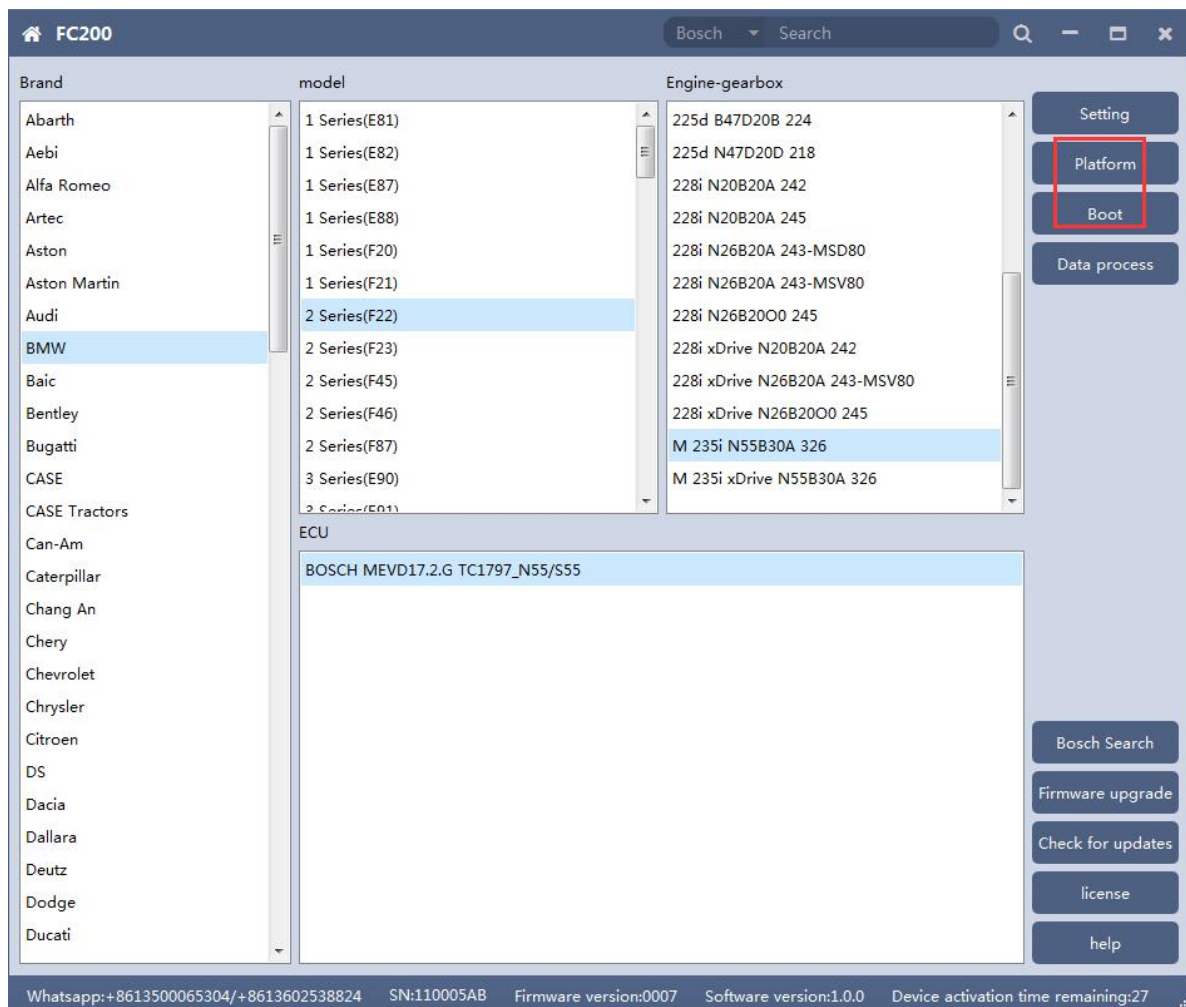


Note: During the process of data recovery, it is strictly forbidden to disconnect the device power or disconnect the device, otherwise it may cause damage to the ECU; if the software is unexpectedly shut down or the computer is shut down or crashed unexpectedly during the process of data recovery, please do not disconnect the device power or device Connect for 15 minutes, and the device can complete data recovery independently.

3. N13/N20/N55/B38/TC17X

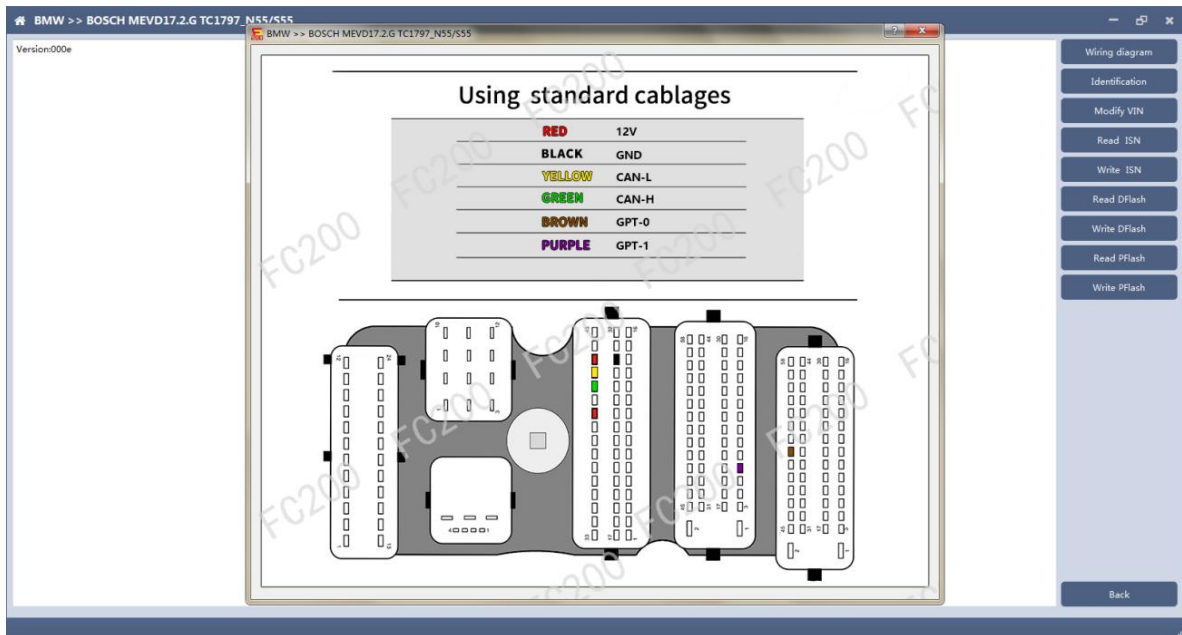
The FC200 currently supports ISN read / write, VIN modification, and data read / write functions for the N13 / N20 / N55 / B38 / TC17X F series chassis of BMW models.

3.1 Determine the type of ECU according to the vehicle model, and select the correct model, otherwise it will not operate normally. The following is described with N55.



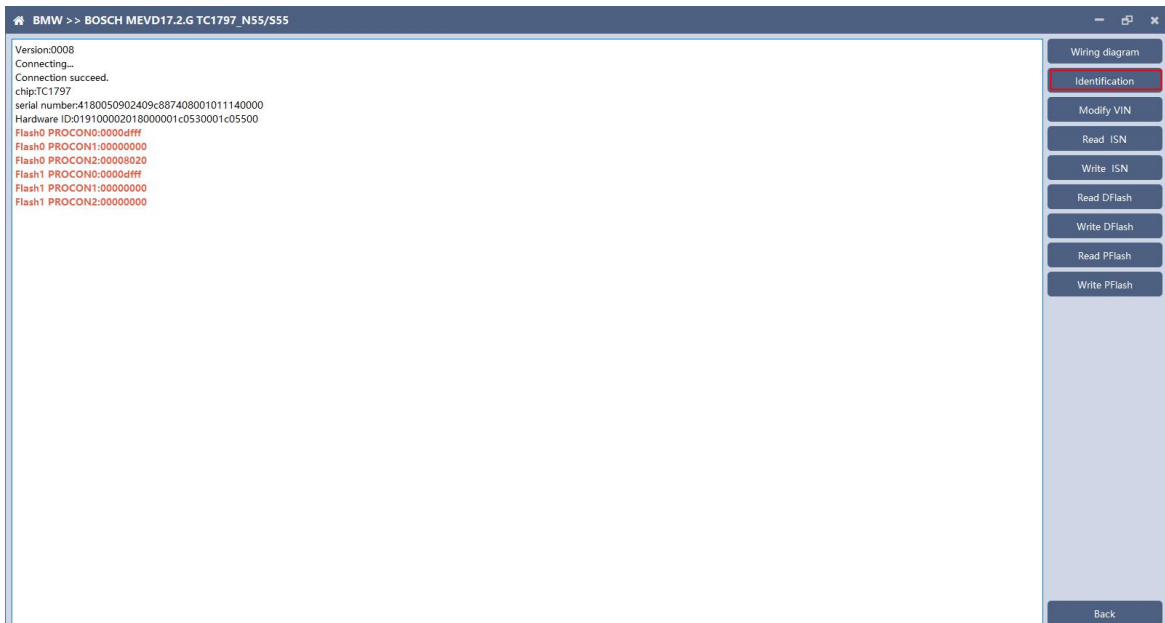
After selecting the correct ECU model, the "Platform" button will appear on the right. As shown in the figure above, click the "Platform" button to enter the ECU operation interface.

3.2 View wiring diagram



Click the "Wiring Diagram" button to view the ECU wiring diagram, connect the wiring harness correctly according to the wiring diagram, and connect with the device, plug in the device DC12V interface with 12V power supply.

3.3 Identifying the ECU



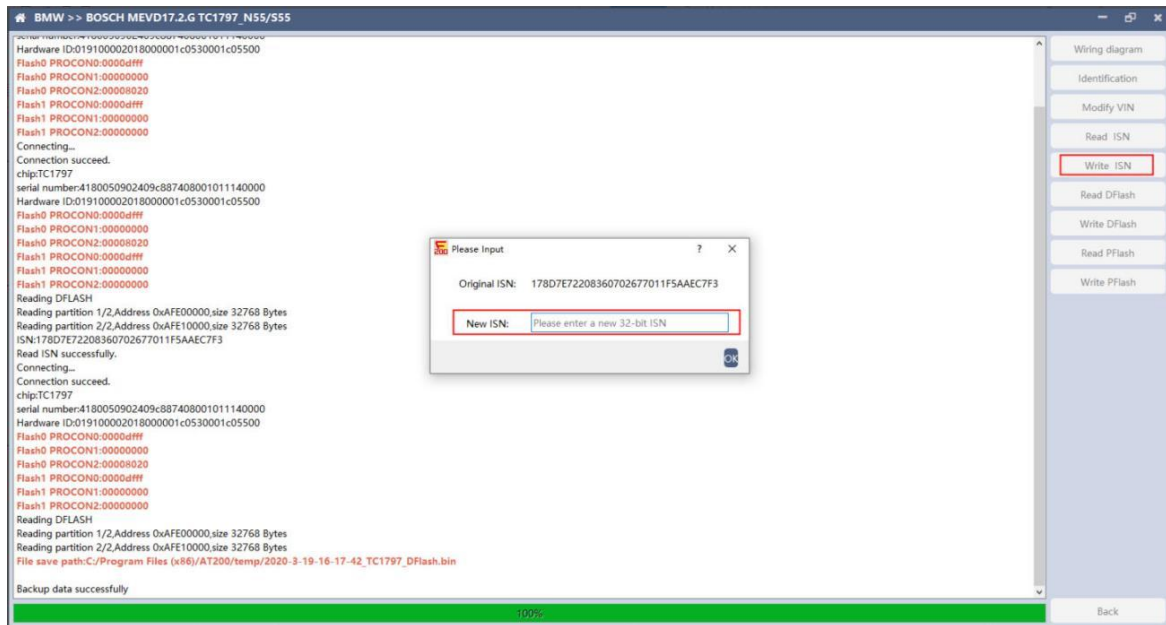
Click the "Identification" button to read the ECU related information, as shown in the figure above.

3.4 Reading ISN

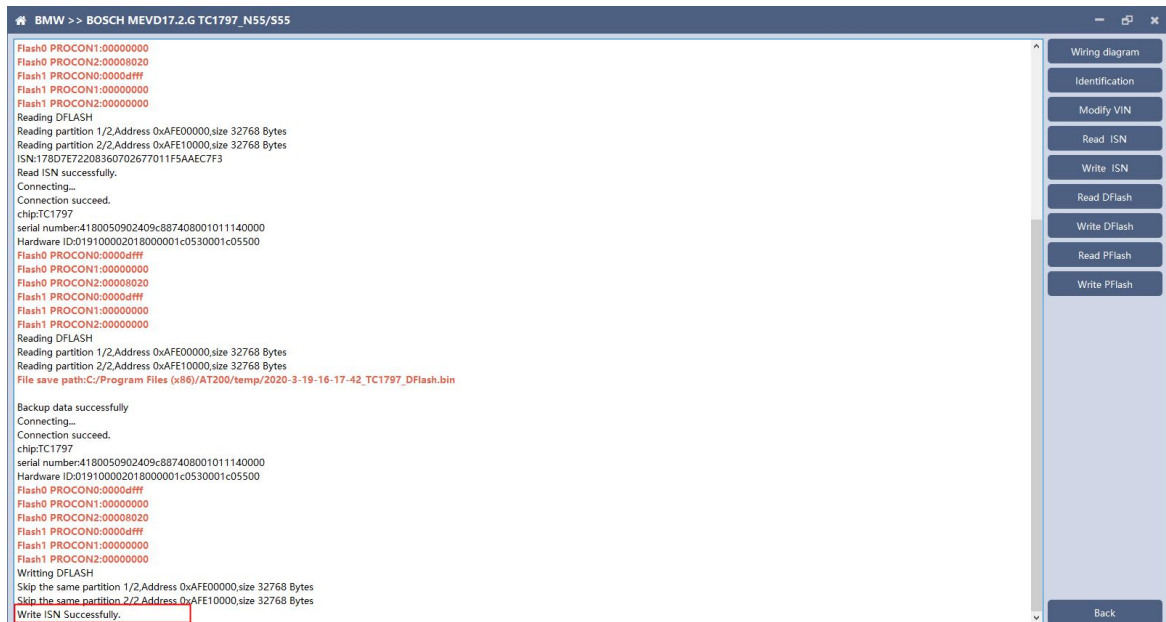


Click the "Read ISN" button to start reading the ISN. Wait for a while to complete the reading of the ISN.

3.5 Writing ISN

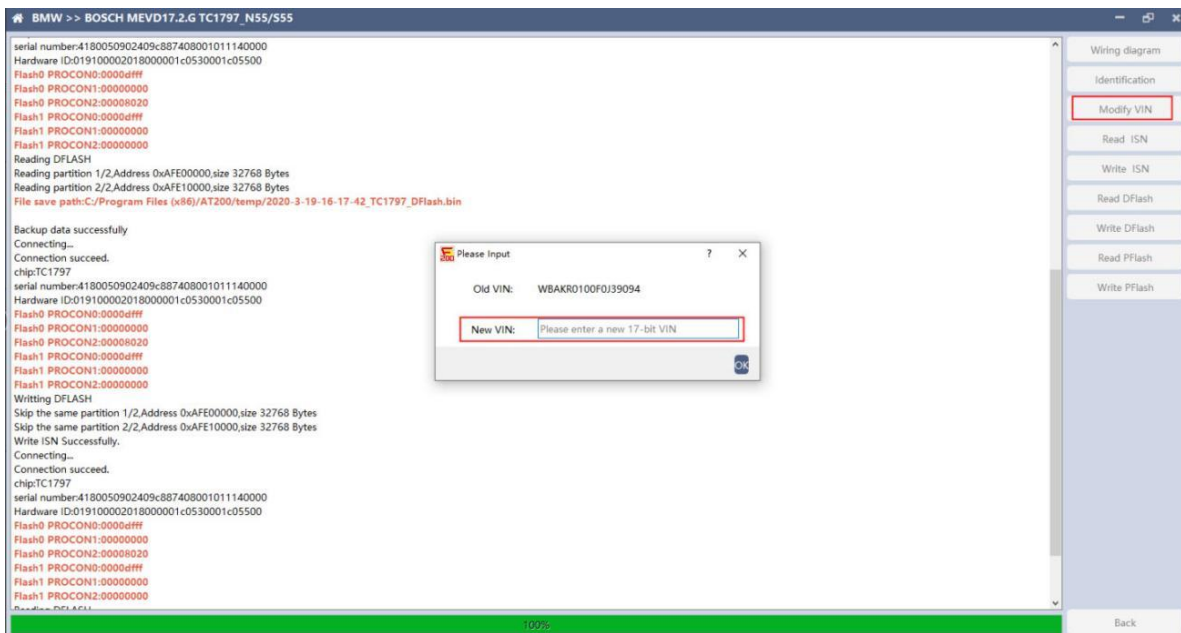


Enter the new ISN in the edit box, and click the "OK" button to start writing the ISN.



Writing successfully.

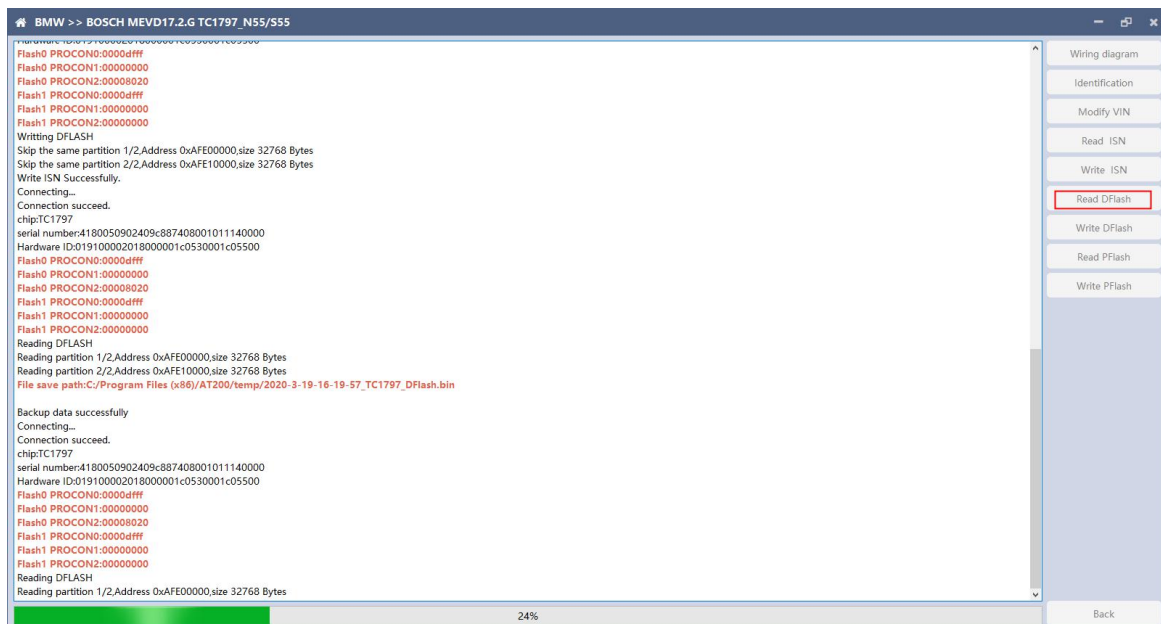
3.6 Modifying VIN



Enter the new VIN in the edit box, click the "OK" button to start writing VIN

3.7 Reading DFlash, PFlash

Take reading DFlash as an example:

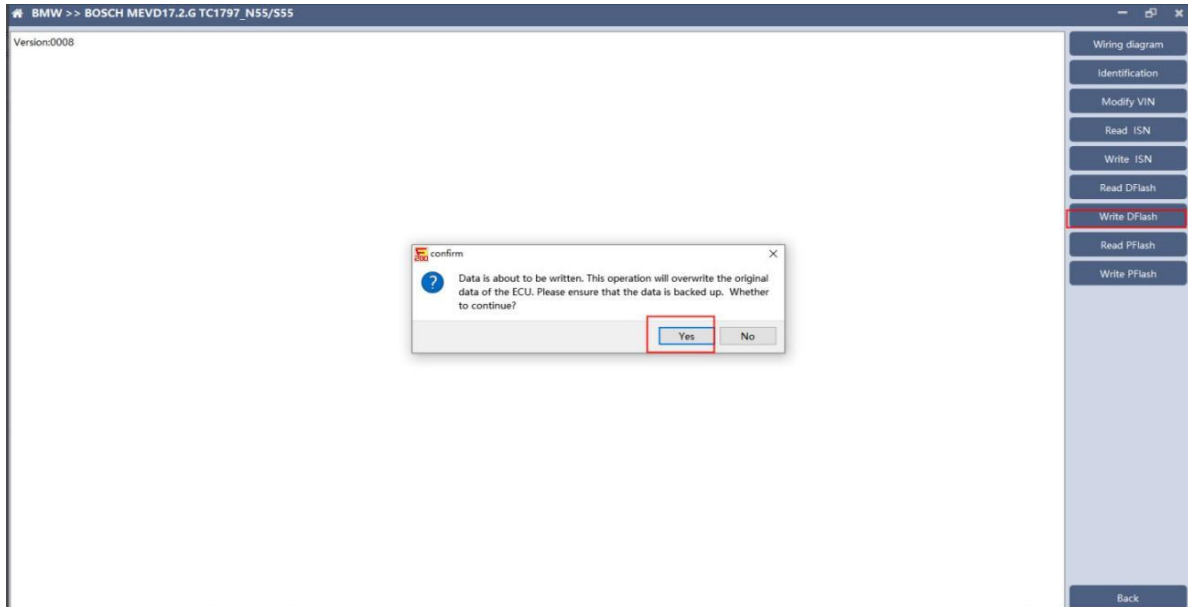


Click "Backup Data" to back up the ECU data. After reading, please save

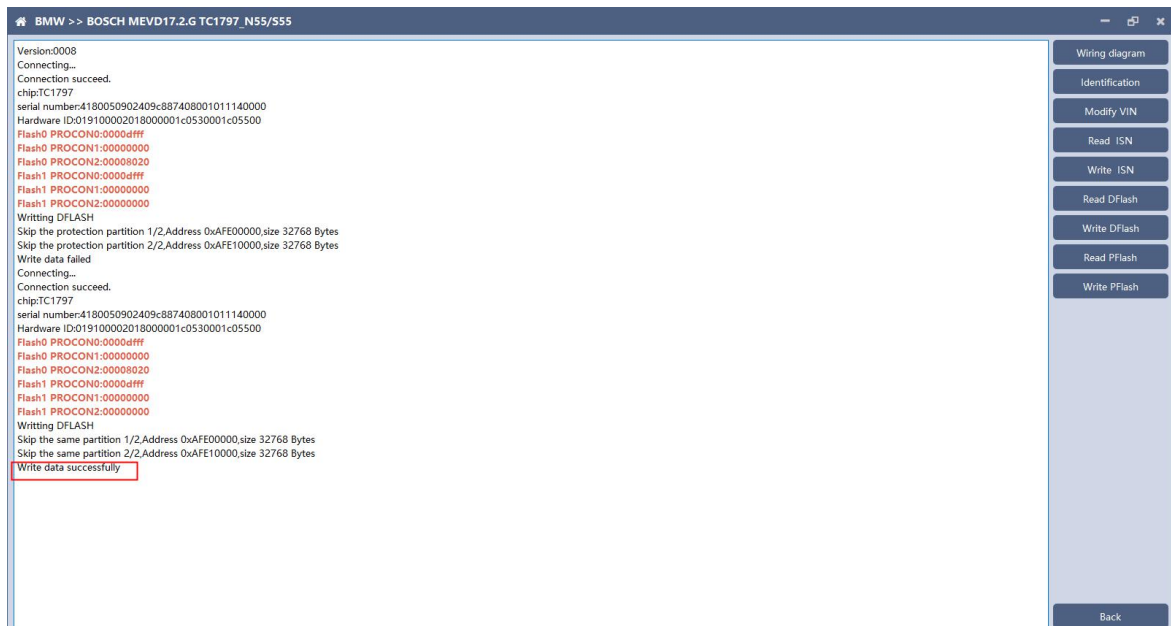
the data for subsequent use.

3.8 Writing DFlash, PFlash

Take writing DFlash as an example



Click "write DFlash" to write the ECU data. Please make sure the data is backed up before writing. The restored data will overwrite the current ECU data. The data can be the data of the current ECU or other ECU of the same type.



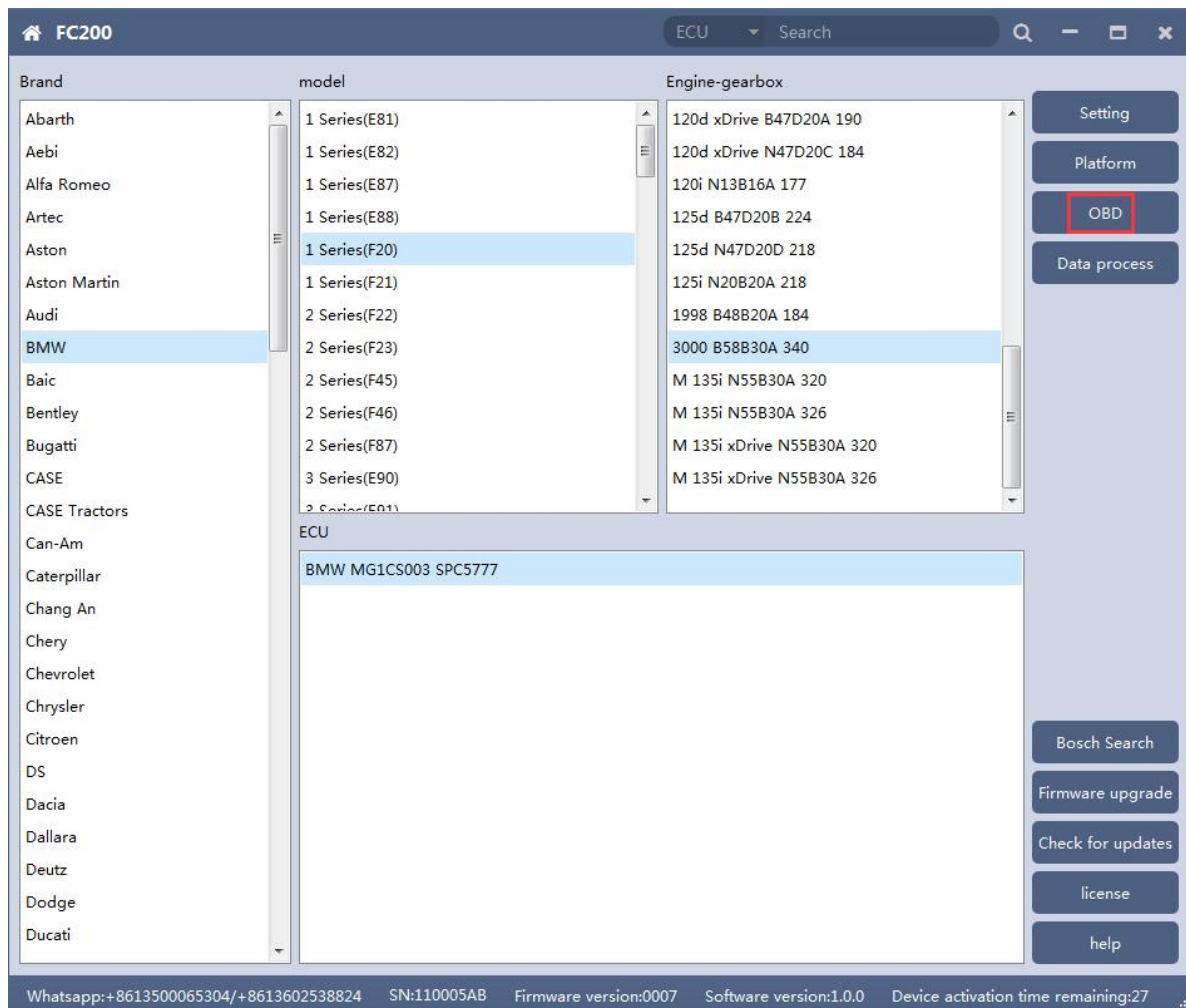
Note: During the data recovery process, it is strictly forbidden to disconnect the power supply or disconnect the device, otherwise it may cause ECU damage; if the software is shut down unexpectedly or the computer is shut down or crashed unexpectedly during the data recovery process, please do not disconnect the power supply or device. Connect for 15 minutes, and the device can complete data recovery independently.

4. B48/B58

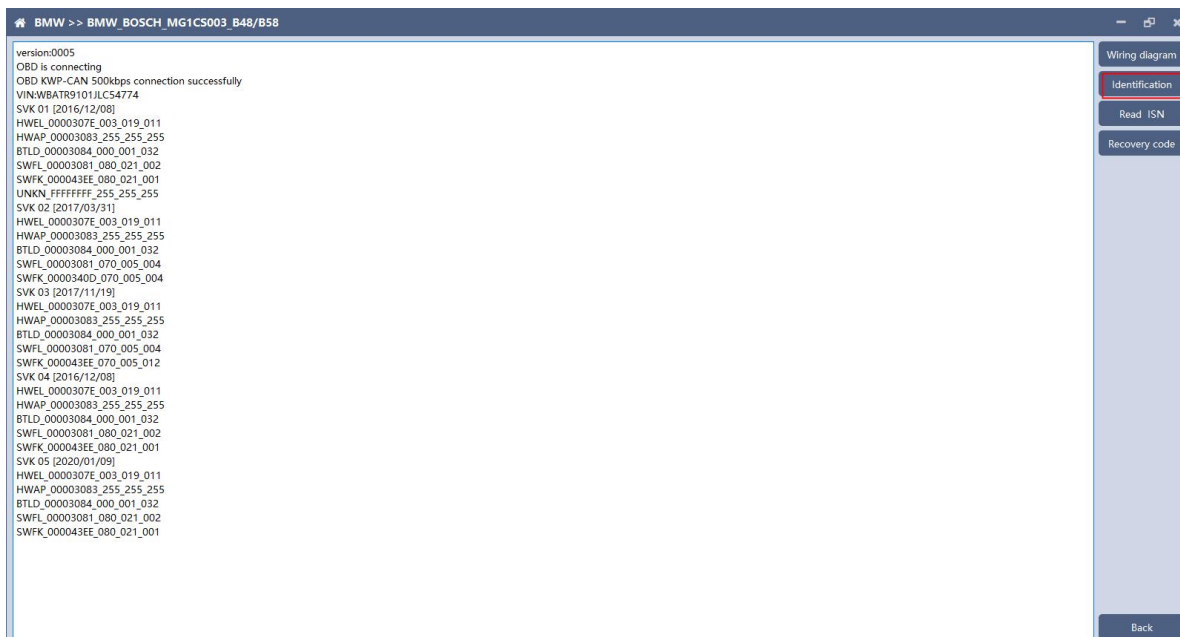
FC200 currently supports the OBD reading ISN of BMW F020 and G series S15 models B48 and B58, and the platform SPC5777 chip and TC298 chip reading ISN and reading and writing EEPROM and FLASH.

4.1 OBD read ISN

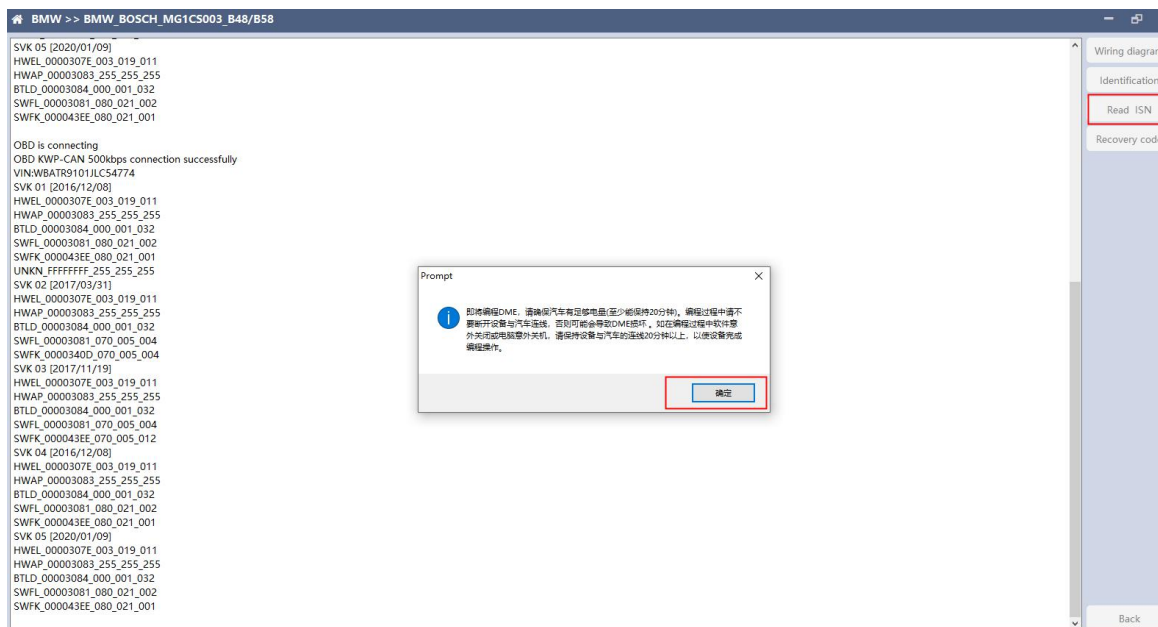
4.1.1 Determine the type of ECU according to the model, and select the correct model, otherwise it will not operate normally. The following is described with B48.



4.1.2 Identifying ECU

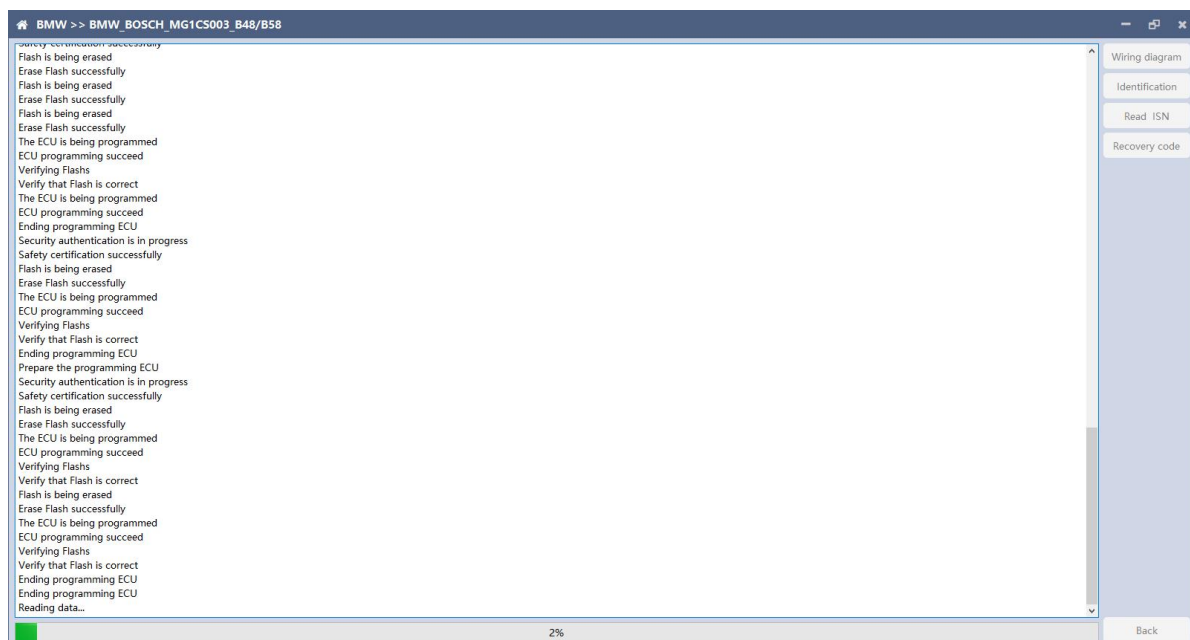


4.1.3 Reading ISN



Click the "Read ISN" button to start reading the ISN. If it is the first reading, you need to program the ECU before reading. The programming time will take about 25 minutes, please be patient.

Note: During the programming process, it is strictly forbidden to disconnect the power supply of the device or disconnect the device wiring, otherwise it may cause damage to the ECU; if the software is closed unexpectedly or the computer is shut down or crashed unexpectedly during data restore, please do not disconnect the device power or device connection On-line, hold for more than 25 minutes, the device can complete programming independently.



After the programming is completed, if there is a coding file before the ECU programming, the coding recovery will be performed automatically. After programming, the software starts to read data, as shown in the figure above.

BMW >> BMW_BOSCH_MG1CS003_B48/B58

Flash is being erased
Erase Flash successfully
Flash is being erased
Erase Flash successfully
Flash is being erased
Erase Flash successfully
The ECU is being programmed
ECU programming succeed
Verifying Flashes
Verify that Flash is correct
The ECU is being programmed
ECU programming succeed
Ending programming ECU
Security authentication is in progress
Safety certification successfully
Flash is being erased
Erase Flash successfully
The ECU is being programmed
ECU programming succeed
Verifying Flashes
Verify that Flash is correct
Ending programming ECU
Prepare the programming ECU
Security authentication is in progress
Safety certification successfully
Flash is being erased
Erase Flash successfully
The ECU is being programmed
ECU programming succeed
Verifying Flashes
Verify that Flash is correct
Flash is being erased
Erase Flash successfully
The ECU is being programmed
ECU programming succeed
Verifying Flashes
Verify that Flash is correct
Ending programming ECU
Ending programming ECU
Reading data...
Read data successfully

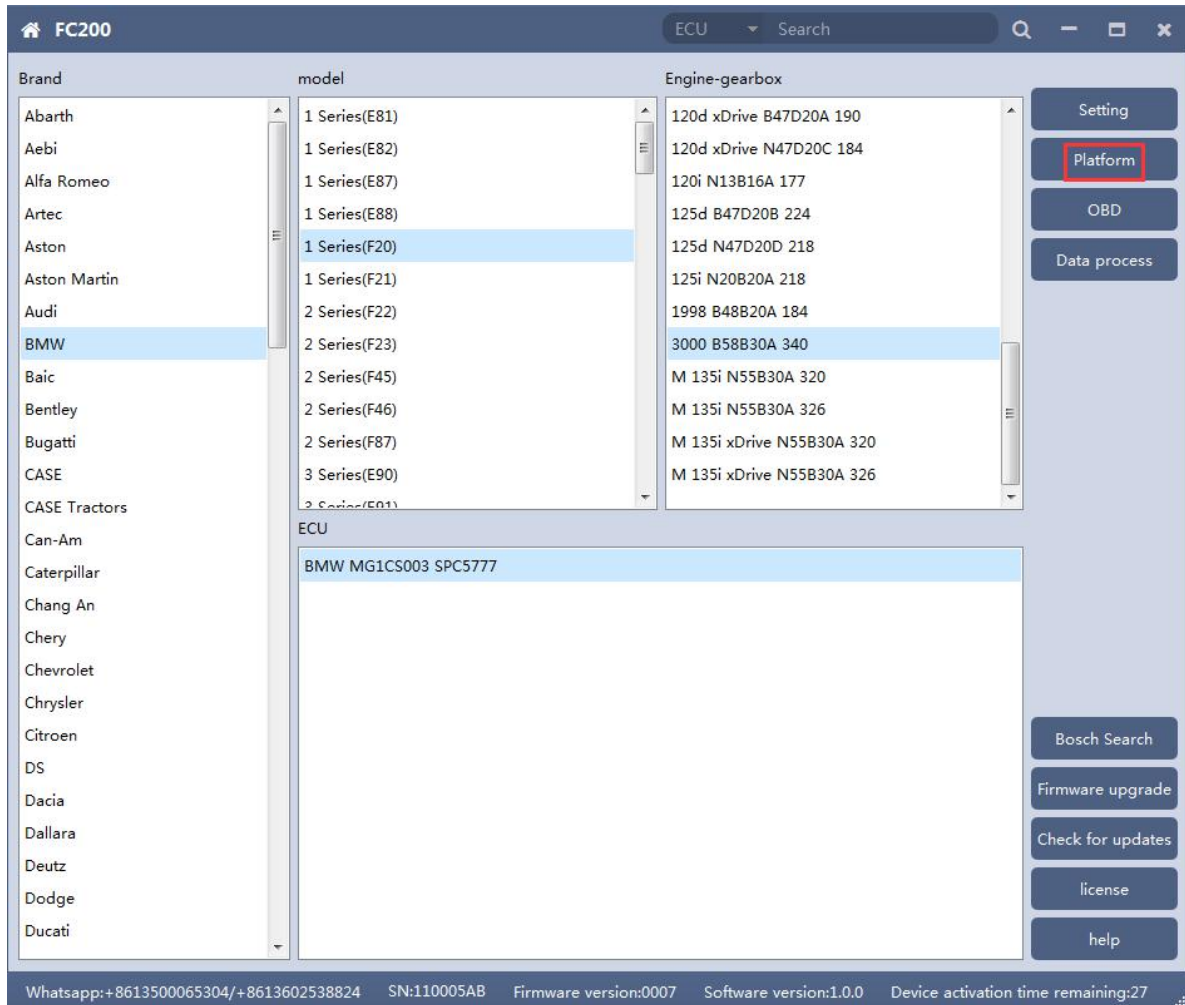
ISN:8C24820944E4EFFF0098DC78170BF828A868EBA7DCA72BD7

Wiring diagram
Identification
Read ISN
Recovery code
Back

Finish reading the ISN.

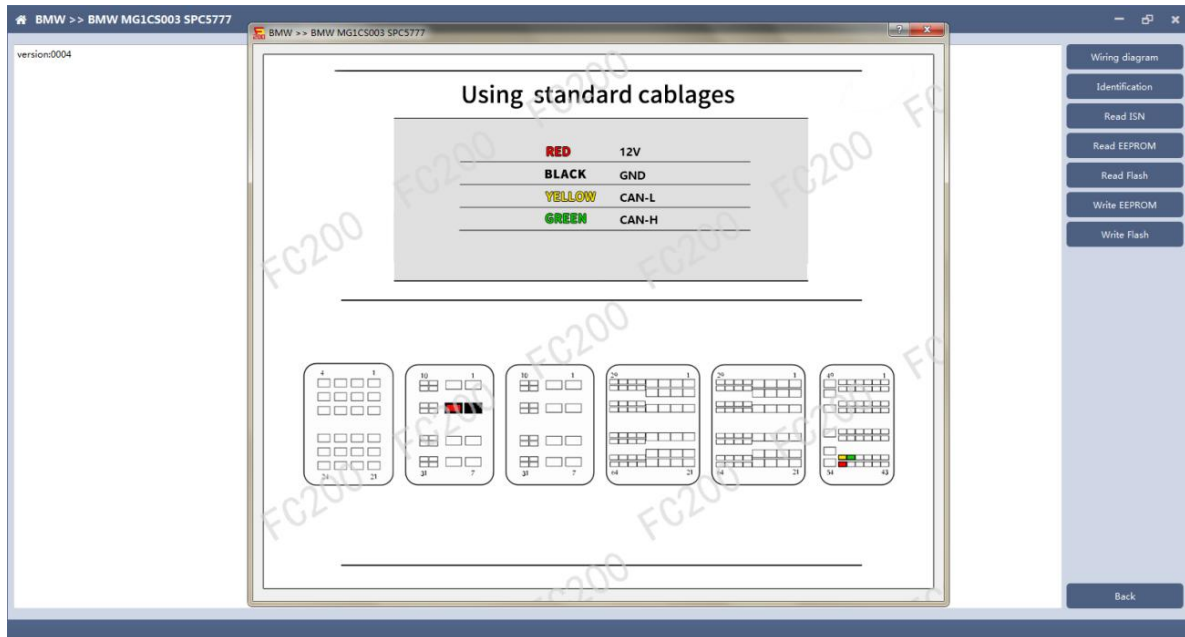
4.2 Read ISN on bench

4.2.1 Determine the type of ECU according to the model, and select the correct model, otherwise it will not operate normally. The wrong choice of the two types of chips will have no effect.



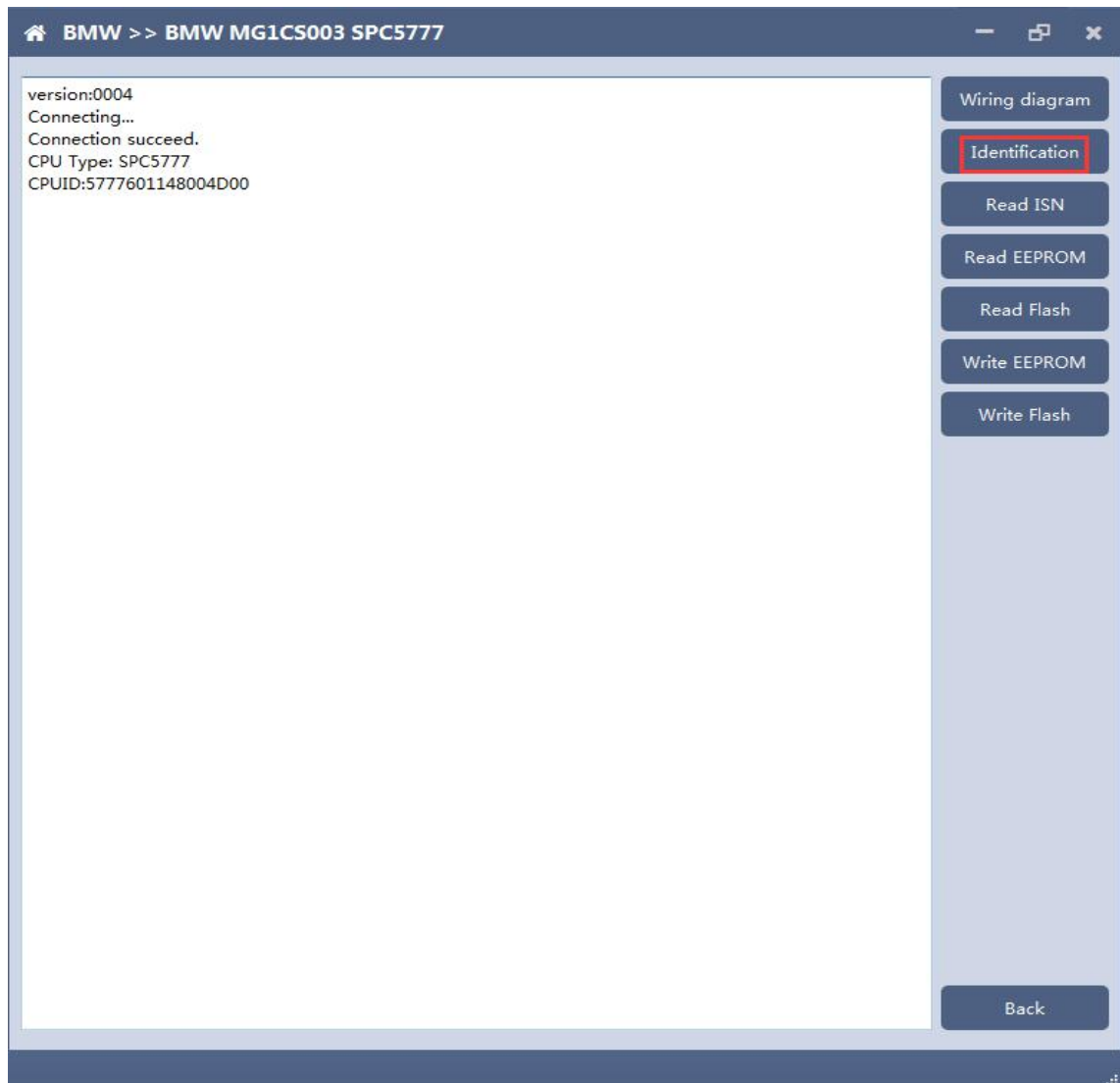
After selecting the correct ECU model, the "Platform" button will appear on the right. As shown in the figure above, click the "Platform" button to enter the ECU operation interface.

4.2.2 View wiring diagram

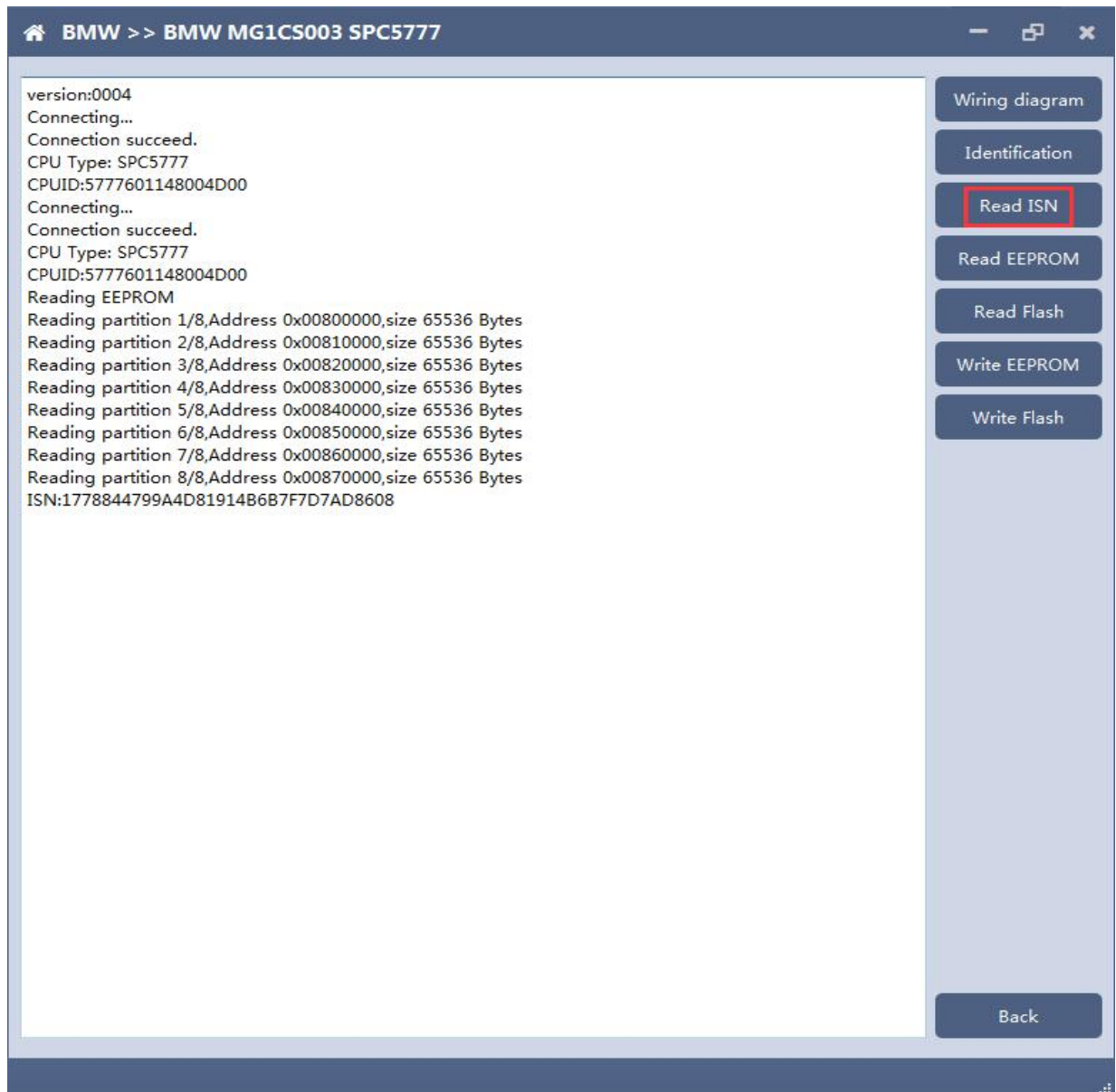


Click the "Wiring Diagram" button to view the ECU wiring diagram, connect the wiring harness correctly according to the wiring diagram, and connect with the device, plug in the device DC12V interface with 12V power supply.

4.2.3 Identifying the ECU



4.2.4 Reading ISN



The screenshot shows a software interface for a BMW MG1CS003 SPC5777. The main window displays a log of operations, including connection status, CPU type, and the process of reading the ISN (Internal Security Number) from the EEPROM. The 'Read ISN' button is highlighted with a red box, indicating the current step in the process.

version:0004
Connecting...
Connection succeed.
CPU Type: SPC5777
CPUID:5777601148004D00
Connecting...
Connection succeed.
CPU Type: SPC5777
CPUID:5777601148004D00
Reading EEPROM
Reading partition 1/8,Address 0x00800000,size 65536 Bytes
Reading partition 2/8,Address 0x00810000,size 65536 Bytes
Reading partition 3/8,Address 0x00820000,size 65536 Bytes
Reading partition 4/8,Address 0x00830000,size 65536 Bytes
Reading partition 5/8,Address 0x00840000,size 65536 Bytes
Reading partition 6/8,Address 0x00850000,size 65536 Bytes
Reading partition 7/8,Address 0x00860000,size 65536 Bytes
Reading partition 8/8,Address 0x00870000,size 65536 Bytes
ISN:1778844799A4D81914B6B7F7D7AD8608

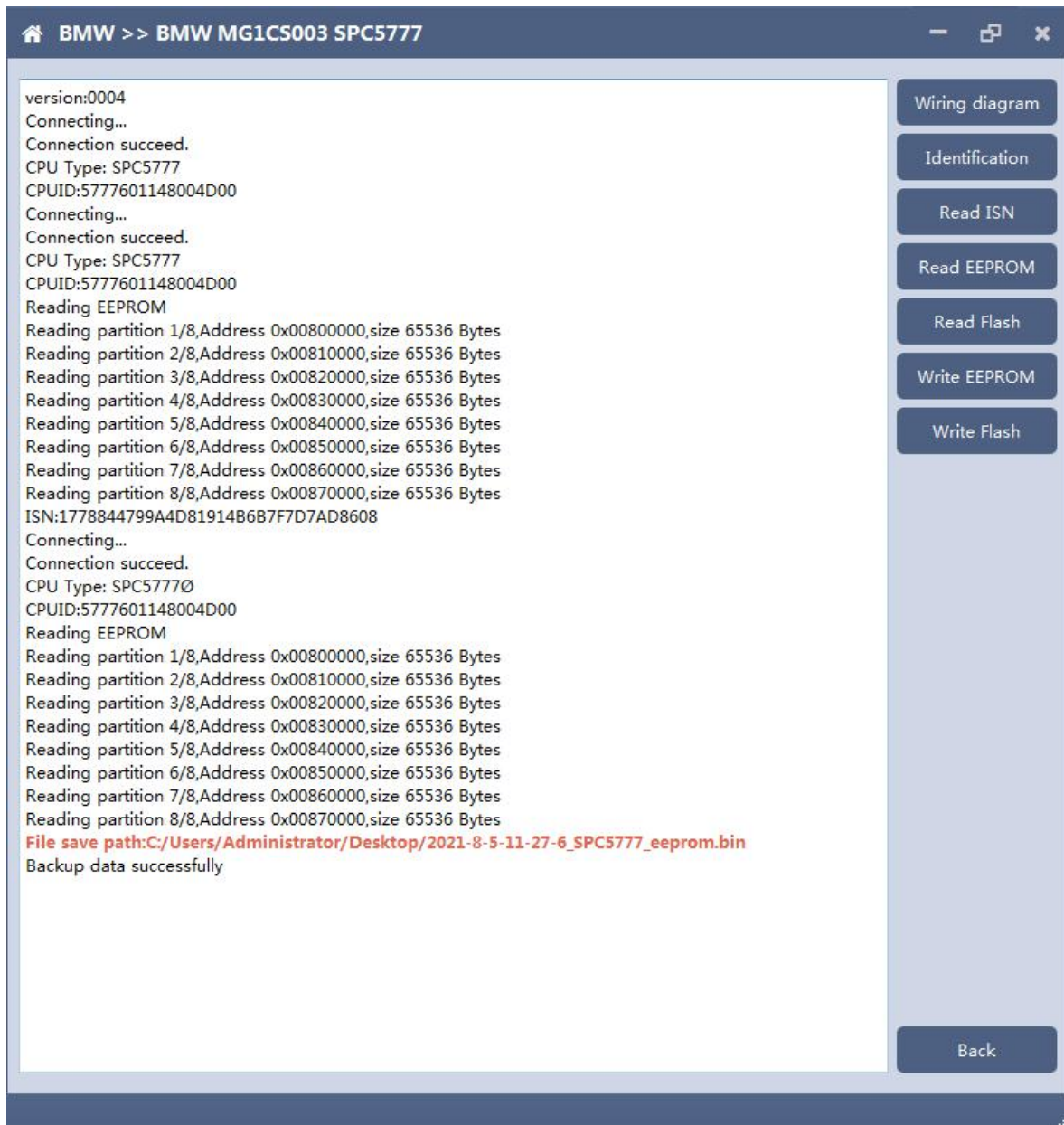
Buttons on the right side of the interface:

- Wiring diagram
- Identification
- Read ISN** (highlighted)
- Read EEPROM
- Read Flash
- Write EEPROM
- Write Flash

Back button at the bottom right.

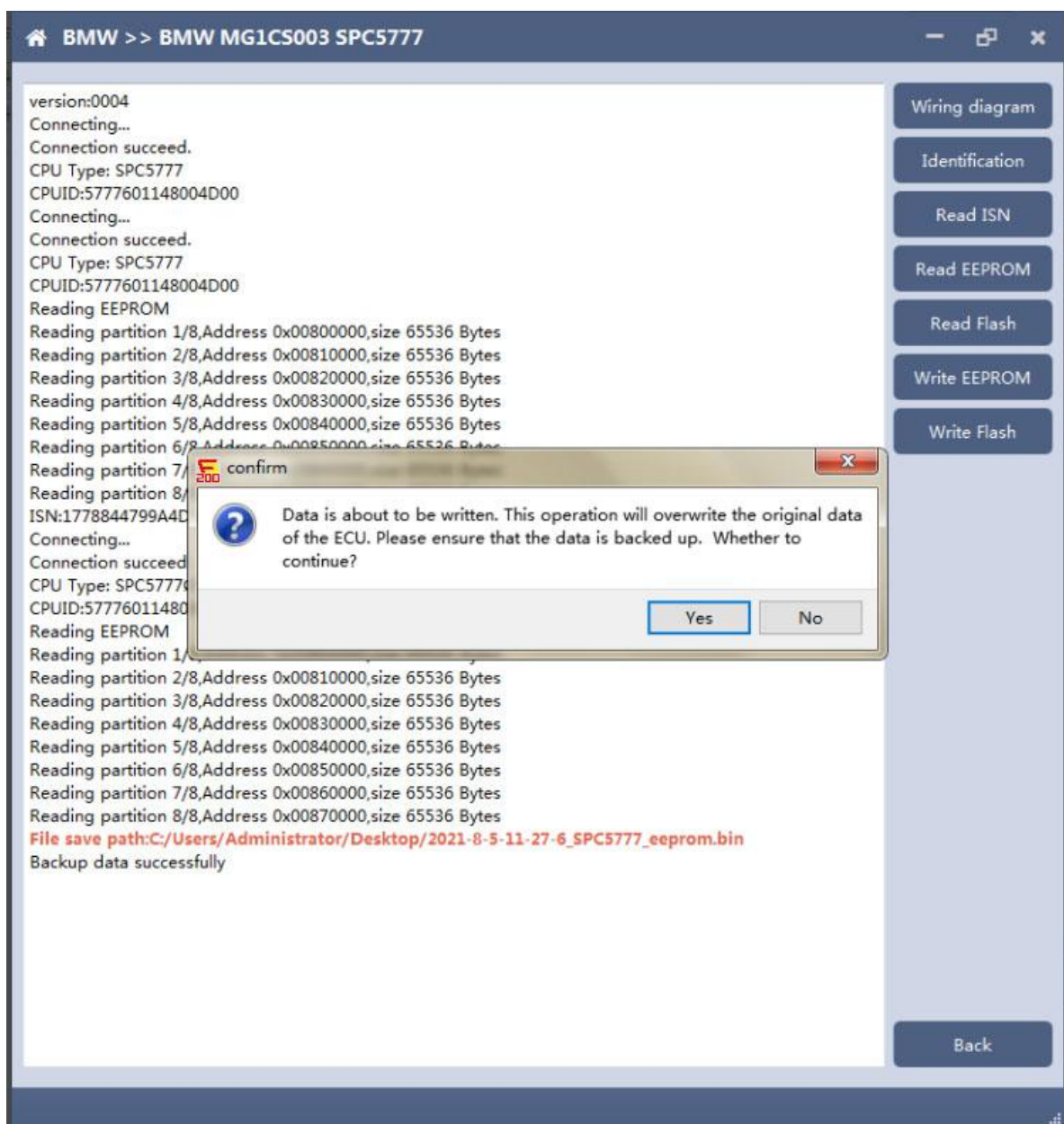
4.2.5 Reading EEPROM/Flash

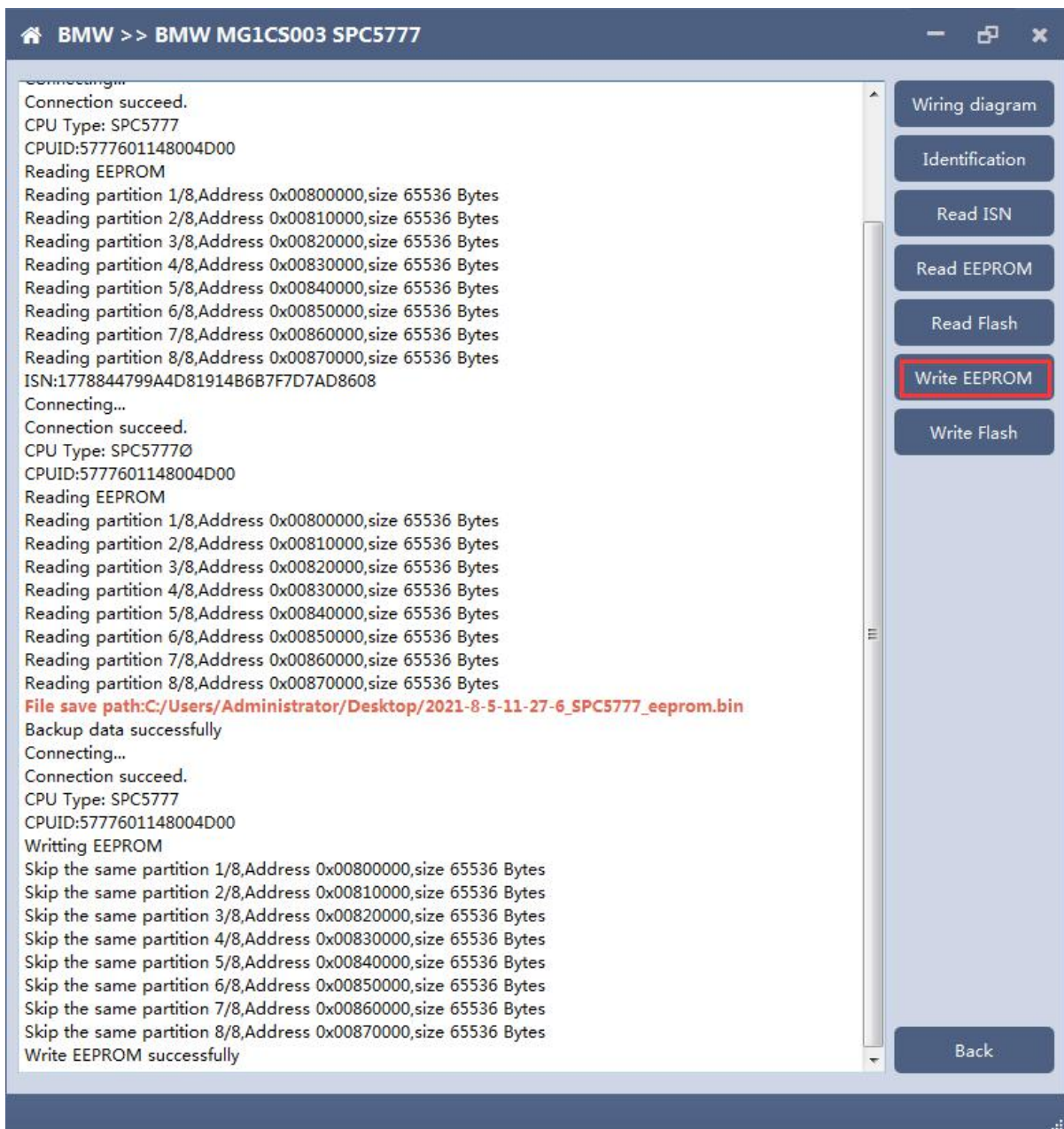
Take reading EEPROM as an example



4.2.6 Writing EEPROM/Flash

Take reading EEPROM as an example. **Make sure to save a copy of the original data before writing data**



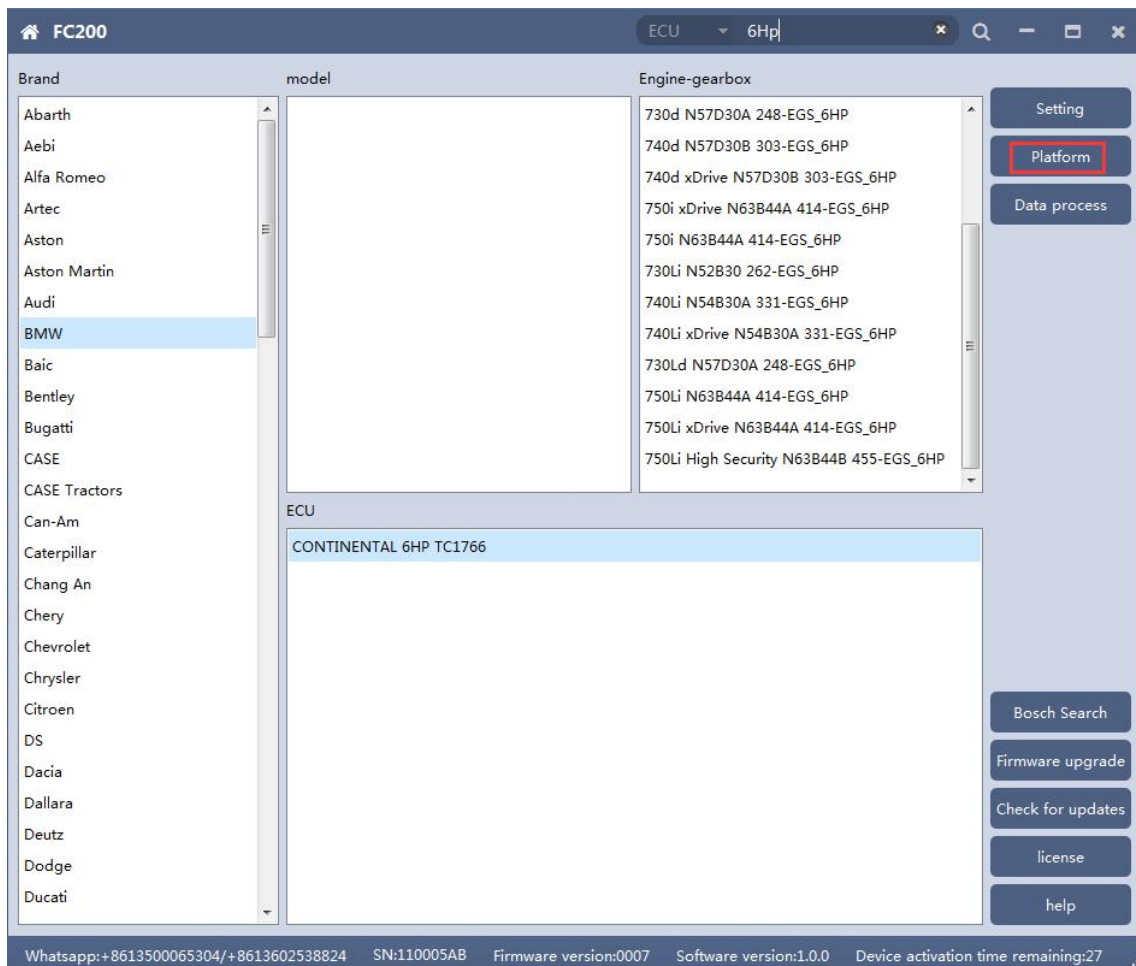


Note: During the data recovery process, it is strictly forbidden to disconnect the power supply or disconnect the device, otherwise it may cause ECU damage; if the software is shut down unexpectedly or the computer is shut down or crashed unexpectedly during the data recovery process, please do not disconnect the power supply or device Connect for 15 minutes, and the device can complete data recovery independently.

5. 6HP

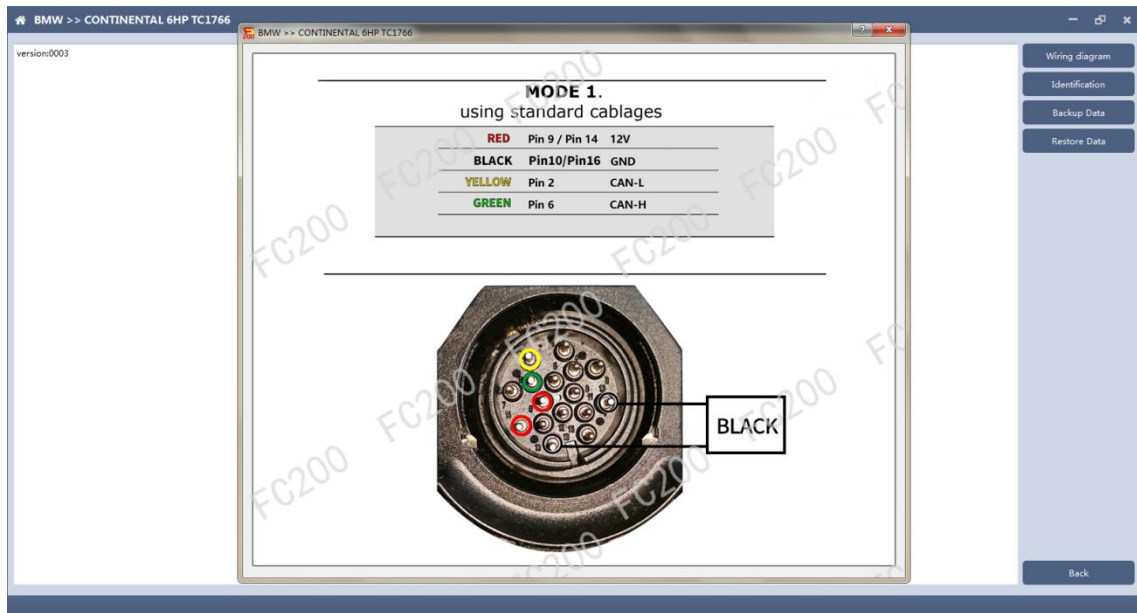
The FC200 currently supports the cloning of 6HP ECUs in BMW F-series (F01, F02, F03).

5.1 Determine the ECU type according to the vehicle model, and select the correct model, otherwise it will not operate normally.



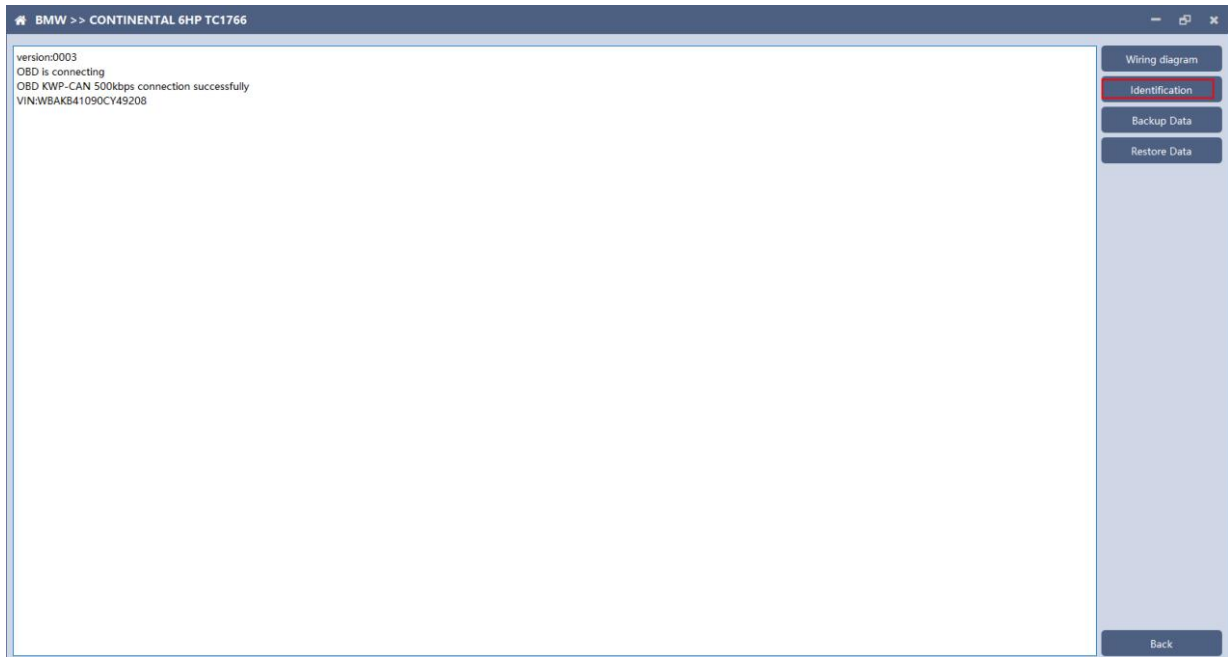
After selecting the correct ECU model, the "Platform" button will appear on the right. As shown in the figure above, click the "Platform" button to enter the ECU operation interface.

5.2 View wiring diagram



Click the "Wiring Diagram" button to view the ECU wiring diagram, connect the wiring harness correctly according to the wiring diagram, and connect with the device, plug in the device DC12V interface with 12V power supply.

5.3 Identifying ECU



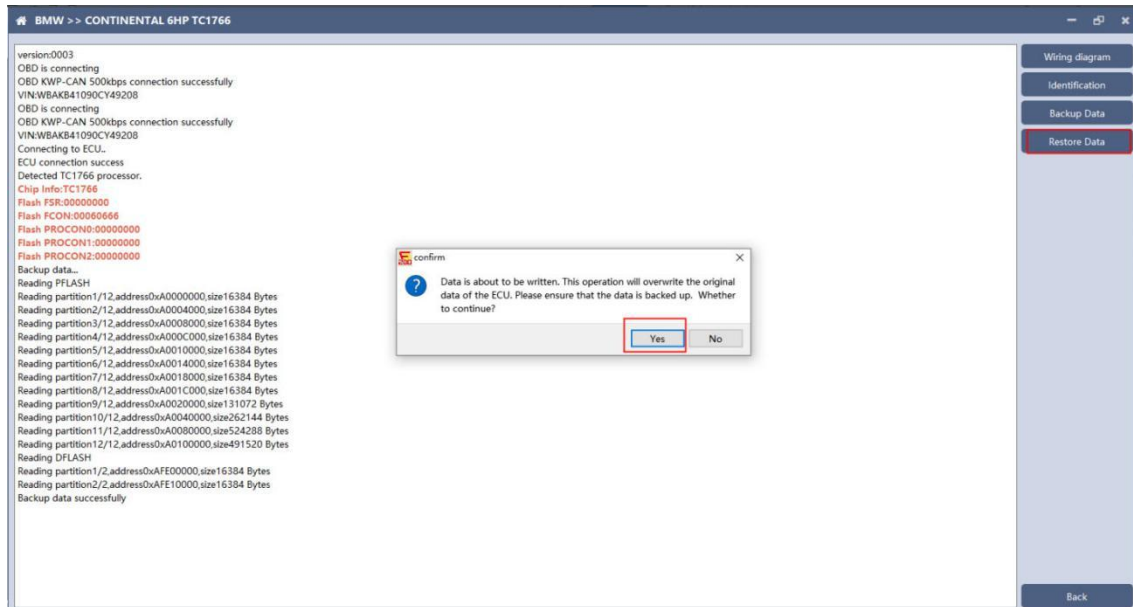
Click the "Identification" button to read the ECU related information, as shown above

5.4 Backup Data

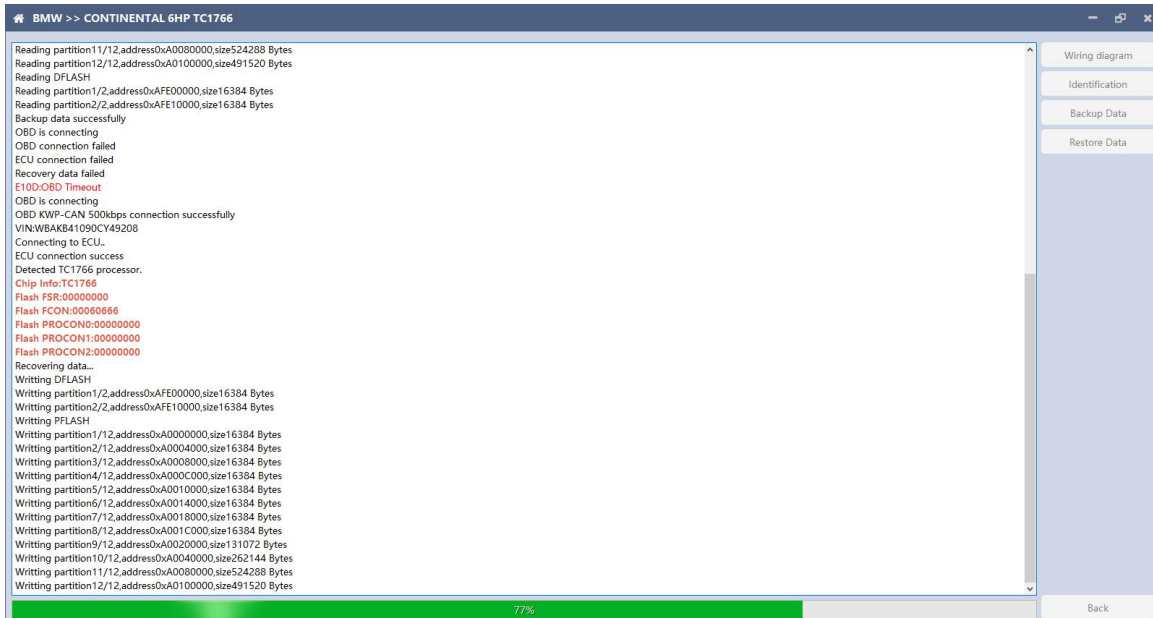


Click "Backup Data" to back up the ECU data. After reading, please save the data for subsequent use.

5.5 Data Restore



Click "Restore Data" to write the ECU data. Please make sure the data is backed up before writing. The restored data will overwrite the current ECU data. The data can be the data of the current ECU or other ECUs of the same type.

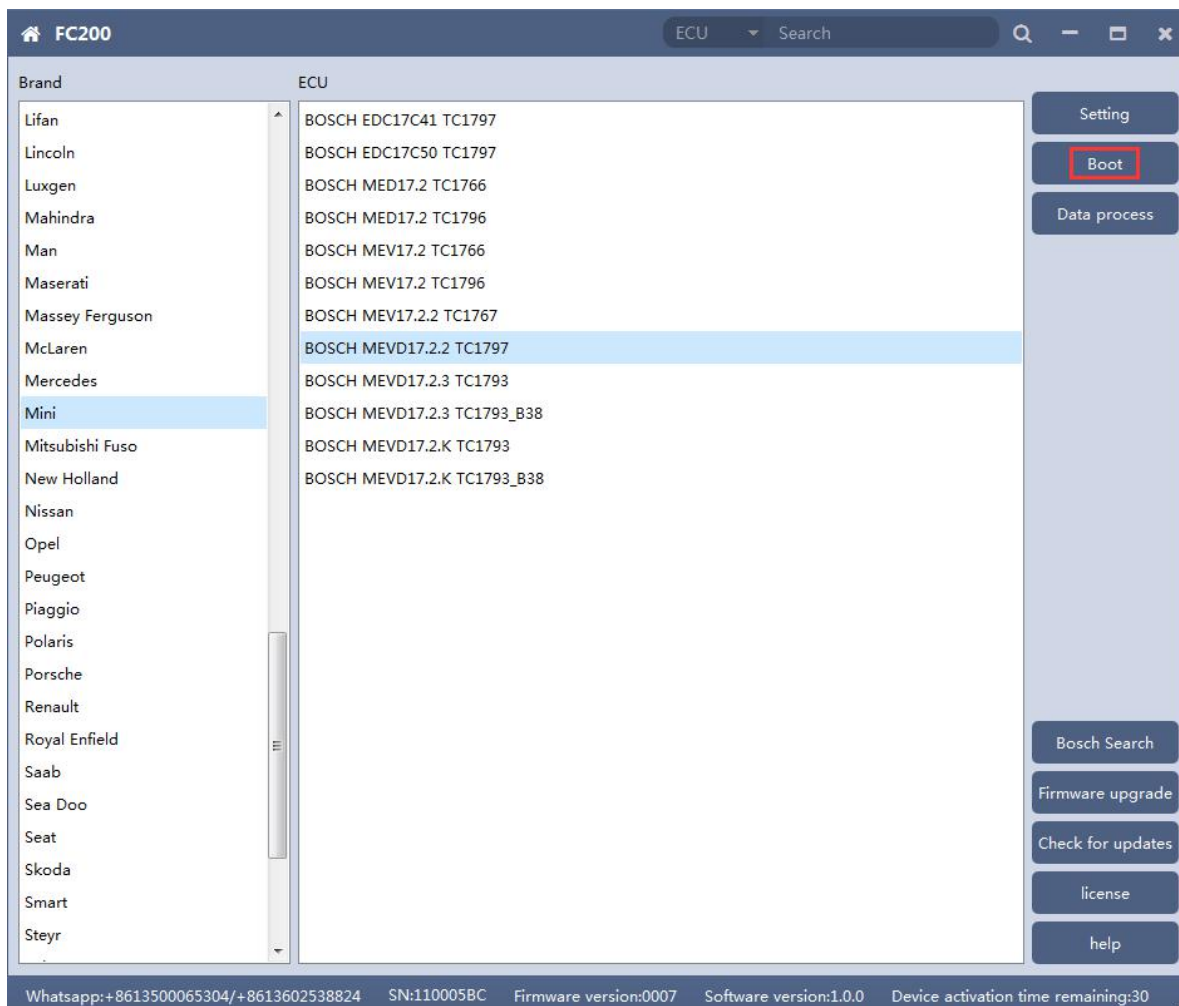


Note: During the data restore process, it is strictly forbidden to disconnect the device from the power or disconnect the device; if the software is unexpectedly shut down or the computer is shut down or

crashed unexpectedly during the data recovery process, please do not disconnect the device power or the device connection for 15 minutes , The device can complete the data restore independently.

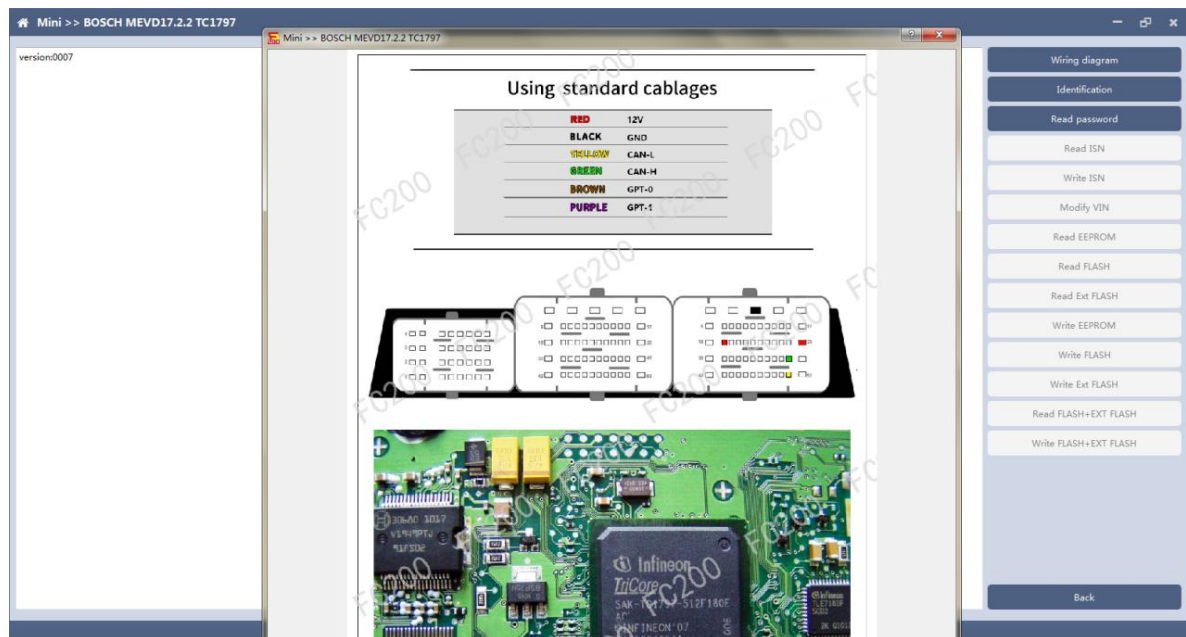
6. BOSCH BOOT(Boot)read and write data

6.1 The ECU type should be determined according to car type, and the model should be selected correctly, otherwise it can not operate normally.



After choosing correct ecu type, there will show a "Boot" button as shown picture above.

6.2 Check the diagram in software



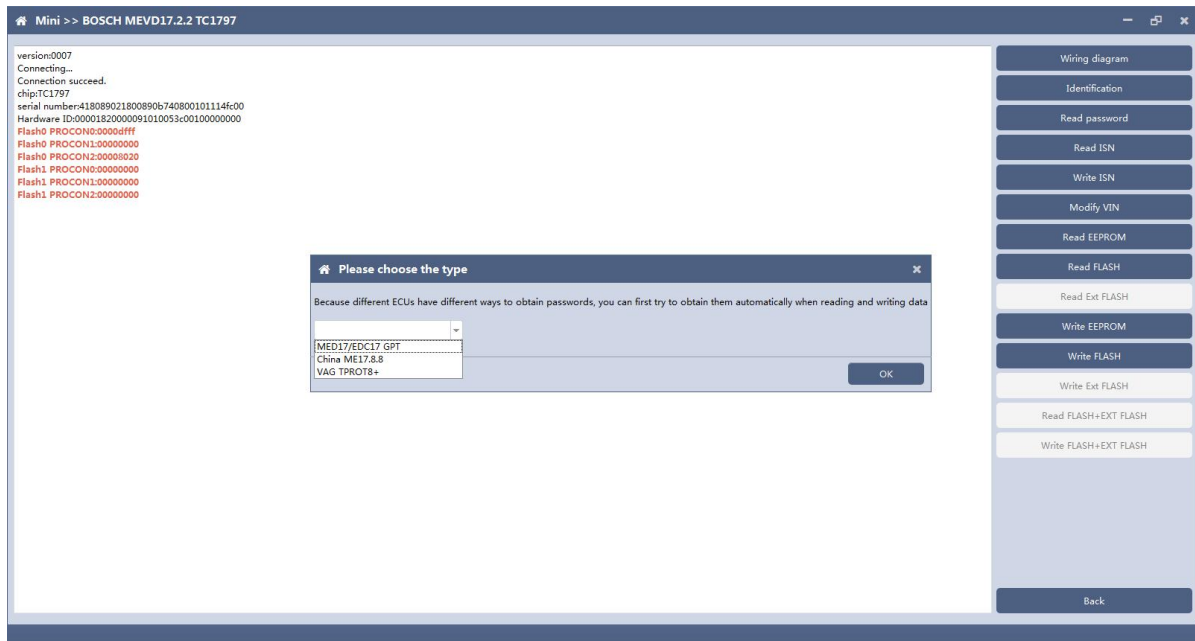
6.3 Identify ECU

Mini >> BOSCH MEVD17.2.2 TC1797

version:0007
Connecting...
Connection succeed.
chip:TC1797
serial number:418089021800890b740800101114fc00
Hardware ID:00001820000091010053c00100000000
Flash0 PROCON0:0000dfff
Flash0 PROCON1:00000000
Flash0 PROCON2:00008020
Flash1 PROCON0:00000000
Flash1 PROCON1:00000000
Flash1 PROCON2:00000000

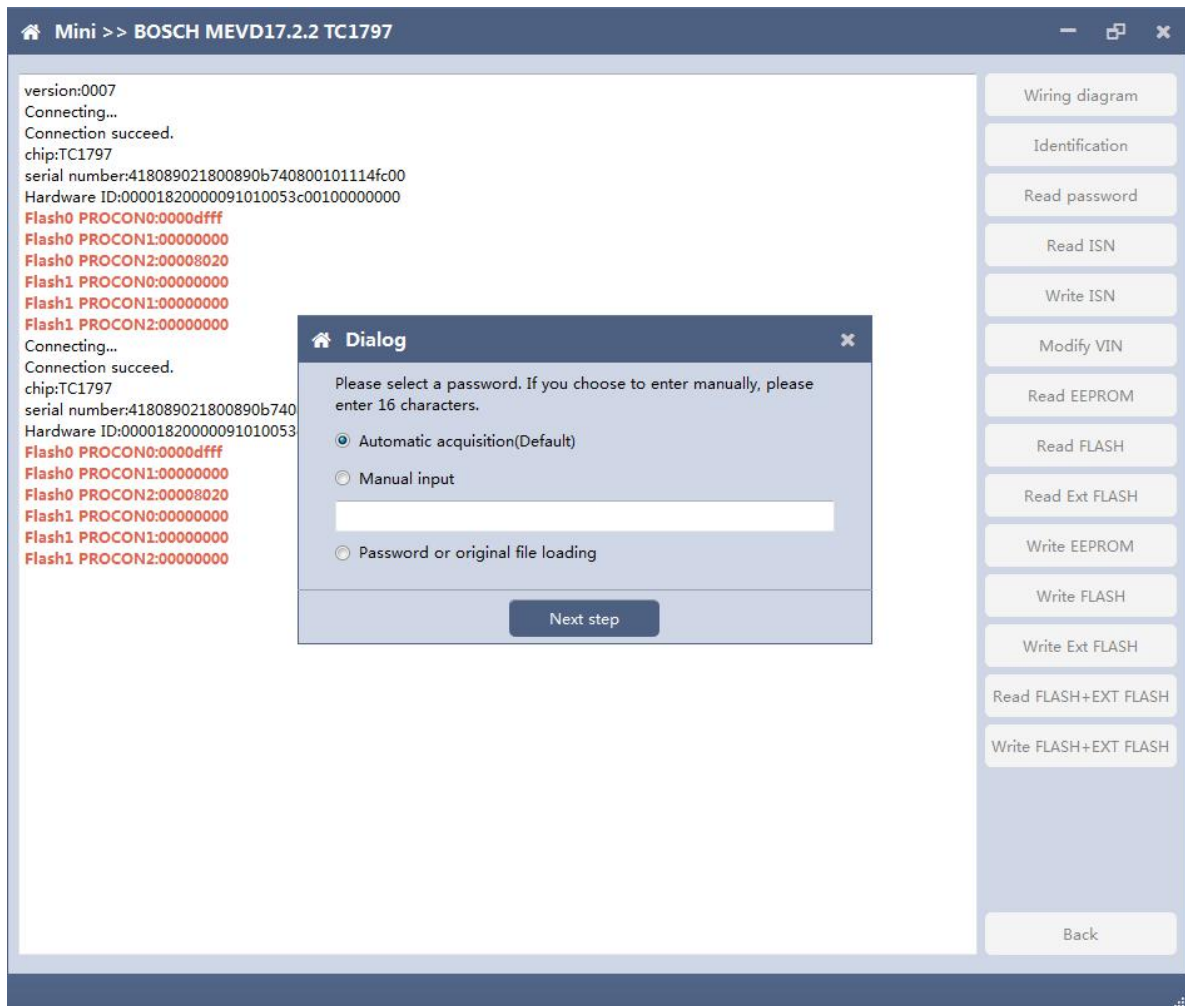
Wiring diagram
Identification
Read password
Read ISN
Write ISN
Modify VIN
Read EEPROM
Read FLASH
Read Ext FLASH
Write EEPROM
Write FLASH
Write Ext FLASH
Read FLASH+EXT FLASH
Write FLASH+EXT FLASH
Back

6.4 Read password



Pop up option box when reading password and select correct type.

6.5 Read/write Pflash



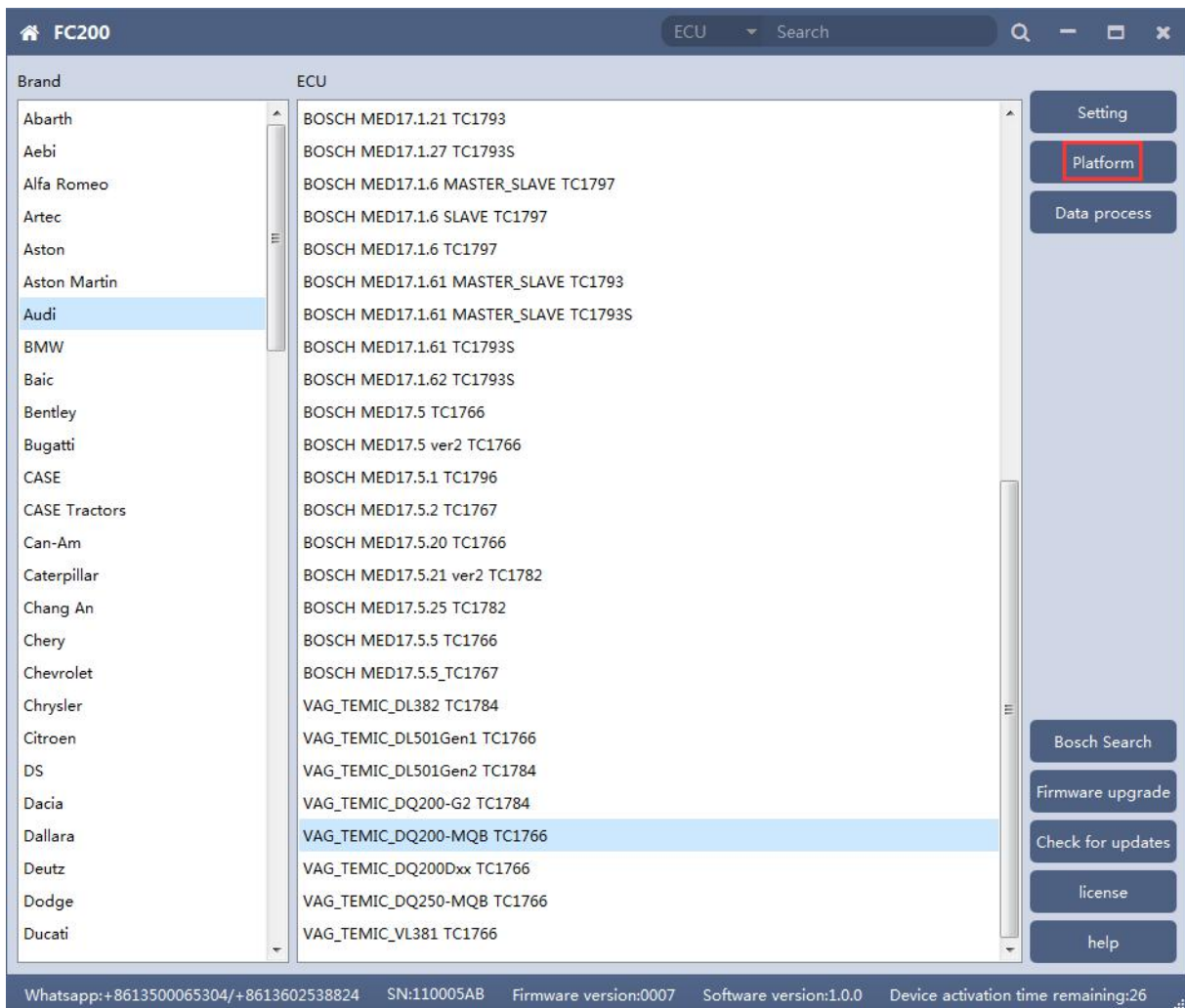
When reading and writing flash, please select automatic acquisition first. If it is not successful, please try other input methods.

Please note : In the process of writing data, it is strictly forbidden to disconnect the power supply or the connection of the device; if the software is shut down or the computer is shut down or crashes unexpectedly in the process of writing data, please do not disconnect the power supply or the connection of the device, and keep it for 15 minutes, the device can complete the data recovery independently.

7. Volkswagen EGS read and write Flash on bench

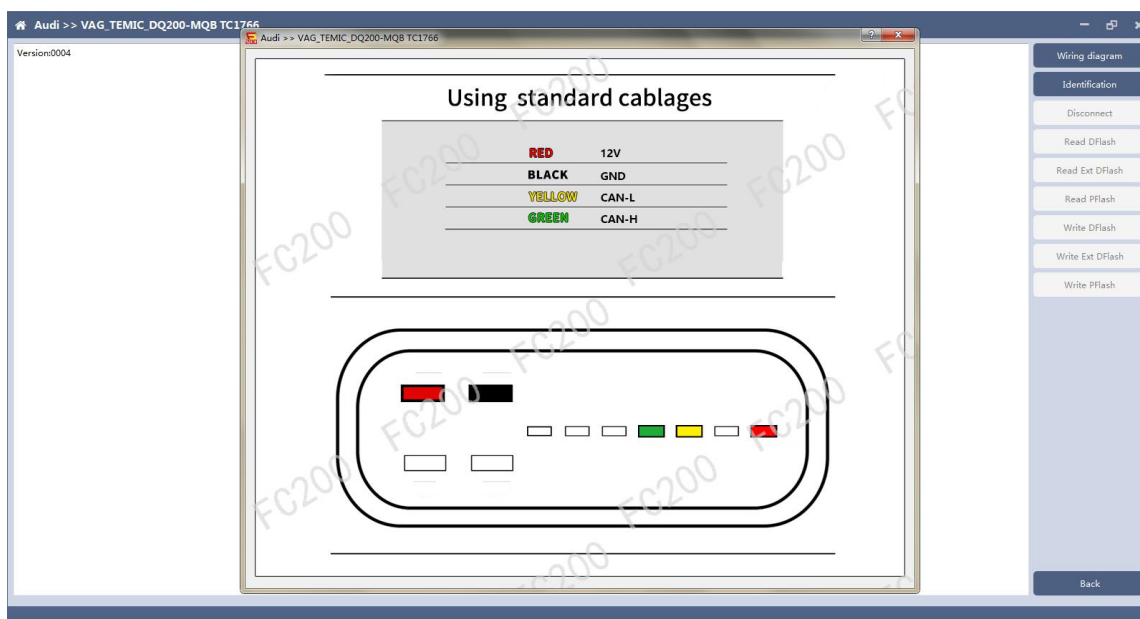
AT-200 currently supports data reading and writing functions of DQ200 and VL381 transmissions of Audi and Volkswagen. DQ200 is taken as an example following.

7.1 The ECU type should be determined according to car type, and the model should be selected correctly, otherwise it can not operate normally.

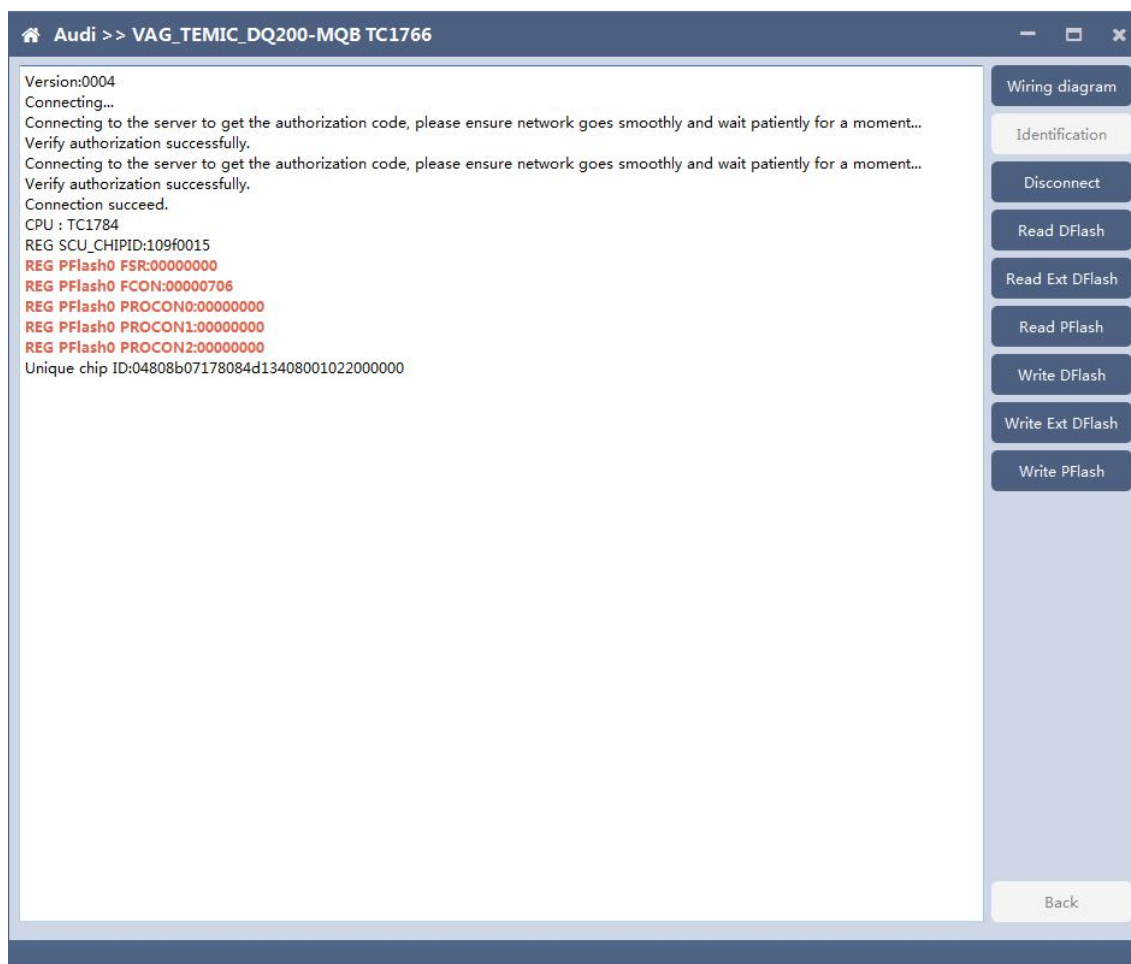


7.2 Check diagram

Connect cables well according software diagram



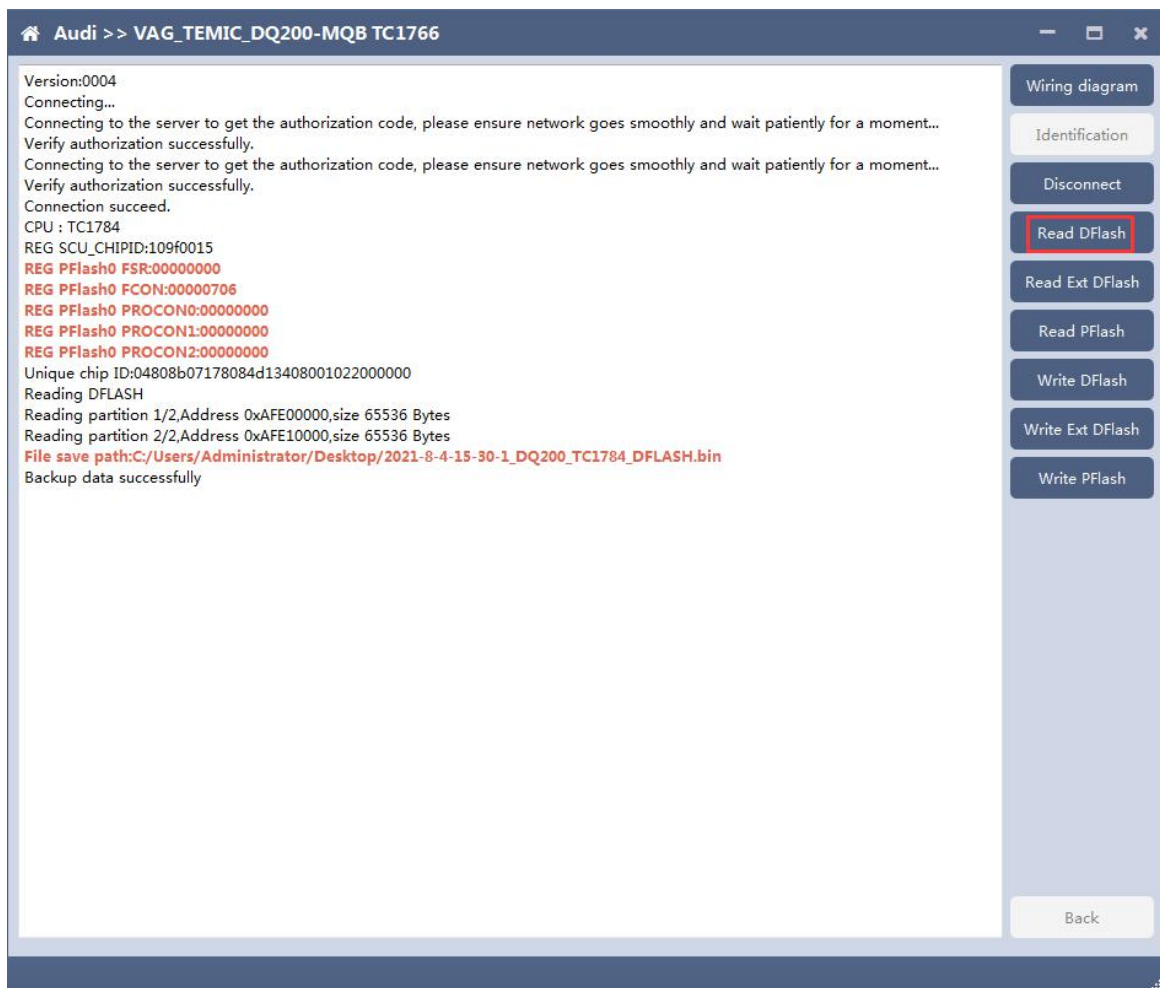
7.3 Identify ECU



After connecting to DQ200, the "identify" button will be grayed out. You can proceed to the next step. When you click "disconnect", you can identify again.

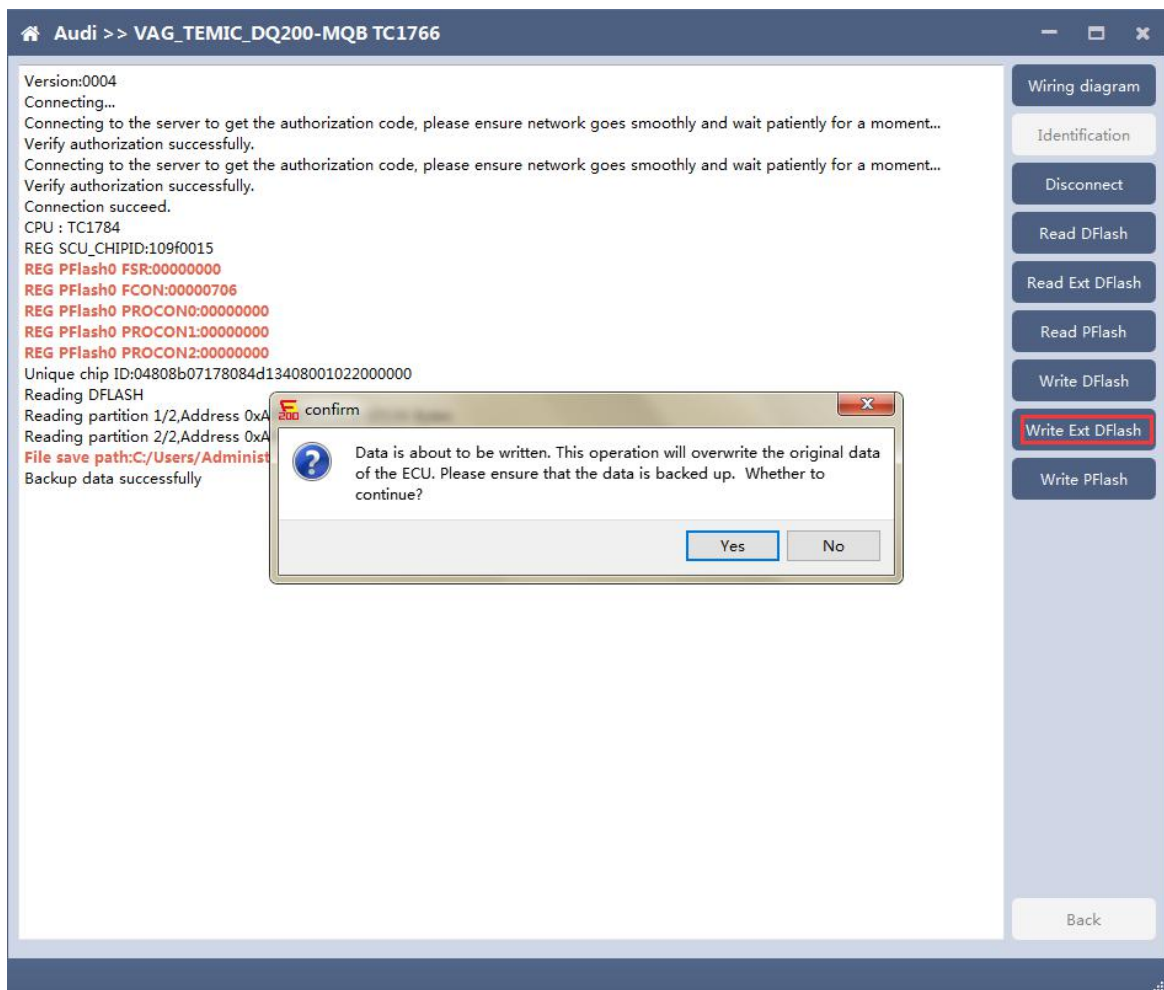
7.4 Read DFlash, EXT DFlash and PFlash

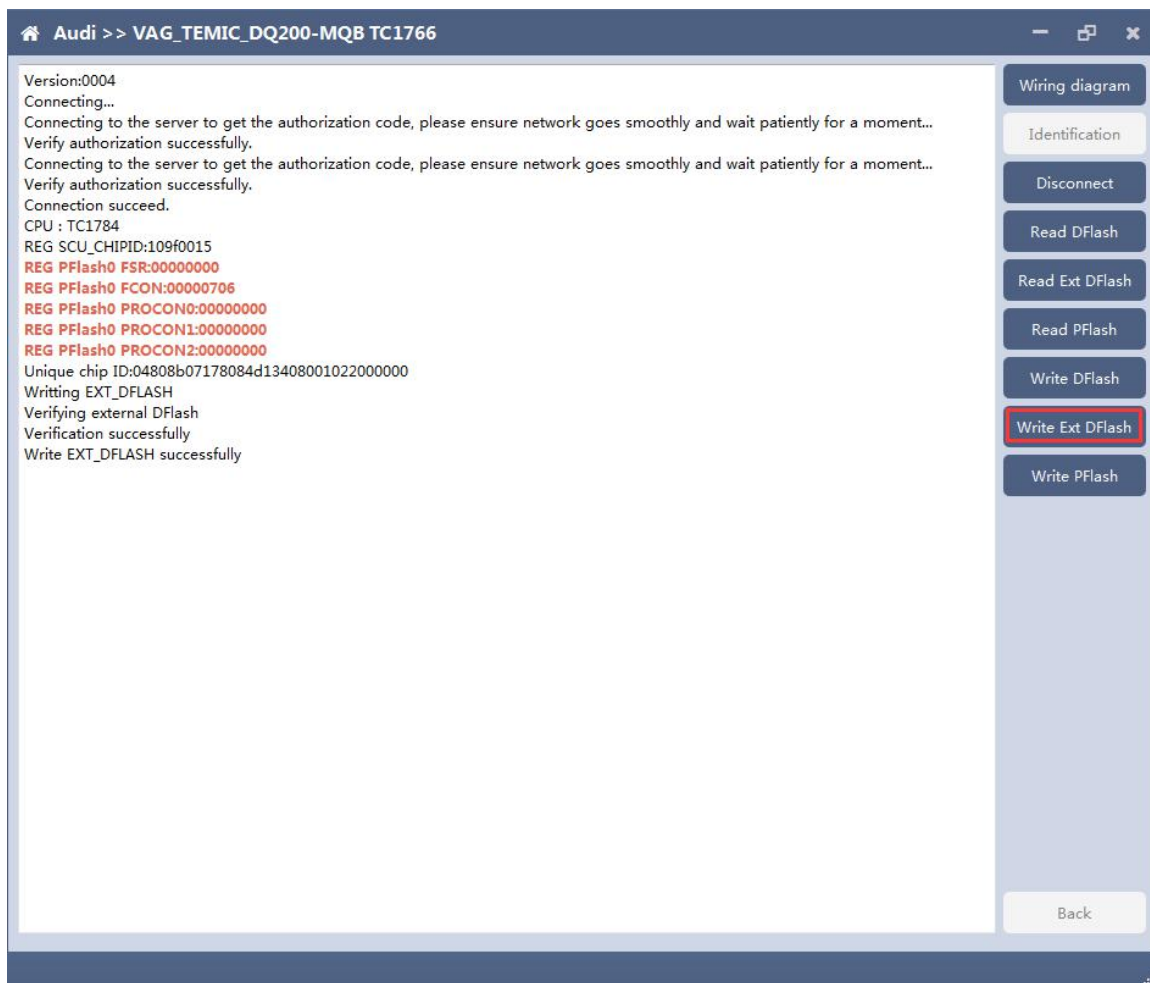
Take reading Dflash as an example:



7.5 Write DFlash, EXT DFlash and PFlash

Take writing EXT-DFlash as an example:





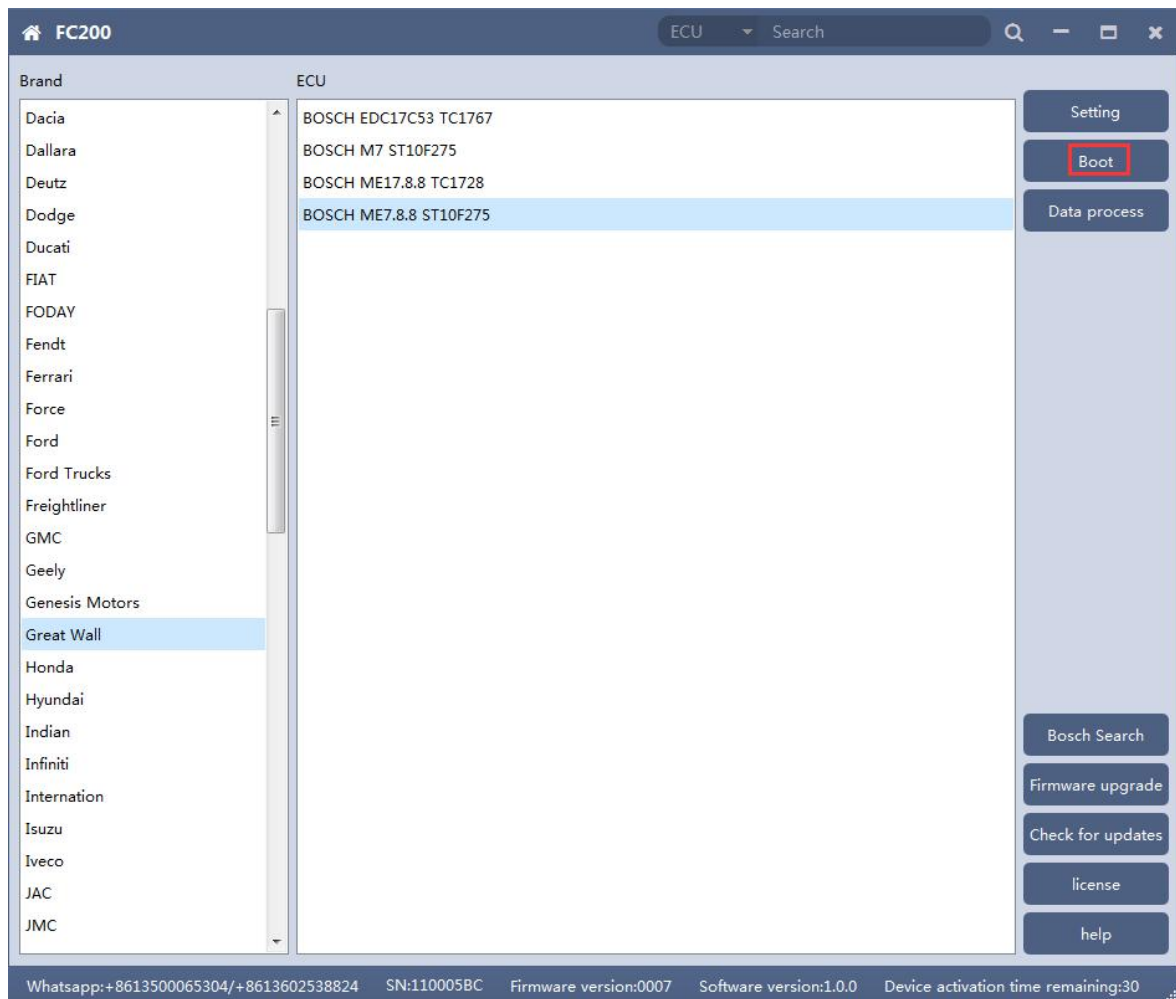
Back up original data before writing flash.

Please note : In the process of writing data, it is strictly forbidden to disconnect the power supply or the connection of the device; if the software is shut down or the computer is shut down or crashes unexpectedly in the process of writing data, please do not disconnect the power supply or the connection of the device, and keep it for 15 minutes, the device can complete the data recovery independently.

8. BOSCH ST10 series(Boot) read and write data

AT-200 currently support ME7.8.8 ECU data reading and writing function.

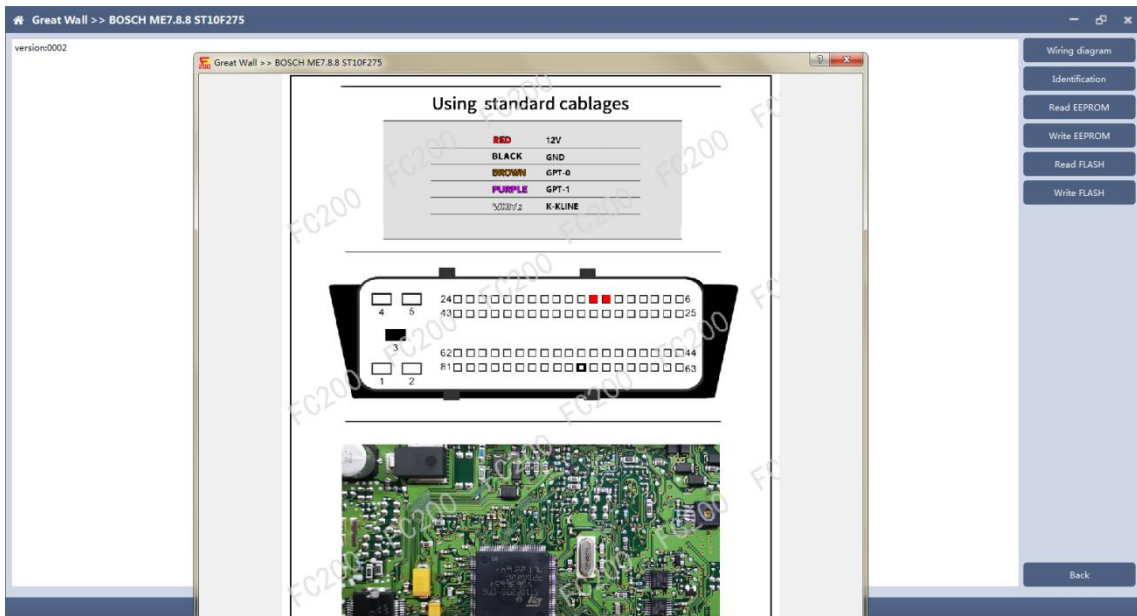
8.1 The ECU type should be determined according to car type, and the model should be selected correctly, otherwise it can not operate normally.



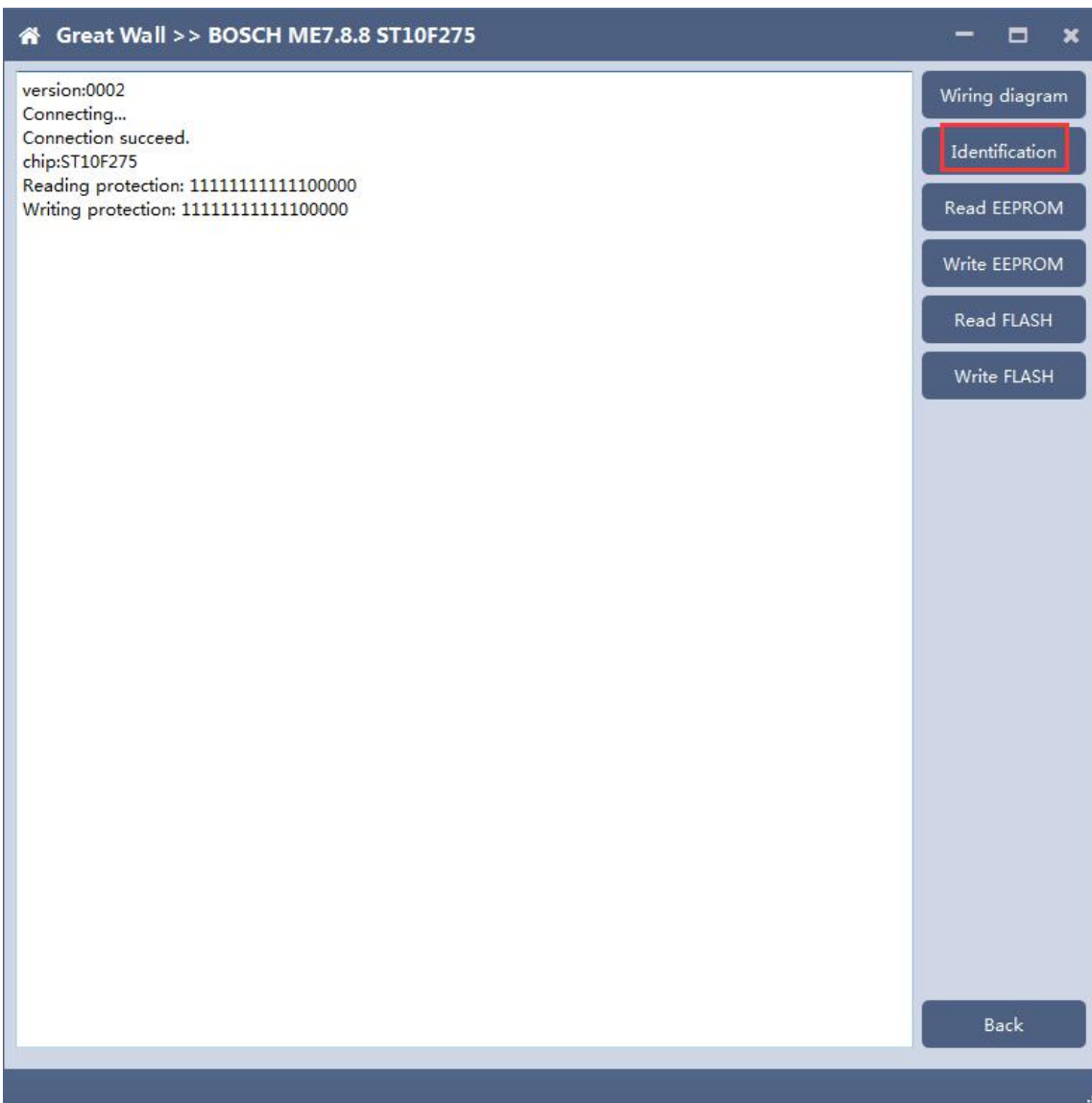
8.2 Check diagram

Connect the cables according to software diagram.

Note: Password reading is the password reading connection, and bootloader reading is the boot mode connection.



8.3 Identification

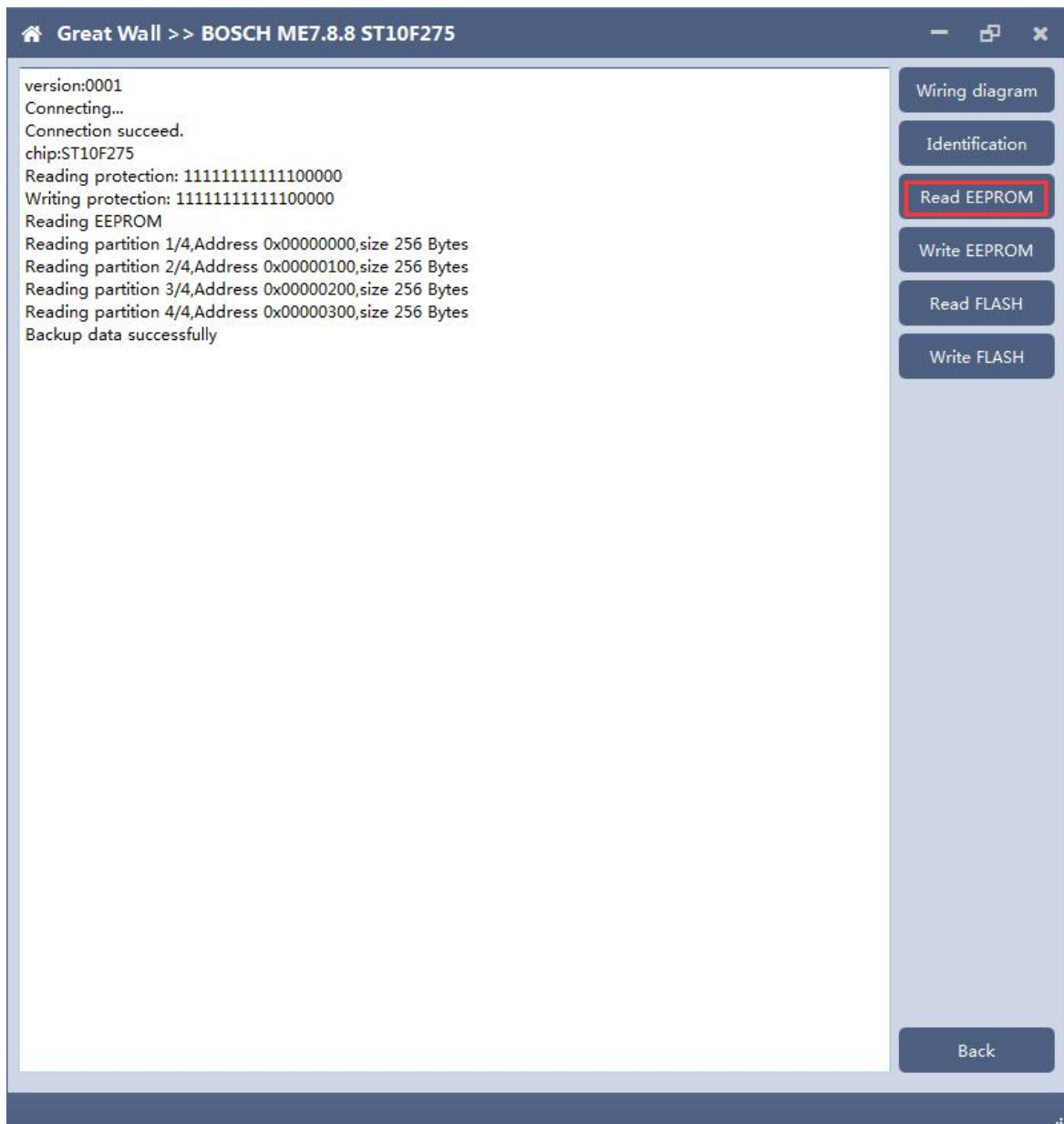


8.4 Read EEPROM and FLASH

The screenshot shows a software interface with a dark blue header bar containing a home icon, the text "Great Wall >> BOSCH ME7.8.8 ST10F275", and window control icons (minimize, maximize, close). The main area is split into a text log on the left and a vertical menu of buttons on the right. The log displays the following text:

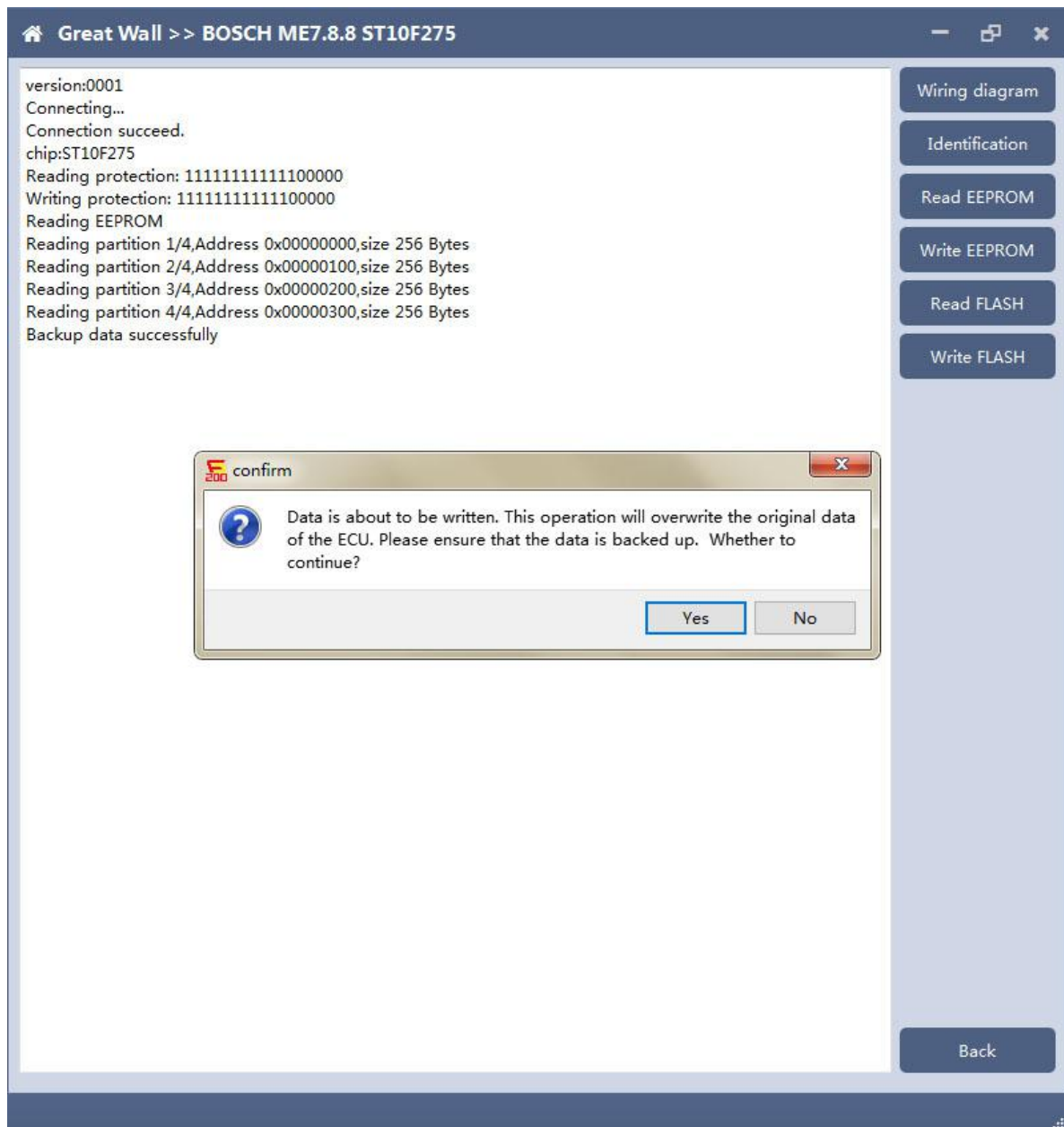
```
version:0002
Connecting...
Connection succeed.
chip:ST10F275
Reading protection: 11111111111100000
Writing protection: 11111111111100000
Connecting...
Connection succeed.
chip:ST10F275
Reading protection: 11111111111100000
Writing protection: 11111111111100000
Reading EEPROM
Reading partition 1/4,Address 0x00000000,size 256 Bytes
Reading partition 2/4,Address 0x00000100,size 256 Bytes
Reading partition 3/4,Address 0x00000200,size 256 Bytes
Reading partition 4/4,Address 0x00000300,size 256 Bytes
Backup data successfully
```

The right-hand menu contains the following buttons from top to bottom: "Wiring diagram", "Identification", "Read EEPROM", "Write EEPROM", "Read FLASH" (highlighted with a red border), and "Write FLASH". A "Back" button is located at the bottom right of the interface.



8.5 Write EEPROM and FLASH

Please read the backup data before writing



Note: in the process of writing data, it is strictly forbidden to disconnect the power supply or the connection of the device; if the software is shut down or the computer is shut down or crashes unexpectedly in the process of writing data, please do not disconnect the power supply or the connection of the device, and keep it for 15 minutes. The device can recover the data independently.

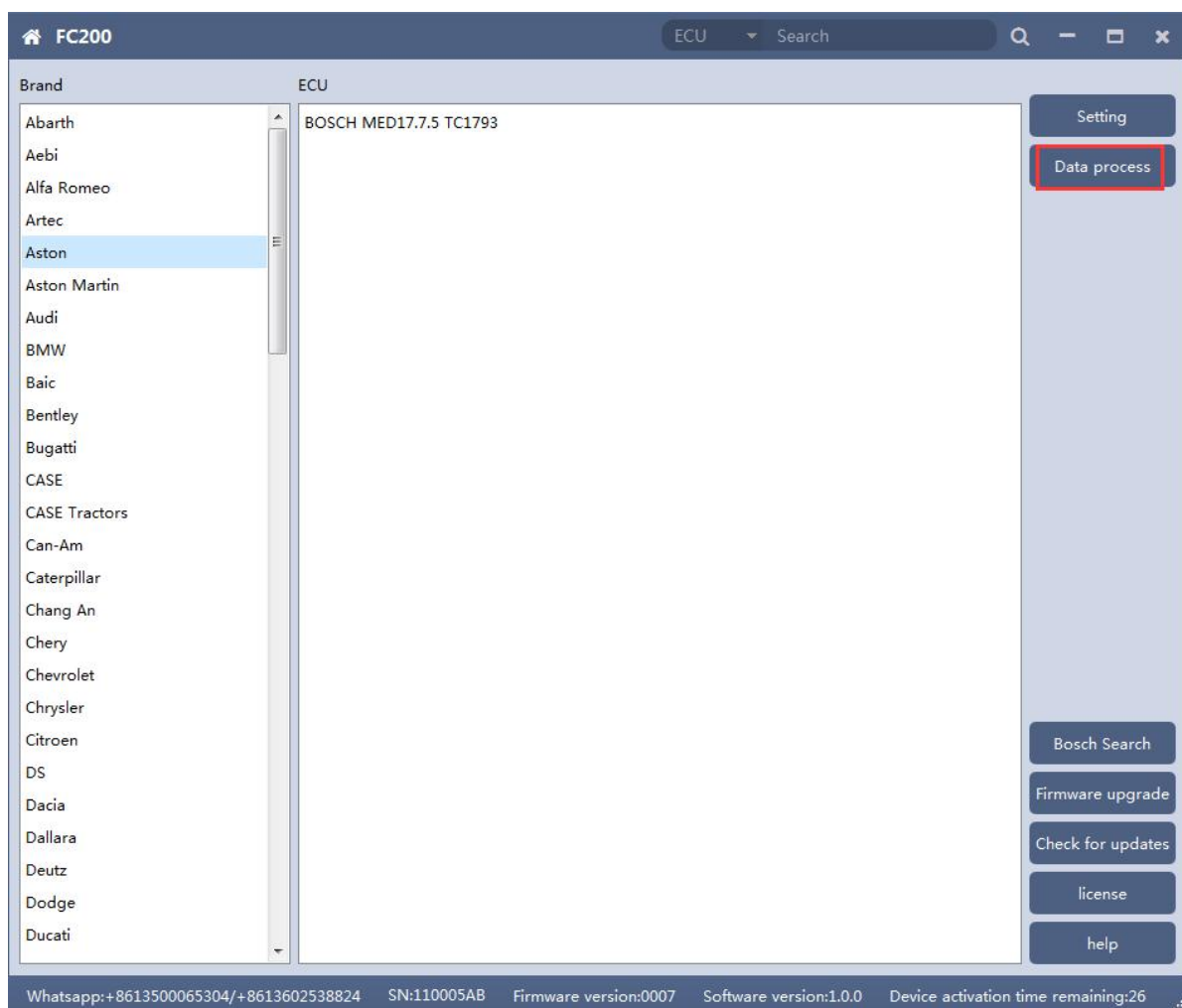
9. MED17/EDC17 data process tool

FC200 currently support(Generation 4 and 5 anti theft of AUDI/SEAT/SKODA/VOLKSWAGEN)ECU data parsing and modification.

Support Bosch MED/EDC17series immo off.

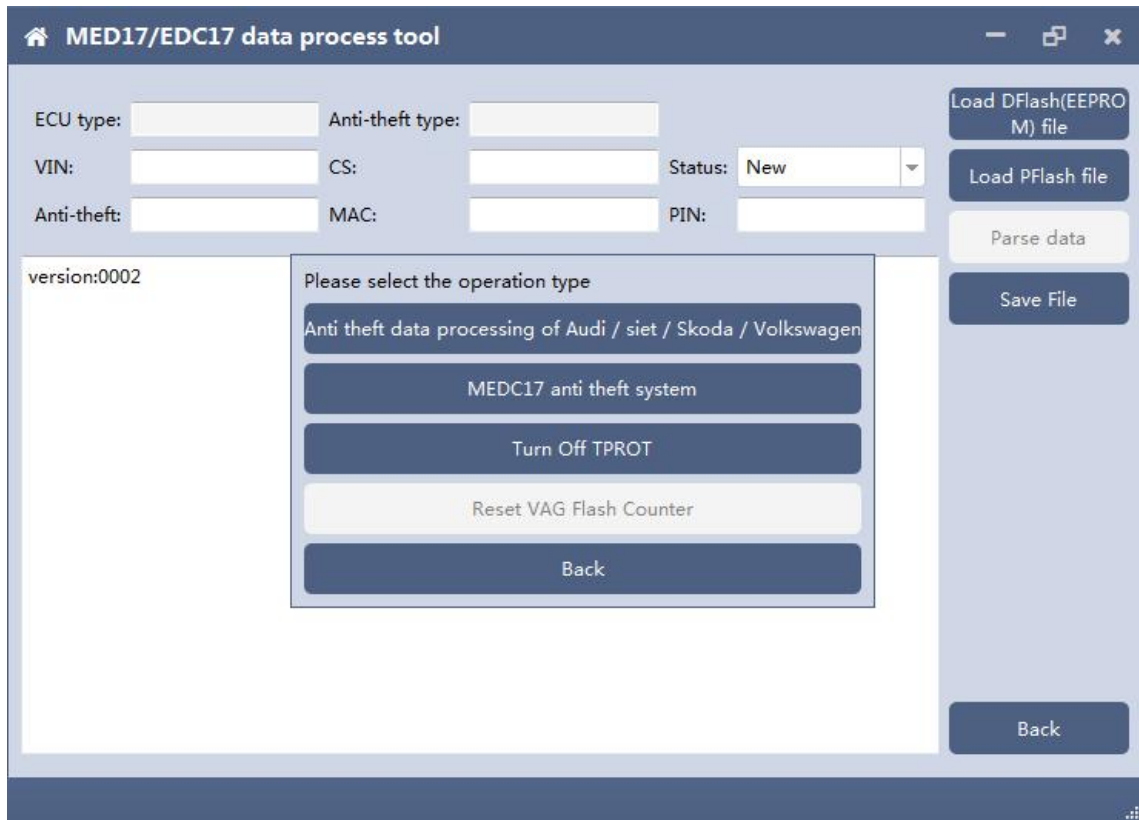
Support the closing TPROT function of Bosch VAG MEDC17 series, BMW / mini MEVD17 / EDC17 series, Hyundai / Kia EDC17 & MED (G) 17 series.

9.1 Choose AUDI/SEAT/SKODA/VOLKSWAGEN car type then enter data process function



9.2 Select operation type

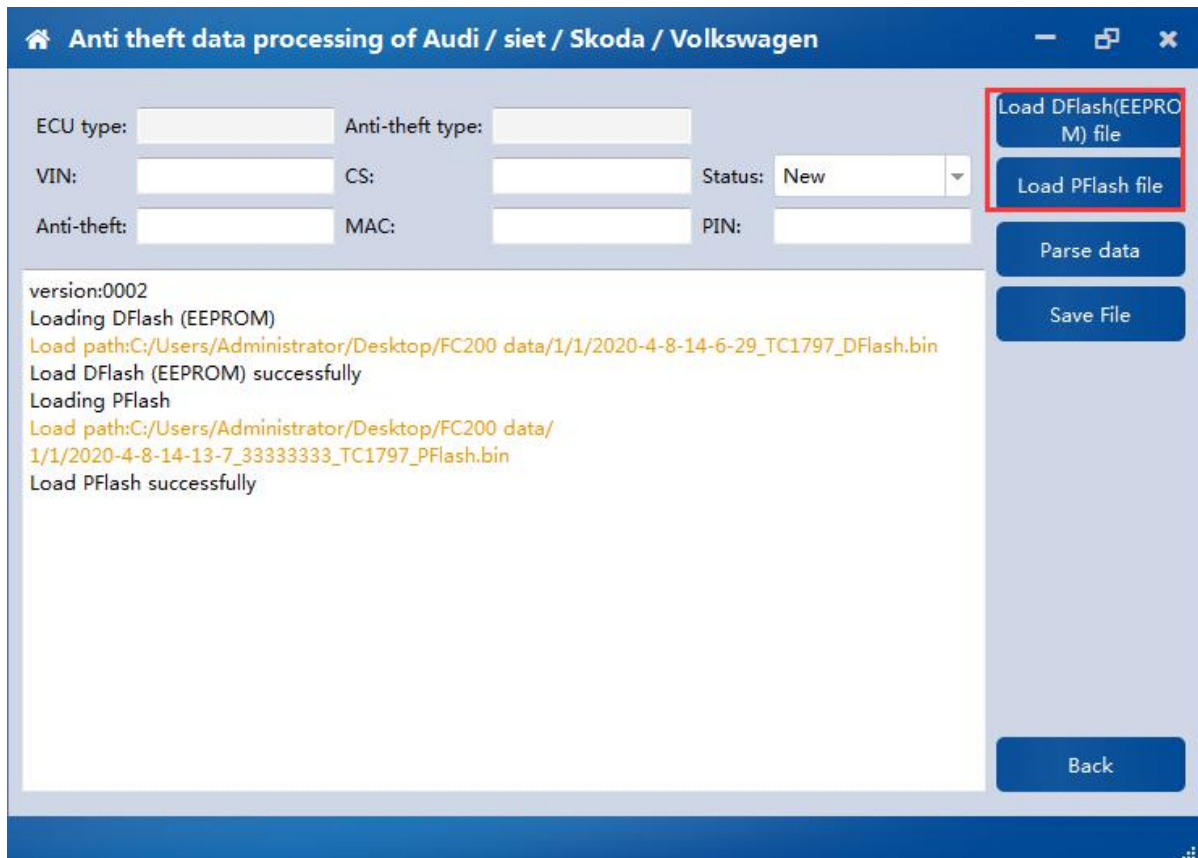
Choose function need to be operated



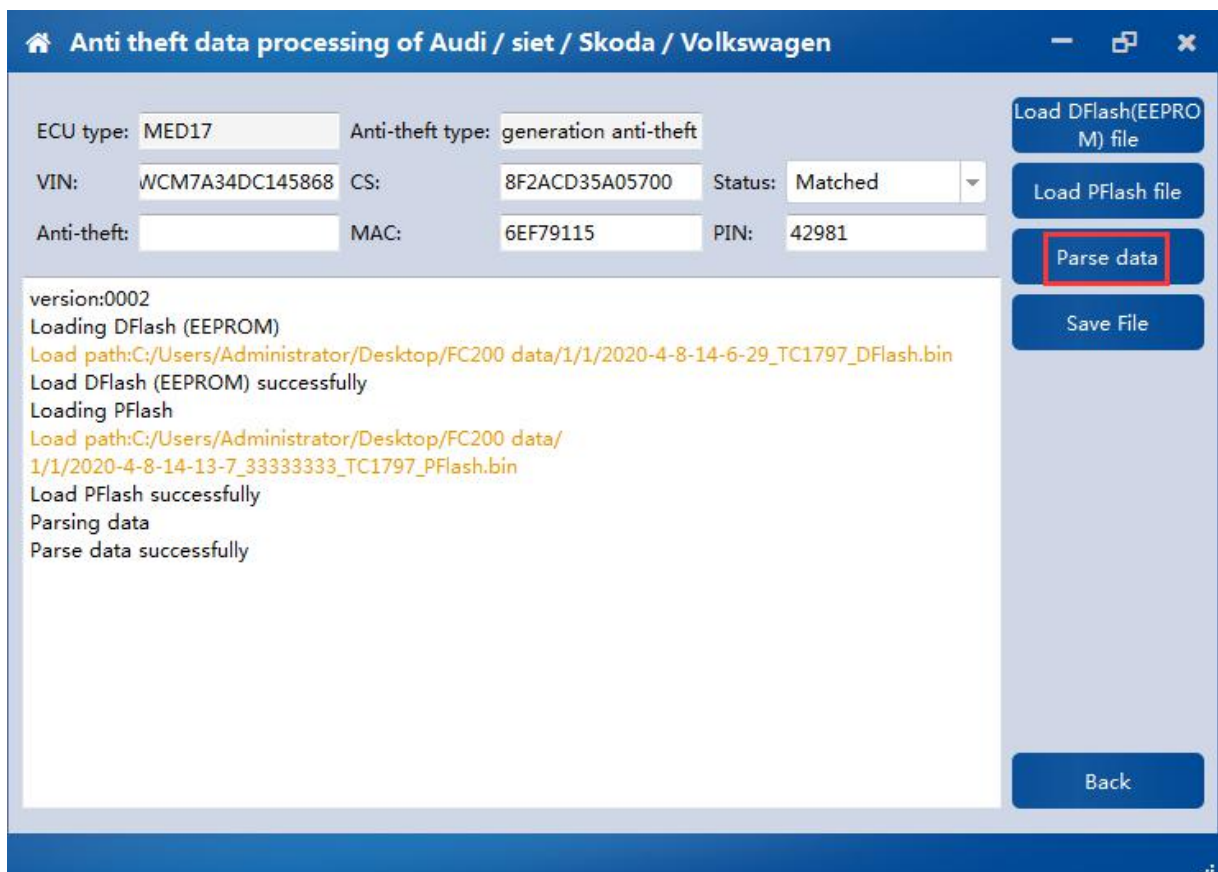
9.3 AUDI/SEAT/SKODA/VOLKSWAGEN anti-thief data process function

9.3.1 Load DFlash(EEPROM) and PFlash files

Load DFlash (EEPROM) and PFlash files respectively



9.3.2 Parsing data



9.3.3 Modify the data and save the file

Anti theft data processing of Audi / siet / Skoda / Volkswagen

ECU type: MED17 Anti-theft type: generation anti-theft

VIN: WCM7A34DC145868 CS: 8F2ACD35A05700 Status: Matched

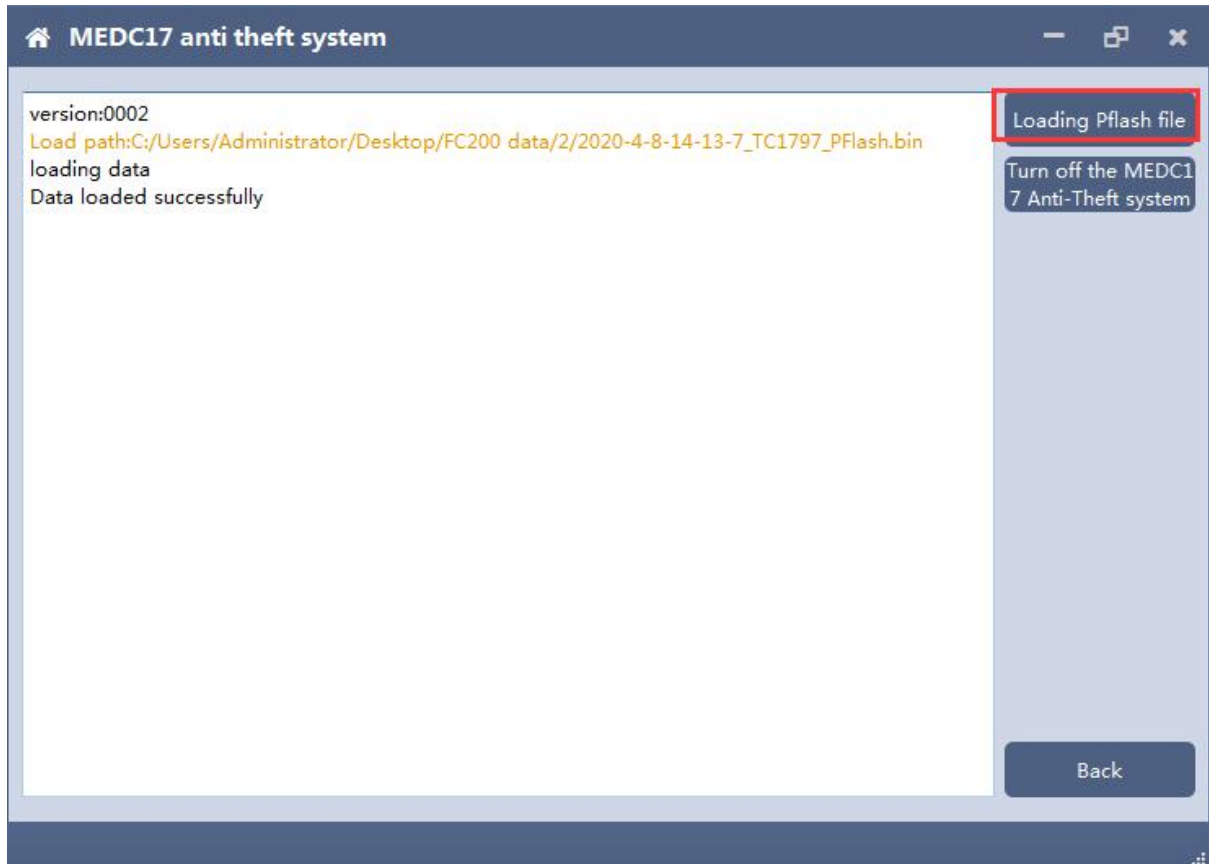
Anti-theft: MAC: 11111111 PIN: 1111

version:0002
Loading DFlash (EEPROM)
Load path:C:/Users/Administrator/Desktop/FC200 data/1/1/2020-4-8-14-6-29_TC1797_DFlash.bin
Load DFlash (EEPROM) successfully
Loading PFlash
Load path:C:/Users/Administrator/Desktop/FC200 data/
1/1/2020-4-8-14-13-7_33333333_TC1797_PFlash.bin
Load PFlash successfully
Parsing data
Parse data successfully

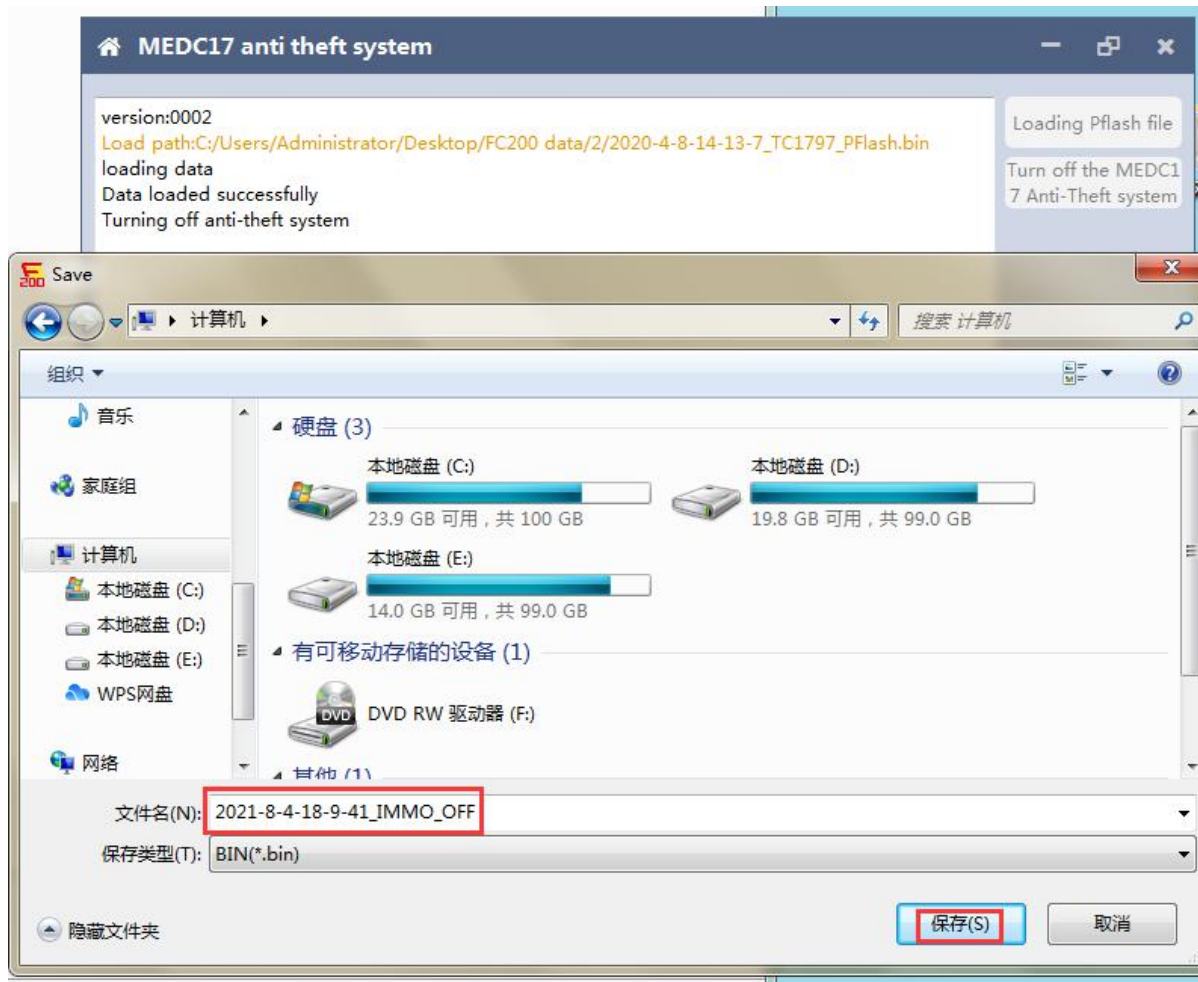
Buttons: Load DFlash(EEPROM) file, Load PFlash file, Parse data, Save File, Back

9.4 MEDC17 anti-theft system function

9.4.1 Load PFLASH data



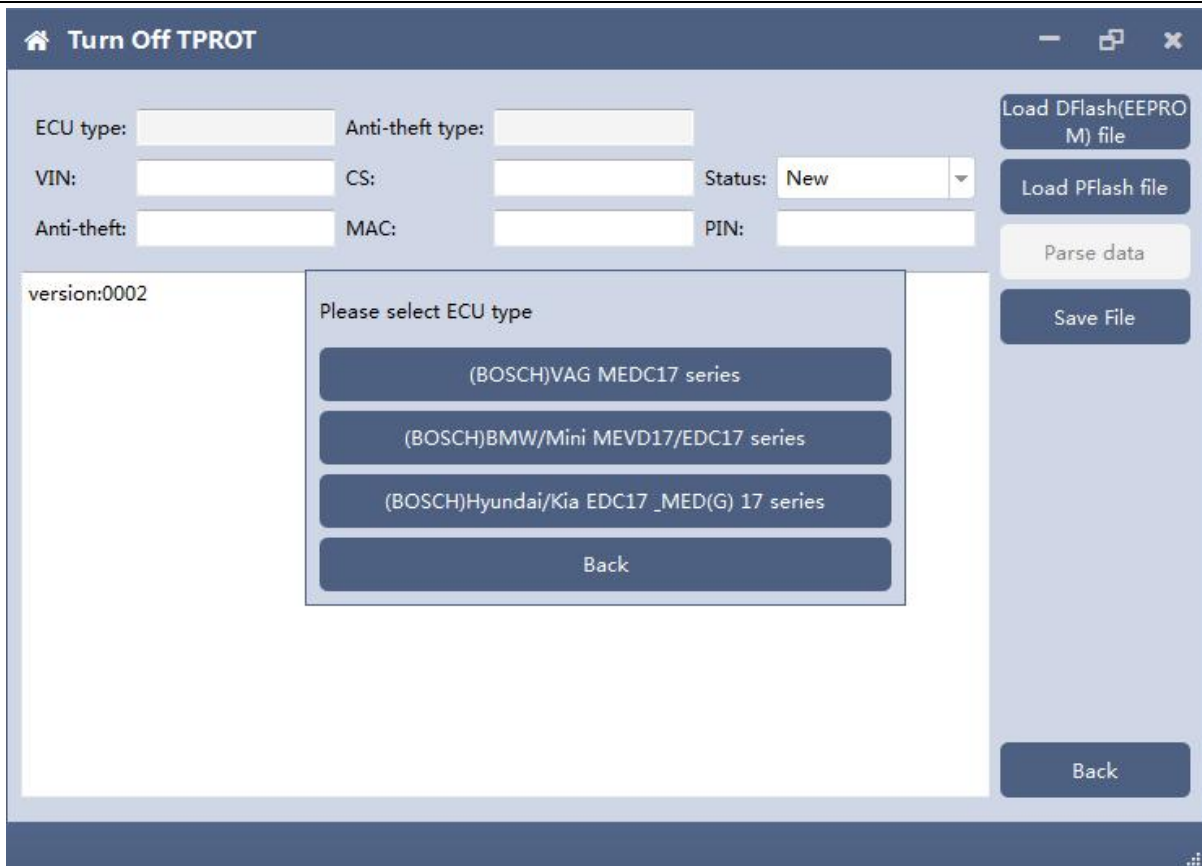
9.4.2 Turn off the MEDC17 anti-theft system and save file



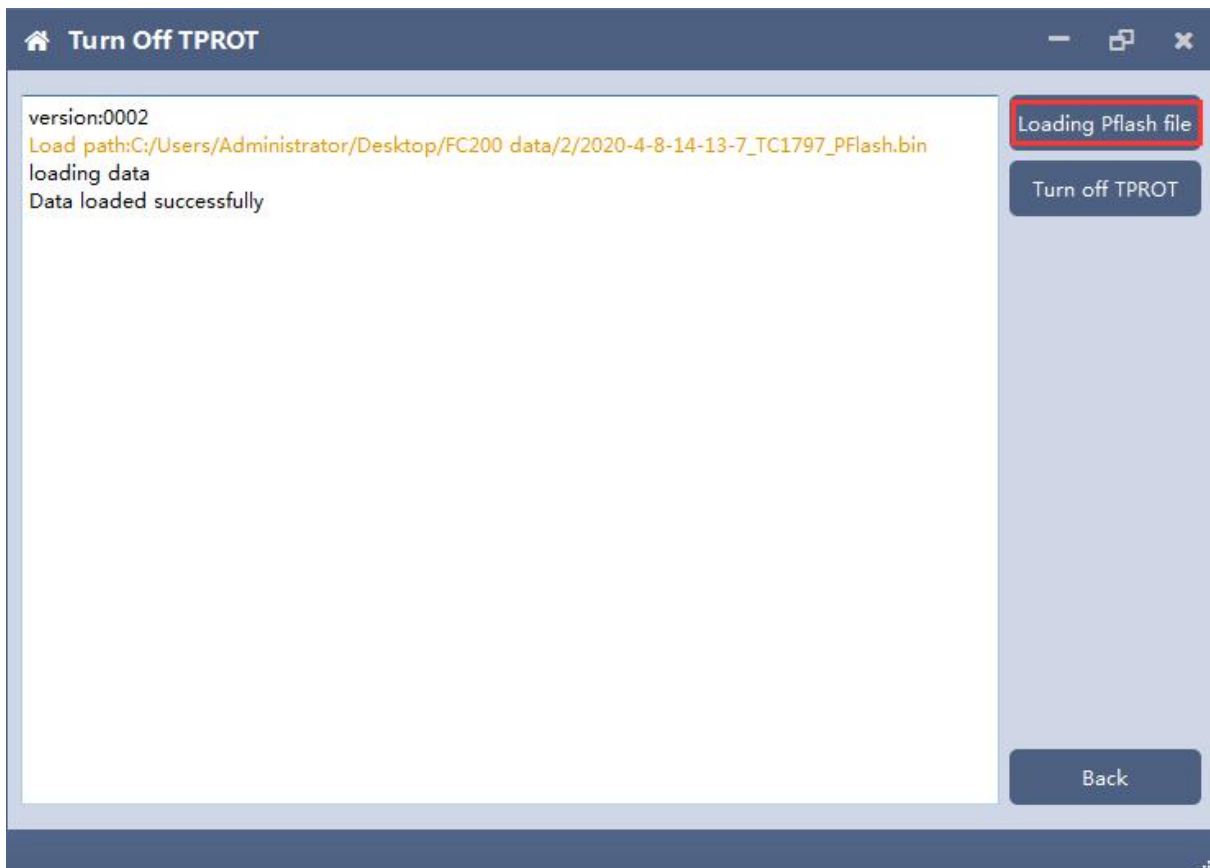
9.5 Close TPROT

9.5.1 Select ECU type

Choose correct ECU type, currently support the Bosch VAG MEDC17 series, BMW / mini MEVD17 / EDC17 series, Hyundai / Kia EDC17 & MED (G) 17 series .



9.5.2 Load PFLASH data



9.5.3 Close TPROT and save the file.

