CGDI BMW User Manual

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CGDI BMW User Manual

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User Manual

Hardware Model: CGDI

Please Read This Manual Carefully Before Use

1. CGDI Introductions for Use

Dear customer, Shenzhen Changguang technology co., ltd. deeply appreciate your trust and support to our products before use. Next, the function and usage of CGDI will be shown for you to help solve all kinds of problems that you may meet during use. Hope it can be useful.

CGDI includes two parts: hardware devices and software drivers.

Lifetime free maintenance, committed to user's stable use, software drivers are downloaded on the official website, and software upgrades are completely free and available to all CGDI users.

1.1 Product Overview

CGDI is a high-performance product which integrates Auto diagnose, programming, anti-theft maintenance into one. It features in quick software reply, short-time programming, and many new breakthroughs in operational safety and technical support has been made.

1.2 Function and Features

1. Update in real time, product upgraded with zero cycle time, support car model added in real time.

 BMW CAS3/CAS2+data restore--support CAS computer changing and dismantling, BMW MSV80/MSV80.0/MSD80/MSD80.0/MSD85/ engine computer changing, ISN code reading.

3. Device security enhanced greatly, hardware anti-decryption, software anti-copying.

1.3 Applicable Car Model

1. BMW CAS1/CAS2/CAS3/CAS3+/ key match adding, key all lost matching, CAS computer changing, CAS3+/P4X above version can directly downgrade through OBD in 5 minutes, 100% safety.

- 2. BMW CAS4/CAS4+/ support key matching, support key all lost matching.
- 3. Support BMW key detection, can detect key status.
- 4. Support BMW engine computer DME replacement.
- 5. Support BMW MSV80/MSD80/MSD85/series OBD read ISN code (no need to

disassemble computer when matching key)

6. Support BMW key unlock.

Car Model list

model	Have key	Without key	Read ISN	Replace engine	BMW key	Use time
	to match	to match key	code	Computer DME	to unlock	
	key					
CAS1	support	support			support	1 minute
CAS2	support	support	support		support	1minute
CAS3	support	support	support		support	1minute
CAS3+	support	support	support		support	1minute
CAS4	support	support	support			30 seconds
CAS4+	support	support	support			30seconds
MSV80			support	support		5 minutes
MSD80			support	support		5minutes
MSD85			support	support		5minutes

2. Hardware Device Introduction



The three parts above are indispensable.

1) USB wire is mainly used for connecting computer software driver and getting through electricity to normally work. However, please often check whether the interface is loose after long time use.

2) Mainframe device used for key matching and BMW engine CAS ISN reading.

3) OBD wires used for OBD connection between mainframe device and BMW vehicle.

3. Software Use

CGDI Main User interface



Menu Bar, function from left to right.

- ©Log in User log in
- ©Help Open use file
- © Journal Find problems for manufacturer
- ©Authorization Partial CGDI software functions only can be used after authorization
- © Settings Set language, upgrade firmware
- ©Software minimization
- ©Log out software

3.1 Activation

It will be activated automatically when software detects the device without activated days, no need user to operate. The process needs networking.

3.2 Device Authorization

0 📓 🛛 💿 🌣 🗕 Authorize BMW Key Match (OBD) CAS3 Key Match BMW ISN Read Write BMW Diagnosis CAS4 Key Match BMW Enable/Disable key BMW F/G Series Program BMW F/G Series Coding BMW EGS Change BMW E Series Coding BMW EWS Key Match BMW E Series Program Previous Next

Partial CGDI software functions only can be used after authorization.

- $\ensuremath{\mathbb O}$ Log in authorization page to view authorized list
- © Click "update authorization" button



© Please feel free to contact manufacturer if still show "No" after updating authorization succeeded.

3.3 Settings

◎Language	Language shift, support Chinese and English now
©Firmware upgrad	le Device firmware upgrade
© Detection	Software update detection and software update journals browse
© About	Software, firmware version information view etc.





3.3.1 Language

Currently Support switch among Chinese, English, French, Spanish, Turkish.

3.3.2 Firmware Upgrade

The software will inform user when firmware version is lower than built-in version.
 Log in firmware upgrade page, no need user to operate, log out after device
 reconnection successful.

3.3.3 Update Check

Software check update.

3.3.4 About

© Software version and device information, manufacturer company website as well.



4. BMW OBD Key Match



CAS4 Key Match

CAS1-3+ Key Match FEM/BDC Key

Match

4.1 CAS1-3+Key

4.1.1 Read Key Information

- $\ensuremath{\mathbb O}$ First step, read key information or load key data.
- $\ensuremath{\mathbb O}$ Other functions are operated based on existing key information.

BMW CAS	OBD Key M	lacthing	Fund	ction vers	sion:000	9			_ ×
Тс	VIN: W	BAZV4108DL933063 A00016790	CAS Vers	sion Number frequency	:9262360 :315	key	CAS Version inside ignition	: CAS3+ ISTAP : None	Read Key Info
-Key NO-	Key Info Key ID	Password	Cfg Page	Кеу Туре	Status	Remote	e Info ID Remote Passwo	rdSyn code	Generate dealer key
O Key1	F9334196	3C76FA6F1A91	C85A10AA	Remote Key	Enable	10A6	4B47A225987D	CB164EA8	
⊖ Key2	B33D4196	A0E010F07CDA	C8B5159A	Remote Key	Enable	26EB	37081326A337	C0B794A5	Add Key
⊖ Кеу3	FFFFFFF	1ECA059EB898	C827778F	Unuse	Enable	816B	C3A520EE5A6D	860341CA	
O Key4	FFFFFFF	790AF12E3247	C8BE8C35	Unuse	Enable	76B1	DDC06E77D550	E6AFF4FE	Syn ELV
O Key5	FFFFFFF	68ADDA691420	C847B62C	Unuse	Enable	0D47	90FAB3ECF262	47E81C99	Destans here
O Key6	FFFFFFF	41A2E21962A4	C85B2D20	Unuse	Enable	EC36	75F2C85889DB	FBF53554	bit
O Key7	FFFFFFF	508276F2B763	С8С2в755	Unuse	Enable	D018	035FF9090708	1BF9FD23	-
O Key8	FFFFFFF	3E078AA5BBEF	C8B681D8	Unuse	Enable	DD29	F4D50333232A	8A6F214D	Unlock Key
O Key9	FFFFFFF	8C8601CBC76D	C8778A5C	Unuse	Enable	3103	3888F00F2268	D283F251	
O Key10	FFFFFFF	9BA83F77F95C	C8F28B1F	Unuse	Enable	23D8	BB62FE086B31	46664813	Enable Key
Read data successfully Reading data								Disable Key	
Read data successfully Security authenticating								Load Key Data	
Reading k Read key	cey Informat: information	ion successfully				<u>.</u>	100	/	

4.1.2 Click "Load Key Data" Button to Load Key Data

存为			×
← → * ↑ □ >	此电脑 > 新加卷 (F:) > CGDI项目相关 > cas4 V ひ	搜索"cas4"	,p
组织 ▼ 新建文件夹		BEE	- ()
💻 此电脑	、 名称 ^	修改日期	类型
🧊 3D 对象		2016/4/27 17:38	BIN 文
视频	🚱 2017-9-19-16-20-522016-4-13_20'8'25'_BWM_5S6S7SX3_CAS(5M48H)_DFLASH(CAL).Bi	n 2017/9/19 16:21	BIN文
■ 图片	🚱 20160413-204610 DME.bin	2016/4/27 17:38	BIN文
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三 桌面			
🏪 本地磁盘 (C:)			
 新加卷 (D:)			
🕳 新加卷 (E:)			
新加卷 (F:)			
@ 00 75 35 (0)	· · ·		
文件名(N): 201	8-1-23-16-32-41 9287535 BackEEPROM.BIN		
保存类型(T): BIN	l(*.bin)		
			_
、隐藏文件夹		保存(S) I	取消

4.1.3 Generate Dealer's Key

- $\ensuremath{\mathbb O}$ Select an unused key ID.
- ◎ Click "Generate dealer's Key" button

BMW CAS	OBD Key Macthing	Function version:000	9	_ ×
To	VIN: 4USFE43537LY77885 both code: HA00024927	CAS Version Number:9147225 Remote frequency:315	CAS Version: CAS3 key inside ignition: None	Read Key Info
— Кеу NO-	Key Info Key ID Password	Cfg Page Key Type Status	Remote Info Remote ID Remote PasswordSyn code	Generate dealer key
○ Key1 ○ Key2	D9D2BE18 D99577236044 F83D1991 AFAD1CAA3161	CEEC0216 pcf7936 Enable C8A802E1 Remote Key Enable	44A1 2AA7DDa03CA1 D934173C B264 6438D787773E D4F48A90	Add Key
○ Key3 ○ Key4	023E1991 10A902DDA90F 5F494E97 1C28F4C7CDA9	C8E7430 Remote Key Enable	5E9E DA8A46DC4351 33CE11CC x 304E39D7 142D4772	Syn ELV
 Key5 Key6 	F820729B 31298CF9EE9B FFFFFFFF 68A1C83E61F6	C8757 C8957 i pls put the blank key into the CG	1050279D D10FC74D D10FC74D c9DD9EEA D82F0B51	Restore key bit
○ Key7 ○ Key8	4332F998 1883210EB7B6 4331F998 1117DE85C1ED	C8D77 C813E	5BED9673 C7D8863D 建定 307ECC2F 307ECC2F	Unlock Key
 Key9 Key10 	B445109D 63B09F6D69C2 FFFFFFFF 0EA45E796837	C89AFAOE Remote Key Enable C87B7417 Unuse Enable	6FB9 42B6246BE26E 86F3915F B11A A40C2014D17C 3D13262E	Enable Key
Security Security	authentication failed			Disable Key
Security Security Safety ce Reading } Read key	authentication failed authenticating ertification successful key Information information successfully			Load Key Data

© Choose key types

Check whether the key is intelligent: intelligent key (Y), normal key (N).

BMW CAS OBD Key Macthing Function version:0009								_ ×		
т	VIN: 4	4USFE43537LY77885 4A00024927	CAS Vers Remote	sion Number frequency	:9147225 :315	key	C/ inside	AS Version e ignition	: CAS3 : None	Read Key Info
─ Key NO- ○ Key1	Key Info Key ID D9D2BE18	Password	Cfg Page	Key Type	Status Enable	Remote	Info D Remo	bte Passwo	rdSyn code	Generate dealer key
O Key2	F83D1991	AFAD1CAA3161	C8A802E1	Remote Key	Enable	B264	6438	D787773E	D4F48A90	Add Key
○ Key3 ○ Key4	023E1991 5F494E97	10A902DDA90F 1C28F4C7CDA9	C8CE7430	Remote Key	Enable	5E9E	DA8A	46DC4351 104E39D7	33CE11CC 142D4772	Syn ELV
 Key5 Key6 	F820729B	31298CF9EE9B 68A1C83E61F6) C875". C895". ()	Whether the key Note: If it is a sma	currently progra art key, the key v	mmed is a smart vill be locked!	key?.	.050279D :9DD9EEA	D10FC74D	Restore key bit
⊖ Key7	4332F998	1883210EB7B6	C8D7		是①) 否	N	BED9673	C7D8863D	Unlock Key
 Кеу8 Кеу9 	4331F998 B445109D	63B09F6D69C2	C89AFA0E	Remote Key	Enable	6гв9	42B6	246BE26E	86F3915F	Enable Key
Key10	FFFFFFF	0EA45E796837	С87в7417	Unuse	Enable	B11A	A40C	2014D17C	3D13262E	
Security Security	authenticat authenticat	ing ion failed						40 ⁵⁰ 60 30 100% ⁷	80-	Disable Key
Security Safety ce Reading 1 Read key	authenticat ertification key Informat informatior	ing successful ion successfully							ar	Load Key Data

◎ The key cannot be generated directly if CAS version is 3+, needing engine ISN.

BMW CAS	OBD Key M	acthing	Func	ction vers	ion:000)9			×
То	VIN: WI oth code: HJ	BAZV4108DL933063 A00016790	CAS Vers	sion Number a frequency	:9262360 :315	key	CAS Version	: CAS3+ ISTAP : None	Read Key Info
-Key NO-	Key Info	Password	Cfg Page	Кеу Туре	Status	Remote I	Info D Remote Passwo	rdSyn code	Generate dealer key
O Key1 O Key2	F9334196 B33D4196	3C76FA6F1A91 A0E010F07CDA	C85A10AA C8B5159A	Remote Key Remote Key	Enable Enable	10A6 26EB	4B47A225987D 37081326A337	CB164EA8	Add Key
⊙ Кеу3	FFFFFFF	1ECA059EB898	C827778F	Unuse	Enable	816B	C3A520EE5A6D	860341CA	
 Key4 Key5 	FFFFFFFF	790AF12E3247 68ADDA691420	C8BE8C35 C847B62C	Unuse Unuse	Enable Enable	76B1 0D47	DDC06E77D550 90FAB3ECF262	47E81C99	Syn ELV
О Кеуб	FFFFFFF	41A2E21962A4	C85B2D20	Unuse	Enable	EC36	75F2C85889DB	FBF53554	Restore key bit
 Key7 Key8 	FFFFFFFF	508276F2B763 3E078AA5BBEF	C8C2B755	Unuse Unuse	Enable Enable	D018 DD29	035FF9090708 F4D50333232A	1BF9FD23 8A6F214D	Unlock Key
О Кеу9	FFFFFFF	8C8601CBC76D	C8778A5C	Unuse	Enable	3103	38B8F00F2268	D283F251	Enable Key
C Key10	FFFFFFF	9BA83F77F95C	C8F28B1F	Unuse	Enable	2308	BB62FE086B31	46664813	Dischile Was
Reading data	ata successfull	Là Là					³⁰ 100% 7	80	DISADIE Key
Security a Safety ce	authenticati rtification	ng successful					10	90	Load Key Data
Reading ke	information	successfully							

BMW CAS OBD Key Macthing Function version:0009	×
VIN: WBAZV4108DL933063 CAS Version Number:9262360 CAS Version: C Tooth code: HA00016790 Remote frequency:315 key inside ignition: N	Read Key Info
Key NO Key Info Remote Info Key ID Password Cfg Page Key Type Status P9334196 3C76FA6F1A91 C05A10AA Remote Key Enable Key2 B33D4196 A0E010F07CDA C8B5159A Remote Key Enable	Syn code Generate dealer key C08794A5 Add Key
Key3 FFFFFFF IECA059EE BMW CAS OBD Key Macthing × Key4 FFFFFFF 790AF12E32 CAS3 encryption version matching key need to enter the engine ISN, please choose the way of getting ISN code Key5 FFFFFFFF 69AthDA6912	660341CA EGAFF4FE Syn ELV
Key6 FFFFFFF 11A2E21962 O Key7 FFFFFFF 508276F2ET	Restore key bit 18F9FD23
• Key8 FFFFFFF SE070AASDE • Try to pull and insert the key 16 or 64 times • Next	D283F251 Enable Key
• Key10 FFFFFFF DBA03F77F5 Read data successfully 00	Disable Key
Reading data Read data successfully Security authenticating Safety certification successful Reading key Information Read key information successfully	Load Key Data

4.2 CAS 4 Key Match



4.2.1 Select unused key, click "Generate Dealer's Key" button.

as4 Key Match		Feature ve	rsion:000)3		
HWEL_00000007_006_000_	005	KeyInfo	FFFFFFF	Unused	Enable	Generate dealer key
WAP_000002EA_255_255_2 BTLD 0000074B 007 001 (255 001	O Key2	CF2CC533	Used	Disable	Restore Coding
SWFL_0000074F_007_012_0	000	О Кеу3	AA9F4834	Used	Disable	
WFL_0000074D_007_012_0	000	O Key4	8B1A4235	Used	Enable	Delete key
WFL_0000074E_007_012_0	000	• Key5	FFFFFFFF	Unused	Enable	Enable key
AFD_0000000F_005_025_0	058	O Kev6	157BF823	Used	Enable	Enable key
	BMW Cas	4 Key Match			×	Disable key
	Read Wo Manual	orking Key Ly input known ISN				Exit transport mode Repair ECU
					Next	View help
		5		<u>.</u>	INCAL	Back
		OBD is connecting	1		VIN	
ECU INIO	FS.T27139	ODD THE GAN FOOL				
VIN LBV5S3105	2002/1205	OBD KWP-CAN SUUK				
VIN LBV5S31050 ECU type CAS4PLUS		OBD KWP-CAN SUUK	-		Key	Number
VIN LBV5S3105 ECU type CAS4PLUS Mileage 0		OBD KWP-CAN SOUKE			Кеу Кеу	Number Type
VIN LBV5S3105 ECU type CAS4PLUS Mileage 0 Remote frequency 31	15	OBD NWP-CAN SUUK			Key Key Key	Number Type Frequence

4.3 FEM/BDC Key Match

BMW Key Mat	ch (OBD)				_ ×
Auto					
		%			
CAS1-3+ F Match	Key C	AS4 Key Mat	cch	FEM/BDC Match	Кеу

4.3.1 Use CGDI to connect vehicle, then open software.



Red line corresponds to the chip, 1 port clamps the chip.

Use CGDI to read and store FEM/BDC 95128/95256 chip data.



95128/95256	Function version:0002	-	×
Chip Type	[0][1][2][3][4][5][6][7][8][9][A][B][C][D][E][F] 0 1 2 3 4 5 6 7 8 9 A B C D	E F	
95128	00000000 01 01 FF 00 FF 05 05 05 05 05 35 FF FF 19 08 28 8F	(·	
95256	00000020 8B 00 09 00 00 00 00 00 00 00 01 00 00 7 92 00	· ·	
95040	00000040 66 28 08 00 00 15 5F 00 03 1D 01 FF FF FF FF FF f (
	00000000 FF F		
Open	000000000 FF	::	
L	000000000 FF		
	00000000 FFFFFFFFFFFFFFFFFFFFFFFFFFFFF	2.2	
Save	0000000F0 FF		
	00000110 FF		
·	00000130 FF		
Read			
	extended supply voltage3.27V Reading data		
Write	Read data successfully		

1. Turn on FEM/BDC key match

Please operate as instructions shown.

HWEL_00000792_000_004_007 KeyInfo Generate deals HWAP_00000F26_255_255_255 Key1 Key1 HWAP_00000F26_255_255_255 Key2 Restore Codin HWAP_00000F20_255_255_255_255 Key3 Delete key HWAP_00000F32_255 Z55_255 Key4 Delete key HWAP_00000F32_255 Z55_255 Key4 Enable key HWAP_00000F32_255 Z55_255 Enable key Enable key HWAP_00001252_255 Z55_255 PEM/BDC Key Match X HWAP_0000152_255 FEM/BDC Key Match X Disable key HWAP_00001556_003 Please select the way to read EEPROM 1.Use programmer to read FEM/BDC, use programmer to read data and save, then click "Next" button X SWFL_00001555_000 95128/95256 chip from FEM/BDC, use prin chip data:Please remove the rem/BDC, the FEM/BDC from the car(must cut off power), and properly connect the dapter's chip clip to the 95128/95256 chip of the FEM/BDC, then click the "Next" button Noxt Viw help Noxt View help View help Viw help Noxt Restore FAFP ECU Info OBD is connecting on successfully VIN Key Number Noxt Write EEPROM S	FEM/BDC Key Match	Feature version:0015	Ĵ.	_ ×
2.USE EEPROM adapter to read FEM/BDC 8-pin chip data:Please remove the FEM/BDC from the car (must cut off power), and properly connect the adapter's chip clip to the 95128/95256 chip of the FEM/BDC, then click the "Next" button place FEM/BIC Visw help Next Visw help VIN WBA1A1106DJ152982 ECU type FEM Mileage 0	FEM/BDC Key Match HWEL_00000792_000_004_007 HWAP_00000F26_255_255_255 HWAP_00000F20_255_255_255 HWAP_00000F20_255_255_255 HWAP_00000F20_255_255_255 HWAP_00000F30_255_255_255 HWAP_00000F32_255 FEM/BDC Key M HWAP_0000155_2017 SWFI_0000155F_000 CAFD_0000794_017	KeyInfo KeyInfo Key1 Key2 Key3 Key4 Key5 Key5 Kammer to read FEM/BDC 8-pin Schip from FEM/BDC, use procedulor Click "Next" button	chip data:please remove grammer to read data and	Generate dealer key Restore Coding Delete key Enable key Disable key fileage reset xit transport mode
ECU Info OBD is connecting VIN Backup FAFP VIN WBA1A1106DJ152982 OBD KWP-CAN 500kbps connecti ID Backup FAFP ECU type FEM on successfully Key Number Restore FAFP Mileage 0 Coding is being backed up Key Type FAFP	2.Use EEPRO the FEM/BDO the adapter then click	DM adapter to read FEM/BDC 8- C from the car(must cut off p c's chip clip to the 95128/95 the "Next" button	pin chip data:Please remove power), and properly connect 5256 chip of the FEM/BDC, Next	pplace FEM/BDC View help Write EEPROM
COED KWP-CAN 500kbps connecti ID ECU type FEM on successfully Key Number Restore FAFP Mileage 0 Coding is being backed up Key Type	ECU Info VIN WBA1A1106DJ152982	OBD is connecting	VIN	Backup FAFP
Mileage 0 Coding is being backed up Key Type	ECU type FEM	OBD KWP-CAN 500kbps connecti on successfully	ID Key Number	Restore FAFP
Remote frequency 315 Backup Coding success Key Frequence Reset starter	Remote frequency 315	Coding is being backed up Backup Coding success	Key Type Key Frequence	Reset starter

2. Please follow the CGDI software tips to load 95128/95256 chip data, the software will produce a service file, use CGDI to write the service file in 95128/95256 chip, then weld and install FEM/BDC back to vehicle.

3. Please follow the CGDI tips to click "Next" button, CGDI start programming. The software will remind departing FEM/BDC after 2 minutes at most, dismantle 95128/95256 chip, use CGDI to write back original file, then install FEM/BDC back to vehicle.

4. Please follow the CGDI tips to click "Next" button, the software will read and show key information automatically, select the key that needs match, click "Generate dealer's key" button, choose the way of gaining ISN: read original vehicle key, load engine data or manually input known ISN.

5. Please follow the CGDI tips to keep the original car / new key closer to the key sensor area below the steering wheel.

4.3.2 Generate Dealer's Key

- 1.Select an unused key ID
- 2. Click "Generate dealer's Key" button

FEM/BDC Key Match	Featur	e ver	sion:0015			- >
	Key	Info —				Cenerate dealer
HWEL_00000792_000_005_002	O Key	1	7727FC32	Used	Enable	key
HWAP_00000F26_255_255_255	OKer	2	AD9C4333	Used	Enable	
HWAP_00000F2B_255_255_255	O Kor	.2	79682937	Used	Enable	Restore Coding
HWAP 00000F20 255 255 255	O Key		PEREPEREP	Unused	Enable	Delete key
HWAP_00000F2E_255_255_255	O Key	4	FFFFFFF	Imugod	Enable	
HWAP_00000F30_255_255_255	O Key	5	FFFFFFFF	Jonusea	Enable	Enable key
HWAP_00000F32_255_255_255	O Key	6	B204F622	Used	Enable	
HWAP_00001263_255_255_255	· Key	7	FFFFFFFF	Unused	Enable	Disable key
BTLD_00001556_003_102_030	O Key	8	C276EF36	Used	Enable	
SWFL_0000155E_018_120_010	OKes	9	FFFFFFFF	Unused	Enable	Mileage reset
CAFD 00000794 018 070 003	OKO	10	FFFFFFF	Unused	Enable	Exit transport
	O Key	.10		Unused	Fnable	mode
	O Key	11	FFFFFFF	Thursd	Enable	Replace FEM/BDC
	O Key	12	FFFFFFFF	Jonusea	Enable	-
	O Key	13	FFFFFFF	Unused	Enable	View help
	O Key	14	FFFFFFF	Unused	Enable	
	O Key	15	FFFFFFF	Unused	Enable	Write EEPROM
ECU Info VIN LEV8W3106JMM36893	OBD is conne	cting		VIN		Backup FAFP
ECU type FFM	OBD KWP-CAN	500kbps	connecti	ID		Restore FAFP
Mileage 0	on successiu	шу		Key Numbe	r	
Remote frequency 433				Key Type	ence	Reset starter
Changing Toolo				Key Statu	ience	
Chassis F020			1	Rey Statu		

Please follow the ti	ps to select the way	of inputting ISN code.
----------------------	----------------------	------------------------

FEM/BDC Key Match	Feature version	:0015		- >
HWEL_00000792_000_005_002	KeyInfo Key1	7FC32 Used	Enable	Generate dealer key
HWAP_00000F26_255_255_255 HWAP_00000F2B_255_255_255 HWAP_00000F2C_255_255_255	O Key2	C4333 Used 82937 Used	Enable Enable	Restore Coding
HWAP_00000F2D_255_255_255 HWAP_00000F2F_255_255_255	O Key4	FFFFF Unused	Enable	Delete key
HWAP_00000F30_255_255_255 HWAP_00000F32_255_255_255 HWAP_00000F32_255_255_255	O Key5 FFF	FFFFF Unused 4F622 Used	Enable Enable	Enable key
HWAP_00001263_255_255_2 FEM/	BDC Key Match		×	Disable key
SWFL 0000155F 000 003 (Real	nd Working Key	ngine isw, piease s	serect the way	Mileage reset
CAFD_00000794_018_070_(O End	jine data is ready, the next ste	ep is to load the en	gine data	Exit transport mode
⊖ Mar	uually input known ISN			Replace FEM/BDC
			Next	View help
	C rey15	*****		Write EEPROM
ECU Info VIN LEV8W3106JMM3689	OBD is connecting	VIN		Backup FAFP
ECU Info VIN LBV8W3106JMM3689 ECU type FEM	OBD is connecting OBD KWP-CAN 500kbps con on successfully	necti ID Key Numbe:	r	Backup FAFP Restore FAFP
ECU Info VIN LBV8W3106JMM3689 ECU type FEM Mileage 0 Remote frequency 433	OBD is connecting OBD KWP-CAN 500kbps con on successfully	Necti ID Key Numbe: Key Type Key Freque	r	Backup FAFP Restore FAFP Reset starter

Take reading the car key successfully as an example:

Keep the original car key near the key sensor area to generate key information.

FEM/BDC Key Match	Feature version:001			_ ×
HWEL_00000792_000_005_002	KeyInfo	Used	Enable	Generate dealer kev
HWAP_00000F26_255_255_255 HWAP_00000F2B_255_255_255	O Key2 AD9C4333	Used	Enable	Restore Coding
HWAP_00000F2C_255_255_255 HWAP_00000F2D_255_255_255	Key3 Key4 FFFFFFF	Unused	Enable	Delete key
HWAP_00000F2E_255_255_255 HWAP_00000F30_255_255_255	O Key5	Unused	Enable Enable	Enable key
HWAP_000001263_255_255_255 HWAP_00001263_255_255_255 BTLD 00001556_003_102_030	Keyo Keyo Keyo Ferences	Unused	Enable	Disable key
SWFL_0000155E_018_120_010 SWFL_0000155F_000_003_029	Read the entities have been seen		.e	Mileage reset
CAFD_00000794_018_070_003	ea below the steering wheel	the key sensor	e .e	Exit transport mode
			.e	Replace FEM/BDC
	Kevl4	onabou	.e	View help
	O Key15	Unused	Enable	Write EEPROM
ECU Info VIN LBV8W3106JMM3689	OBD is connecting	VIN		Backup FAFP
ECU type FEM	on successfully	Key Number		Restore FAFP
Remote frequency 433		Key Type Key Frequenc	e	Reset starter
Chassis F020		Key Status		

4.3.3 Restore Coding

Load code document, coding succeeded.

FEM/BDC Key Match	Feature version:0015	_ ×
HWEL_00000792_000_005_002	KeyInfo Key1 7727FC32 Used	Enable Generate dealer key
HWAP_00000F26_255_255_255 HWAP_00000F2B_255_255_255	Key2 AD9C4333 Used	Enable Restore Coding
HWAP_00000F2C_255_255_255 HWAP_00000F2D_255_255_255	Key3 Key4 FFFFFFF Unused	Enable Delete key
HWAP_00000F30_255_255_255	O Key5 FFFFFFF Unused	I Enable Enable key
HWAP_00000F32_255_255_255 HWAP_00001263_255_255_255	Key6 E204F622 Unused Key7 FFFFFFF Unused	i Enable Disable key
BTLD_00001556_003_102_030 SWFL_0000155E_018_120_010	O Key8 C276EF36 Used	Enable Mileage reset
SWFL_0000155F_000_003_029 CAFD_00000794_018_070_003	O Key9 CFFFFFFF Unused	Enable Exit transport
	O Key11 Crrrrrrr Unused	Enable Replace FEM/BDC
	O Key12 FFFFFFF Unused	l Enable View help
	O Key14	l Enable Write FEDROM
ECU Info	O Key15 FFFFFFF Onused	
VIN LEV8W3106JMM36893	OBD is connecting VIN OBD KWP-CAN 500kbps connecti ID	Backup FAFP
ECU type FEM Mileage 0	on successfully Key N	umber Restore FAFP
Remote frequency 433	Key F	requence Reset starter
Chassis F020	Key S	tatus

4.3. 4 Mileage Reset

FEM/BDC Key Match	Feature version:0015	_ ×
FEM/BDC Key Match HWEL_00000792_000_005_002 HWAP_00000F26_255_255_255 HWAP_00000F2B_255_255_255 HWAP_00000F2D_255_255_255 HWAP_00000F2D_255_255_255 HWAP_00000F30_255_255_255 HWAP_00000F30_255_255_255 HWAP_00001263_255_255_255 BTLD_00001556_003_102_030 SWFL_0000155F_000_003_029 CAFD_00000794_018_070_003	KeyInfo • KeyInfo • Key1 1727Ec32 • Key2 AD9C4333 Used • Key3 79662937 Used Enable • Key4 FFFFFFF Unused Enable • Key5 FFFFFFF Unused Enable • Key6 5204F622 Used Enable • Key6 5204F622 Used Enable • Key6 5204F622 Used Enable • Key7 FFFFFFF Unused Enable • Key8 6276EF36 Used Enable • Key10 FFFFFFFF Unused Enable • Key11 FFFFFFFF Unused Enable • Key12 FFFFFFFF Unused Enable • Key13 FFFFFFFF Unused Enable • Key14 FFFFFFFF Unused Enable	Generate dealer key Restore Coding Delete key Enable key Disable key Mileage reset Exit transport mode Replace FEM/BDC View help
	O Key15 FFFFFFFF Unused Enable	Write EEPROM
ECU Info VIN LEV8W3106JMM36893	OBD is connecting VIN	Backup FAFP
ECU type FEM	OBD KWP-CAN SUUKbps connect1 ID on successfully Key Number	Restore FAFP
Mileage 0 Remote frequency 433 Chassis F020	Key Type Key Frequence Key Status	Reset starter

4.3.5 Exit Transport Mode

FEM/BDC Key Match	Feature ver	sion:0015				×
HWEL 00000792 000 005 002	KeyInfo	[22022200]]	Ised	Fnahle	Generate dealer	
HWAP_00000F26_255_255_255	O Keyl	[7727FC32		Enable	кеу	
HWAP_00000F2B_255_255_255	О Кеу2	AD9C4333	Jsed	Enable	Restore Coding	
HWAP_00000F2C_255_255_255	О Кеу3	79682937	Jsed	Enable		
HWAP_00000F2D_255_255_255	O Key4	FFFFFFFF	Jnused	Enable	Delete key	
HWAP_00000F2E_255_255_255	O Kev5	FFFFFFF	Jnused	Enable		
HWAP_00000F30_255_255_255 HWAP_00000F32_255_255_255	O Key6	B204F622	Jsed	Enable	Enable key	
HWAP_00001263_255_255_255	Key7	FFFFFFF	Jnused	Enable	Disable key	
BTLD_00001556_003_102_030	O Key8	C276EF36	Jsed	Enable		
SWFL_0000155E_018_120_010 SWFL_0000155F_000_003_029	O Key9	FFFFFFF	Unused	Enable	Mileage reset	
CAFD_00000794_018_070_003	O Key10	FFFFFFF	Jnused	Enable	Exit transport	
	O Key11	FFFFFFF	Jnused	Enable	mode	J.
	O Key12	FFFFFFF	Jnused	Enable	Replace FEM/BDC	
	O Key13	T	Jnused	Enable	View help	
	O Key14		Jnused	Enable		
	O Key15	FFFFFFF	Jnused	Enable	Write EEPROM	
ECU Info	OBD is connecting		VTN		Backup FAFP	
VIN LBV8W3106JMM3689	B OBD KWP-CAN 500kbr	os connecti	TD			
ECU type FEM	on successfully		Kev Numbe	r	Restore FAFP	
Mileage 0			Key Type	_		
Remote frequency 433			Key Frequ	ence	Reset starter	
Chassis F020			Key Statu	s		

4.3.6 Replace FEM/BDC

Backup ECU data

HWEL_0000792_000Key1TZTECTUsedEnableGenerate dealer keyHWAP_0000722_255_255_255Key1TZTECTUsedEnableRestore CodingHWAP_0000722_255_255_255Key379692937UsedEnableDelete keyHWAP_0000722_255_255_255Key4TTEFFFTUnusedEnableDelete keyHWAP_0000732_255_255_255Key61204F622UsedEnableDelete keyHWAP_0000755_001_02_030Key7TEFFFFTUnusedEnableDisable keySWFL_0000794_0155_001_02_030Key9TEFFFFTUnusedEnableDisable keySWFL_0000794_016_070_003Key10TEFFFFTUnusedEnableExit transport modeSWFL_0000794_016_070_003Key11TEFFFFTUnusedEnableExit transport modeSWFL_0000794_016_070_003Key11TEFFFFTUnusedEnableExit transport modeSWFL_0000794_016_070_003Key11TEFFFFTUnusedEnableKep10Key11TEFFFFTUnusedEnableKep10TEFFFFTVINLBV6W3106JMM36693Key14TEFFFFTUnusedEnableKep10VINLBV6W3106JMM36693OEDis connecting on successfullyVINBackup FAFPMileage0Key1 StatusKey StatusKey StatusKest Statter	FEM/BDC Key Match	Feature version:0015	_ ×
SWFL_0000155F_018_120_010 Nerve Mileage reset SWFL_0000155F_000_003_029 Neve Neve Unused Enable CAFD_00000794_018_070_003 Neve Fremerer Unused Enable Exit transport CAFD_00000794_018_070_003 Neve Fremerer Unused Enable Exit transport CAFD_00000794_018_070_003 Neve Fremerer Unused Enable Exit transport Nused Key11 Fremerer Unused Enable Replace FEM/BDC Key12 Fremerer Unused Enable View help Key14 Fremerer Unused Enable Write EEPROM ECU Info OBD is connecting OBD KWP-CAN 500kbps connecti VIN Backup FAFP Nileage 0 Bockup FAFP Restore FAFP Restore FAFP Mileage 0 Successfully Key Trequence Rest starter Key Status F020 Key Status Reset starter	PEM/BDC Key Match HWEL_00000792_000_005_002 HWAP_00000726_255_255_255 HWAP_00000728_255_255_255 HWAP_00000720_255_255_255 HWAP_00000720_255_255_255 HWAP_00000730_255_255_255 HWAP_00000732_255_255_255 HWAP_00001263_255_255_255 BTLD_00001556_003_102_030	Feature version:0015 KeyInfo Key1 7727FC32 Vsed Enable Key2 AD9C4333 Used Enable Key3 79682937 Used Enable Key4 FFFFFFFF Used Enable Key5 FFFFFFF Vsed Enable Key6 E204F622 Vsed Enable Key8 C27(6F236 Vsed Enable	Cenerate dealer key Restore Coding Delete key Enable key Disable key
• Keyl1 ITITITIT Unused Enable Replace FEM/BDC • Keyl2 ITITITIT Unused Enable Replace FEM/BDC • Keyl3 ITITITIT Unused Enable View help • Keyl4 ITITITIT Unused Enable Write EEPROM • Keyl3 ITITITIT Unused Enable Write EEPROM • Keyl4 ITITITIT Unused Enable Write EEPROM • Keyl5 ITITITIT Unused Enable Write EEPROM • Keyl5 ITITITIT Unused Enable Restore FAFP VIN LBV6W3106JNM36893 OBD KWP-CAN 500kbps connection on successfully VIN Backup FAFP Mileage 0 Restore FAFP Restore FAFP Key Type Key Type Rest starter Reset starter Key Status F020 View Status Reset starter	SWFL_0000155E_018_120_010 SWFL_0000155F_000_003_029 CAFD_00000794_018_070_003	Key8 Z/OEF3C Linking Key9 FFFFFFF Unused Enable Key10 FFFFFFF Unused Enable	Mileage reset Exit transport mode
ECU Info OBD is connecting VIN LBV%W3106JMM36893 ECU type FEM Mileage 0 Remote frequency 433 Chassis F020		Keyl1 FFFFFFF Unused Enable Keyl2 FFFFFFF Unused Enable	Replace FEM/BDC
ECU Info OBD is connecting VIN LEV8W3106JMM36893 OBD is connecting VIN Backup FAFP ECU type FEM OBD is connecting DID Key Number Restore FAFP Mileage O Remote frequency 433 Key Status Reset starter		O Key13 FFFFFFF Unused Enable 0 Key14 FFFFFFF Unused Enable	View help
ECU Info OBD is connecting VIN Backup FAFP VIN LBV803106JMM36893 OBD KWP-CAN 500kbps connection ID Backup FAFP ECU type FEM on successfully Key Number Restore FAFP Mileage 0 Key Frequence Key Frequence Reset starter Chassis F020 F020 F020 F020		O Key15 FFFFFFF Unused Enable	Write EEPROM
VIN LBVSW3106JMM35693 OBD KWP-CAN 500kbps connecti ID ECU type FEM on successfully Key Number Restore FAFP Mileage 0 successfully Key Type Reset starter Remote frequency 433 Key Status Reset starter	ECU Info	OBD is connecting VIN	Backup FAFP
Mileage 0 Key Type Remote frequency 433 Key Frequence Chassis F020 Key Status	ECU type FEM	OBD KWP-CAN 500kbps connecti ID on successfully Key Number	Restore FAFP
Chassis F020 Key Status	Mileage 0 Remote frequency 433	Key Type Key Frequence	Reset starter
	Chassis F020	Key Status	

4.3.7 Read ECU Data

H.,

TEM/BDC Key Match	F	eature vers	Replace FEM/H	3DC	
HWFT, 00000792 000 005 002	<u> </u>	-KeyInfo-	Name	Data(Double click	to modify)
HWAR 00000F26 255 255 255		O Key1	VIN	LBV8W3106JMM36893	
HWAR 00000F28 255 255 255		O Key2	Freq	05 - 434 MHz	
HWAR 00000F2C 255 255 255		O Forr2	Date	14010/E33031353054	455354
HWAR 00000F20 255 255 255		O VEA2	TSN	00000000	r r r r r r r r r r r r r r r r r r r
HWAR 00000F2F 255 255 255		O Key4	Secret Key	ED2B2DAD4629A55818	C19F8C3DD8CF45
HWAR 00000F26_255_255_255		O Key5	CAS_ISN	EEDC974CD5065D0A67	96086E00DF4FD9
HWAR 00000F32 255 255 255		O Key6	KEY_SYN_CODE	000000000000000000000000000000000000000	
HWAR 00001263 255 255 255		O Reyo	Key0	7727FC32	
BTLD 00001556 003 102 030		⊛ Key7	Key1	AD9C4333	
SWEL 0000155E 018 120 010		О Кеу8	Key2	79082937	
SWEL 0000155E 000 003 029		O Kev9	Key4	FFFFFFFF	
CAFD 00000794 018 070 003		0 - 10	Key5	B204F622	
		O Keylo	Кеуб	FFFFFFFF	
		O Key11	Кеу7	C276EF36	
		O Key12	Кеу8	FFFFFFFF	
		0 7	Key9	FFFFFFFF	
		O VEAT2	Keylu FFFFFFF Kowli FFFFFFF		
		O Key14	Key12	FFFFFFFF	
		O Key15	Key13	FFFFFFFF	
PCU Info			Key14	FFFFFFF	
UTN IDU0W210C 7822C0	OBD is	connecting	Key15	FFFFFFFF	
VIN LBV8W3106JMM368	OBD KW	P-CAN 500kbps		Treed man dee	matter more date
ECU type FEM	on suc	cessfully	Read ECU data	Load ECU data	Write ECU data
Mileage 0	Readin	g data	Backup FAFP	Restore FAFP	Calc FCU data
Remote frequency 433	Read o	lata successful			
Chassis F020			Reset starter	Calc ELV data	Description

4.3.8 Load ECU Data

EM/BDC Key Match	Feature vers	Replace FEM/I	BDC	
	KeyInfo-	Name	Data(Double click	to modify)
HWEL_00000792_000_005_002	O Key1	VIN	LBV8W3106JMM36893	
HWAP_00000F26_255_255_255	0 7	Freq	05 - 434 MHz	
HWAP_00000F2B_255_255_255	O Keyz	Date	140107E33031353054	455354
HWAP_00000F2C_255_255_255	О Кеу3	WUP	5BE1F708FFFFFFFFFF	FFFFFF
HWAP_00000F2D_255_255_255	O Key4	ISN	0000000	
HWAP_00000F2E_255_255_255	C mol .	Secret_Key	ED2B2DAD4629A55818	C19F8C3DD8CF45
HWAP_00000F30_255_255_255	O Key5	CAS_ISN	EEDC974CD5065D0A67	96086E00DF4FD9
HWAP 00000F32 255 255 255	O Key6	KEY_SYN_CODE	000000000000000000000000000000000000000	
HWAP 00001263 255 255 255	0 77	Keyu	7727FC32	
BTLD 00001556 003 102 030	O Vel 1	Key1	79682937	
SWET, 0000155E 018 120 010	O Key8	Key2	FFFFFFF	
SWET. 0000155E 000 003 029	O Kev9	Key4	FFFFFFFF	
CAED_000001331_000_003_023	C mars	Kev5	B204F622	
CAED_00000734_018_070_003	O Key10	Key6	FFFFFFFF	
	O Key11	Key7	C276EF36	
	O Kaul 2	Кеу8	FFFFFFF	
	O Veliz	Кеу9	FFFFFFFF	
	O Key13	Key10	FFFFFFFF	
	O Kev14	Key11	FFFFFFFF	
	0 10111	Key12	FFFFFFFF	
	C Key15	Key13	FFFFFFFF	
ECU Info	-	Key14	FFFFFFF	
VTN LBV8W3106.TMM36893	OBD is connecting	кеутэ	FFFFFFFF	
	OBD KWP-CAN 500kbps	Road FCII data	Load FCII data	Write FCU data
FEM FEM	on successfully	Reau Eco data	BOAU ACO UALA	WIILE ECO UALA
Mileage 0	Reading data	Backup FAFP	Restore FAFP	Calc ECU data
Remote frequency 433	Read data successfu	Dackup Imr	AUSTOFIC THEF	Sare reo data
Chassis F020		Reset starter	Calc ELV data	Description

4.3.9 Write ECU Data

Double-click input, then write ECU data.

FEM/BDC Key Match	Feature vers	Replace FEM/H	3DC	
HWEL_00000792_000_005_002 HWAP_00000F26_255_255_255 HWAP_00000F28_255_255_255 HWAP_00000F28_255_255_255 HWAP_00000F272_255_255_255	KeyInfo Key1 Key2 Key3	Replace FEM/F Name VIN Freq Date WUP TSN	3DC Data(Double click LBV8W3106JMM36893 05 - 434 MHz 140107E33031353054 5BE1F708FFFFFFFF 00000000	to modify) 455354 FFFFFF
HWAP_0000072E_255_255_255 HWAP_0000072E_255_255_255 HWAP_00000F30_255_255_255 HWAP_00000F32_255_255_255 HWAP_00001263_255_255_255	 Key4 Key5 Key6 Key7 	Secret_Key CAS_ISN KEY_SYN_CODE Key0 Key1	ED2B2DAD4629A55818 EEDC974CD5065D0A67 0000000000000000 7727FC32 AD9C4333	C19F8C3DD8CF45 96086E00DF4FD9
ETLD_00001556_003_102_030 SWFI_0000155E_018_120_010 SWFI_0000155F_000_003_029 CAFD_00000794_018_070_003	 Key8 Key9 Key10 Key11 Key12 Key13 Key14 	Key2 Key3 Key4 Key5 Key6 Key7 Key8 Key9 Key10 Key11 Key12	79682937 FFFFFFFF FFFFFFFF 8204F622 FFFFFFF 276EF36 FFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF	
ECU Info VIN LBV8W3106JMM36893 ECU type FEM Mileage 0 Remote frequency 433 Chassis F020	O Rey15 OBD is connecting OBD KWP-CAN 500kbps on successfully Reading data Read data successfu	Key12 Key13 Key14 Key15 Read ECU data Backup FAFP Reset starter	FFFFFFFF FFFFFFFF FFFFFFFF Restore FAFP Calc ELV data	Write ECU data Calc ECU data Description

5.BMW CAS 3 Key Match



5.1 Functions

Load CAS data Check key status

Instructions



5.2 The Process of CAS3 Generating dealer's Key

- © Load CAS EERPOM data. CAS read requires programmer.
- © Select key number that needs programming.
- © Click "generate dealer's key" button. Please follow tips to input ISN code if it is CAS3+.

CAS3 Key	Macth	Featu	re versi	on:0004		_ ×
	VIN: WBAFG4109	AL388811	CAS	Version: CAS3+	ISTAP	
Tooth	code: HA00023804	1	Remote fr	equency: 315		
Key Numbe	er Key ID	Key Status				1
O Keyl	9E926497	Enabled				
O Key2	BMW CAS OBD F	Key Macthing			×	
🔿 Кеу3	CAS3 encryption please choose th put the key in	version matching e way of getting nto the CGDI progr	key need to ISN code ammer coil	enter the engine	ISN,	
⊖ Кеу4	🔿 Engine data is	ready, the next	step will l	oad the engine dat	a	
⊖ Кеу5	O Manually enter	a known ISN				
🔿 Кеуб	O Tru to pull or	d incort the key	16 on 64 ti	0		
🔿 Кеу7	U HY to pull al	a insert the key	10 01 04 01	Nez	xt	
О Кеу8	FFFFFFF	Enabled				
🖲 Кеу9	FFFFFFFF	Enabled				
O Key10	FFFFFFFF	Enabled				
Ger	nerate dealer ke	ey Check K	ey Status	Unlock	the key	

6.BMW DME and CAS Read ISN

6.1 Read CAS ISN

Connect OBD before starting engine, then open software.

Select reading DME ISN or reading CAS ISN to identify.



BMW ISN	Function version:0009 _ ×				
	40 50 60 30 100% 70 20 80 10 90 0 100	Wiring diagram • Read DME ISN			
ЕСИ Туре		Write DME ISN			
DME ISN CAS ISN	85768505120502585334734355525406	Read CAS ISN			
OBD is conn OBDII-KWP c	ecting onnection successfully	Write CAS ISN			
Read data s	uccessfully	Read Cas ISN(4B)			
		Write CAS ISN(4B)			

6.2 Read DME ISN

6.2.1 Approach 1: directly read ISN code on vehicle.

Be sure that the car voltage is above 12V, and directly connect OBD to operate for 5 minutes.

BMW ISN	Function version	on:0009 _ ×
	20 80 10 90 0 100 80 10 90 0 100	Wiring diagram 🔹
ЕСИ Туре		Write DME ISN
DME ISN CAS ISN BE	76BEDF12DEC25BE3A47A4AEFE254C6	Read CAS ISN
OBD is connec	ting	Write CAS ISN
Read data suc	cessfully	Read Cas ISN(4B)
		Write CAS ISN(4B)

6.2.2 Approach 2: directly dismantle engine computer (DME) operation

Wiring diagram instructions as follows:





MSV80/D80/D81/test station wire connecting



MSD85/D85.0/D85.1/D85.2/D85.3 test station wire connecting

Replace engine computer.

Read the ISN of new computer, then read CAS ISN.

7. BMW Diagnosis

Connect the OBD to open software, pop up prompt box. Yes: quick scan. No: full scan.

BMW Diagnosis	Feat	re version:00	02		_ ×
Series:1'_F20	Model:116i_N13	Date:2012_10	VIN:WBA1A1106DJ1	.52982	
Number ECU N	ame		Address	ECU State	Read FaultCode
					Clear FaultCode
		Prompt	5	<	Clear AllCode
		U Whethe	er to Scan Vehicles Quickly ?		Read Help
		L	是(Y) 否(N)		Back
OBD is connecti OBD KWP-CAN 500 Reading data	ng Ndops connection su	ccessfully			

Select ECU, click to read error code.

BMW Diagnosis	Feature version:0002			
Series:1'_F20	Model:116i_N13 Date:2012_10 VIN:W	BA1A1106DJ	152982	
Number ECU Nam	me	Address	ECU State	Read FaultCode
1 Centra	l Gateway Module	10	Fault 5	
2 Front	electronic module	40	Fault 38	
Power	r window, driver's door: line disconne	03000E	Forever	Clear FaultCode
Power	r window, driver's door: line disconne	03000F	Forever	Clear AllCode
Power alid	r window regulator, driver's door: inv characteristic curve, normalisation 1	030015	Forever	Read Help
oss Power age a	r window, driver's door: no input volt at relay	03001E	Forever	Back
Portos	unindou driverla deere quatem is not	020020	Parattar	
Read Oata success Entering the sys Enter the system Reading the DTC. Read DTC success	sfully stem 1 successfully! fully!			
And the second se				

8. CAS4 Key Match key Producing

8.1 Load CAS4 Data Document



Click to load CAS data

BMW CAS4 Key	Macth		×
Load Cas Da	ata Cl	neck Key Status Instructions	5
打开			
$\leftarrow \rightarrow - \uparrow$	> 此电脑 >	本地磁盘 (D:) > work > testData_check and change	
组织 ▼ 新建文(件夹		
三 桌面	* ^	名称 ^	修
↓ 下载	*	😋 0M23S EEPROM 原始数据(New).bin	
国文档			20
E ×14	A	🖙 1.bin	20
	*		20 20 20
Ⅲ 图片 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	*	 1.bin 1L15Y-0123(33)EEP(C410368_BMW) 111.BIN 1L15Y-0123(33)EEP_Radio(C410368_BMW).bin 	20 20 20 20
■ 又归 ■ 图片 ■ testData	* *	 4.bin 1L15Y-0123(33)EEP(C410368_BMW) 111.BIN 1L15Y-0123(33)EEP_Radio(C410368_BMW).bin 1L15Y-0123(33)改1EEP(C410368_BMW).BIN 	20 20 20 20 20
■ 文1日 ■ 图片 testData testData_che	* *	 CG 1.bin CG 1L15Y-0123(33)EEP(C410368_BMW) 111.BIN CG 1L15Y-0123(33)EEP_Radio(C410368_BMW).bin CG 1L15Y-0123(33)改1EEP(C410368_BMW).BIN CG 1L15Y-0123(33)改EEP(C410368_BMW).BIN 	20 20 20 20 20 20

Display key information, click unused key number to operate.

Select an unused key, then click to Generate dealer's Key" button, follow tips to input

ISN,	then	click	"next"	button.
------	------	-------	--------	---------

BMW CAS4	Key Macth	Function version:0004	_ ×
VIN:LBVFP3	3908BSE45653	CAS Version: CAS4	
Key Number	r Key ID	Key Status	
O Keyl	319BC832	Used	
⊖ Key2	69B8C832	Used	
⊙ Кеу3	FFFFFFFF	Unuse	
⊙ Кеу4	FFFFFFFF	Unuse	
🔿 Кеу5	FFFFFFFF	Unuse	
🔿 Кеуб	FFFFFFFF	Unuse	
🔿 Кеу7	FFFFFFFF	Unuse	
О Кеу8	FFFFFFFF	Unuse	
О Кеу9	FFFFFFFF	Unuse	
O Key10	FFFFFFFF	Unuse	
ISN 281955	567A97C2343B2EF1	7E38F8E6D3A	
Gen	erate dealer k	ey Check Key Status Read Worki	ng Key ISN

To generate dealer's key, CAS 4+ requires inputting ISN according to tips.
BMW CAS4	Key Macth	Function version:0004	_ ×
VIN:LBV5S	1100GSK80390	CAS Version: CAS4+	
Key Numbe	r Key ID	Key Status	
🔿 Кеу1	C2A32035	Used	
⊖ Key2	B0A32035	Used	
⊙ Кеу3	BMW CAS4 Key	Macth	×
⊖ Key4	CAS4 encryption please select t Read Working	n version key matching need to enter engine ISN, the way of input ISN code Key	
🔾 Кеу5	🔿 Engine data :	is ready, the next step is to load the engine da	ta
🔿 Кеуб	O Manually inpu	ut known ISN	
О Кеу7			
⊛ Key8		Nex	t
🔾 Кеу9	FFFFFFFF	Unuse	
🔿 Key10	FFFFFFFF	Unuse	
ISN			
Ger	nerate dealer (key Check Key Status Read Worki	ng Key ISN

Take successful reading car key for an example.

BMW CAS4 K	ey Macth	Function version:0004	_ ×
VIN:LBVFP39	08BSE45653	CAS Version: CAS4	
Key Number	Key ID	Key Status	
🔿 Кеуl	319BC832	Used	
О Кеу2	69B8C832	Used	
⊙ Кеу3	FFFFFFF	Unuse	
🔿 Кеу4	FFFFFFFF	Prompt X	
🔿 Кеу5	FFFFFFFF	pls put key into the CGDI programmer coil.	
🔿 Кеуб	FFFFFFF	-	
⊖ Кеу7	FFFFFFFF		
○ Кеу8	FFFFFFF	Unuse	
🔿 Кеу9	FFFFFFFF	Unuse	
O Key10	FFFFFFFF	Unuse	
ISN 2B19556	7A97C2343B2E	F17E38F8E6D3A	
Gener	cate dealer	key Check Key Status Read Working Key ISN	

8.2 Check Key Status

BMW CAS4 Key Mact	th		_ ×
		Error	X Io key found
Load Cas Data	Check Key Status		确定

8.3 Instructions



9. BMW Enable / Disable Key

9.1 Display Key Information

BMW	Enable/Disable key	7 Fe	ature version:0	001 _ ×
	VIN: Car Series:		Current Key:	
Pos. O	ition Type Key1 Key2	Status	OBD is connecting OBD KWP-CAN 500kb on successfully	ps connecti
•	Ke BMW Enable/Disabl	le key rtically in	the key sensing a	×
0	of the direction	n column		
0	Key/			
0	Кеу8 Кеу9			
0	Key10			9
	Display Key Information	Disable Th	ne Key Enab	le The Key

9.2 BMW Enable / Disable Key

Select key to enable / disable

BMW	Enable	e/Disable	key Fe	ature	version:0001	_ ×
		VIN: WBAI	IA1106DJ152982	Cu	rrent Key: None	
	Car S	eries:F s	eries			
Pos	sition Key1	Type Used	Status Enabled	OBD is	s connecting NP-CAN 500kbps conr	necti
0	Key2	Used	Enabled	on suc	ccessfully	
0	Кеу3	Unused	Enabled			
0	Key4	Unused	Enabled			
0	Key5	Unused	Enabled			
0	Key6	Unused	Enabled			
0	Key7	Unused	Enabled			
0	Key8	Unused	Enabled			
0	Key9	Unused	Enabled			
0	Key10	Unused	Enabled			
	Displa Inform	y Key ation	Disable Th	ne Key	Enable The	Key

10. BMW F Series Program



This function requires Internet to use.

BMW F Seri	les Program	Feature v	ersio	on:0008	_ ×
VIN: WBA1A1	.106DJ152982	Car Seri	ies: F	020	
Number	ECU Name		ECU A	ddress	1
۱	FEM GW		10		
* 2	FEM BODY		40		
					Read ECU Info
					Begin Program
					Advanced Mode
OBD is conn	ecting				2
OBD KWP-CAN Reading data Read data s	500kbps connection a uccessfully	successfully	Ŷ		
					Initial ECU

10.1 Programming

Click and pull down, then choose ECU to start programming.

BMW F Ser:	ies Program	Feature	version:0008		_ ×
VIN: WBA1A1	106DJ152982	Car Se	ries: F020		
Number	ECU Name		ECU Address		1
1	FEM GW		10	-	
* 2	FEM BODY		40		
	HWEL_00000792_000	004_007			Read ECU Info
	HWAP_00000F26_255	255_255			Stan 1
	HWAP_00000F2B_255	255_255			5
	HWAP_00000F2C_255	5_255_255			505
	HWAP_00000F2D_255	255_255			Zans
	HWAP_00000F2E_255	255_255			Begin Program
	HWAP_00000F30_255	5_255_255			
	HWAP_00000F32_255	255_255			
	HWAP_00001263_255	255_255			
	BTLD_00001556_003	3_102_030			
	SWFL_0000155E_018	_120_010			
	SMET. 0000155E 000	003 029		1	Advanced Mode
OBD is conn	ecting				\sim
OBD KWP-CAN	500kbps connection	successful	lv		(m.
Reading dat	a		-1		((0))
Read data s	uccessfully				$\overline{}$
					Initial ECU

© Start programming

Select programming file, directly click "ok" in general.

BMW F Series Program Fea	ature version:0008 _	×
VIN: WBA1A1106DJ152982	Car Series: F020	
Number ECU Name	ECU Address	
1 FEM GW BMW F Series	Program _ X	
<pre></pre>	on 556_003_102_030 55F_000_003_029 55E_018_120_010 794_018_070_003 Begin Program	
Read data successful	OK	
car battery voltage:	(m)	
Getting a list of programming files be patient.	es from the server, please	
	Initial ECU	

$\ensuremath{\textcircled{}}$ Whether to choose to modify the frame number

BMW F Se	ries Program	Feature version:0008	_ ×
VIN: WBA1	A1106DJ152982	Car Series: F020	
Number	ECU Name	ECU Address	1
[▶] 1 ▼ 2	FEM GW FEM BODY HWEL_00000792_ HWAP 00000F26	10 40 000_004_007 255 255 255	Read ECU Info
	H BMW F Series H Please confi Correct, plea H VIN is not c H VIN: WBA1A1100 H B	Program rm whether the following VIN is ase modify it in below text box orrect. 6DJ152982 OK	if gin Program
car batter Getting a be patier Downloadin	SWFL_0000155E SWFL_0000155F SWFT_000155F Sy voltage12.05V list of programmin at. g files from the s	018_120_010 non nos nos ng files from the server, please server, please be patient	Advanced Mode
		E.	Initial ECU

© Finish programming



11. BMW F Series Coding

11.1 Function Introduction

- © Read ECU Info
- Backup Coding
- © Coding
- © Restore Coding
- O Modify VO Code
- © Refresh hiding



11.2 How to Use

O Directly click "Read ECU Info" button, other functions need to select one of ECU

in list, then click function you want to use.

◎ BMW F series programming requires Internet connection.

11.3 Function Paradigm

© Backup coding

BMW F Series Coding	Feature version:000a	_ ×
VIN: WBA1A1106DJ152982	Car Series: F020	
ECU Number ECU Name	ECU Address	Read ECU Info
1 FEM GW	10	
2 FEM BODY	40	Backup Coding
		Cading
		Coaring
		Restore Coding
		-
		Modify VO Code
This teature requires net	working, please ensure that the new	Refresh Hiding
twork is normal	sering, produc choard and and he	
OBD is connecting		Back
OBD KWP-CAN 500kbps connec	ction successfully	Duck
Read data successfully		

© Coding

Select ECU that requires coding, the device will display current vehicle battery

BMW F S	eries Coaing	Feature version:000a	_ ×
VIN: WBA	A1A1106DJ152982	Car Series: F020	_
ECU Num	ber ECU Name	ECU Address	Read ECU Info
1	FEM GW	10	
* 2	FEM_BODY	40	Backup Coding
			Backup couring
		Prompt	Coding
		Whether to backup coding data	Restore Coding
		是(Y) 否(N)	Modify VO Code
GDI\UserI FD_000007	Data\WBA1A1106DJ15 794_017_068_021.nd	2982\2020-3-12-11-13-59 FEM_BODY_C	Refresh Hiding
Backup Co This proc wait pa car batte	oding success cess requires get tiently ery voltage11.89V	ting files from the server, pleas	Back

voltage, and remind whether to backup coding data for restore.

12. BMW EGS Change (6HP and 8HP)



12.1 8HP Gear Box Computer Clear Function

CGDI can clear the ISN of 8HP (F and G series, don't support E series) automatic gear box. You can install back to the vehicle after removed totally. The ignition switch will synchronize new ISN automatically to EGS when ignited for the first time. Coding on EGS can be used normally. Please reuse programme function to programme EGS if error occurred.

The red box is SVK version information



12.1.1 EGS wiring diagram, EGS status, clear ISN, reset adapter

BMW EGS ISN	Feature version:0007	_ ×
VIN: WBA1A12070VV26419 SWF1_00000AA4_088_170_009 SVK OF [2018/04/13] HWEL_0000022A_004_012_003 BTLD_00000C7C_012_068_001 SWF1_00000AA4_088_170_009 SVK 10 [2018/03/08] HWEL_0000022A_004_012_003 BTLD_00000C7C_012_068_001 SWF1_00000A81_000_088_001 SWF1_00000AA4_088_170_009 OBD is connecting OBD is connecting OBD KWP-CAN 500kbps conne	ction successfully	Wiring Diagram EGS Status Clear ISN
Amount o	f programming files:	Reset Adapter

12.1.2 Clear ISN

© Clear ISN

BMW EGS ISN Feature version:0007	_ ×
VIN: WBA1A12070VV26419 SWFL_00000A81_000_088_001 SWFL_00000AA4_088_170_009 SVK 11 [2018/04/13] HWEL_0000022A_004_012_003 BTLD 00000C7C 012 068 001	Wiring Diagram
SWFL_00000A81_000_088_001 SWFL_00000AA4_Prompt SVK 12 [2018 HWEL_0000022A BTLD_00000C7C SWFL_00000A81 SWFL_00000A81 SWFL_00000AA4 FLash 1s bein	× EGS Status
Erase Flash successfully The ECU is being programmed ECU programming succeed Verifying Flashs Verify that Flash is correct	Clear ISN
100%	Reset Adapter
Amount of programming files: 2/2	2

- [©] Whether to change the car frame number
- © Programming process

Wait, programming and programming files amount

© Finish ISN remove



12.1.3 Reset Adapter

◎ Follow tips to click "OK" button to finish reset adapter.



12.2 EGS 6HP

◎ Backup data before use.



[©]Backup data before data store.



[©] Backup data before erasing and resetting.



13. BMW E Series Program



Click "Choose ECU" button for programming

	- ×
VIN: WBANA32060B353765 Car Series: E60	-
Address ECU Nombre Part Number Read ECU	info
00 KGM 6962952	
01 SGM 6975687	
40 CAS 9147215 Progra	m
Advance programm	ed ing
Read inc	lex
Back	
ORD is connecting	
OBDII-KWP connection successfully	
Reading data	
Read data successfully	



14. BMW E Series Coding



14.1 Function Introduction

- © Coding
- Backup Coding
- © Recover Coding
- O Alter VO Code
- © Refresh Hiding

14.2 Use Ways and Examples

© Connect device and open software. Programming requires Internet, other functions need left button to select one ECU that you want in list.

© Coding

Select ECU that requires coding, display whether backup coding for restore.

BMW E Series Coding	Function version:0004	_ ×
VIN: WBANA32060B353765	Car Series: E60	
Coding	Address	Coding
CAS	40	
CID	73	
DSC	29	Backup coding
IHKA	78	
KBM	72	
KOMBI	60	Restore Coding
LMA	70	
MASK	63	Modify VO Code
MPM	43	
RLS	45	-
SBSL	a1	Refresh Hiding
	-1	
Backup Coding success		
Back up code successfully, ple	ase continue to code	Back
Seting Code		
South Southing Success		

© Backup Coding

BMW E Series Coding	Function version:0004	_ ×
VIN: WBANA32060B353765	Car Series: E60	
Coding	Address	Coding
CAS	40	
CID	73	
DSC	29	Backup coding
IHKA	78	
KBM	72	
KOMBI	60	Restore Coding
LMA	70	
MASK	63	Modify VO Code
MPM	43	
RLS	45	-
SBSL	al	Refresh Hiding
CDCD	-2	
Coding is being backed up		100 x 10
Backup code file path is:C:\	Program Files (x86)\Changguang\C	Back
GDI\UserData\WBANA32060B353765	5\CAS\2020-3-13-10-16-9 CAS.txt	
Backup Coding success		

© Refresh hiding

Existing item is green, target item is red.

Refresh Hiding	×
Keyword:	Search
- FAHRZEUGTYP	
MOTOR_ART(Current item: benzin_normal)	
benzin_direkt	
benzin_normal	
diesel_direkt	
TYP_LENKUNG(Current item: linkslenker)	
<pre></pre>	
<pre></pre>	
+ BAUART (Current item: limousine)	
H BAUREIHE (Current item: e60)	
HOTOR_HUBRAUM (Current item: n51b30)	1
HAENDERVARIANTE_BNDB (Current item: ece)	
<pre></pre>	
<pre></pre>	
<pre>H KLASSE_BATTERIE (Current item: 110ah)</pre>	
Current item is green, target item is red	
OK	

15. BMW EWS Key Match

BMW EWS Key	Matching	Feature	versi	on:0003		- ×
VIN:			Car:	EWS1 EWS1 EWS2		
Key Position	Key Sta	atus		EWS3 EWS4		
O Keyl			8			
O Key2						
О Кеу3						
О Кеу4						
О Кеу5						
🔿 Кеуб						
⊙ кеу7						
О Кеу8						
О Кеу9						
O Key10						
Load Ke	y Data	Generate	Key	Unlo	ck Key	

Choose type should click "Encrypt and Decrypt Key Data" button.

BMW EWS Key	Matching	Feature	versio	on:0003		_ ×
VIN: WBAHD610	X0GK65988		Car:	EWS1	•	
Key Position	Key Sta	tus				
O Keyl	Used		Reading Read da	data ata succe	ssfullv	
O Key2	Used				-	
О Кеу3	Used					
О Кеу4	Used					
🖲 Кеу5	Unused	-				
🔿 Кеуб	Unused	l				
⊖ Кеу7	Unused					
О Кеу8	Unused	l				
⊙ Кеу9	Unused	I				
○ Key10	Unused	L				
Load Key	y Data	Generate	Кеу	Unlo	ock Key	

Select unused key number to generate dealer's key.

16. Maserati Mileage Check and Adjust

16.1 Read mileage, store data

Maserati Mileage	Feature	version:0003 -	×
SupportCars: LEVANTE95320 (GHIBLI95160	QUARTOPORTE95160	
Kilometre: 958	Mile:	595	
Mileage Info	Adj	ust Mileage	
OBD is connecting OBD KWP-CAN 500kbps connections Security authentication is Safety certification succe Reading data Read data successfully	ection succe s in progre essfully	essfully ess	
	-		

16.2 Adjust mileage, input mileage value



17. Porsche Key Learning

Read basic information

保时捷钥匙学习	功能版本:0003 -	- ×
支持车型: 911和Boxster987		
VIN: WP0AA2988BU760419		
读基本信息	钥匙学习	
OBD正在连接 OBD KWP-CAN 500kbps连接成功 正在进行安全认证 安全认证通过		

Click "Key Learning" button, follow tips to input

Porsche	Кеу	Learn		versio	on:0003		_ ×
Support	Cars:	911 and	Boxster	987			
VIN:	W	P0AA2988BU	J760419				
Read	Prompt			- Ve		×	
OBD is OBD KW	0	pls put the bla	ank key into	the CGDI prog	rammer coil.		
Securit Safety	t	4- 1999-1999-1			确定		
OBD KW Securit	P-CAN ty aut	500kbps c thentication	connecti on is i	on succe n progre fully	essfully		
Balecy	00101		5400055	LULLY			

18. BMW Data Repair



18.1 Data Loading

Select data type firstly, then load data file

BMW 数据修复	功能	能版本:0005 _	×
里程:		加载数据	
数据类型	CAS1	·	
	CAS1 CAS2	保存数据	
遥控频率	CAS3 CAS4	修改频率	
VIN:	N13 N20	修改VIN	
	NSS		
ISN:		修改ISN	
			_
<pre> DME_ISN </pre>			
O EWS_ISN		计值	
O KEY_CODE		11 77	

18.2 Data Modification

Pull down to choose frequency after data loaded, click "modify frequency" button.

BMW 数据修复		功能版本:0005	_ ×
里程:	106768	;	加载数据
数据类型	CAS3	-	保存数据
遥控频率	315 MHz	-	修改频率
VIN:	315 MHz L 315 MHz 434 MHz		修改VIN
CAS ISN:	434 MHz KO		修改ISN
<pre> DME_ISN </pre>			
O EWS_ISN			N / Artis
O KEY_CODE			IT异

It supports VIN code and ISN code alteration, click "Alter" button after manual input.

BMW 数据修复	功能版本:0	005	_ ×
里程:	106768	加载数据	
数据类型	CAS3	▼ 保存数据	
遥控频率	315 MHz	▼ 修改频率	
VIN:	WBAFG4109AL388811	修改VIN	
CAS ISN:	953F42411BC4C6E27D85FD160CDA088	6 修改ISN	
计算			
<pre> DME_ISN </pre>			
O EWS_ISN			
O KEY_CODE		计算	

19. CAS Mileage Reset

The mileage reset function of CGDI can erase mileage information in CAS, support CAS1\CAS2\CAS3\CAS3+\CAS3++. Please dismantle dashboard first, use device to erase mileage information in CAS, install adjusted dashboard back, then the mileage data in dashboard will synchronize to CAS automatically.



19.1 Erase Mileage

After entering the CAS mileage reset function, the basic information and mileage of the CAS can be seen. (The mileage needs to be connected with the dashboard)



Click "Erase Mileage" button

Some CAS versions need to degrade programming before mileage reset.

Cautions: be sure that the battery can last more than 30 minutes, do not disconnect the cable during the programming process.



Pull out the key in ignition lock

Display current programming process

Check FLASH

Please follow tips to adjust mileage after programming succeeded.

Step 1: power off, pull out the key, and remove the dashboard to adjust, then click confirm.

Caution: be sure that the dashboard has been removed from vehicle, then click "OK" button.



Step 2: put the adjusted dashboard back. Then click "OK" button.



Step 3: Insert key. Power on. Then click "OK" button.


Step 4: power off, then click confirm to complete mileage synchronization.



When mileage reset display succeeded, a new mileage can be seen after re-entering the mileage reset function.

20. N13/N20/N55/B38 Read and Write ISN



Pull down to select chip



Read and write ISN, click "write ISN" button will read backup data first.

N13/N20/N55/B38 Read/Write ISN Function version	n:0003 _ ×
Connecting	Wiring Diagram
Chip: TC1797	
SN: 4180050902409C887408001011140000 HardwareID: 019100002018000001C0530001C05500	Identification
Flash0 PROCON0:0000DFFF	
Flash0 PROCON1:00000000 Flash0 PROCON2:00008020	Read ISN
Flash1 PROCON0:0000DFFF	
Flash1 PROCON2:00000000	Write ISN
Connecting	
Connection succeed.	Back
Chip: TC1797	
HardwareID: 019100002018000001c0530001c05500	
Flash0 PROCON0:0000DFFF	
Flash0 PROCON1:00000000	
Flash1 PROCON0:0000DFFF	

21. B48 B58 Read ISN





22. MSD80/81/85/87 MSV80/90 read ISN



MSD80/81/85/87/MSV90 Read ISN Function	n version:0008 _ ×
Connecting Connection succeed. VIN: 5UXZV8C50CL423211 Identification: 7649411 Type: ECMEngineControl Getting ECU authorization Connecting to the server to get the authorizati on code, please ensure network goes smoothly an d wait patiently for a moment	Wiring Diagram
	Identification
	Read ISN
Verify authorization successfully. ISN:5E5F921C0BAFB160F2161436AE2208B3	Back
-	

23. ICOM Function

CGDI	Device activat	ion time remaining 17 days	0 🚨 🛛 🞯 🌣 🗕 ×
Maser	ati Change KM	95128/95256	Porsche Key Learning
BMW	Data Repair	CAS Mileage Reset	N13/N20/N55/B38 Read/Write ISN
B48	B58 Read ISN	MSD80/81/85/87/MSV80/90 Read ISN	ICOM Function
	Previous		Next

Please operate as instructions showed.

ICOM Function	- ×
Send data:	
Receive data:	Instructions for use
Registering, please wait Registration is successful, ICOM function ed, there are instructions for use above	n can be us
Click "Yes" when popping up. This featu networking, and does not support XP com system. If there is a problem with the please watch the documentation	re requires puter connection,