FC200 User Manual

1. How to use FC200 Software?

Below picture showing software version and information of CG FC200.

☆ FC200		ECU - Search	Q - 🗆 🗙
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 Carlor(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	502538824 SN:110005AB Firmware version	n:0007 Software version:1.0.0 Device activatic	on time remaining:27

The functions on the right 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: Simplified Chinese, Traditional
	Chinese, English, French ,Polish, and Spanish
Font Size:	Enter the font size (the larger the number is, the larger
	the font will be) Range: 8-20
Oisplay Method	Select category display and merge display

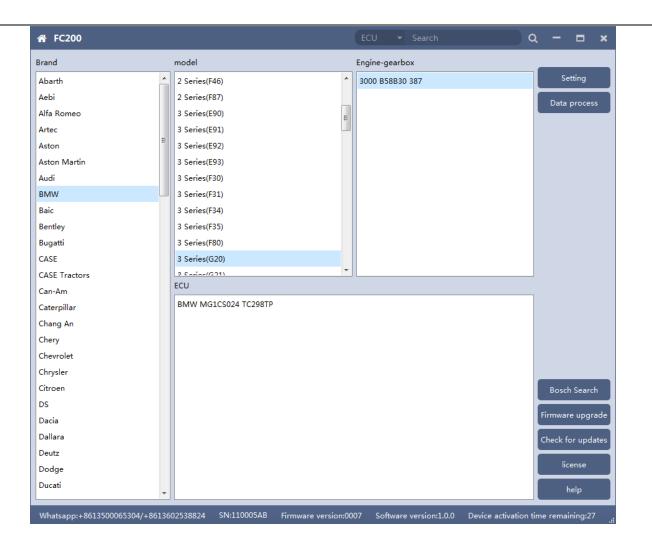
• **Display Method:** Select category display and merge display

• **Display Style:** Blue-gray and dark blue

A FC200			EC	U 🔻 Search	ļ
Brand	model		Engi	ne-gearbox	
Abarth	2 Series(F46)		^ 300	0 B58B30 387	
Aebi	2 Series(F87)				
Alfa Romeo	3 Series(E90)		=		
Artec	3 Series(E91)				
Aston	3 Series(E92)				
Aston Martin	3 Series(E93)				
Audi	🕋 Setting			×	
BMW	Languaga	English			
Baic	Language:	English			
Bentley	Wiring diagram:	Show thumbna	ils in the out	out window	
Bugatti	font size:	9		8-20	
CASE	iont size:	9		8-20	
CASE Tractors	Display Mode:	Category	-		
Can-Am	Display style:	Blue Gray			
Caterpillar	Display style.	-	_		
Chang An		Appl	/		
Chery					
hevrolet					
Chrysler					
litroen					
S					
Dacia					
Dallara					
Deutz					
Dodge					
Ducati					

1.1.1 Display Method

Select category display



☆ FC200		ECU 🝷 Search	Q - 🗆 🗙
Brand	ECU		
Abarth	BMW MG1CS003 SPC5777		▲ Setting
Aebi	BMW MG1CS024 TC298TP		Data process
Alfa Romeo	BMW MG1CS201 TC298TP		
Artec	BOSCH EDC17C06 TC1766		
Aston	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 upgrade
Dallara	BOSCH MEVD17.2.6 TC1797_N55		Check for updates
Deutz	BOSCH MEVD17.2.8 TC1797		
Dodge	BOSCH MEVD17.2.9 TC1797		license
Ducati	BOSCH MEVD17.2.9 TC1797_N20		- help
Whatsapp:+8613500065304/+8613	602538824 SN:110005AB Firmware version:0	0007 Software version:1.0.0	Device activation time remaining:27

1.2 Device Authorization

FC200 software requires authorization before use

Olick Authorization Information button on the main interface to view
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the authorization list

©Click the Update Authorization button

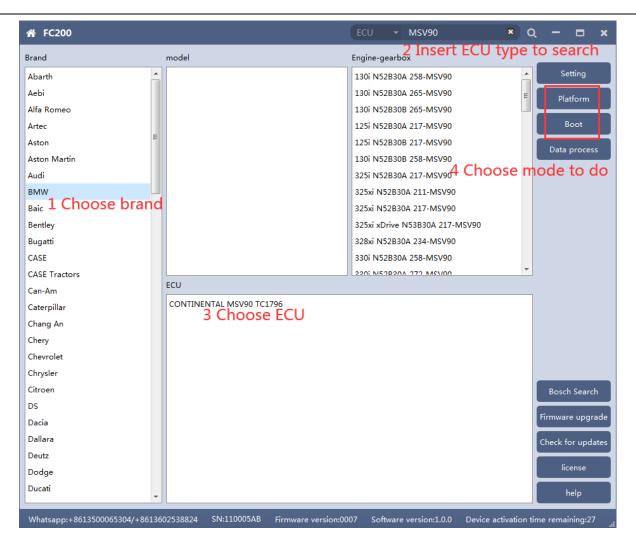
Brand		ECU						
Abarth	BMW MG1CS003 SPC5777							Setting
Aebi		BMW MG1CS02	4 TC298TP				ſ	
Alfa Romeo		BMW MG1CS20	1 TC208TD					Data process
Artec	🕋 Autho	orize				×		
Aston								
Aston Martin	FunctionI	D ID	Function	n name	Authorized	_		
Audi	A100000	0 0	MSD80/81/85/87/MS	/90 Read/Write Data	Yes			
BMW	A100000	1 1	Mercedes SIM271	Read/Write Data	Yes			
3aic	A100000	1 2	Frompt	ta ta	Yes		Ξ	
Bentley	A100000	1 3	Activation suc	vrite ISN	Yes			
Bugatti	A100000	2 0		D)	Yes			
CASE	A100000	3 0	C	ж	Yes			
CASE Tractors	A100000	4 0	DIVIVY F-EGS_OFF	Ready write Data	Yes			
Can-Am Caterpillar	A100000	5 0	N13/N20/N55/B38/TC1	7X Read Data(BENCH)	Yes			
Chang An	A100000	5 1	N13/N20/N55/B38/TC1	7X Write Data(BENCH)	Yes			
Chery	A100000	5 2	Volkswagen Bosch MED	017 series engine clone	Yes			
Chevrolet						-		
Chrysler			Update authorizati	on				
Citroen		BOSCH MEVD17	7.2.3 TC1793_B38					Bosch Search
DS		BOSCH MEVD17	7.2.4 TC1797_N20					
Dacia		BOSCH MEVD17	7.2.5 TC1797_N13					Firmware upgrad
Dallara		BOSCH MEVD17	7.2.6 TC1797_N55					Check for update
Deutz		BOSCH MEVD17	7.2.8 TC1797					
Dodge		BOSCH MEVD17	7.2.9 TC1797					license
Ducati	-	BOSCH MEVD17	7.2.9 TC1797_N20				1	help

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

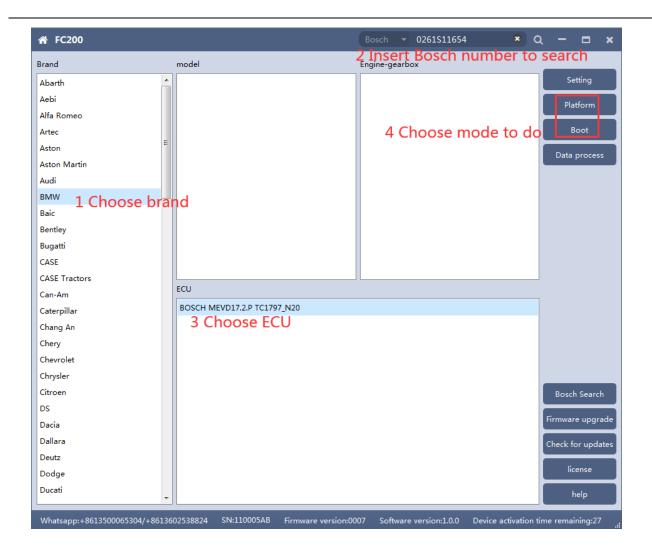
your seller for further help.

1.3 Device search function (frequently-used)

ECU search



Bosch number search



Bosch number query (click "Bosch search")

rand		model		Engine-gearbox		
Abarth	*	1 Series(E81)	•	218d B47D20A 150		Setting
Aebi		1 Series(E82)	=	218d N47D20C 143		
Alfa Romeo		1 Series(E87)		218i B38B15A 136		Data process
Artec		1 Series(E88)		220d B47D20A 190		
Aston	E	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 Corior(E01)	-	220 NICEDON 242 MCDON	-	
Can-Am		ECU				
Caterpillar						
Chang An						
Chery						
Chevrolet						
Chrysler						
Citroen						Bosch Search
DS						
Dacia						Firmware upgra
Dallara						Check for updat
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 be stopped. The MSV90 is used for the description below.

☆ FC200			Bosch 👻 Search) 0	2	-		×
Brand	model		Engine-gearbox					
Abarth	6 Series(G32)	*	730Ld N57D30A 245	-		Sett	ting	
Aebi	7 Series(E65)		730Ld N57D30A 248-EGS_6HP			Platf	orm	
Alfa Romeo	7 Series(E66)		730Li N52B30 258-MSV80	Ξ		T ISICI	onn	_
Artec	7 Series(F01)		730Li N52B30 262-EGS_6HP			Во	ot	
Aston	7 Series(F02)		730Li N52B30A 258-MSV90			Data p	rocoss	
Aston Martin	7 Series(F03)		730Li N52B30A 262-EGS_6HP			Data p	locess	
Audi	7 Series(F04)		730Li N52B30B 258-MSV90					
BMW	7 Series(G11)	E	730Li N52B30B 262-EGS_6HP					
Baic	7 Series(G12)		730Li N58B30 258-MSD80					
Bentley	K 1600 GT(-)		730d N57D30A 245					
Bugatti	M2 Competition(F22)		730d N57D30A 258					
CASE	M2 Competition(F23)		740Li B58B30A 326					
CASE Tractors	P 1200 GCM	Ŧ	7401: NI54020A 226 MCD00	-				
Can-Am	ECU							
Caterpillar	CONTINENTAL MSV90 TC1796							
Chang An								
Chery								
Chevrolet								
Chrysler								
Citroen						Bosch	Search	
DS								-
Dacia					Fin	mware	upgra	de
Dallara					Ch	eck for	r updat	tes
Deutz								
Dodge						lice	nse	
Ducati 👻						he	lp	
Whatsapp:+8613500065304/+86136	02538824 SN:110005AB Firmware versior	n:000	07 Software version:1.0.0 Device activati	on t	ime	remain	ing:27	

After selecting the correct ECU model, the "Platform" button will pop up on the right. As shown in the picture above, click the "Platform" button

to enter the ECU operation interface.

2.2 View wiring diagram

BMW >> CONTINENTAL MSV9	D TC1796	- 19 x
version:000b	1000	Wiring diagram
		Identification
	MODE 1.	Read ISN
	using standard cablages	Write ISN
	RED M1 - Pin 21, 37 +12V	Backup Data
	BLACK M1 - Pin 16 GND	Restore Data
	YELLOW M1 - Pin 48 CAN-L	
	GREEN M1 - Pin 47 CAN-H	
	And	
	120	
		Back

Click the "Wiring Diagram" button to view the ECU wiring diagram, connect the wiring harness correctly according to the wiring diagram, and connect with FC200, plug in DC12V interface of FC200 with 12V power supply.

2.3 Identifying the ECU



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

2.4 Reading ISN



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

Note: This operation needs network connection.

2.5 Backup Data

BMW >> CONTINENTAL M5V90 TC1796	- er
ension:0008	Witing blagram
conecting	
onnection succeed.	Identification
IN:WBAKB2103AC403321	
Ientify:16557AA20000135E	Read (SN)
pe#CMEngineControl	
onnecting onnection succeed.	Write ISN
onnection succeed. INVVDAKE2T03AcC403321	
INVIDANDE (USALAUSSE) INVIDANDE (USALAUSSE) INVIDANDE (USALAUSSE)	Backup Data
ienniji 1697/Azdou01155 DježiČMEngineControl	
presented Buthorization	Restore Data
connecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment	
erify authorization successfully.	
SN:66368F11536ECC129528D579337	
annecting	
onnection succeed.	
N/WBAKB2103AC403321	
dentify:16557AA20000135E	
vpe:ECMEngineControl	
Setting ECU authorization	
onnecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment	
/erify authorization successfully.	
SN:8639E168EBF11536ECC129528D579337	
Connection succeed.	
leading PFLASH	
leading partition1/13.address 0xA0000000.size 16384 Bytes	
leading 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 DxA0010000,size 16384 Bytes	
eading partition6/13,address 0xA0014000,size 16384 Bytes	
eading partition7/13,address 0xA0018000,size 16384 Bytes	
eeding partition8/13 address 0xA001C000.size: 16384 Bytes	
eading partition9/13,address 0xA0020000,size 131072 Bytes eading partition10/13,address 0xA0040000,size 262144 Bytes	
unning har curar rol 1.2 annuae a navanaeanan 2005 reek datab	
	540

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

the data for subsequent use.

Note: This operation needs network connection.

2.6 Data Restore

BMW >> CONTINENTAL MSV90 TC1796		- 61
onnecting		* Writing diagram
nnection succeed. N:WBAKB2103AC403321		Contraction of the local division of the loc
entify:16557AA20000135E		Identification
peECMEngineControl		
nnecting		Read ISN
nnection succeed.		
WBAKB2103AC403321		Write ISN
ntily:16557AA20000135E		
se:ECMEngineControl		Backup Data
tting ECU authorization		
nnecting to the server to get the authorization code, please ensure network goes smoo	thiy and wait patiently for a moment	Restore Data
ify authorization successfully.		1
L8639E168E8F11536ECC129528D579337		
inecting_		
nection succeed.	confirm X	
EWBAK82103AC403321		
ntify:16557AA20000135E e:ECMEngineControl	Data is about to be written. This operation will overwrite the original	
tting ECU authorization	data of the ECU. Please ensure that the data is backed up. Whether	
nnecting to the server to get the authorization code, please ensure network goes am	to continue?	
ify authorization successfully.		
48639E168E8F11536ECC129528D579337	Yes No	
nnection succeed.		
ading PFLASH		
ding partition1/13,address 0xA000000,size 16384 Bytes		
ding partition2/13.address 0xA0004000 size 16384 Bytes		
ding partition3/13,address 0xA0008000,size 16384 Bytes		
ding partition4/13,address 0xA000C000,size 16384 Bytes		
ding partition5/13,address 0xA0010000,size 16384 Bytes		
ding partition6/13.address 0xA0014000.size 16384 Bytes		
ding partition7/13,address 0xA0018000,size 16384 Bytes		
ding partition8/13,address 0xA001C000,size 16384 Bytes		
ding partition9/13.address 0xA0020000.size 131072 Bytes		
ding partition10/13,address 0xA0040000.size 262144 Bytes		
ding partition11/13,address 0xA0080000,size 524288 Bytes ding partition12/13,address 0xA0100000,size 524288 Bytes		
ding partition12/13,address 0xA0100000,size 524288 Bytes ding partition13/13,address 0xA0180000.size 524288 Bytes		
iding DFLASH		
iding partition1/2.address 0xAFE00000 size 65536 Bytes		
ding partition2/2 address 0xAFE10000.size 65536 Bytes		

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 with same type.

BMW >> CONTINENTAL MSV90 TC1796	- 8
N-8639E16688F11536ECC129528D579337 ommettion succeed.	Wing dasgoart
eading PFLASH	fdent/flowDon
eading partition1/13,address 0xA0000000,size 16384 Bytes	(denticification)
eading partition2/13.eddress 0xA0004000.size 16384 Bytes eading partition3/13.eddress 0xA0008000.size 16384 Bytes	Road 15N
eading partition4/13.address 0xA000C000,size 16384 Bytes	Contraction of the second
suding partition5/13.address 0x40010000.size 16384 Bytes eading partition6/13.address 0x40014000.size 16384 Bytes	Write ISN
eading partitions/13,address 0xA0014000.size 16384 Bytes eading partition7/13,address 0xA0018000.size 16384 Bytes	Backup Data
eading partitionS/13,address 0xA001C000,size 16384 Bytes	
eading partition9/13,address 0xA0020000,size 131072 Bytes	Bevice Data
eading partition10/13,address 0xA0040000,size 262144 Bytes	
eading partition11/13,address 0xA0080000,size 524288 Bytes eading partition12/13.address 0xA0100000.size 524288 Bytes	
eeding partition 12/1 3 diadress UxAV 10000, size 524.col bytes exiding partition 13/13 address UXAV 10000, size 524.28 Bytes	
sading Dartuon Lyn 1, address Udwinardou size szazad bytes eading DELASH	
eading partition1/2,address 0xAFE00000,size 65536 Bytes	
eading partition2/2,address 0xAFE10000.size 65536 Bytes	
ackup data successfully	
onnecting	
onnection succeed.	
IN:WBAKB2103AC403321	
ientify:16557AA20000135E	
ype:ECMEngineControl	
etting ECU authorization	
onnecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment	
enfy authorization successfully.	
N:8639£168£8F11536ECC129528D579337	
onnection succeed.	
initing PFLASH	
/ritting partition1/13,address 0xA0000000,size 16384 Bytes	
/ritting partition2/13,address 0xA0004000,size 16384 Bytes	
Vitting partition3/13;address 0xA0008000;size 16384 Bytes	
/ritting partition4/13,address 0xA000C000,size 16384 Bytes	
/ritting partition5/13,address 0xA0010000,size 16384 Bytes	
/ritting partition6/13,address.0xA0014000,size 16384 Bytes	
/ritting partition7/13,address 0xA0018000,size 16384 Bytes	
hitting partition8/13;address.0xA001C000,size 16384 Bytes	
htting partition9/13,address 0xA0020000,size 131072 Bytes	*
8%	Dark

Note: During the process of data recovery, please do not disconnect the device power or disconnect the device, otherwise, the ECU may be damaged.

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 supply or device Connect for 15 minutes, and the device can complete data recovery independently.

3. N13/N20/N55/B38/TC17X

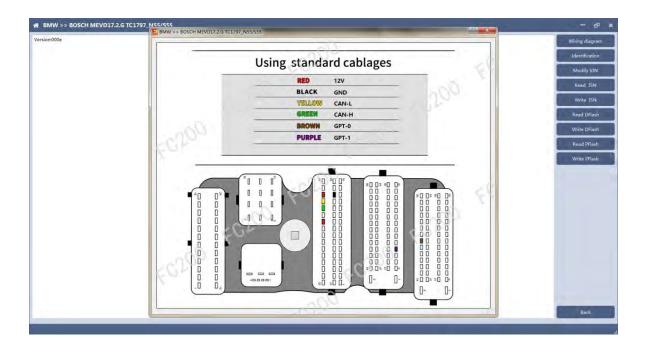
The FC200 currently supports ISN read / write, VIN modification, and data read / write functions for the N13 / N20 / N55 / B38 / TC17X F series chassis of BMW models.

3.1 Determine the ECU type according to the vehicle model, and select the correct model, otherwise, it will not be operated normally. Take N55 as an example:

🖌 FC200				Bosch 🔻 Search	a – 🗖
Brand		model		Engine-gearbox	
Abarth		1 Series(E81)	<u>^</u>	225d B47D20B 224	 Setting
Aebi		1 Series(E82)	=	225d N47D20D 218	Platform
Alfa Romeo		1 Series(E87)		228i N20B20A 242	
Artec		1 Series(E88)		228i N20B20A 245	Boot
Aston	E	1 Series(F20)		228i N26B20A 243-MSD80	Data process
Aston Martin		1 Series(F21)		228i N26B20A 243-MSV80	Data process
Audi		2 Series(F22)		228i N26B20O0 245	
BMW		2 Series(F23)		228i xDrive N20B20A 242	
Baic		2 Series(F45)		228i xDrive N26B20A 243-MSV80	=
Bentley		2 Series(F46)		228i xDrive N26B20O0 245	
Bugatti		2 Series(F87)		M 235i N55B30A 326	
CASE		3 Series(E90)		M 235i xDrive N55B30A 326	
CASE Tractors		2 Corior(E01)	-		•
Can-Am		ECU			
Caterpillar		BOSCH MEVD17.2.G TC1797_N55/S	55		
Chang An					
Chery					
Chevrolet					
Chrysler					
Citroen					Bosch Search
DS					
Dacia					Firmware upgra
Dallara					Check for upda
Deutz					
Dodge					license
Ducati					help

After selecting the correct ECU model, the "Platform" button will pop up on the right. As shown in the picture 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 FC200, plug in DC12V interface of FC200 with 12V power supply.

3.3 Identify the ECU



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

3.4 Reading ISN

Version:0008 Connecting-Inscreted Connecting-Inscreted Connection-Inscreted Charler 100:0000291000000105530001055300010553001 Head DROCCAR-00004HF Handle DROCCAR-00004HF Head DROCCAR-00004HF Handle DROCCAR-000004HF Head DROCCAR-00004HF Handle DROCCAR-000004HF Head DROCCAR-00004HF Handle DROCCAR-000004HF Head DROCCAR-000004HF Handle PROCCAR-000004HF Head DROCCAR-000004HF Handle PROCCAR-000004HF Head DROCCAR-000004HF Handle PROCCAR-000004HF Head DROCCAR-000004HF Handle PROCCAR-000004HF Head DROCCAR-00000000 Handle PROCCAR-000004HF Head DROCCAR-00000000 Handle PROCCAR-000004HF Head DROCCAR-00000000 Handle PROCCAR-00000000 Head DROCCAR-00000000 Handle PROCCAR-00000000 Head DROCCAR-00000000 Handle PROCCAR-00000000 <	- 61 x
Connection succeed. highCT377 serial number /14005002405/83740800101140000 Hawbare IbD002018000001053001c053001c053001 Flawb PBCCON-000001HF Flawb PBCCON-000000HF Flawb PBCCON-000000HF Flawb PBCCON-000000HF Flawb PBCCON-000000HF Flawb PBCCON-000000HF Flawb PBCCON-000000HF Flawb PBCCON-000000HF Flawb PBCCON-00000HF Flawb PBCCON-0000HF Flawb PBCCON-00000HF Flawb PBCCON-0000HF Flawb PBCCON-0000HF Flawb PBCCON-0000HF Flawb PBCCON-0000HF Flawb PBCCON-0000HF Flawb PBCCON-0000HF Flawb PBCCON-00000HF Flawb PBCCON-0000HF Flawb PBC	Wiring diagram
ehip1C1797 serial number410050500240/c087400001011140000 Hardware ID0191000021800001e0550001E05500 FalsoP RPCCON-00000HF FalsoP RPCCON-0000HF FAlsoP RPCCON-000HF FAlsoP RPCCON-000HF FAlsoP RP	
serial number/18005002040c83740800101140000 Hawbar BOCCNI-000001850001c053001c05500 Hawb BOCCNI-000001850001c053001c05500 Hawb BOCCNI-00000000 Hawb BOCCNI-00000000 Hawb BOCCNI-00000000 Gameting. Cometing. C	Identification
Hardware IDD191000201800001c0530001c053001 Hardware IDD1910002018000006 Flaxib PROCON100000000 Flaxib PROCON100000000 Flaxib PROCON200000 Flaxib PROCON200000 Flaxib PROCON200000 Flaxib PROCON200000 Flaxib PROCON200000 Flaxib PROCON2000000 Flaxib PROCON2000000 Flaxib PROCON2000000 Flaxib PROCON200000000000000000000000000000000000	
Flasb PBCCON:00000HF Flasb PBCCON:00000H Flasb PBCCON:000000H Flasb PBCCON:000000H Flasb PBCCON:00000H Commeting	Modify VIN
Flaidb PROCON1:0000000 Flaidb PROCON1:0000000 Flaidb PROCON2:00000HF Flaidb PROCON2:000000 Flaidb PROCON2:0000000 <	
Flasho BROCON2:000000 Flasho FROCON2:000000 Flash FROCON1:0000000 Flashi FROCON1:0000000 Connection succeed. Christian Structure chipt CT?97 Flashi FROCON1:0000000:0000 Flasho FROCON2:000000 Flasho FROCON2:00000:0000 Flasho FROCON2:000000:00000:00000:000000:000000 Flasho FROCON2:0000000 Flasho FROCON2:0000000 Flasho FROCON2:00000000 Flasho FROCON2:0000000 Flasho FROCON2:0000000 Flasho FROCON2:0000000 Flasho FROCON2:00000000 Flasho FROCON2:00000000	Read ISN
Flack1 FROCON1:0000000 Flack1 FROCON1:0000000 Connections succeed.	1
Fauch TROCON2:0000000 Connecting	Write ISN
Connectionsusceed. chip/CT/97 sectar numbers/10005902409c887400001011140000 Hardwer DD1910000201000001c0530001c05500 Flash0 PROCONL0000000H Flash0 PROCONL0000000H Flash1 PROCONL000000H Flash1 PROCONL00000H Flash1 PROCONL0000H Flash1 PROCONL0000H Flash1 PROCONL0000H Flash1 PROCONL0000H Flash1 PROCONL0000H Flash1 PROCONL0000H Flash1 PROCONL0000H Flash1 PROCONL0000H Flash1 PROCONL000H Flash1 PROCONL000H Flash1 PROCONL000H Flash1 PROCON	The second s
Connection succeed. chpitC1797 serial number/180059924092837400001013140000 Handware [J01910002018030001c053001c05500 Flands PROCONI:0000001ff Flands PROCONI:0000000ff Flands PROCONI:0000000ff Flands PROCONI:0000000f Flands PROCONI:0000000f Flands PROCONI:0000000f Flands PROCONI:0000000f Flands PROCONI:0000000f Flands PROCONI:0000000f Flands PROCONI:00000007 Flands PROCONI:00000007 Flands PROCONI:00000007 Flands PROCONI:00000007 Flands PROCONI:00000007 Flands PROCONI:00000007 Flands PROCONI:00000007 Flands PROCONI:00000007 Flands PROCONI:00000007 Flands PROCONI:0000007 Flands PROCONI:00000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:000007 Flands PROCONI:000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:0000007 Flands PROCONI:000007 Flands PROCONI:000007 Flands PROCONI:00007 Flands PROCONI:00000	Read DFlash
cheji CT 272 chia Tumbar 100050902A09c837400001011140000 Hand Wave IDx191000020140530001c053001 Fand PROCONI-00000001 Fand PROCONI-00000000 Fand PROCONI-00000000 Fand PROCONI-00000000 Fand PROCONI-00000000 Rading partition 1/2,Address 0x4FE0000,ize 32768 Bytes Reading partition 1/2,Address 0x4FE0000,ize 32768 Bytes	Write DFlash
serial number A18005995243045837408021011340000 Handware (X01910002018300001c0530011c05500 Flands PROCON10000001ff Flands PROCON100000001ff Flands PROCON100000000f Flands PROCON1000000007 Flands PROCON1000000007 Flands PROCON1000000007 Flands PROCON1000000007 Flands PROCON1000000007 Flands PROCON100000007 Flands PROCON10000007 Flands PROCON10000007 Flands PROCON10000007 Flands PROCON1000007 Flands PROCON10000007 Flands PROCON1000007 Flands PROCON1000007 Flands PROCON1000007 Flands PROCON1000007 Flands PROCON10000007 Flands PROCON10000007 Flands PROCON10000007 Flands PROCON10000007 Flands PROCON1000007 Flands PROCON10000007 Flands PROCON10000007 Flands PROCON10000007 Flands PROCON1000007 Flands PROCON1000007 Flands PROCON1000007 Flands PROCON1000000	Write Driash
Hardware (Dx01910000201800001+0530001+05500 Flaw0 PB0CON1:00000000 Flaw1 PB0CON1:00000000 Flaw1 PB0CON1:00000000 Flaw1 PB0CON1:00000000 Flaw1 PB0CON1:00000000 Rading partition 1/2,Address 0xAFE00000,ize 32768 Bytes Reading partition 1/2,Address 0xAFE00000,ize 32768 Bytes	Read PElash
Flamb PROCON:00000fff Flamb PROCON:0000000 Flamb PROCON:000000ff Flamb PROCON:00000ff Flamb PROCON:000000ff Flamb PROCON:000000f Reading partition 1/2,Address 0x4FE00000,izer 32768 Bytes	ranadi rinasin
Fasho PBOCON1:0000000 Fasho PBOCON1:0000000 Fasho PBOCON1:00000000 Fashi PROCON1:00000000 Fashi PROCON1:00000000 Rading partition 1/2,Address 0xAFE00000,size 32768 Bytes Reading partition 1/2,Address 0xAFE00000,size 32768 Bytes Reading partition 1/2,Address 0xAFE00000,size 32768 Bytes Reading partition 1/2,Address 0xAFE00000,size 32768 Bytes	Write PElash
Flash 0 PROCONE:0000820 Flash 1 PROCONI:0000000 Flash 1 PROCONI:0000000 Flash 1 PROCONI:0000000 Reading partition 1/2,Address 0xAE00000,size 32768 Bytes Reading partition 2/2,Address 0xAE00000,size 32768 Bytes Reading partition 2/2,Address 0xAE00000,size 32768 Bytes	write Pressi
Fainh 1 BROCCNI:10000000 Flaich 1 RROCCNI:10000000 Raiding OFLASH Reading partition 1/2,2Address 0xAFE00000,ize 32768 Bytes Reading partition 2/2,Address 0xAFE00000,ize 32768 Bytes Reading partition 2/2,Address 0xAFE10000,ize 32768 Bytes	
Paint PROCON1:0000000 Paint PROCON2:0000000 Reading PLASH Reading partition 1/2/address 0xAFE00000.jsce 32768 Bytes Reading partition 2/2 Address 0xAFE10000.isce 32768 Bytes Nor178/772/03860702677011FSARC/F3	
Reading DFLASH Reading partition 1/2/Address 0xAFE00000,size 32768 Bytes Reading partition 2/2 Address 0xAFE10000,size 32768 Bytes INX17807E7220380072877011FSAAEC/F3	
Reading partition 1/2/Address 0x/FE00000;tize 32F68 Bytes Reading partition 2/2/Address 0x/FE10000;tize 32F68 Bytes INNTR0FFZ200800028770115AAACF78	
Reading partition 2/2/Address 0xAFE10000;stcs 32768 Bytes ISN:17807E72208360702677011F5AAEC7F3	
ISN:178D7E72208360702677011F5AAEC7F3	
Read ISN successfully.	
	Back

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

Hardware ID:019100002018000001c0530001c05500		* Wining diagram
Finano PROCONO:0000dfff		syning diagram.
Flash0 PROCON1:00000000		Identification
Flash0 PROCON2:00008920 Flash1 PROCON0:0000dfff		
Hash1 PROCOND:00000000		Modify VIN
Flash1 PROCON2:00000000		Read ISN
Connecting		Trans and
Connection succeed. chip:TC1797		Write ISN
serial number:4180050902409c887408001011140000		
Hardware ID:019100002018000001c0530001c05500		Read DFlash
Flash0 PROCON0:0000dfff Flash0 PROCON1:00000000		Write DFlash
Hash0 PROCON2:00008020	Fig. Please Input ? X	
Flash1 PROCOND:0000dfff	Do Please Input ? ×	Read PFlash
Flash1 PROCON1:00000000		Write PFlash
Flash1 PROCON2:00000000 Reading DFLASH	Original ISN: 178D7E72208360702677011F5AAEC7F3	Write Priasi
Reading partition 1/2.Address 0xAFE00000,size 32768 Bytes		
Reading partition 2/2,Address 0xAFE10000,size 32768 Bytes	New ISN: Please enter a new 32-bit ISN	
ISN:178D7E72208360702677011F5AAEC7F3		
Read ISN successfully. Connecting		
Connection succeed.		
chip:TC1797		
serial number:4180050902409c887408001011140000 Hardware ID:019100002018000001c0530001c05500		
Flash0 PROCON0:0000dfff		
Flash0 PROCON1:00000000		
Flash0 PROCON2:00008020		
Flash1 PROCON0:0000dfff Flash1 PROCON1:00000000		
Hash1 PROCON2:00000000		
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/2020-3-19-16-17-4	TC1797 DFlash.bin	
Backup data successfully		

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	– es x
Flash0 PROCON1:00000000 Flash0 PROCON2:00008020	Viring diagram
Hanno PROCONZ-00008020 Flash TROCONZ-000080##	
Flash PROCONI:0000000	Identification
Fash TROCON20000000	
Reading DFLASH	Modify VIN
Reading partition 1/2 Address 0xAFE00000 size 32768 Bytes	Concernance of the second seco
Reading partition 2/2,Address 0xAFE10000,size 32768 Bytes	Read ISN
ISN:178D7E72208360702677011F5AAEC7F3	
Read ISN successfully.	Write ISN
Connecting	Read DFlash
Connection succeed.	Node Drivish
chip:TC1797 serial number:#180050902409c887408001011140000	Write DFlash
senai number-a rousososo-ausos rausouri ni rausou Hardware (D.019100020218000001c0530011c05500	White Di lasti
Flasho PROCONCIONOCIONI COSSOCI TO SSOCI	Read PElash
Flash0 PROCONI-0000000	
Flash0 PROCON2/00008020	Write PFlash
Flash1 PROCON0:0000dfff	
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 ID:019100002018000001c0530001c05500	
Hardware (b3131000020180000012050001205500 Fash0 PROCON8:00004ff	
Fash0 PROCON1:0000000	
Hash0 PROCON2:00008020	
Flash1 PROCOND:0000dff	
Flach1 PROCON1:0000000	
Flash1 PROCON2:00000000	
Writting DFLASH	
Skip the same partition 1/2,Address 0xAFE00000,size 32768 Bytes	
Skip the same partition 2/2 Address 0xAFE10000, size 32768 Bytes	
Write ISN Successfully.	v Back

Writing successfully.

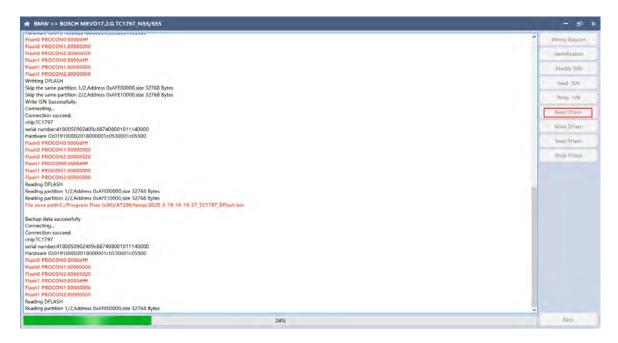
3.6 Modifying VIN

Hardware ID:0191000201800001cd530001cd530001cd530001cd530001cd530001cd530001cd530001cd530001cd530001cd530001cd530001cd530001cd530001cd530001cd53000000000000000000000000000000000000	* Wiring diagram
Hanh PROCON2000001 Flash PROCON2000000 Reading partition 1/2.Address 0u/FE00000,size 32768 Bytes Reading partition 2/2.Address 0u/FE00000,size 32768 Bytes Connecting	
Lan I PECCON0:0000000 Lan I PECCON0:0000000 Lan I PECCON2:00000000 Land I PECCON2:00000000 Land I PECCON2:00000000 Land I PECCON2:0000000 Land I PECCON2:0000000 Land PECCON2:00000000 Land PECCON2:000000000 Land PECCON2:00000000000 Land PECCON2:000000000000000000000000000000000000	Identification
Isan1 PPOCCN4:0000000 adding DPLASH eading partition 1/2 Address 0xAFE10000, size 32768 Bytes eading partition 2/2 Address 0xAFE10000, size 32768 Bytes eading partition 2/2 Address 0xAFE10000, size 32768 Bytes enceting	Modify VIN
san1 PPCCN120000000 san10 prition 1/2Address 0xAFE0000.siz 32768 Bytes sealing prition 2/2Address 0xAFE0000.siz 32768 Bytes le save path:C:/Program Files (x86)/AT200/temp/2020-3-19-16-17-42_TC1797_DFIsek.bin sckup data successfully onnecting schup data successfully onnecting saf0 PROCCN0:00000dm saf0 PROCCN0:0000dm saf0 PROCCN0:00000dm saf0 PROCCN0:00000dm saf0 PROCCN0:00000dm saf0 PROCCN0:00000dm saf0 PROCCN0:00000dm saf0 PROCCN0:00000dm saf0 PROCCN0:00000dm saf0 PROCCN0:0000dm saf0 PROCCN0:000dm s	L or state and
widing DriAAH widing partition 1/2.Address 0xAFE10000,aize 32768 Bytes widing partition 1/2.Address 0xAFE10000,aize 32768 Bytes inccling	Read ISN
Hading partition 1/2,Address 0x4FE00000.siz 32768 Bytes def ave path:C/Program Files (sk8)/AT200/temp/2020-3-19-16-17-42 TC1797_DFlash.bin Exclup def successfully protecting protecti	
Is save path:C:/Program Files (sd8)/AT200/temp/2020-3-19-16-17-42 TC1797_DFlash.bin Exclup data successfully prometing	Write ISN
ckup d48 successfuly pmecting	
onnesting onneston succed. spi7c1737 wital number.4180059902409x887408001011140000 axti0 PROCONI:00000001 sati0 PROCONI:00000001 sati0 PROCONI:00000001 sati1 PROCONI:00000001 sati0 PROCONI:000218000001011140000 antware IDC91100021800000100550001405500 sati0 PROCONI:00000000	Road DFlash
Connection succeed. indivere 10:019002019020902409c887408001011140000 tandb PBCCON1000020180000001:0530001:055000 tandb PBCCON100000000 tandb PBCCON100000000 tandb PBCCON20000000 tandb PBCCON20000000 tandb PBCCON2000000 tandb PBCCON20000000 tandb PBCCON20000000 tandb PBCCON20000000 tandb PBCCON20000000 tandb PBCCON200000000 tandb PBCCON200000000 tandb PBCCON200000000000000000000000000000000000	Write DFlash
hig:TC1797 hig:TC1797 hig:Model Tel:Strand Package Strand Stran	
Insub PPACON00000101011140000 Did VIN: WBAKR010070139094 Isabb PBCCON00000105300011055000 Isabb PBCCON0000010530001105500 Isabb PBCCON00000100530001105500 Isabb PBCCON000005487 Isabb PBCCON00005487 Isabb PBCCON00005487 Isabb PBCCON00005487 Isabb PBCCON00005487 Isabb PBCCON00005487 Isabb PBCCON00005487 Isabb PBCCON120005487 Isabb PBCCON12000600 Isabb PBCCON12000000 Isabb PBCCON1200000 Isabb PBCCON12000000 Isabb PBCCON12000000 Isabb PBCCON1200000 Isabb PBCCON12000000 Isabb PBCCON12000000 Isabb PBCCON1200000 Isabb PBCCON12000000 Isabb PBCCON12000000 Isabb PBCCON12000000 Isabb PBCCON120000000 Isabb PBCCON1200000000 Isabb PBCCON1200000000 Isabb PBCCON12000000000000000000000000000000000000	Read PFlash
Jardware ID:0191000201900001c0530001c05300 Jash0 PROCOM:000004eff Jash0 PROCOM:000004eff Jash0 PROCOM:000004eff Jash0 PROCOM:0000000 Withing EVASH Jip the same partition 1/2.Address 0xAFE0000.size 32768 Bytes Kip the same partition 2/2.Address 0xAFE10000.size 32768 Bytes Kip the same partition 2/2.Address 0xAFE10000.size 32768 Bytes Kip the Six Successfully. ommettion_succeed. hpirC1797 Helf anuber-416050902409c687408001011140000 Jash0 PROCOM:00002116050001c0550001c055000	Write PFlash
and PBCCCN4:00000000 and PBCCCN2:0000000 and PBCCCN2:0000000 and PBCCCN12:0000000 withing DFLASH and PBCCCN1:0000000 withing DFLASH igh the same partition 1/2.4dtress 0xAFE10000,size 32768 Bytes of the same partition 1/2.4dtress 0xAFE10000,size 32768 Bytes of the same partition 2/2.4dtress 0xAFE10000,size 32768 Bytes on reactiong	WINDS FFIADR
and PROCONE-00096/27 ant PROCONE 00006/F ant PROCONE 000007 Witting DFLASH ip the same partition 1/2.Address 0xAFE00000.ize 32768 Bytes ip the same partition 1/2.Address 0xAFE10000.ize 32768 Bytes in the ISN Successfully: onnecting	
Isant PROCON0.00064PM Isant PROCON1.0000000 Withing DPLXSH isg the same partition 1/2.Address 0xAFE0000.size 32768 Bytes kip the same partition 2/2.Address 0xAFE1000.size 32768 Bytes kip the same partition 2/2.Address 0xAFE1000.size 32768 Bytes kip the SN Successfully. onnection_succed. htp:TC1797 Iraid InumberA18005092409c887408001011140000 ardware IDc10100002018000001c055000 Isah0 PROCON0:00000PT Isah0 PROCON0:0000000	
Isin1 PROCON:000000 Withing DPLASH Kip the same partition 1/2.Address 0xAFE0000.size 32768 Bytes kip the same partition 2/2.Address 0xAFE1000.size 32768 Bytes kip the same partition 0x2.edu kip the same partition 0x2.edu	
sant PBCCM2-20000000 Writing DFLASH dip the same partition 1/2.Address 0xAFE00000,size 32768 Bytes dip the same partition 2/2.Address 0xAFE10000,size 32768 Bytes trike ISN Successfolly. onnecting onnecti	
httling DFLASH ipit the same partition 1/2.4ddress 0xAFE0000.size 32768 Bytes ipit the same partition 2/2.4ddress 0xAFE10000.size 32768 Bytes ipit the same partition 2/2.4ddress 0xAFE10000.size 32768 Bytes onnection_sourceded. ipiTC1797 rial numberA180050902409c887408001011140000 asth@ PROCON0:00020180000010553001:05500 ssh@ PROCON0:0000000	
ip the same partition 1/2.Address 0xAFE0000,ate 32768 Bytes dip the same partition 2/2.Address 0xAFE1000,ate 32768 Bytes the ISN Successfully. onnecting.	
kip the same partition 2/2,Address 0xAFE10000,size 32768 Bytes infections onnecting pirC1797 rial number/180050902409c887408001011140000 advarer IDc19100002018000001c055000 sah0 PROCON0:0000dmt sah0 PROCON0:0000001001	
rite ISN Successfully: onnection_ucceed. ip:TC1797 riid numbert 80050902409c887408001011140000 ardware ID:019100002018000001c530001c95500 sah0 PROCON0:00000mm sah0 PROCON0:00000mm	
annection succeed. ip:TC1797 ind number18005902409c887408001011140000 ind/waw ID01910000201800001c055000 sah0 PROCON0:0000000fff sah0 PROCON0:0000000fff	
ianC1797 iial number/180059024094887408001011140000 iial number/180059024094887408001011140000 iialn0 PROCONI-00000tm iialn0 PROCONI-000000tm iialn0 PROCONI-00000tm iialn0 PROCONI-0000tm iial	
rial number:4180050902409c887408001011140000 ardware 10:019100020218000001c055000 ash0 PROCON0-000000fff ash0 PROCON0-000000fff	
wdware (b.0.19100002018000001c0530001c05500 ssh0 PRCCON0:00000ff ssh0 PRCCN1:0000000	
sph0 PROCOND:00004fff sph0 PROCON1:00000000	
ssh6 PROCON1/00080800	
ash0 PROCON2:00008020	
sino PROCONCIOUTINO	7
ani Proconosoudim ashi Proconosoudim	
ani Procon 5000000	
	w

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

3.7 Reading DFlash, PFlash

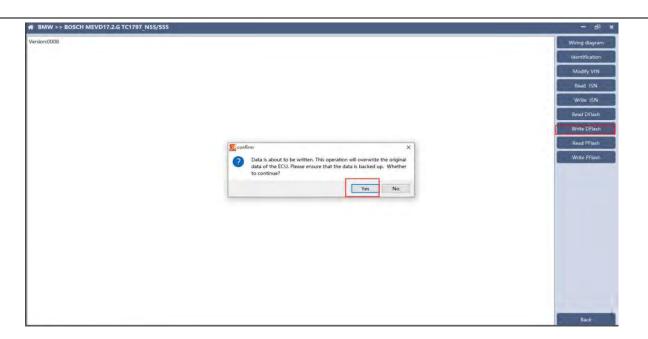
Take reading DFlash as an example:



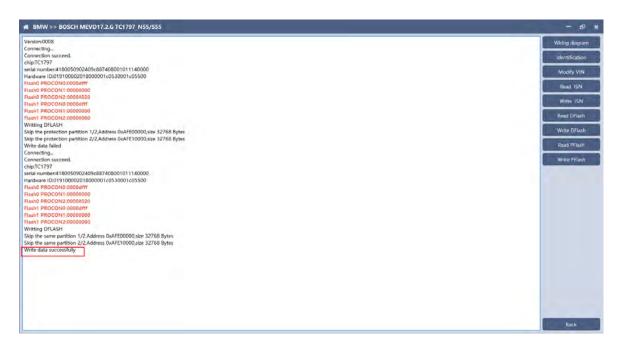
Click "Backup Data" to back up the ECU data. After reading, please save the data for subsequent use.

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

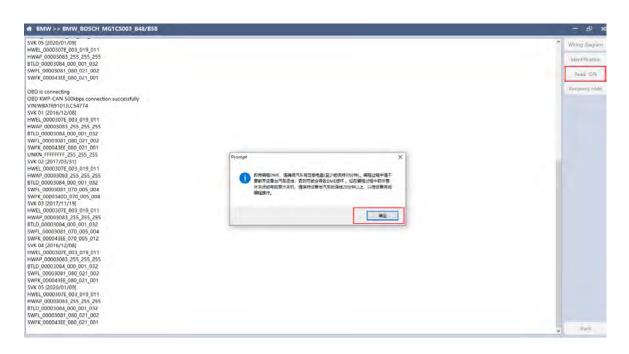
4.1.1 Determine the type of ECU according to the model, and select the correct model, otherwise it will not operate normally. The following is described with B48.

🖌 FC200				ECU - Search	Q	
Brand		model		Engine-gearbox		
Abarth	<u>^</u>	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		Hattorini
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		
BMW		2 Series(F23)		3000 B58B30A 340		
Baic		2 Series(F45)		M 135i N55B30A 320		
Bentley		2 Series(F46)		M 135i N55B30A 326	=	
Bugatti		2 Series(F87)		M 135i xDrive N55B30A 320		
CASE		3 Series(E90)		M 135i xDrive N55B30A 326		
CASE Tractors		2 Corios(E01)	-		-	
Can-Am		ECU				
Caterpillar		BMW MG1CS003 SPC5777				
Chang An						
Chery						
Chevrolet						
Chrysler						
Citroen						Bosch Search
DS						
Dacia					Ľ	Firmware upgra
Dallara						Check for updat
Deutz						
Dodge						license
Ducati						help

4.1.2 Identifying ECU

N BMW >> BMW BOSCH MG1CS003 B48/B58	- 8
version:0005	Wiring diagram
DBD is connecting	
DBD KWP-CAN 500kbps connection successfully	Identification
IN:WBATR9101JLC54774	
VK 01 [2016/12/08]	Read ISN
WEL 0000307E 003 019 011	Need LST
WAP 00003083 255 255 255	Contraction of the Institute of the Inst
TLD_00003084_000_001_032	Recovery cod
WFL 00003081 080 021 002	
WFK 000043EE 080 021 001	
JNKN FFFFFFF 255 255 255	
SVK 02 (2017/03/31]	
WEL_0000307E_003_019_011	
WAP_00003083_255_255_255	
TLD_00003084_000_001_032	
WFL 00003081 070 005 004	
WFK 0000340D 070 005 004	
VK 03 [2017/11/19]	
WEL_0000307E_003_019_011	
WAP_00003083_255_255_255	
TLD_00003084_000_001_032	
WFL_00003081_070_005_004	
WFK_000043EE_070_005_012	
VK 04 [2016/12/08]	
WEL_0000307E_003_019_011	
WAP_00003083_255_255_255	
TLD_00003084_000_001_032	
WFL_00003081_080_021_002	
WFK_000043EE_060_021_001	
VK 05 [2020/01/09]	
WEL 0000307E 003 019 011	
WAP 00003083 255 255 255	
LD 00003084_000_001_032	
NFL 00003081 080 021 002	
NFK_000043EE_080_021_001	
	Back

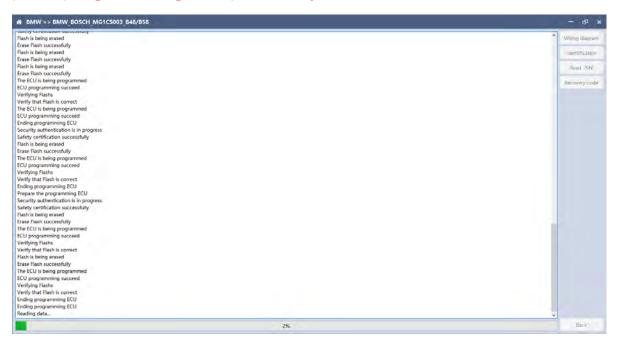
4.1.3 Reading ISN



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.



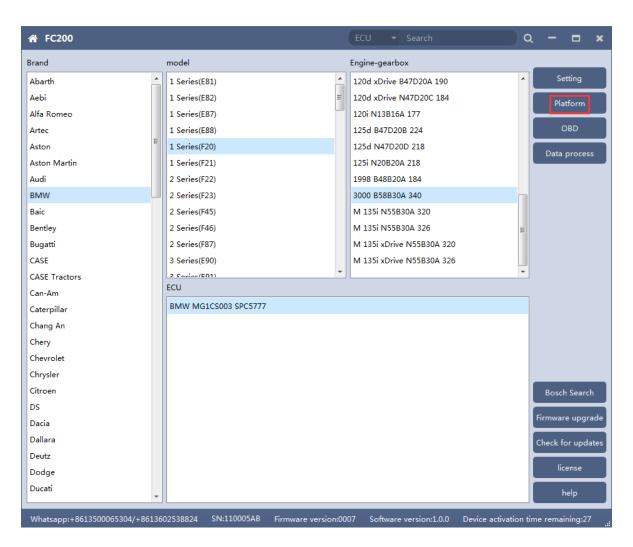
After the programming is completed, if there is a coding file before the ECU programming, the coding recovery will be performed automatically. After programming, the software starts to read data, as shown in the figure above.

BMW >> BMW_BOSCH_MG1C5003_B48/B58	- 6° ×
Flash is being erased	Wiring diagram
Trase Flash successfully	
lash is being erased	Identification
rase Flash successfully	Torren abor
lash is being erased	Read ISN
Erase Flash successfully	Keud 1514
The ECU is being programmed	(International States of S
CU programming succeed	Recovery code
/entying Flashs	
/erify that Flash is correct	
The ECU is being programmed	
CU programming succeed	
Inding programming ECU	
security authentication is in progress	
safety certification successfully	
lash is being erased	
Tase Flash successfully	
he ECU is being programmed	
CU programming succeed	
certifying Tashig Society	
veringing master	
reny tak rash s const.	
reading programming ECU	
security authentication is in progress	
Safety certification successfully	
arety ceruncation successfully lash is being erased	
rash is being erased Irase Flash successfully	
he ECU is being programmed	
CU programming succeed	
/erifying Flashs	
Verify that Flash is correct	
lash is being erased	
rase Flash successfully	
The ECU is being programmed	
CU programming succeed	
Verifying Flashs	
Jerify that Flash is correct	
inding programming ECU	
inding programming ECU	
Reading data	
Read data successfully SN:8C24820944ECEFF0098DC78170BF828AB68EBAA7DCA728D7	Back

Finish reading the ISN.

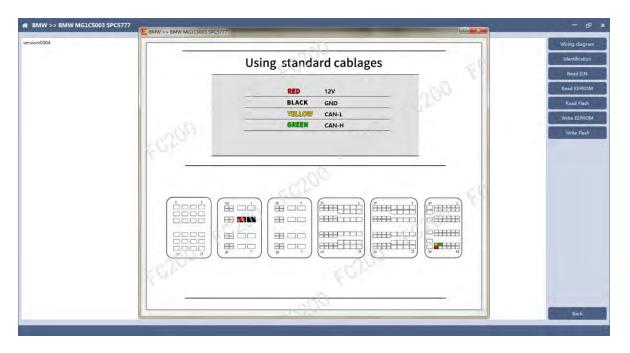
4.2 Read ISN on bench

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.



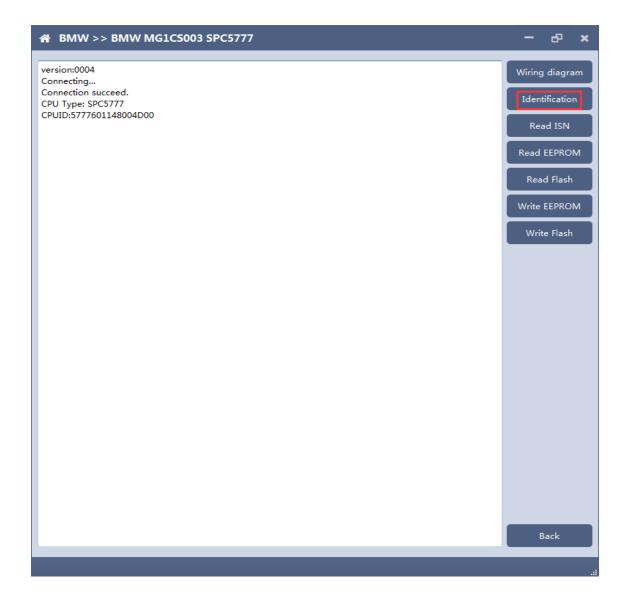
After selecting the correct ECU model, the "Platform" button will appear on the right. As shown in the figure above, click the "Platform" button to enter the ECU operation interface.

4.2.2 View wiring diagram

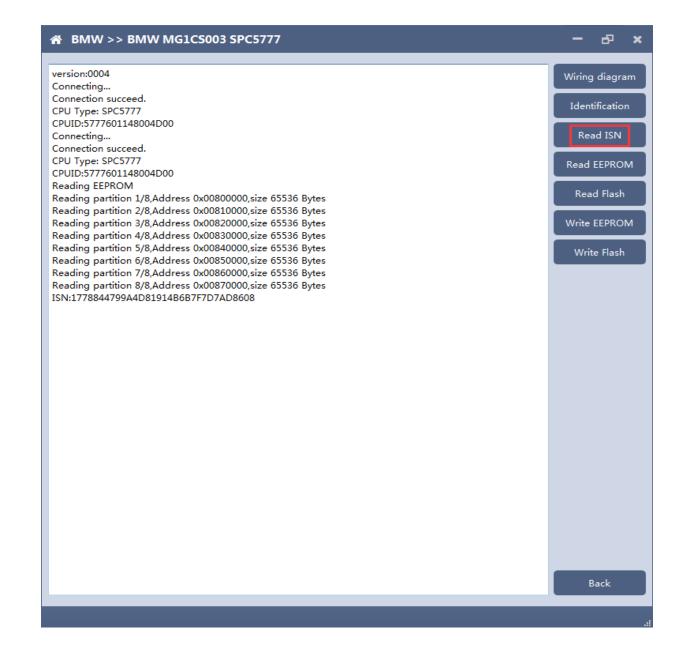


Click the "Wiring Diagram" button to view the ECU wiring diagram, connect the wiring harness correctly according to the wiring diagram, and connect with the device, plug in the device DC12V interface with 12V power supply.

4.2.3 Identifying the ECU

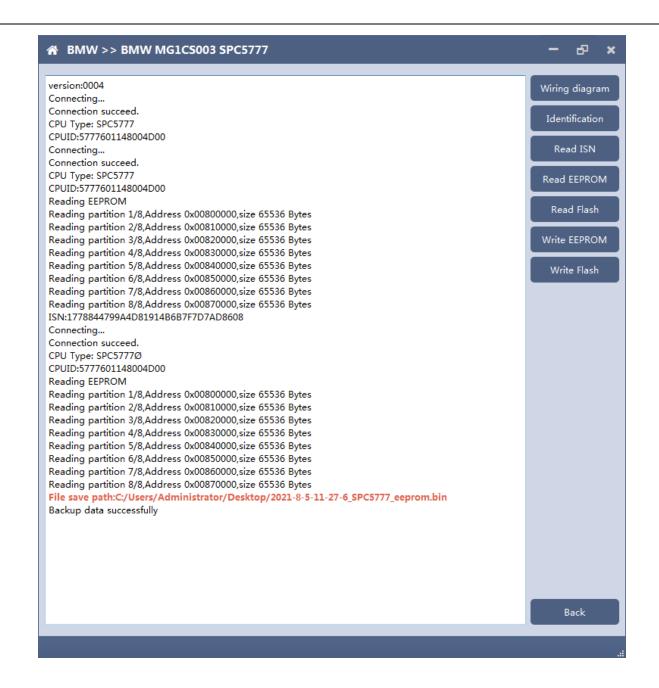


4.2.4 Reading ISN



4.2.5 Reading EEPROM/Flash

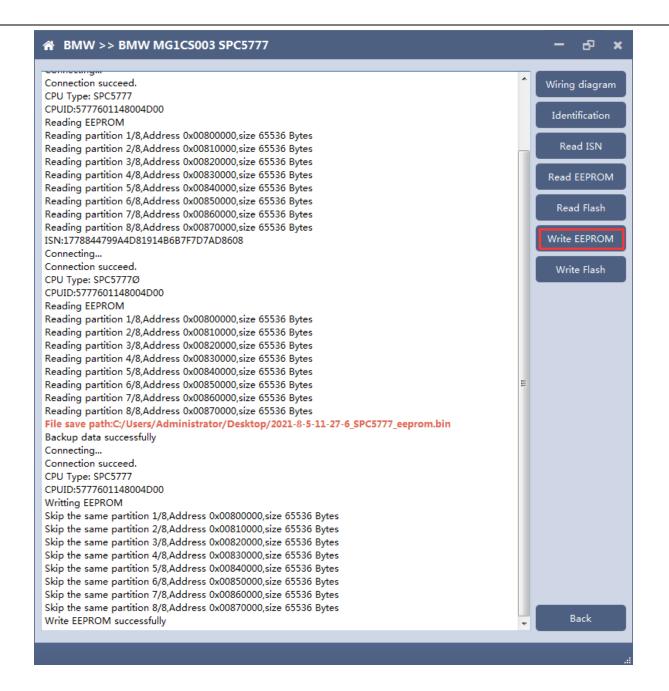
Take reading EEPROM as an example



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.

	- d ² ×
N BMW >> BMW MGICS003 SPC5777 version:0004 Connecting Connection succeed. CPU Type: SPC5777 CPUID:5777601148004D00 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 0x00820000,size 65536 Bytes Reading partition 5/8,Address 0x00820000,size 65536 Bytes Reading partition 5/8,Address 0x00840000,size 65536 Bytes Reading partition 6/8 Mathematical Bytes Reading partition 5/8,Address 0x00840000,size 65536 Bytes Reading partition 6/8 Mathematical Bytes Reading partition 6/8 Mathematical Bytes Reading partition 6/8 Mathematical Bytes Reading partition 6/8 Mathe	Wiring diagram Identification Read ISN Read EEPROM Read Flash Write EEPROM Write Flash
Reading partition 7 Reading partition 7 Reading partition 7 Sin:177884479944t Connecting Connection succeed CPU Type: SPC5777 CPUID:5777601148 Reading partition 2/8,Address 0x00810000,size 65536 Bytes Reading partition 2/8,Address 0x00810000,size 65536 Bytes Reading partition 3/8,Address 0x00810000,size 65536 Bytes Reading partition 5/8,Address 0x00810000,size 65536 Bytes Reading partition 7/8,Address 0x00810000,size 65536 Bytes Reading partition 8/8,Address 0x00810000,size 65536 Bytes Read	Back

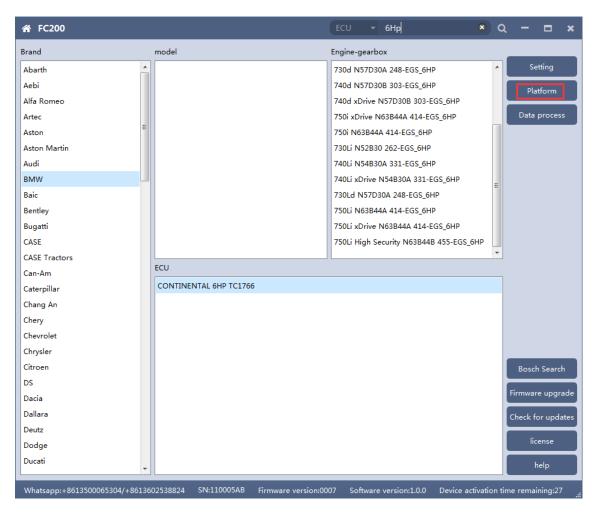


Note: During the data recovery process, it is strictly forbidden to disconnect the power supply or disconnect the device, otherwise it may cause ECU damage; if the software is shut down unexpectedly or the computer is shut down or crashed unexpectedly during the data recovery process, please do not disconnect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

5. 6HP

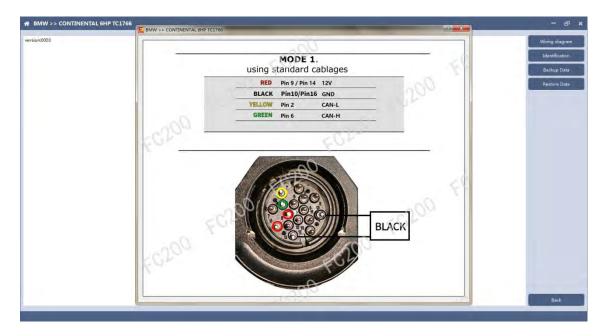
The FC200 currently supports the cloning of 6HP ECUs in BMW F-series (F01, F02, F03).

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

ersion:0003	Wiring diagram
BD is connecting	www.g.uagrab.
BD KWP-CAN 500kbps connection successfully	Identification
N:WBAKB41090CY49208	Identification
BD is connecting	Backup Data
BD KWP-CAN 500kbps connection successfully	backud Data
IN:WBAKB41090CY49208	
onnecting to ECU.	Restore Data
CU connection success	
etected TC1766 processor.	
hip Info:TC1766	
ash FSR:00000000	
ash FCON:00060666	
ash PROCON0:00000000	
ash PROCON1:00000000	
ash PROCON2:00000000	
ackup data	
eading PFLASH	
eading partition1/12,address0xA0000000,size16384 Bytes	
eading partition2/12,address0xA0004000,size16384 Bytes	
eading partition3/12,address0xA0008000,size16384 Bytes	
eading partition4/12,address0xA000C000,size16384 Bytes	
eading partition5/12,address0xA0010000,size16384 Bytes	
eading partition6/12,address0xA0014000,size16384 Bytes	
eading partition7/12,address0xA0018000,size16384 Bytes	
eading partition8/12,address0xA001C000,size16384 Bytes	
eading partition9/12,address0xA0020000,size131072 Bytes	
eading partition10/12,address0xA0040000,size262144 Bytes	
eading partition11/12,address0xA0080000,size524288 Bytes	
eading partition12/12,address0xA0100000,size491520 Bytes	
eading DFLASH	
eading partition1/2,address0xAFE00000,size16384 Bytes	
eading partition2/2,address0xAFE10000,size16384 Bytes	

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

5.5 Data Restore

version:0003 OBD is connecting OBD WPF-CAK SONEps connection successfully- VINAMBAKB41090CY49208 OBD is connecting OBD WPF-CAK SONEps connection successfully		Wining diagram Identification Backup Data
VINWARAKE1090CV49208 Connecting to ECU. ECU connection success Detected TC1766 processor. Chip InfeTC1766 Faar FSD:0000000 Faar FC000000000 Faar FC000000000 Faar FC000000000 Faar FC000000000 Sactup data. Sacding FAISH Baading partition/1/2 address0/A000000,size16384 Bytes Baading Partition/1/2 address0/A000000,size16384 Bytes Baading partition/1/2 address0/A0000000,size16384 Bytes Baading partition/1/2 address0/A0000000,size16384 Bytes Baading partition/1/2 address0/A0000000,size16384 Bytes Baading partition/1/2 address0/A0000000,size16384 Bytes Baading partition/1/2 address0/A000000,size16384 Bytes Baading partition/1/2 address0/A00000,size16384 Bytes Baading partition/1/2 address0/A000000,size16384 Bytes Baading partition/1/2 address0/A00000,size16384 Bytes Baading partition/1/2 address0/A0000000000000000000000000000000000	Confirm	Restore Data

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.

# BMW >> CONTINENTAL SHP TC1766	- 6 ³ ×
Residue partition11/12.address0xA009000.iac524288 Evies *	
Reading partition 12/12 address/savorosses/saveresse by the	Wiring diagram
Reading DFLASH	Little all the stress
Reading partition1/2,address0xAFE00000,size16384 Bytes	Identification
Reading partition2/2,address0xAFE10000,size16384 Bytes	Birckup Data
Backup data successfully	undents (nara
OBD is connecting OBD connecting OBD connection field	Restore Data
OBD connection failed	Heisele e when
cui connecton taled Recover data failed	
El DORDE Timeoti	
OBD is connecting	
OBD KWP-CAN S00kbps connection successfully	
VIN:WBAKB41090CY49208	
Connecting to ECU.	
ECU connection success	
Detected TC1766 processor.	
Chip InferTC1766	
Flash FSR:0000000	
Tash FCON/00060666	
Flash PROCOM:0000000 Hash PROCOM:000000 Hash PROCOM:0000000 Hash PROCOM:00000000 Hash PROCOM:000000000 Hash PROCOM:000000000 Hash PROCOM:0000000000 Hash PROCOM:000000000 Hash PROCOM:00000000 Hash PROCOM:0000000000000 Hash PROCOM:00000000000000000000000000000000000	
Nas PROCENT SUDUNUU	
Recovering data	
Within DFLASH	
Writting partition1/2,address0xAFE00000,size16384 Bytes	
Writting partition2/2 address0xAFE10000 size16384 Bytes	
Witting PFLASH	
Writting partition1/12,address0xA000000,size16384 Bytes	
Writting partition2/12,address0xA0004000,size16384 Bytes	
Writting partition3/12,address0xA0008000,size16384 Bytes	
Writting partition4/12,addniss0x4000C000,size16384 Bytes	
Writting partition5/12,address0xA0010000,size16384 Bytes	
Writting partition6/12,address0xA0014000,size163848 bytes	
Writing partition7/12.addres/0x40018000(3ze16384 Bytes Writing partition7/12.addres/0x4001C000(ze16384 Bytes	
Writing partition/12_address/xx4001.c000,tzte15556 Kytes	
Writing participation///2_addres/socio020000_see1510/2_bytes Writing participation///2_addres/socio020000_see26214 Bytes	
Writing purchash resolution (1/2, address) Address) and a start an	
Writting partition12/12.address0xA0100000.size491520 Bytes	
	40.0
77%-	Back

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.

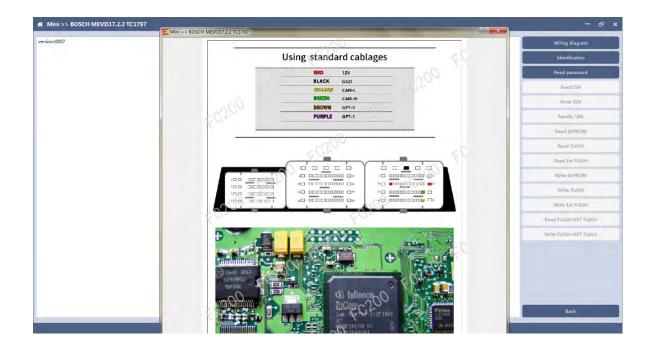
6. BOSCH BOOT (Boot) read and write data

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.

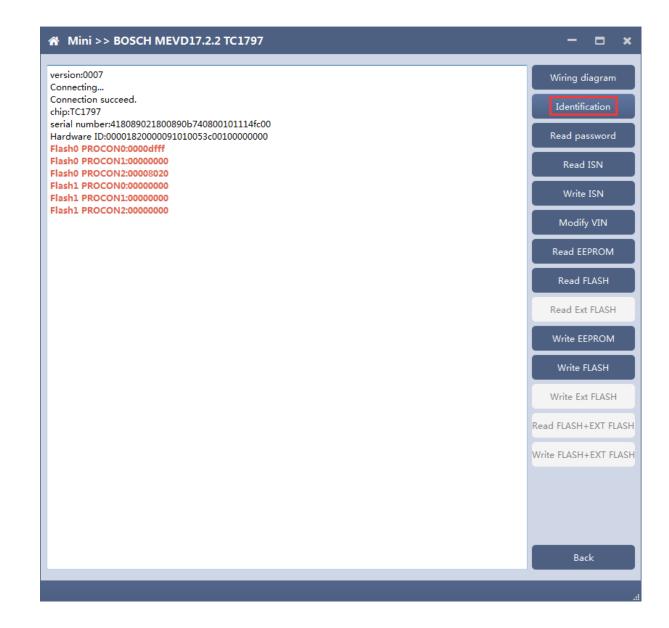
A FC200			ECU 🝷 Search	Q - □ >
Brand		ECU		
Lifan	*	BOSCH EDC17C41 TC1797		Setting
Lincoln		BOSCH EDC17C50 TC1797		Boot
Luxgen		BOSCH MED17.2 TC1766		
Mahindra		BOSCH MED17.2 TC1796		Data process
Man		BOSCH MEV17.2 TC1766		
Maserati		BOSCH MEV17.2 TC1796		
Massey Ferguson		BOSCH MEV17.2.2 TC1767		
McLaren		BOSCH MEVD17.2.2 TC1797		
Mercedes		BOSCH MEVD17.2.3 TC1793		
Mini		BOSCH MEVD17.2.3 TC1793_B38		
Mitsubishi Fuso		BOSCH MEVD17.2.K TC1793		
New Holland		BOSCH MEVD17.2.K TC1793_B38		
Nissan				
Opel				
Peugeot				
Piaggio				
Polaris				
Porsche				
Renault				
Royal Enfield	E			Bosch Search
Saab				
Sea Doo				Firmware upgrad
Seat				Check for update
Skoda				
Smart				license
Steyr	-			help

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



6.4 Read password



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

6.5 Read/write Pflash

A Mini >> BOSCH MEVD17.2	2.2 TC1797	- & ×
Mini >> BOSCH MEVD17.2 version:0007 Connecting Connection succeed. chip:TC1797 serial number:418089021800890b7400 Hardware ID:00001820000091000530 Flash0 PROCON1:0000000 Flash0 PROCON1:0000000 Flash1 PROCON2:0000000 Flash1 PROCON2:0000000 Connecting Flash0 PROCON1:00000000 Flash1 PROCON2:00000000	800101114fc00 c0010000000	 ⊢ L × Wiring diagram Identification Read password Read ISN Write ISN Write ISN Modify VIN Read EEPROM Read FLASH Write ELASH Write FLASH Write FLASH Read FLASH+EXT FLASH Write FLASH+EXT FLASH
		Back

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

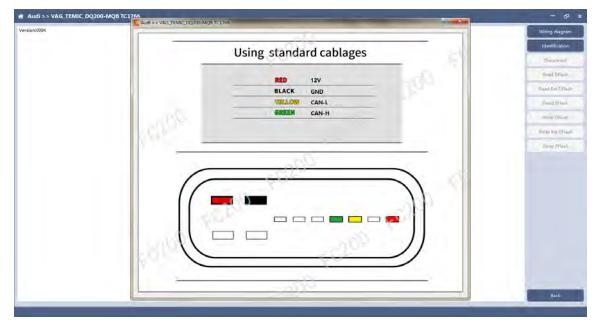
AT-200 currently supports data reading and writing functions of DQ200 and VL381 transmissions of Audi and Volkswagen. DQ200 is taken as an example following.

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.

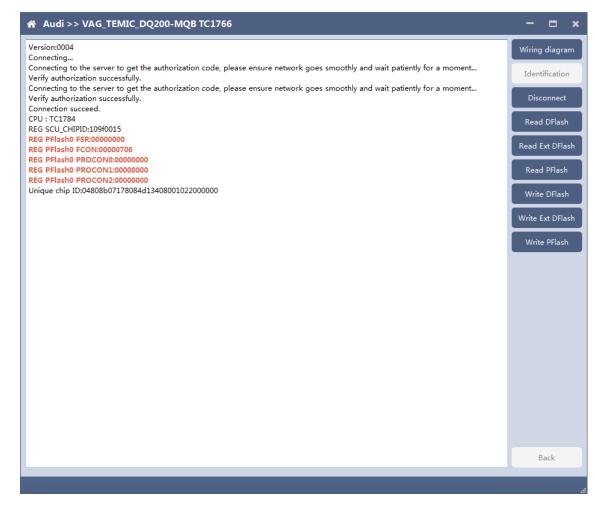
₳ FC200			ECU -) a	. – 🗖 🛪
Brand		ECU					
Abarth	-	BOSCH MED17.1.21 TC1793				*	Setting
Aebi		BOSCH MED17.1.27 TC1793S					Platform
Alfa Romeo		BOSCH MED17.1.6 MASTER_SLAVE TC1797					
Artec		BOSCH MED17.1.6 SLAVE TC1797					Data process
Aston	Ш	BOSCH MED17.1.6 TC1797					
Aston Martin		BOSCH MED17.1.61 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				=	
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
Whatsapp:+8613500065304/+8	6136	02538824 SN:110005AB Firmware version:000	7 Softwa	re version:1.0.0	Device activati	on ti	me remaining:26

7.2 Check diagram

Connect cables well according software diagram



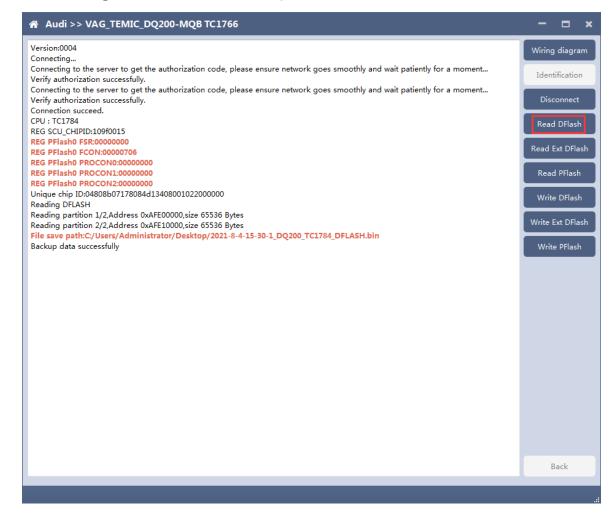
7.3 Identify ECU



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.

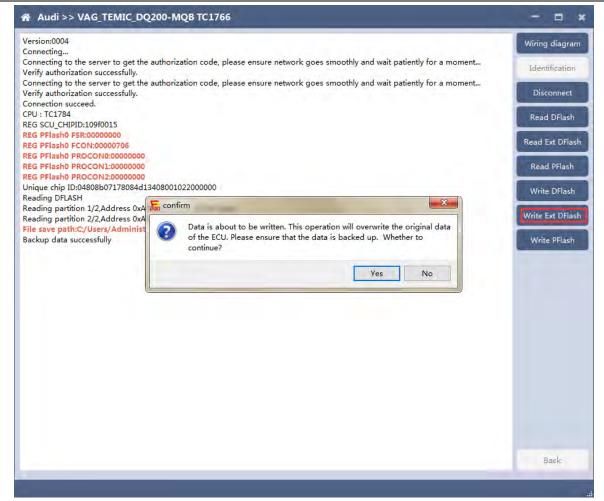
7.4 Read DFlash, EXT DFlash and PFlash

Take reading Dflash as an example:



7.5 Write DFlash, EXT DFlash and PFlash

Take writing EXT-DFlash as an example:



rsion:0004	Wiring diagram
nnecting nnecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment. rify authorization successfully.	Identification
nnecting to the server to get the authorization code, please ensure network goes smoothly and wait patiently for a moment. rify authorization successfully.	 Disconnect
nnection succeed. J : TC1784	Read DFlash
S SCU_CHIPID:109f0015 G PFlash0 FSR:000000000 G PFlash0 FCON:00000706	Read Ext DFlas
G PFlash0 PROCON0:00000000 G PFlash0 PROCON1:00000000	Read PFlash
G PFlash0 PROCON2:00000000 ique chip ID:04808b07178084d13408001022000000 itting EXT_DFLASH	Write DFlash
rification successfully	Write Ext DFlas
ite EXT_DFLASH successfully	Write PFlash
	Back
	DACK

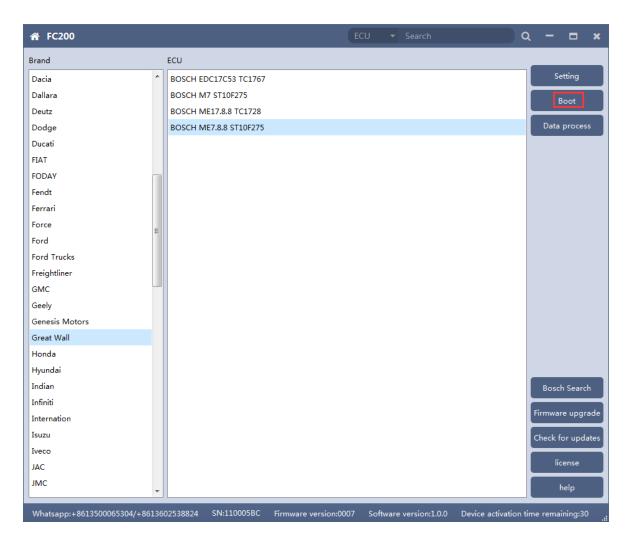
Back up original data before writing flash.

Please note : In the process of writing data, it is strictly forbidden to disconnect the power supply or the connection of the FC200; 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 FC200 and keep it for 15 minutes, FC200 can complete the data recovery independently.

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

FC200 currently supports ME7.8.8 ECU data reading and writing function.

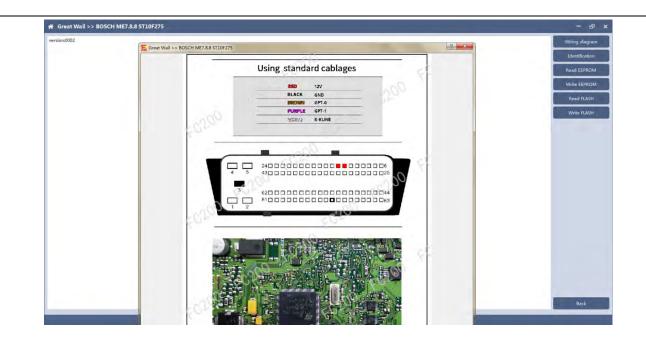
8.1 The ECU type should be determined according to car type, and the model should be selected correctly, otherwise, it cannot be operated normally.



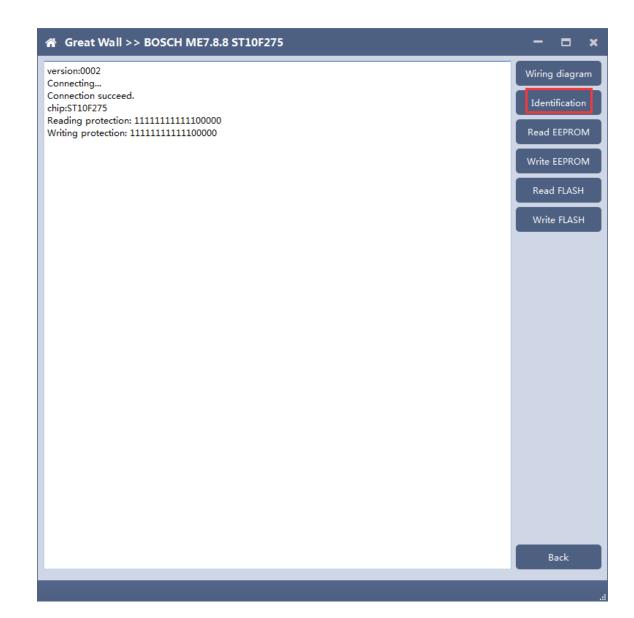
8.2 Check diagram

Connect the cables according to software diagram.

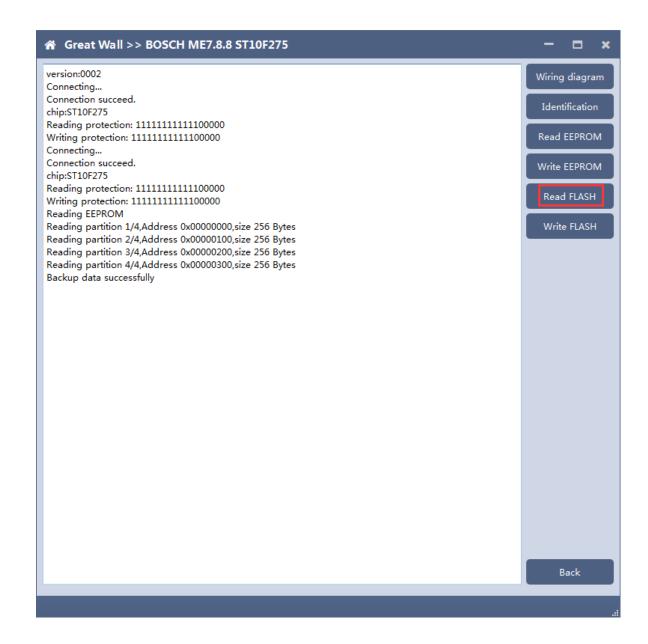
Note: Password reading is the password reading connection, and bootloader reading is the boot mode connection.

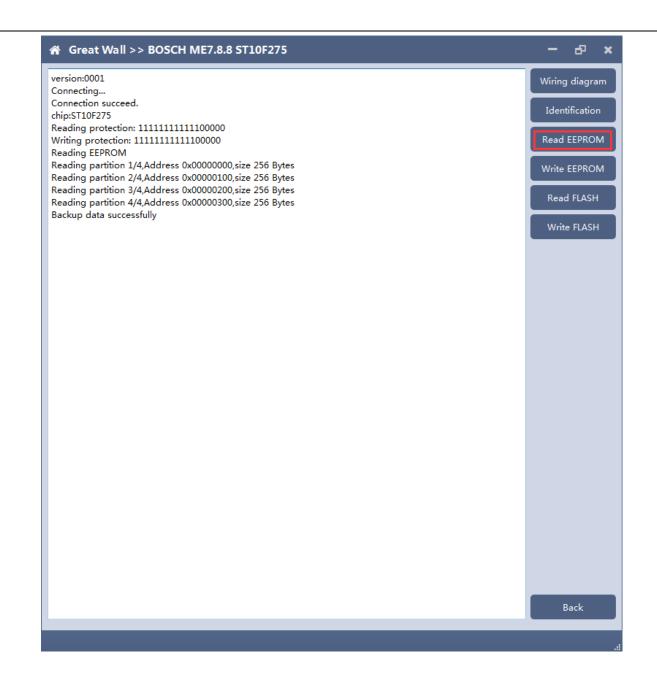


8.3 Identification



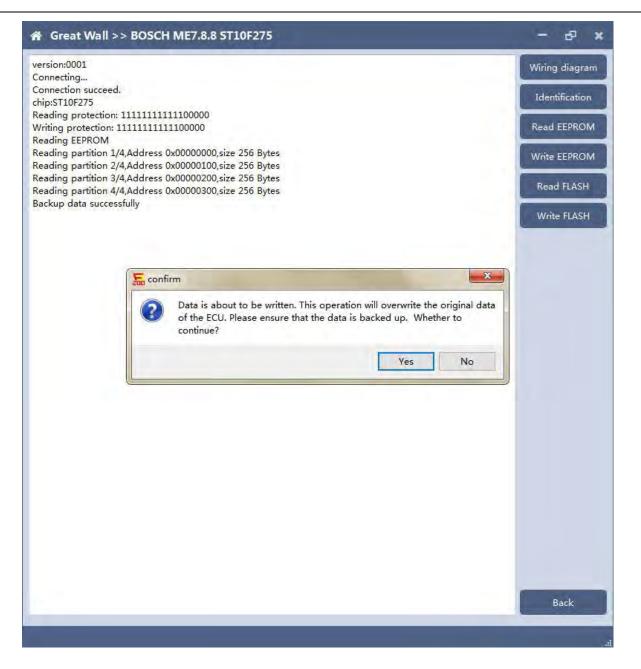
8.4 Read EEPROM and FLASH





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 🝷 Search	Q - 🗆 🗙
Brand	ECU		
Abarth	BOSCH MED17.7.5 TC1793		Setting
Aebi			Data process
Alfa Romeo			Data process
Artec			
Aston			
Aston Martin			
Audi			
BMW			
Baic			
Bentley			
Bugatti			
CASE			
CASE Tractors			
Can-Am			
Caterpillar			
Chang An			
Chery			
Chevrolet			
Chrysler			
Citroen			Bosch Search
DS			C
Dacia			Firmware upgrade
Dallara			Check for updates
Deutz			
Dodge			license
Ducati			help
Whatsapp:+8613500065304/+86136	502538824 SN:110005AB Firmware version:00	07 Software version:1.0.0	Device activation time remaining:26

9.2 Select operation type

Choose function needs to be operated

A MED17/EI	DC17 data process tool	- & ×
ECU type: VIN: Anti-theft: version:0002	Anti-theft type: CS: Status: New MAC: PIN: Please select the operation type Anti theft data processing of Audi / siet / Skoda / Volkswagen	Load DFlash(EEPRO M) file Load PFlash file Parse data Save File
	MEDC17 anti theft system Turn Off TPROT Reset VAG Flash Counter	
	Back	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

ECU type:	Anti-theft type:			Load DFlash(EEPR M) file
VIN:	CS:	Status:	New	Load PFlash file
Anti-theft:	MAC:	PIN:		Parse data
oad DFlash (EEPRON oading PFlash	dministrator/Desktop/FC200 data/1/1 1) successfully	AFXED 4 0 14 0 59	STICL PURSUID	
oad path:C;/Users/Ad	dministrator/Desktop/FC200 data/ _33333333_TC1797_PFlash.bin Illy			

9.3.2 Parsing data

n Anti t	theft data proces	sing of Audi	/ siet / Skoda / V	olkswa	gen	- & ×
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 Load path: 1/1/2020-4 Load PFlas Parsing dat	Flash (EEPROM) C:/Users/Administrato h (EEPROM) successfu lash C:/Users/Administrato I-8-14-13-7_33333333 h successfully	ully r/Desktop/FC20	0 data/	.4-6-29 <u>1</u>	FC1797_DFlash.bin	Save File
						Back

9.3.3 Modify the data and save the file

🏫 Anti t	theft data proces	sing of Audi	/ siet / Skoda / Vo	olkswa	gen		- 6 ×
ECU type:			generation anti-theft	-	Market.		Load DFlash(EEPRO M) file
VIN:	WCM7A34DC145868	-	8F2ACD35A05700		Matched		Load PFlash file
Anti-theft:		MAC:	11111111	PIN:	11111		Parse data
Load path: Load DFlas Loading PF Load path: 1/1/2020-4 Load PFlas Parsing dat	Flash (EEPROM) C:/Users/Administrato h (EEPROM) successfu lash C:/Users/Administrato I-8-14-13-7_33333333 h successfully	ully r/Desktop/FC20		4-6-29_1	rC1797_DFlash	bin	Save File Back
-							

9.4 MEDC17 anti-theft system function

9.4.1 Load PFLASH data

MEDC17 anti theft system	- e ×
ersion:0002 oad path:C:/Users/Administrator/Desktop/FC200 data/2/2020-4-8-14-13-7_TC1797_PFlash.bin oading data Data loaded successfully	Loading Pflash file Turn off the MEDC 7 Anti-Theft system
	Back

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

🎢 MEDC17 anti	theft system	- 8
version:0002 Load path:C:/Users/A loading data Data loaded successf Turning off anti-theft		Loading Pflash fi Turn off the MED 7 Anti-Theft syste
Save		
●●●● + 计算机 ▶	★ 4	计算机
且织 ▼		11 11 11 11 11 11 11 11 11
 家庭组 计算机 本地磁盘 (C:) 本地磁盘 (D:) 本地磁盘 (E:) 	硬盘 (3) 本地磁盘 (C:) 23.9 GB 可用,共100 GB 本地磁盘 (E:) 14.0 GB 可用,共99.0 GB 有可移动存储的设备 (1)	5B
	DVD RW 驱动器 (F:) 甘仲 /1) 4-18-9-41_IMMO_OFF n)	
隐藏文件夹	· 保	存(S) 取消

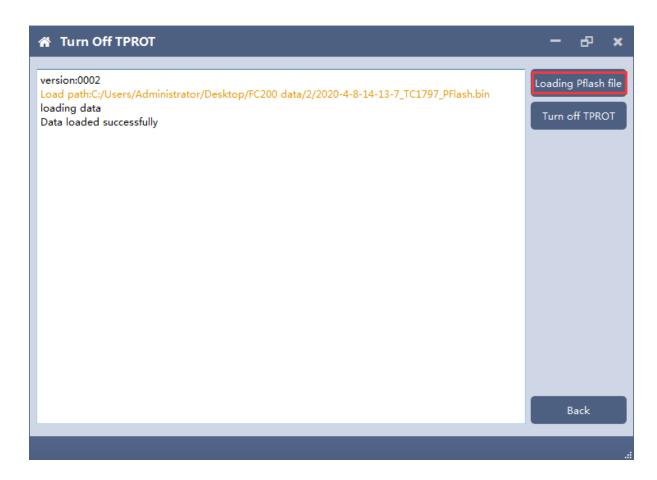
9.5 Close TPROT

9.5.1 Select ECU type

Choose correct ECU type, FC200 currently supports the Bosch VAG MEDC17 series, BMW / mini MEVD17 / EDC17 series, Hyundai / Kia EDC17 & MED (G) 17 series .

🔏 Turn Off TP	ROT	- & ×
ECU type: VIN: Anti-theft:	Anti-theft type: Anti-theft type: Status: New V	Load DFlash(EEPRO M) file Load PFlash file Parse data
version:0002	Please select ECU type (BOSCH)VAG MEDC17 series (BOSCH)BMW/Mini MEVD17/EDC17 series (BOSCH)Hyundai/Kia EDC17 _MED(G) 17 series Back	Save File
		Back

9.5.2 Load PFLASH data



9.5.3 Close TPROT and save the file.

😭 Turn Of	TPROT		×
version:0002 Load path:C:/L loading data Data loaded s Closing TPRO1		-14-13-7_TC1797_PFlash.bin	Loading Pflash file Turn off TPROT
5 Save			X
	•	 ▼ 4 投索 计算机 	2 2
组织 ▼			- • ()
 ○ ● 家庭组 ○ ● 本地磁盘 (C:) ○ ● 本地磁盘 (D:) ○ ● 本地磁盘 (E:) ○ ● WPS网盘 ● ● MPS 	▲ 硬盘 (3) 本地磁盘 (C:) 23.9 GB 可用,共100 GB 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:) ↓ 甘(h) (1)	本地磁盘 (D:)	
文件名(N): 202	I-8-4-18-13-33_TPROT_OFF		•
保存类型(T): BIN	*.bin)		¥]
● 隐藏文件夹		保存(S)	取消