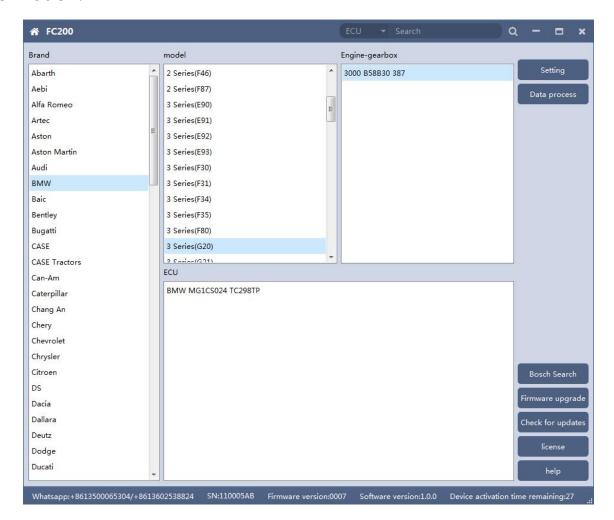
FC200 User Manual

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:

• Set the language, font size and display type.

Firmware update
Firmware version update

Authorization infoFC200 software requires authorization before useUse helpOpen 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

<sup>
</sup> Display Method: Select category display and merge display

Oisplay style: Blue gray and dark blue
 Oisplay style: Blue gray and dark blue

₭ FC200			ECU 🔫 Search	۵	- =	×
Brand	model		Engine-gearbox			
Abarth	2 Series(F46)	*	3000 B58B30 387		Setting	
Aebi	2 Series(F87)				Data process	
Alfa Romeo	3 Series(E90)	E				
Artec	3 Series(E91)					
Aston	3 Series(E92)					
Aston Martin	3 Series(F93)					
Audi	希 Setting		×			
BMW		2 81				
Baic	Language:	English	*			
Bentley	Wiring diagram:	🔲 Show thumbnails in the	output window			
Bugatti		-				
CASE	font size:	9	8-20			
CASE Tractors	Display Mode:	Category	•			
Can-Am						
Caterpillar	Display style:	Blue Gray	_			
Chang An		Apply				
Chery						
Chevrolet						
Chrysler						
Citroen					Bosch Search	
DS						
Dacia					Firmware upgra	ide
Dallara					Check for upda	tes
Deutz						
Dodge					license	
Ducati					help	
Whatsapp:+8613500065304/+86136	02528824 SNL110005	5AR [:	17 Software version:100			

1.1.1 Display Method

☆ FC200		ECU - Search	a – ⊡ ×
Brand	model	Engine-gearbox	
Abarth	2 Series(F46)	3000 B58B30 387	Setting
Aebi	2 Series(F87)		Data process
Alfa Romeo	3 Series(E90)		Data process
Artec	3 Series(E91)		
Aston	3 Series(E92)		
Aston Martin	3 Series(E93)		
Audi	3 Series(F30)		
BMW	3 Series(F31)		
Baic	3 Series(F34)		
Bentley	3 Series(F35)		
Bugatti	3 Series(F80)		
CASE	3 Series(G20)		
CASE Tractors	2 Serier(G21)		
Can-Am	ECU		_
Caterpillar	BMW MG1CS024 TC298TP		
Chang An			
Chery			
Chevrolet			
Chrysler			
Citroen			Bosch Search
DS			
Dacia			Firmware upgrade
Dallara			Check for updates
Deutz			
Dodge			license
Ducati			help
Whatsapp:+8613500065304/+86136	02538824 SN:110005AB Firmware version:00	07 Software version:1.0.0 Device activation	time remaining:27

Select category display

Select category display

Brand		ECU	
Abarth	<u>^</u>	BMW MG1CS003 SPC5777	Setting
Aebi		BMW MG1CS024 TC298TP	
Alfa Romeo		BMW MG1CS201 TC298TP	Data process
Artec		BOSCH EDC17C06 TC1766	
Aston	E	BOSCH EDC17C41 TC1797	
Aston Martin		BOSCH EDC17C50 TC1797	
Audi		BOSCH EDC17C56 TC1797	
BMW		BOSCH EDC17C76 TC1793	
Baic		BOSCH EDC17CP02 TC1766	=
Bentley		BOSCH EDC17CP09 TC1796	-
Bugatti		BOSCH EDC17CP45 TC1797	
CASE		BOSCH EDC17CP49 TC1797	
CASE Tractors		BOSCH ME17.2 BMS-X TC1797	
Can-Am		BOSCH ME17.2.1 TC1796	
Caterpillar		BOSCH ME17.2.4 TC1793	
Chang An		BOSCH MEV17.2.1 TC1796	
Chery		BOSCH MEVD17.2 TC1797	
Chevrolet		BOSCH MEVD17.2 TC1797_N55	
Chrysler		BOSCH MEVD17.2.3 TC1793	
Citroen		BOSCH MEVD17.2.3 TC1793_B38	Bosch Search
DS		BOSCH MEVD17.2.4 TC1797_N20	
Dacia		BOSCH MEVD17.2.5 TC1797_N13	Firmware upgrad
Dallara		BOSCH MEVD17.2.6 TC1797_N55	Check for update
Deutz		BOSCH MEVD17.2.8 TC1797	
Dodge		BOSCH MEVD17.2.9 TC1797	license
Ducati		BOSCH MEVD17.2.9 TC1797_N20	help

1.2 Device Authorization

FC200 software requires authorization before use

OClick Authorization Information button on the main interface to view
 OCLICK Authorization Information button on the main interface to view
 OCLICK Authorization Information button on the main interface to view
 OCLICK AUTHORIZATION INFORMATION BUTTON ON THE MAIN INTERFACE TO VIEW
 OCLICK AUTHORIZATION INFORMATION BUTTON ON THE MAIN INTERFACE TO VIEW
 OCLICK AUTHORIZATION INFORMATION BUTTON ON THE MAIN INTERFACE TO VIEW
 OCLICK AUTHORIZATION INFORMATION
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 OC

the authorization list

©Click the Update Authorization button

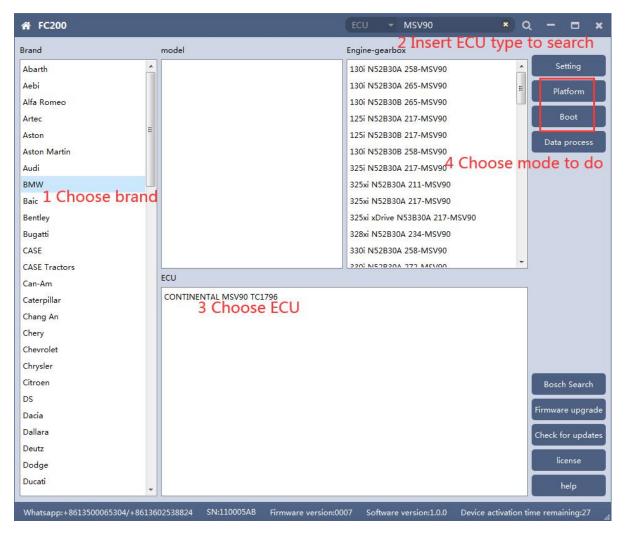
Brand		ECU					
Abarth	•	BMW MG1CS003 SPC5777					Setting
Aebi		BMW MG1CS024	4 TC298TP				Data process
Alfa Romeo		BMW MG1CS201	1 TC208TD			_	Data process
Artec	🕋 Autho	rize			- =	×	
Aston							
Aston Martin	FunctionIC	DID	Function nar	ne	Authorized	-	
Audi	A1000001	L 0	MSD80/81/85/87/MSV90 F	Read/Write Data	Yes		
BMW	A1000001	1	Mercedes SIM271 Rea	d/Write Data	Yes		
Baic	A1000001	1 2	🔚 Prompt 📃	ta	Yes	E	
Bentley	A1000001	L 3	Activation success	Ful Vrite ISN	Yes	E	
Bugatti	A1000002	2 0		D)	Yes		
CASE	A1000003	3 0	ОК		Ves		
CASE Tractors	A1000004	1 0			Yes		
Can-Am							
Caterpillar	A1000005		N13/N20/N55/B38/TC17X R	ead Data(BENCH)	Yes		
Chang An	A1000005	5 1	N13/N20/N55/B38/TC17X W	/rite Data(BENCH)	Yes		
Chery	A1000005	5 2	Volkswagen Bosch MED17 series engine clone		Yes		
Chevrolet							
Chrysler			Update authorization				
Citroen		BOSCH MEVD17	.2.3 TC1793_B38				Bosch Search
DS		BOSCH MEVD17	.2.4 TC1797_N20				Firmware upgrad
Dacia		BOSCH MEVD17.2.5 TC1797_N13					Firmware upgrad
Dallara		BOSCH MEVD17.2.6 TC1797_N55					Check for update
Deutz		BOSCH MEVD17.2.8 TC1797					
Dodge		BOSCH MEVD17	2.9 TC1797				license
Ducati	-	BOSCH MEVD17	.2.9 TC1797_N20				help

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

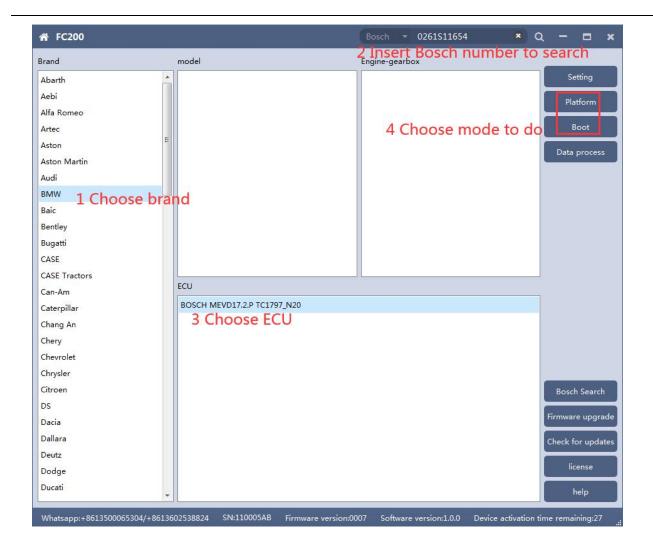
manufacturer

1.3 Device search function (frequently-used)

ECU search



Bosch number search



Bosch number query (click "Bosch search")

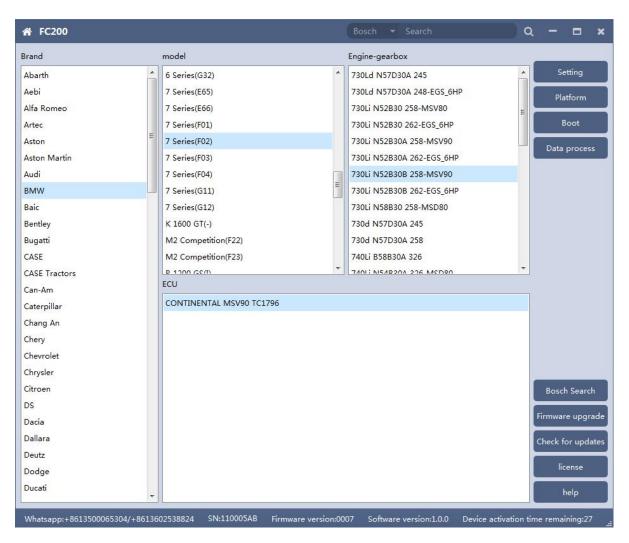
Brand		model		Engine-gearbox		
Abarth	^	1 Series(E81)	•	218d B47D20A 150		Setting
Aebi		1 Series(E82)	E	218d N47D20C 143		Data process
Alfa Romeo		1 Series(E87)		218i B38B15A 136		Data process
Artec		1 Series(E88)		220d B47D20A 190		
Aston	H	1 Series(F20)		220d N47D20C 184	E	
Aston Martin		1 Series(F21)		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/E01)	-	220: NISEDON 242 MCDON	*	
Can-Am		ECU				
Caterpillar						
Chang An						
Chery						
Chevrolet						
Chrysler					-	
Citroen					1	Bosch Search
DS						
Dacia						Firmware upgra
Dallara						Check for upda
Deutz						
Dodge						license
Ducati						help



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

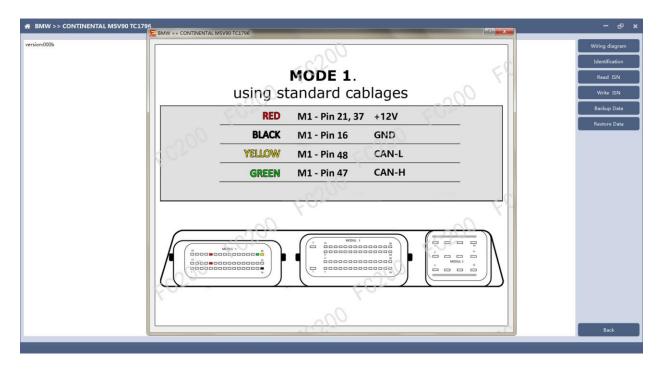
FC200 currently supports the cloning and ISN reading of BMW models MSV90/80/MSD87/85/81/80 (E series, F series) and Mercedes-Benz SIM271 ECU.

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

ersion:0008	Wiring diagram
onnecting	in the state of th
ionnection succeed.	Identification
IN:WBAKB2103AC403321	
lentify:16557AA20000135E	Read ISN
pe:ECMEngineControl	1000 1374
onnecting	Write ISN
onnection succeed.	WING ISH
N:WBAKB2103AC403321	Backup Data
entify:16557AA20000135E	Dackup Data
/pe:ECMEngineControl	Restore Data
etting ECU authorization	Restore Data
onnecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment	
erify authorization successfully.	
N:86395168E8F11536ECC129528D579337	
onnecting onnection succeed.	
onnection succeed. INVWBAKB7103AC4013321	
N:WDAKAD2 (D3AC40352) entitiv:1657/A20000135E	
errury: Ios/ AnACOUNTISE	
ppe:ctum-enginecontrol	
consigned autorization onnecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment	
onnecting to the server to get the authorization code, please ensure network goes shooting and wait patiently for a moment	
enny advontations advessing advessing advessing advessing advessing advessing advessing advessing advessing adve	
In a state of the	
onnector accerd.	
leading partition/13,address 0xA0000000,size 16384 Bytes	
anding partition2/13,address 0xA0004000,size 16384 Bytes	
eading partition3/13,address 0xA0008000,size 16384 Bytes	
eading partition4/13,address 0xA000C000,size 16384 Bytes	
eading partition5/13.address 0xA0010000.size 16384 Bytes	
eading partition6/13,address 0xA0014000,size 16384 Bytes	
rading partition7/13,address 0xA0018000,size 16384 Bytes	
ading partition8/13,address 0xA001C000,size 16384 Bytes	
ading partition9/13,address 0xA0020000,size 131072 Bytes	
eading partition10/13,address 0xA0040000,size 262144 Bytes	
16%	Back

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.

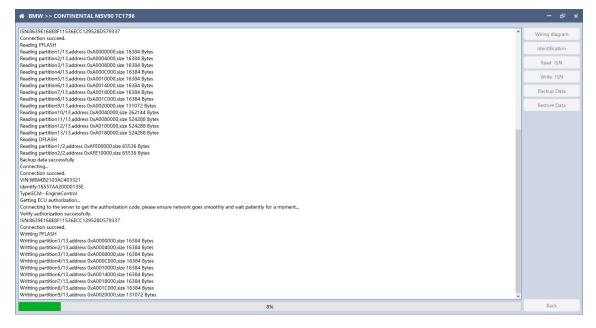
2.6 Data Restore

Connecting unceed. VINWBAR2103AC403321 denth;1:6557A20000135E SypeECM-EngineControl Connecting unceed. VINWBAR2103AC403321 denth;1:6557A20000135E SypeECM-EngineControl Cententing to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment_ VR03803E1048E11536EC(125520579337 Connecting unceed. Connecting unceed.	×	Weing diagram Identification Read ISN Write ISN Backup Data Restore Data
INV WEAKE2103AC403321 Investigned and an advector of the authorization code, please ensure network goes smoothly and wait patiently for a moment		Identification Read ISN Write ISN Backup Data
Sentify-16557AA2000135E spmECMEngineControl ommetting		Read ISN Write ISN Backup Data
SpeECM—EngineControl ommetting		Read ISN Write ISN Backup Data
omesting		Write ISN Backup Data
onmetion succeed. WINMARK21036AC403321 Mently-16557AA20000135E petcfMEngineControl etting fCU authorization. withy authorization code, please ensure network goes smoothly and wait patiently for a moment		Write ISN Backup Data
NVMBAR22103AC403321 entity:16557AA20000135E petCMfingineControl etting ECC authorization onrecting to the serve to get the authorization code, please ensure network goes smoothly and wait patiently for a moment wh639E1608E11156ECC12952800579337 annexting		Backup Data
entify-16357AA20000135E petCM—EngineControl etting ECU authorization why authorization successfully. NA639E16688711536ECC1295280579337 amedian		Backup Data
peECM—EnglaneControl etting ECU authorization… enrecting to the avere to get the authorization code, please ensure network goes smoothly and wait patiently for a moment… whish authorization successfully. NA639E16688711556CC12952800579337 annexting… prometing…		
titing ECU authorization minorcling to the save to get the authorization code, please ensure network goes smoothly and wait patiently for a moment rify authorization successfully. NabiSPE1668211536ECC1295280579337 smeeting		
Http authorization successfully. No639E168EE11536ECC129528D579337 annexting		Restore Data
Http authorization successfully. No639E168EE11536ECC129528D579337 annexting		
onnecting		
unaction succeed		
onnection succeed.		
NCWBAKB2103AC403321		
entify:16557AA20000135E Data is about to be written. This	operation will overwrite the original	
pe:ECMEngineControl data of the ECIL Please ensure t	hat the data is backed up. Whether	
etting ECU authorization to continue?		
onnecting to the server to get the authorization code, please ensure network goes sm		
erlfy authorization successfully. N:8639E168E8F11536ECC129528D579337	Yes No	
nkco39E100E0F11530EUC129520U579337		
vading PFLASH		
ading partition1/13.address 0xA0000000.size 16384 Bytes		
ading partition2/13.address 0xA0004000.size 16384 Bytes		
ading partition3/13.address 0xA0008000.size 16384 Bytes		
ading partition4/13.address 0xA000C000.size 16384 Bytes		
ading partition5/13.address 0xA0010000.size 16384 Bytes		
ading partition6/13,address 0xA0014000,size 16384 Bytes		
ading partition7/13,address 0xA0018000,size 16384 Bytes		
ading partition8/13,address 0xA001C000,size 16384 Bytes		
ading partition9/13,address 0xA0020000,size 131072 Bytes		
ading partition10/13,address 0xA0040000,size 262144 Bytes		
ading partition11/13,address 0xA0080000,size 524288 Bytes		
ading partition12/13,address 0xA0100000,size 524288 Bytes		
ading partition 13/13,address 0xA0180000,size 524288 Bytes		
ading DFLASH		
ading partition1/2,address 0xAFE00000,size 65536 Bytes		
eading partition2/2,address 0xAFE10000.size 65536 Bytes ackup data successfully		Back

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.

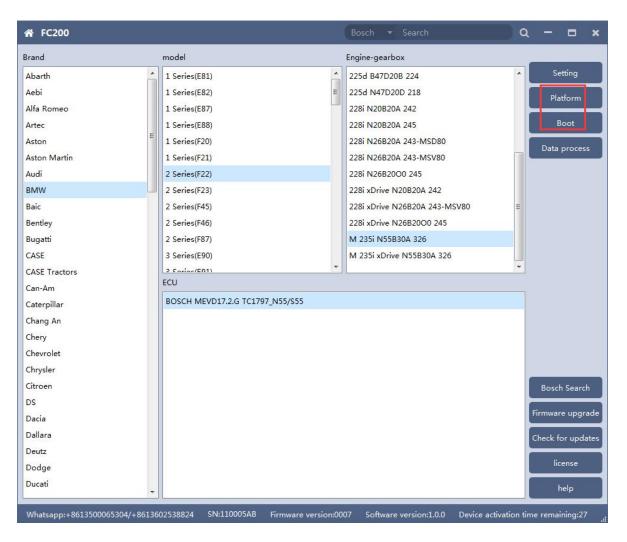


Note: During the process of data recovery, it is strictly forbidden to disconnect the device power or disconnect the device, otherwise it may cause damage to the ECU; if the software is unexpectedly shut down or the computer is shut down or crashed unexpectedly during the process of data recovery, please 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

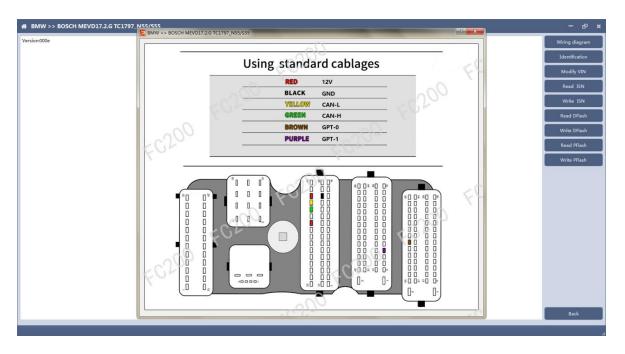
The FC200 currently supports ISN read / write, VIN modification, and data read / write functions for the N13 / N20 / N55 / B38 / TC17X F series chassis of BMW models.

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

# BMW >> BOSCH MEVD17.2.G TC1797_N55/555	– 67 ×
Hardware ID01910002018000001 c0530001 c05500 Hardb PR0CON2-00000000 Hardb PR0CON2-00000820 Hardb PR0CON2-00000820 Hardb PR0CON2-00000800 Connecting	Wiring diagram Identification Modify VIN Read ISN Write ISN Read DFlash Write DFlash Read PFlash Write PFlash
Backup data successfully 100%	Back

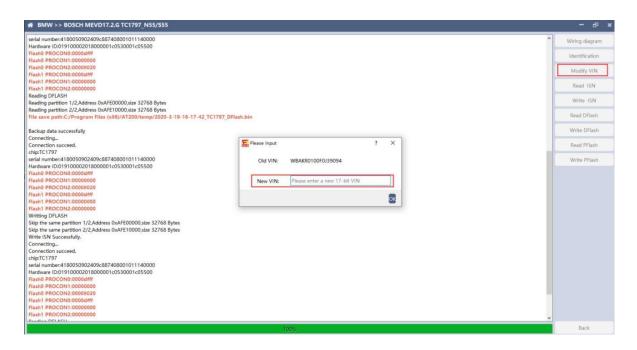
Enter the new ISN in the edit box, and click the "OK" button to start

writing the ISN.

₩ BMW>> BOSCH MEVD17.2.G TC1797_N55/555		- e ×
Flash0 PROCON1:0000000	^	Wiring diagram
Flash0 PROCON2:00008020		
Flash1 PROCON0:0000dfff		Identification
Flash1 PROCON1:0000000		
Flash1 PROCON2:0000000		Modify VIN
Reading DFLASH		
Reading partition 1/2,Address 0xAFE00000,size 32768 Bytes		Read ISN
Reading partition 2/2 Address 0xAFE10000,size 32768 Bytes		
ISN/T807E72208360702677011F5AAEC7F3 Read ISN successfully.		Write ISN
kead I/M successfully. Connecting.		
Connecting		Read DFlash
comecum success.		
Serial number/180050902409c887408001011140000		Write DFlash
Archan Handberg Courses Carbon Society Courses and Carbon Cour		
Fisho PROCING/0000dff		Read PFlash
Flash0 PROCON1:0000000		Reduit Hush
Flash0 PROCON2:00008020		Write PFlash
Flash1 PROCON0:0000dfff		write i riusii
Flash1 PROCON1:0000000		
Flash1 PROCON2:0000000		
Reading DFLASH		
Reading partition 1/2,Address 0xAFE00000,size 32768 Bytes		
Reading partition 2/2,Address 0xAFE10000,size 32768 Bytes		
File save path:C/Program Files (x86)/AT200/temp/2020-3-19-16-17-42_TC1797_DFlash.bin		
Backup data successfully		
Connecting		
Connection succeed.		
chip:TC1797		
serial number:4180050902409c887408001011140000		
Hardware (D:01910002018000001c0530001c05500		
Flash0 PROCON0:0000dfff		
Flasho PROCON1:0000000		
Flash0 PROCOM2:00008020		
Flash I ROCON: 0000dfff		
Flash1 PRCCN1:0000000 Flash1 PRCCN2:0000000 Flash1 PRCCN2:0000000		
Haan PKOCON2:0000000 Writing DFLASH		
Writting UFLASH Skib the same partition 1/2,Address 0xAFE00000.size 32768 Bytes		
Skip the same partition //Z.Address DuART-DUDU0.jste 32/766 Bytes Skip the same partition //Z.Address DuART-DUD0.jste 32/766 Bytes		
Skip fine same particular zz zouries volver i louou size sz nos bytes Write ISN szczesfully.		Back
intre for Successiony.	~	BUCK

Writing successfully.

3.6 Modifying VIN

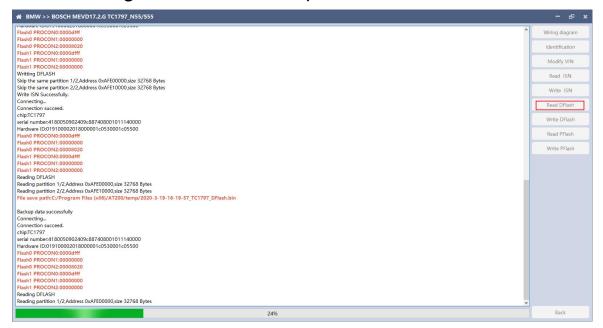


Enter the new VIN in the edit box, click the "OK" button to start writing

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

BMW >> BOSCH MEVD17.2.G TC1797_N55/S55		– 9 ×
Version:0008		Wiring diagram
		Identification
		Modify VIN
		Read ISN
		Write ISN
		Read DFlash
		Write DFlash
	₩ confirm	Read PFlash
	Data is about to be written. This operation will overwrite the original data of the ECU. Please ensure that the data is backed up. Whether to continue? Yes No	Write PFlash
		Back

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.

A FC200		ECU 👻 Search	α – Ξ
Brand	model	Engine-gearbox	
Abarth	1 Series(E81)	120d xDrive B47D20A 190	 Setting
Aebi	1 Series(E82)	■ 120d xDrive N47D20C 184	Platform
Alfa Romeo	1 Series(E87)	120i N13B16A 177	
Artec	1 Series(E88)	125d B47D20B 224	OBD
Aston	E 1 Series(F20)	125d N47D20D 218	Data process
Aston Martin	1 Series(F21)	125i N20B20A 218	Data process
Audi	2 Series(F22)	1998 B48B20A 184	
MW	2 Series(F23)	3000 B58B30A 340	
Baic	2 Series(F45)	M 135i N55B30A 320	
Bentley	2 Series(F46)	M 135i N55B30A 326	E
Bugatti	2 Series(F87)	M 135i xDrive N55B30A 320	
CASE	3 Series(E90)	M 135i xDrive N55B30A 326	
CASE Tractors	2 Series(E01)		-
Can-Am	ECU		
Caterpillar	BMW MG1CS003 SPC5777		
Chang An			
Chery			
Chevrolet			
Chrysler			
Citroen			Bosch Search
DS			
Dacia			Firmware upgra
Dallara			Check for updat
Deutz			
Dodge			license
Ducati	_		help

4.1.2 Identifying ECU

BMW >> BMW_BOSCH_MG1CS003_B48/B58	- e
sion:0005	Wiring diagr
D is connecting	
D KWP-CAN 500kbps connection successfully	Identificatio
WWBATR9101JLC54774	
K 01 [2016/12/08]	Read ISN
/EL_0000307E_003_019_011	icua isi
/AP_00003083_255_255_255	Recovery co
LD_00003084_000_001_032	Recovery co
/FL_00003081_080_021_002	
/FK_000043EE_080_021_001	
IKN_FFFFFFF_255_255_255	
K 02 [2017/03/31]	
/EL_0000307E_003_019_011	
/AP 00003083 255 255 255	
D 00003084 000 001 032	
IFL_00003081_070_005_004	
/FK 0000340D 070 005 004	
K 03 [2017/11/19]	
/EL_0000307E_003_019_011	
VAP 00003083 255 255 255	
LD_00003084_000_001_032	
/FL_00003081_070_005_004	
/FK_000043EE_070_005_012	
K 04 [2016/12/08]	
/EL 0000307E 003 019 011	
VAP 00003083 255 255 255	
D_00003084_000_001_032	
/FL 00003081 080 021 002	
/FK_000043EE_080_021_001	
K 05 (2020/01/09)	
/EL 0000307E 003 019 011	
VAP_00003083_255_255_255	
D 00003084 000 001 032	
/FL 00003081 080 021 002	
FK 000043EE 080 021 001	
	Back

4.1.3 Reading ISN

VK 05 [2020/01/09]		Wiring diage
WEL_0000307E_003_019_011 WAP 00003083 255 255 255		
TLD_00003084_000_001_032		Identificati
WFL 00003081 080 021 002		
WFE_00003081_080_021_002 WFK_000043EE_080_021_001		Read ISN
		L
BD is connecting		Recovery co
BD KWP-CAN 500kbps connection successfully		
IN:WBATR9101JLC54774		
VK 01 [2016/12/08]		
WEL_0000307E_003_019_011		
VAP_00003083_255_255_255		
LD_00003084_000_001_032		
/FL_00003081_080_021_002		
VFK_000043EE_080_021_001		
IKN_FFFFFFF_255_255_255 K 02 [2017/03/31]	Prompt ×	
VEL 0000307E 003 019 011		
WAP_00003083_255_255_255	即降藥程DME,清漆保汽车有足够电量(至少能保持20分钟),编程过程中请不	
TLD_00003084_000_001_032	の 期時 开始 電力 手 に 構成 の に す の に の の に の の に の の に の の に の の の の	
WFL_00003081_070_005_004	外关闭或电脑意外关机。请保持设备与汽车的连线20分钟以上,以便设备完成	
WFK_0000340D_070_005_004	编程操作。	
VK 03 [2017/11/19]		
WEL_0000307E_003_019_011		
WAP 00003083 255 255 255	補定	
TLD 00003084 000 001 032		
VFL 00003081 070 005 004		
VFK 000043EE 070 005 012		
/K 04 [2016/12/08]		
VEL_0000307E_003_019_011		
VAP_00003083_255_255_255		
LD_00003084_000_001_032		
/FL_00003081_080_021_002		
/FK_000043EE_080_021_001		
/K 05 [2020/01/09]		
WEL_0000307E_003_019_011		
NAP_00003083_255_255_255		
LD_00003084_000_001_032		
WFL_00003081_080_021_002		
WFK_000043EE_080_021_001		

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.

	- e
surery certimetron successionity Flash is being erased	Wiring diagra
Frase Flash successfully	wing daga
rase riash successruiry ilash is being erased	
iash is being erased irase Flash successfully	Identificatio
rase riash successfully ilash is being erased	
	Read ISN
rase Flash successfully	
The ECU is being programmed	Recovery cod
CU programming succeed	
/erifying Flashs	
/erify that Flash is correct	
The ECU is being programmed	
ECU programming succeed	
Ending programming ECU	
Security authentication is in progress	
Safety certification successfully	
Tash is being erased	
rase Flash successfully	
he ECU is being programmed	
CU programming succeed	
/erifying Flashs	
Jerify that Flash is correct	
inding programming ECU	
Prepare the programming ECU	
Security authentication is in progress	
Safety certification successfully	
lash is being erased	
irase Flash successfully	
he ECU is being programmed	
CU programming succeed	
/erifying Flashs	
/erify that Flash is correct	
lash is being erased	
rase Flash successfully	
he ECU is being programmed	
CU programming succeed	
/erifying Flashs	
/erify that Flash is correct	
inding programming ECU	
inding programming ECU	
Reading data	
2%	Back

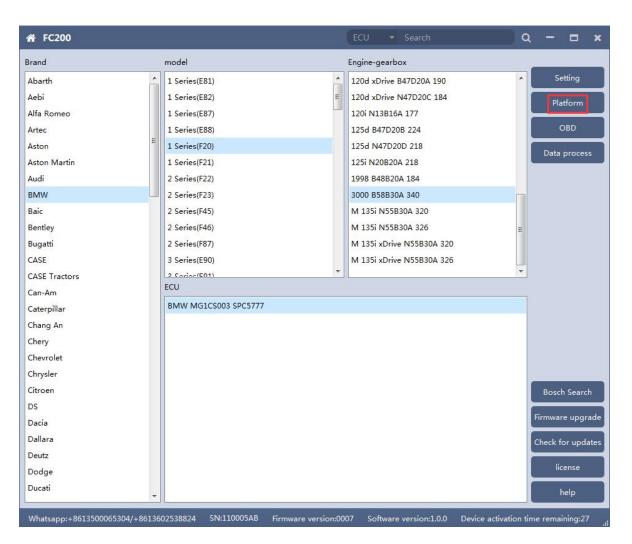
After the programming is completed, if there is a coding file before the ECU programming, the coding recovery will be performed automatically. After programming, the software starts to read data, as shown in the figure above.

ash is being erased	Wiring diagram
ase Flash successfully	wiring diagram
ash is being erased	
as Flash successfully	Identification
ash is being erased	
ase Flash successfully	Read ISN
e ECU is being programmed	
U programming succeed	Recovery code
erifying Flashs	
arify that Flash is correct	
e ECU is being programmed	
U programming succeed	
Inding programming ECU	
curity authentication is in progress	
Ifety certification successfully	
ash is being erased	
ase Flash successfully	
e ECU is being programmed	
CU programming succeed	
erifying Flashs	
arify that Flash is correct	
nding programming ECU	
epare the programming ECU	
curity authentication is in progress	
afety certification successfully	
ash is being erased	
ase Flash successfully	
e ECU is being programmed	
CU programming succeed	
erifying Flashs	
erify that Flash is correct	
ash is being erased	
ase Flash successfully	
e ECU is being programmed	
CU programming succeed	
erifying Flashs	
erify that Flash is correct	
nding programming ECU	
nding programming ECU	
eading data	

Finish reading the ISN.

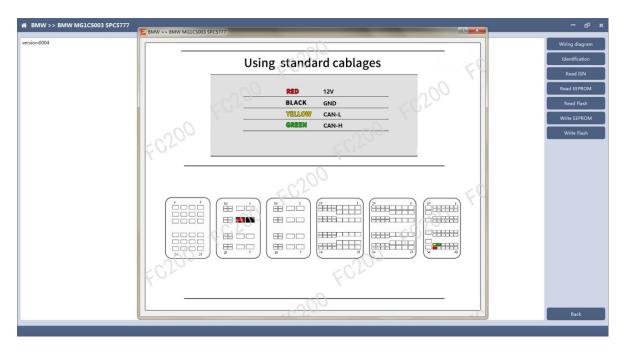
4.2 Read ISN on bench

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.



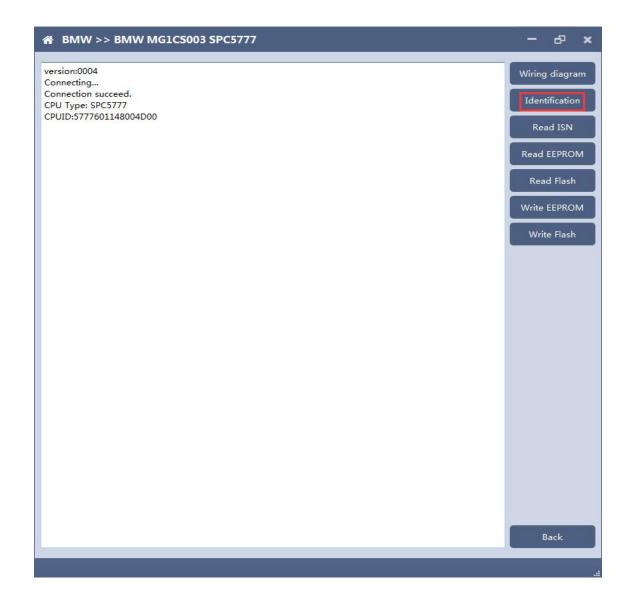
After selecting the correct ECU model, the "Platform" button will appear on the right. As shown in the figure above, click the "Platform" button to enter the ECU operation interface.

4.2.2 View wiring diagram

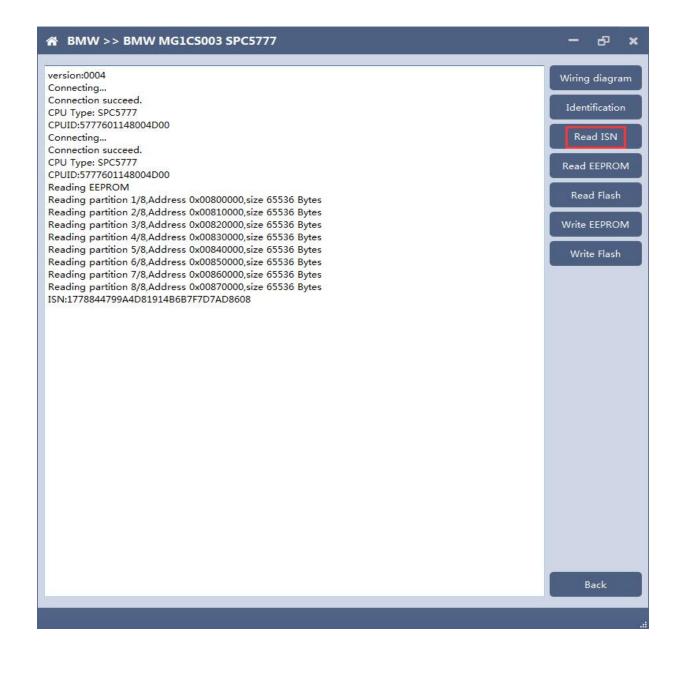


Click the "Wiring Diagram" button to view the ECU wiring diagram, connect the wiring harness correctly according to the wiring diagram, and connect with the device, plug in the device DC12V interface with 12V power supply.

4.2.3 Identifying the ECU



4.2.4 Reading ISN



4.2.5 Reading EEPROM/Flash

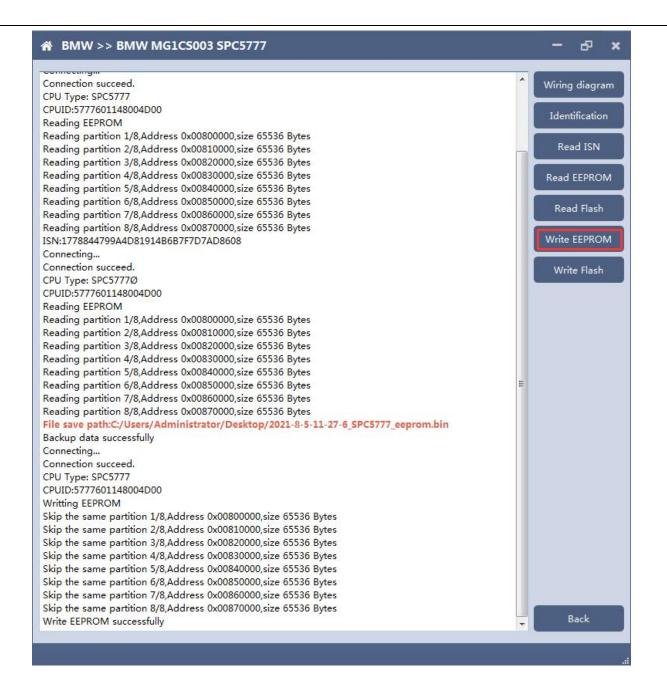
Take reading EEPROM as an example

BMW >> BMW MG1CS003 SPC5777	- 0
rersion:0004	Wiring diagram
Connecting	thing diagram
Connection succeed.	Identification
CPU Type: SPC5777	Identification
CPUID:5777601148004D00	
Connecting	Read ISN
Connection succeed.	
CPU Type: SPC5777	Read EEPRON
CPUID:5777601148004D00	
Reading EEPROM	Read Flash
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	Write EEPRON
Reading partition 4/8,Address 0x00820000,size 65536 Bytes	While EEPKOW
Reading partition 5/8,Address 0x00840000,size 65536 Bytes	(
Reading partition 6/8,Address 0x00850000,size 65536 Bytes	Write Flash
Reading partition 7/8,Address 0x00860000,size 65536 Bytes	
Reading partition 8/8,Address 0x00870000,size 65536 Bytes	
SN:1778844799A4D81914B6B7F7D7AD8608	
Connecting	
Connection succeed.	
CPU Type: SPC5777Ø	
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	
ile save path:C:/Users/Administrator/Desktop/2021-8-5-11-27-6_SPC5777_eeprom.bin	
Backup data successfully	
ackap data successiony	
	Back

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

	~ ^
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	Viring diagram Identification Read ISN Read EEPROM Read Flash Write EEPROM Write Flash
	Back

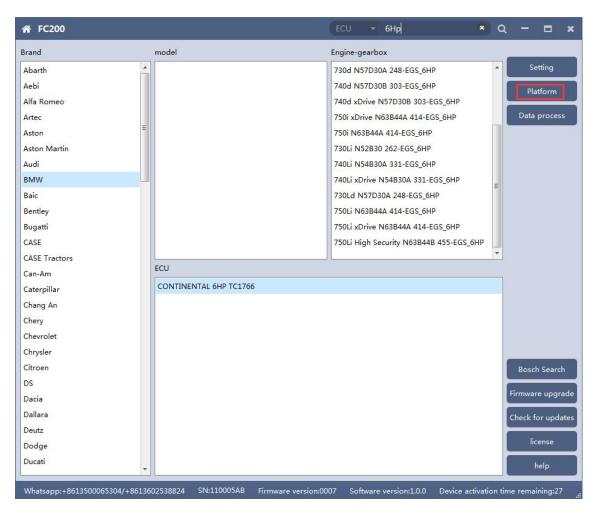


Note: During the data recovery process, it is strictly forbidden to disconnect the power supply or disconnect the device, otherwise it may cause ECU damage; if the software is shut down unexpectedly or the computer is shut down or crashed unexpectedly during the data recovery process, please do not disconnect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

5. 6HP

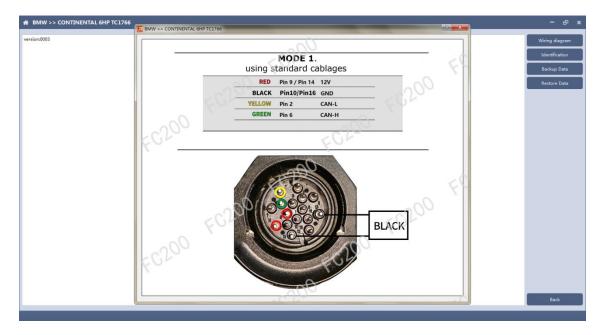
The FC200 currently supports the cloning of 6HP ECUs in BMW F-series (F01, F02, F03).

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



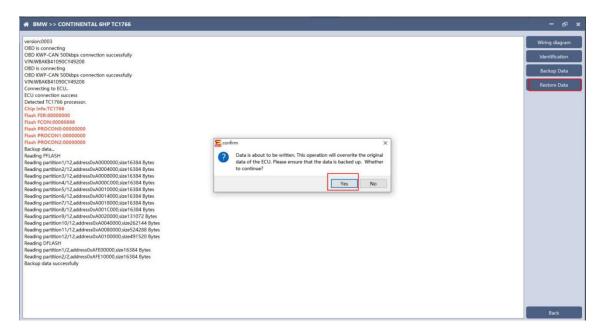
Click the "Identification" button to read the ECU related information, as shown above

5.4 Backup Data

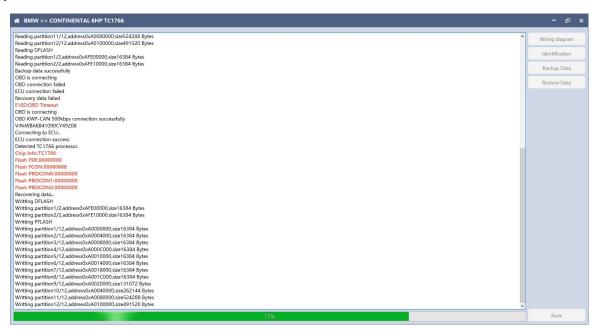
BMW >> CONTINENTAL 6HP TC1766	-
ersion:0003	Wiring diac
IBD is connecting	
DBD KWP-CAN 500kbps connection successfully	Identificat
IN:WBAKB41090CY49208	
BD is connecting	Backup D
BD KWP-CAN 500kbps connection successfully	Backup D
N:WBAKB41090CY49208	
onnecting to ECU	Restore D
CU connection success	
etected TC1766 processor.	
hip Info:TC1766	
ash FSR:0000000	
ash FCON:00060666	
ash PROCON0:0000000	
ash PROCON1:0000000	
ash PROCON2:0000000	
ckup data	
ading PFLASH	
ading partition1/12,address0xA0000000,size16384 Bytes	
partition2/12,address0xA0004000,size16384 Bytes	
and in partition 3/12, address0x40008000,size16384 Bytes	
eading partition4/12,address0xA000C000,size16384 Bytes	
eading partition5/12.address0xA0010000.size16384 Bytes	
ading partition6/12,address0xA0014000,size16384 Bytes	
ading partition7/12,address0x40018000,size16384 Bytes	
ading partition8/12.address0x401C000.size16348 Bytes	
and in participation of 12 address0x40020000 size 15000 bytes	
anding partition10/12,address0xA0040000,ize262144 Bytes	
ading partition11/12_address0xA008000.ize524288 Bytes	
anding partition12/12,address0xA0100000,size491520 Bytes	
and p PLASH	
aading partition1/2,address0xAFE00000,size16384 Bytes	
aading partition/2,address0xAFE10000.size16364 Bytes	
and gar attories z, addresso and E 10000, size 10000 by tes	
	Back

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

5.5 Data Restore



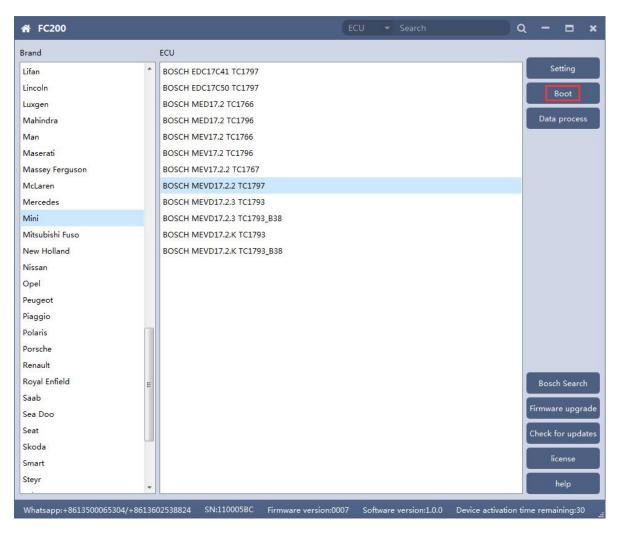
Click "Restore Data" to write the ECU data. Please make sure the data is backed up before writing. The restored data will overwrite the current ECU data. The data can be the data of the current ECU or other ECUs of the same type.



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.

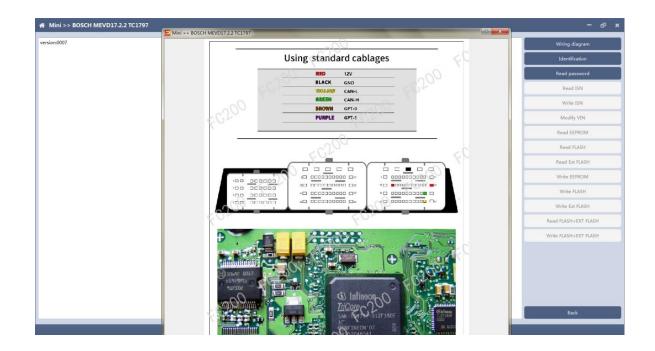
6. BOSCH BOOT(Boot)read and write data

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

version:0007	Wiring diagram
Connecting	
Connection succeed. chip:TC1797	Identification
serial number:418089021800890b740800101114fc00	
Hardware ID:00001820000091010053c00100000000	Read password
Flash0 PROCON0:0000dfff	
Flash0 PROCON1:00000000	Read ISN
Flash0 PROCON2:00008020	ACCES 154
Flash1 PROCON0:00000000	Write ISN
Flash1 PROCON1:0000000	Write ISIN
Flash1 PROCON2:00000000	Modify VIN
	Read EEPROM
	Read FLASH
	Read Ext FLASH
	Write EEPROM
	Write FLASH
	Write Ext FLASH
	Read FLASH+EXT FLA
	Write FLASH+EXT FLA
	Back

6.4 Read password



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

6.5 Read/write Pflash

2.2 TC1797	– 8 ×
800101114fc00 c0010000000 Mease select a password. If you choose to enter manually, please enter 16 characters. Automatic acquisition(Default) Manual input Password or original file loading Next step	Wiring diagram Identification Read password Read ISN Write ISN Write ISN Modify VIN Read ELASH Read FLASH Write EEPROM Write FLASH Write FLASH Write FLASH Write FLASH Write FLASH Write FLASH
	Back
	800101114fc00 co0100000000

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

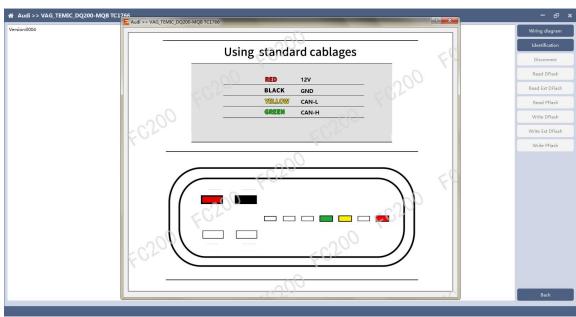
FC-200 currently supports data reading and writing functions of DQ200 and VL381 transmissions of Audi and Volkswagen. DQ200 is taken as an example following.

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.

Brand		ECU	
Abarth		BOSCH MED17.1.21 TC1793	Setting
Aebi		BOSCH MED17.1.27 TC1793S	Platform
Alfa Romeo		BOSCH MED17.1.6 MASTER_SLAVE TC1797	Platform
Artec		BOSCH MED17.1.6 SLAVE TC1797	Data process
Aston	ш	BOSCH MED17.1.6 TC1797	
Aston Martin		BOSCH MED17.1.61 MASTER_SLAVE TC1793	
Audi		BOSCH MED17.1.61 MASTER_SLAVE TC1793S	
BMW	_	BOSCH MED17.1.61 TC1793S	
Baic		BOSCH MED17.1.62 TC1793S	
Bentley		BOSCH MED17.5 TC1766	
Bugatti		BOSCH MED17.5 ver2 TC1766	
CASE		BOSCH MED17.5.1 TC1796	
CASE Tractors		BOSCH MED17.5.2 TC1767	
Can-Am		BOSCH MED17.5.20 TC1766	
Caterpillar		BOSCH MED17.5.21 ver2 TC1782	
Chang An		BOSCH MED17.5.25 TC1782	
Chery		BOSCH MED17.5.5 TC1766	
Chevrolet		BOSCH MED17.5.5_TC1767	
Chrysler		VAG_TEMIC_DL382 TC1784	E
Citroen		VAG_TEMIC_DL501Gen1 TC1766	Bosch Search
DS		VAG_TEMIC_DL501Gen2 TC1784	
Dacia		VAG_TEMIC_DQ200-G2 TC1784	Firmware upgrad
Dallara		VAG_TEMIC_DQ200-MQB TC1766	Check for update
Deutz		VAG_TEMIC_DQ200Dxx TC1766	
Dodge		VAG_TEMIC_DQ250-MQB TC1766	license
Ducati	-	VAG_TEMIC_VL381 TC1766	help

7.2 Check diagram

Connect cables well according software diagram



7.3 Identify ECU

/ersion:0004	Wiring diagram
Connecting	
Connecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment /erify authorization successfully.	Identification
connecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment	
/erify authorization successfully.	Disconnect
Connection succeed.	
CPU : TC1784	Read DFlash
REG SCU_CHIPID:109f0015 REG PFlash0 FSR:0000000	
ICG PFlash PCON:0000706	Read Ext DFlas
TEG PFlash0 PROCON0:00000000	
REG PFlash0 PROCON1:00000000	Read PFlash
REG PFlash0 PROCON2:00000000	
Jnique chip ID:04808b07178084d13408001022000000	Write DFlash
	Write Ext DFlas
	Write PFlash
	Back

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

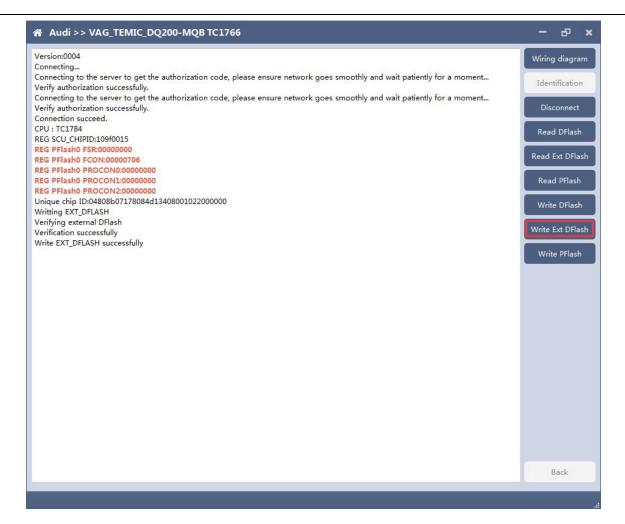
Take reading Dflash as an example:



7.5 Write DFlash、EXT DFlash and PFlash

Take writing EXT-DFlash as an example:

畚 Audi >> VAG_TEMIC_DQ200-MQB TC1766		
Audi >> VAG_TEMIC_DQ200-MQB TC1766 Version:0004 Connecting Connecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment Verify authorization successfully. Connection succed. CPU:17178 REG SCU_CHIPD:109f0015 REG PFlash0 PROCON1:0000000 REG PFlash0 PROCON1:00000000 REG PFlash0 PROCON1:00000000 Unique chip ID:04808b07178084d13408001022000000 Reading partition 1/2,Address 0xh File save pathc://Users/Adminis/Backup data successfully. Out is a bout to be written. This operation will overwrite the original data of the ECU. Please ensure that the data is backed up. Whether to continue? Version:	Wiring diago Identification Disconnect Read DFlat Read Ext DF Read PFlat Write Ext DF Write PFlat	ct sh Sh sh
	Back	



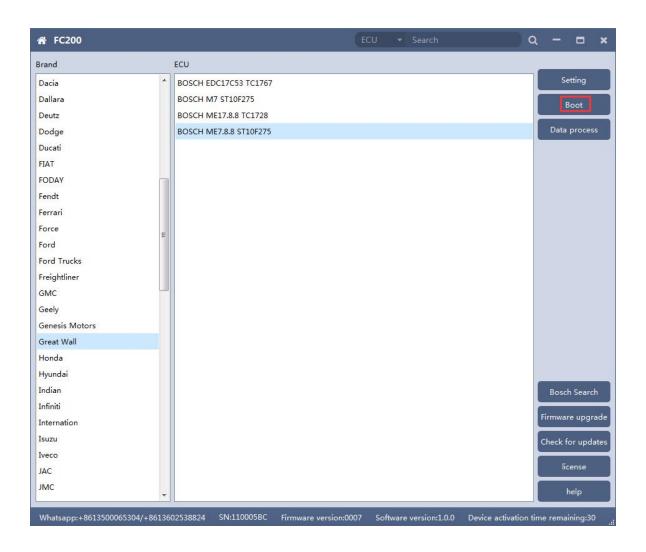
Back up original data before writing flash.

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

FC-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.



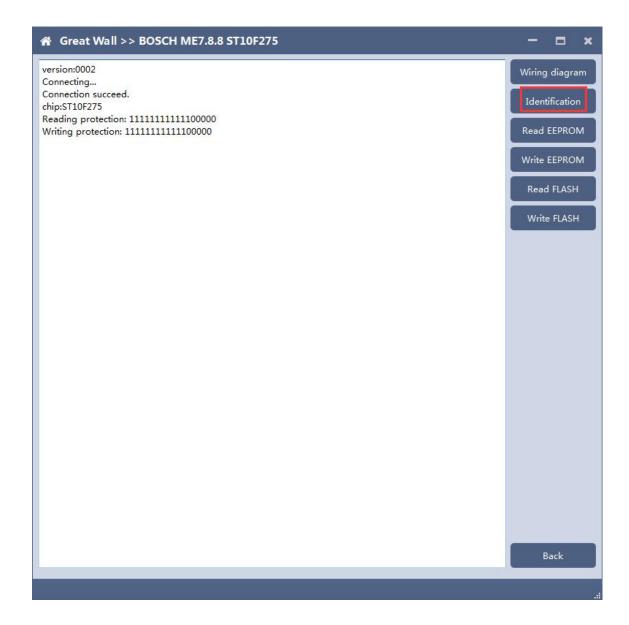
8.2 Check diagram

Connect the cables according to software diagram.

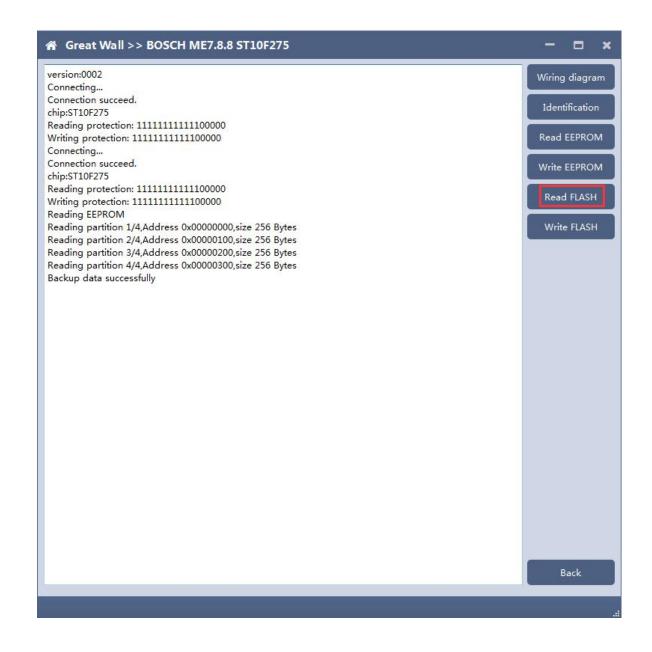
Note:Password reading is the password reading connection, and bootloader reading is the boot mode connection.

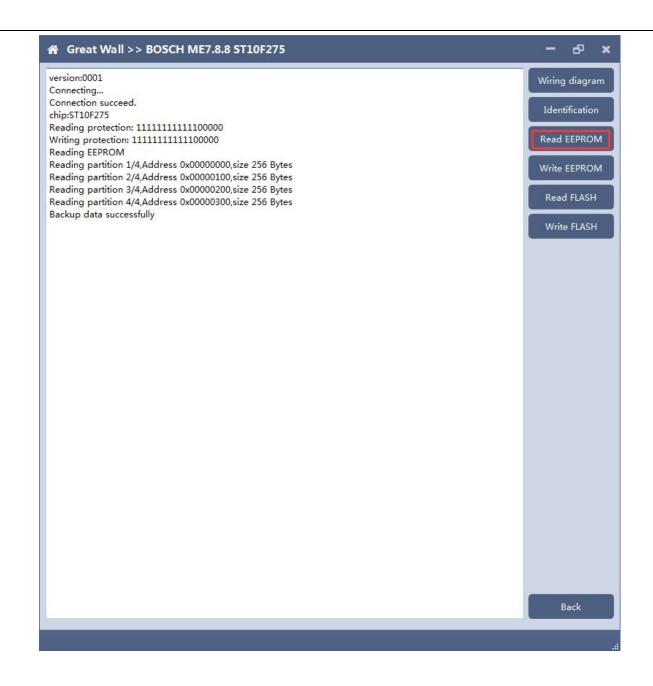
500	Great Wall >> BOSCH ME7.8.8 ST10F275	Wiring die
		Identifice
	Using standard cablages	Read EEP
	RED 12V	Write EEP
	BLACK GND BROWN GPT-0	Read FL
	PUBPLE GPT-1	Write FL
	X053h/z K-KLINE	
	FUE	
	620000000000000044	
	EG20	
	K	
	「生まい」は日本語を見ていた。	

8.3 Identification



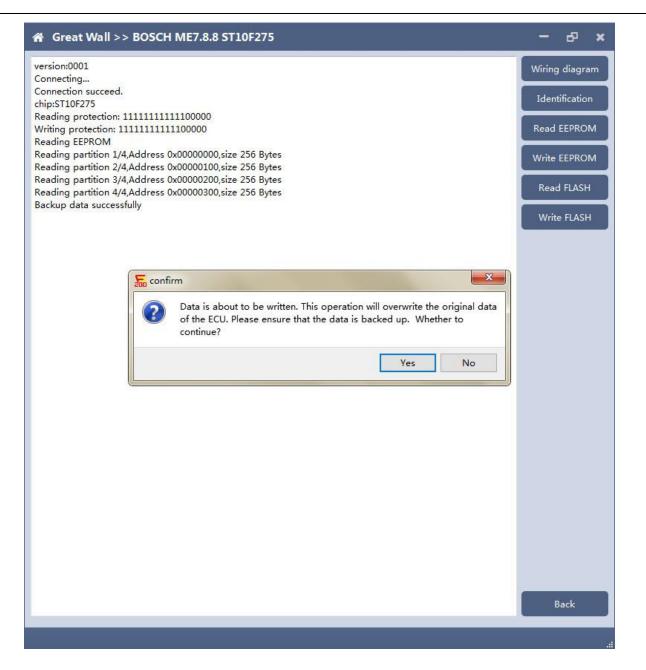
8.4 Read EEPROM and FLASH





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

₭ FC200			ECU	J 🥆 Search	 λ — Ξ
Brand	ECU				
Abarth	BOSCH N	MED17.7.5 TC1793			Setting
Aebi					Data process
Alfa Romeo					
Artec					
Aston					
Aston Martin					
Audi					
BMW					
Baic					
Bentley					
Bugatti					
CASE					
CASE Tractors					
Can-Am					
Caterpillar					
Chang An					
Chery					
Chevrolet					
Chrysler					
Citroen					Bosch Search
DS					
Dacia					Firmware upgra
Dallara					Check for upda
Deutz					
Dodge					license
Ducati					help

9.2 Select operation type

Choose function need to be operated

MED17/EDC1	7 data process tool		– & ×
ECU type: VIN: Anti-theft: version:0002	MEDC17 a Turn Reset VAC	ype Audi / siet / Skoda / Volkswagen anti theft system Off TPROT 3 Flash Counter Back	Load DFlash(EEPRO M) file Load PFlash file Parse data Save File
			Back

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

🏦 Anti theft da	ta processing of Audi / siet /	Skoda / Volkswa	gen	– e ×
ECU type:	Anti-theft type: CS:	Status:	New	Load DFlash(EEPRO M) file
Anti-theft:	MAC:	PIN:	· ·	Load PFlash file Parse data
Load DFlash (EEPROF Loading PFlash Load path:C:/Users/A	dministrator/Desktop/FC200 data/1/ M) successfully dministrator/Desktop/FC200 data/ 7_33333333_TC1797_PFlash.bin	1/2020-4-8-14-6-29_T	°C1797_DFlash.bin	Save File
				Back

9.3.2 Parsing data

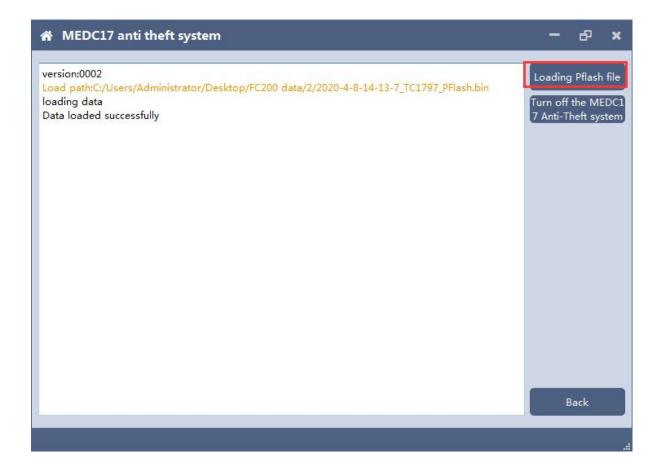
in Anti t	theft data proces	sing of Audi	/ siet / Skoda / V	olkswa	gen	- e ×
ECU type:	MED17	Anti-theft type:	generation anti-theft			Load DFlash(EEPRO M) file
VIN:	WCM7A34DC145868	CS:	8F2ACD35A05700	Status:	Matched 👻	Load PFlash file
Anti-theft:		MAC:	6EF79115	PIN:	42981	Parse data
Load path: Load DFlas Loading PF Load path: 1/1/2020-4 Load PFlas Parsing dat	C:/Users/Administrato -8-14-13-7_33333333 h successfully	ully nr/Desktop/FC20	0 data/	14-6-29_	FC1797_DFlash.bin	Save File
						Back

9.3.3 Modify the data and save the file

in Anti t	theft data proces	sing of Audi	/ siet / Skoda / Vo	olkswa	gen			æ	×
Load path: Load DFlas Loading PF Load path: 1/1/2020-4 Load PFlas Parsing dat	WCM7A34DC145868)2 Flash (EEPROM) C:/Users/Administrato h (EEPROM) successful lash C:/Users/Administrato -8-14-13-7_33333333 h successfully	CS: MAC:		Status: PIN:	Matched 111111 C1797_DFlash.b	in	Load P Pars) file	file
							в	ack	
ri.									

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

A MEDC17 at	nti theft system	- 6 ×
version:0002 Load path:C:/User loading data Data loaded succe Turning off anti-th		Loading Pflash file Turn off the MEDC 7 Anti-Theft system
Save	• • • • •	<u>搜索 计算机</u>
	· · · · · · · · · · · · · · · · · · ·	
 ♪ 音乐 ▲ 家庭组 	▲ 硬盘 (3) 本地磁盘 (C:) 23.9 GB 可用,共 100 GB → 19.8 GB 可用,共	99.0 GB
 ▶ 计算机 ▲ 本地磁盘 (C:) → 本地磁盘 (D:) → 本地磁盘 (E:) ▲ WPS网盘 	本地磁盘 (E:) 14.0 GB 可用 , 共 99.0 GB ▲ 有可移动存储的设备 (1) DVD RW 驱动器 (F:)	
📭 网络 🗸	▲ 甘他 /1\	
文件名(N): 2021 保存类型(T): BIN(*	8-4-18-9-41_IMMO_OFF .bin)	
🔒 隐藏文件夹	(保存(S) 取消

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 .

🐔 Turn Off TPR	т		- 8 ×
ECU type: VIN: Anti-theft:	Anti-theft type: CS: MAC:	Status: New PIN:	Load DFlash(EEPRO M) file Load PFlash file Parse data
(BOSCH)BMW/M		6 MEDC17 series MEVD17/EDC17 series EDC17 _MED(G) 17 series Back	Save File
			Back

9.5.2 Load PFLASH data

A Turn Off TPROT	-	ð	×
version:0002 Load path:C:/Users/Administrator/Desktop/FC200 data/2/2020-4-8-14-13-7_TC1797_PFlash.bin loading data Data loaded successfully	Loading Turn of		=
	Ва	ick	

9.5.3 Close TPROT and save the file.

