

How to add CAS4&CAS4+ key by OBD

Equipment: CGDI BMW

Function: BMW key match(OBD)

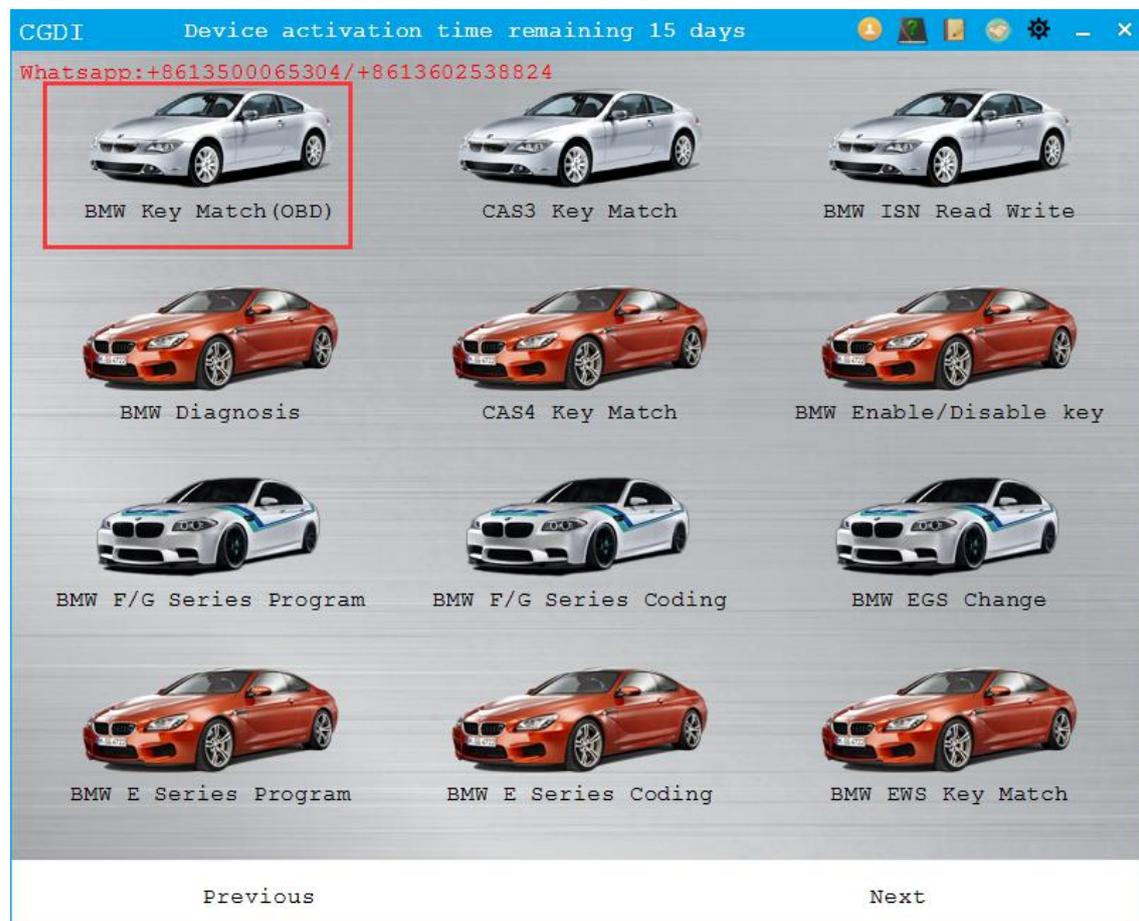
Function: BMW CAS4/CAS4+ OBD add key

Preparation before operation: Must make sure your car is sufficient power and stable voltage

Dear User, To avoid data loss, we recommend to read CAS with a suitable programmer and save backup. Please make sure you are using a proper voltage stabilizer (100 Amps recommended) that can maintain a voltage of at least 13.5 Volts during the OBD key matching, failure to do so may damage CAS.

BMW key match (OBD)

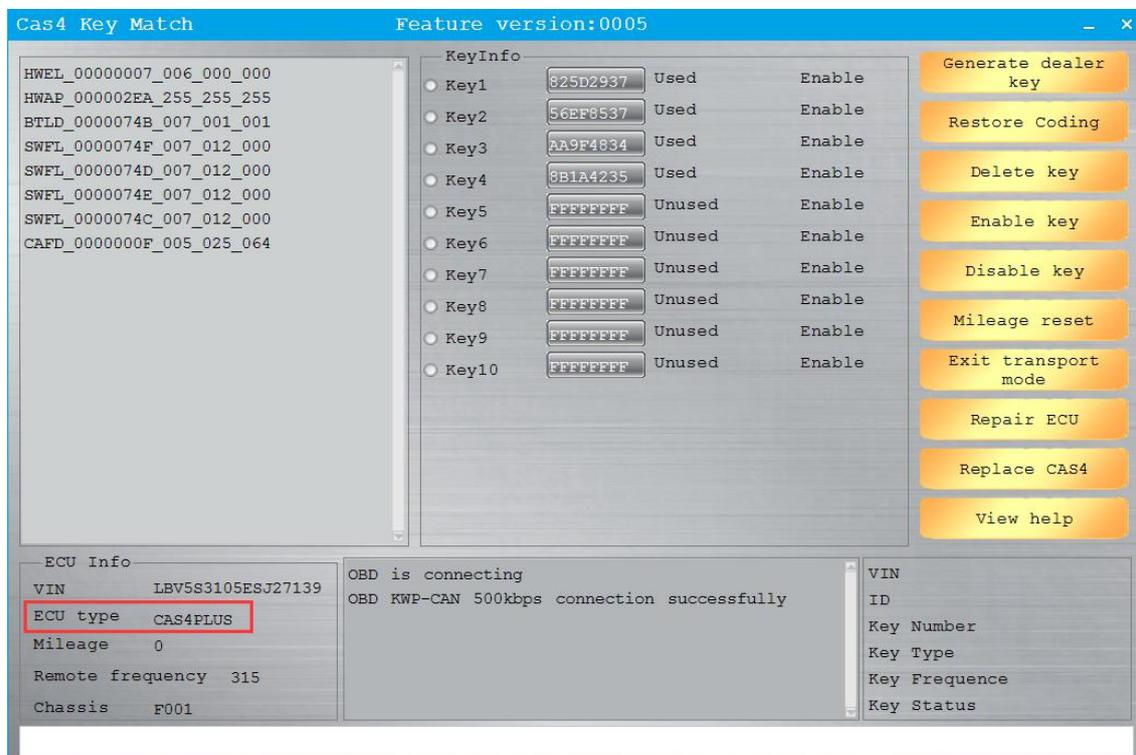
1. Open CGDI BMW software and enter into BMW key match (OBD).



2. if you don't know your CAS version , Click "Auto".

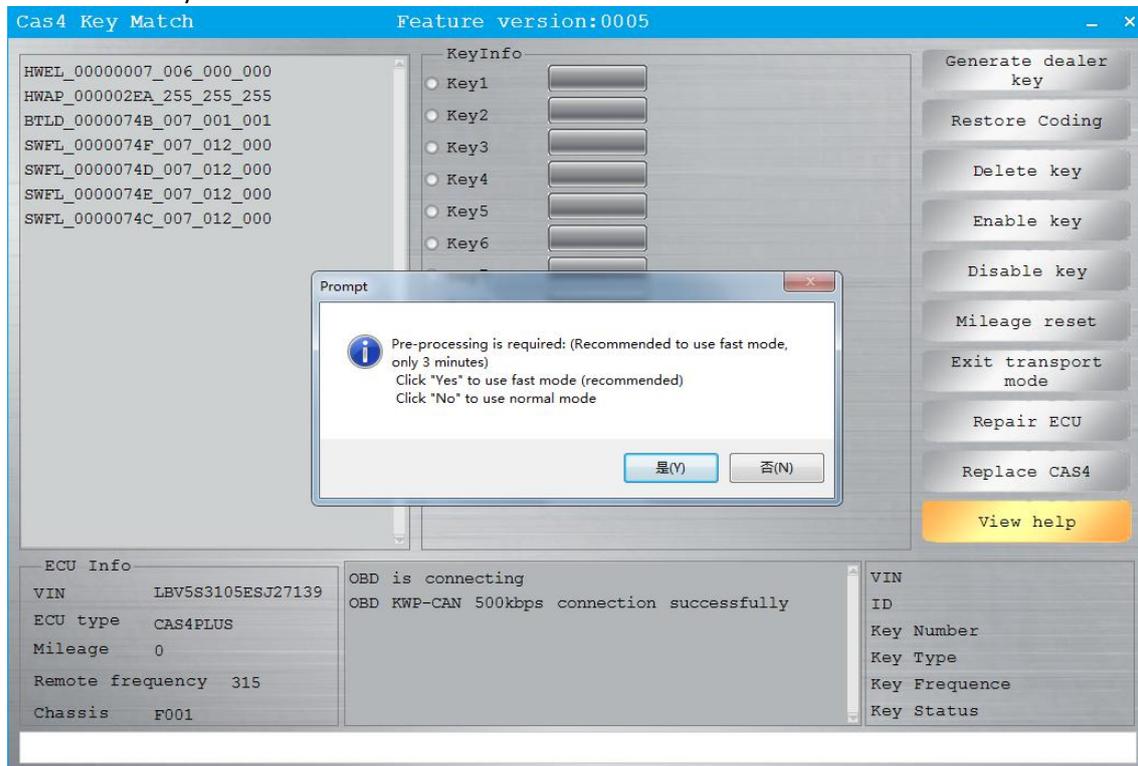


Tips: The software will automatically recognizes the CAS type. if It shows CAS4, which is not encrypted, No need ECU ISN when you add key without key . if It it shows CAS4 PLUS, which is encrypted, You need ECU ISN when you add key without key.

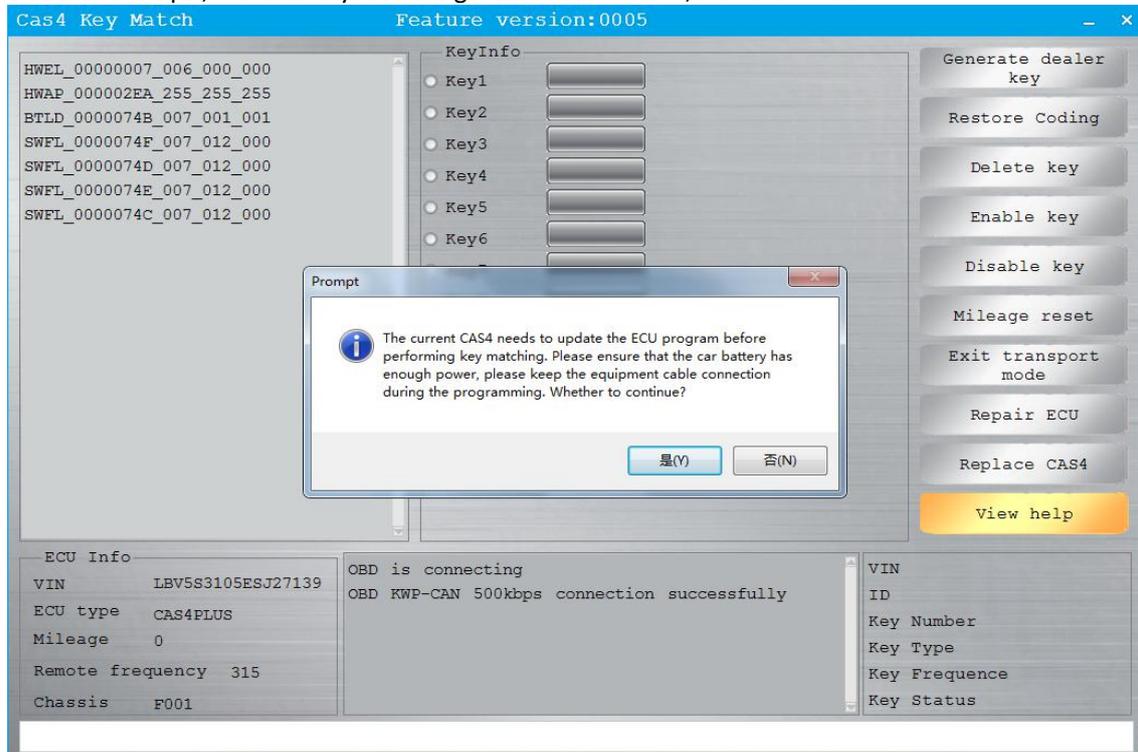


3. "Pre-processing is required" pops up (some cars do not pop up this item when doing this, means that the "pre-processing" step has been done, and you can direct to add a key), click "Yes" to select the fast mode. MAKE SURE PROPER VOLTAGE IS PRESENT!

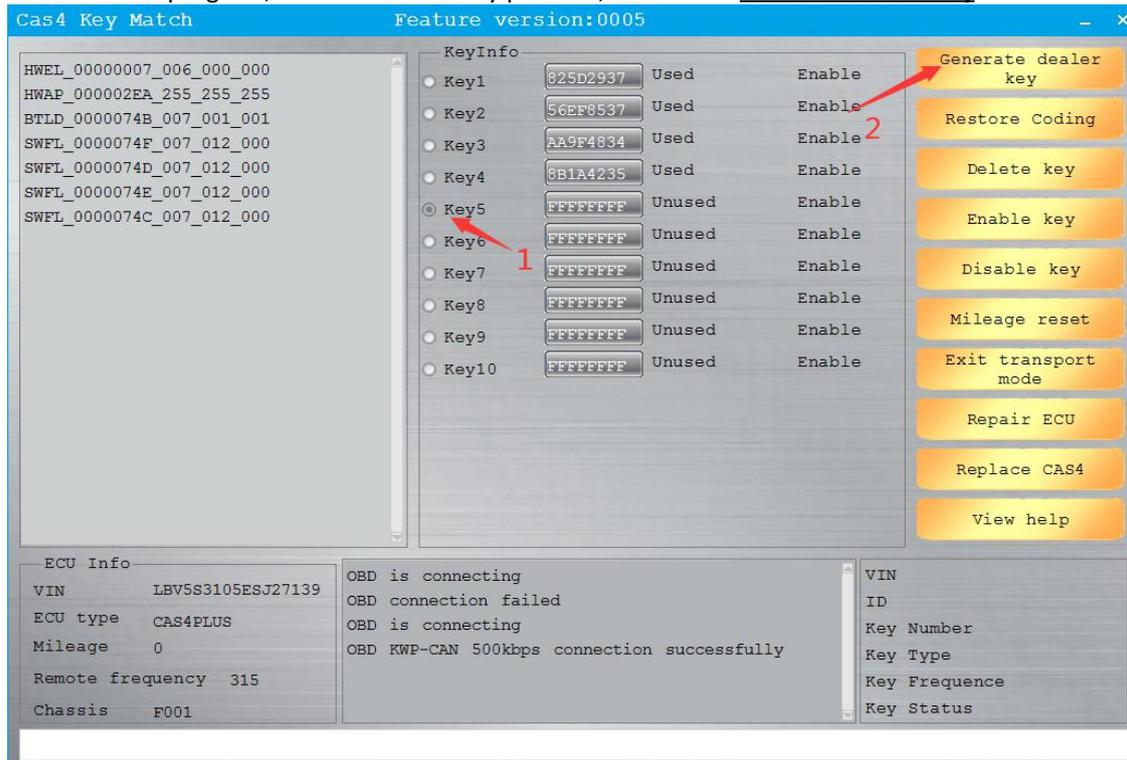
Tip: Fast mode will not change your CAS version , if you click "no" here , CGDI will program a new version to your CAS .



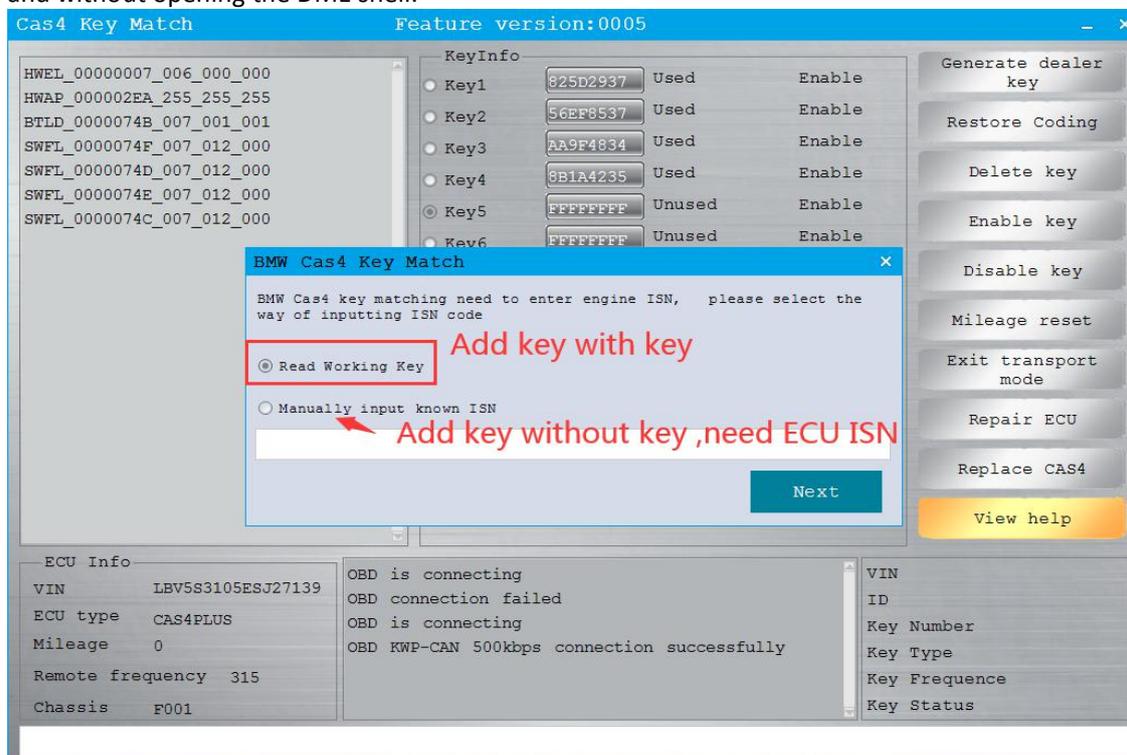
4. Check the tips , make sure your voltage is at least 13.5 V ,then click "Yes " .



5. After finish program, select a unused key position, then click **“Generate dealer key”**.



6. For encrypted CAS, You need to choose “Read working key ” when you add key with key. You need to choose "Manually input known ISN" when you add key without key, ISN can be read from DME (engine ecu). Depending on the DME which is in the vehicle, CGDI can read by OBD and without opening the DME shell.



A --- Add key with key ,need to put your original car key near the key sensor area



Cas4 Key Match Feature version:0005

KeyInfo			
<input type="radio"/> Key1	825D2937	Used	Enable
<input type="radio"/> Key2	56EF6537	Used	Enable
<input type="radio"/> Key3	AA9F4834	Used	Enable
<input type="radio"/> Key4	8B1A4235	Used	Enable
<input checked="" type="radio"/> Key5	FFFFFFFF	Unused	Enable
<input type="radio"/> Key6	FFFFFFFF	Unused	Enable
<input type="radio"/> Key7	FFFFFFFF	Unused	Enable

Generate dealer key
Restore Coding
Delete key
Enable key
Disable key
Mileage reset
Exit transport mode
Repair ECU
Replace CAS4
View help

ECU Info

VIN	LBV5S3105ESJ27139	OBD is connecting	VIN
ECU type	CAS4PLUS	OBD connection failed	ID
Mileage	0	OBD is connecting	Key Number
Remote frequency	315	OBD KWP-CAN 500kbps connection successfully	Key Type
Chassis	F001		Key Frequency
			Key Status

FEM/BDC Key Match

Keep the original car key near the key sensor area below the steering wheel

it will show you original car key information, please save it.

The screenshot shows the 'Cas4 Key Match' software interface. A 'Prompt' dialog box is open, displaying the following information:

```

password:EA3AC260C38D1F97EF4E78B350F423
1F
ISN:6EB92528749321625467B5E2EF96FF95
Key Sync Code:0000000000000000
BMW ISN:6EB92528749321625467B5E2EF96FF95
  
```

The background interface shows a list of keys in the 'KeyInfo' section:

Key	Hex Value	Status	Action
Key1	825D2937	Used	Enable
Key2	56EF8537	Used	Enable
Key3	AA9F4834	Used	Enable
Key4	8B1A4235	Used	Enable
Key5	FFFFFFFF	Unused	Enable
Key6	FFFFFFFF	Unused	Enable
Key7	FFFFFFFF	Unused	Enable

Other interface elements include 'ECU Info' (VIN: LBV5S3105ESJ27139, ECU type: CAS4PLUS, Mileage: 0, Remote frequency: 315, Chassis: F001), 'OBD is connecting' status, and a list of control buttons on the right such as 'Generate dealer key', 'Restore Coding', 'Delete key', 'Enable key', 'Disable key', 'Mileage reset', 'Exit transport mode', 'Repair ECU', and 'Replace CAS4'.

B --- Add key without key, You need to manually input known ECU ISN

The screenshot shows the 'Cas4 Key Match' software interface. A 'BMW Cas4 Key Match' dialog box is open, displaying the following information:

BMW Cas4 key matching need to enter engine ISN, please select the way of inputting ISN code

Read Working Key

Manually input known ISN

6EB92528749321625467B5E2EF96FF95

Next

The background interface is similar to the first screenshot, but the 'OBD' status is 'Reading data' and 'Read data successfully'. The 'KeyInfo' section shows the same list of keys.

7. Put the new key near the key coil area below the steering wheel. The new key will lean by itself.

Cas4 Key Match Feature version:0005

HWEL_0000007_006_000_000
HWAP_000002EA_255_255_255
BTLD_0000074B_007_001_001
SWFL_0000074F_007_012_000
SWFL_0000074D_007_012_000
SWFL_0000074E_007_012_000
SWFL_0000074C_007_012_000
CAFD_0000000F_005_025_064

KeyInfo

Key	ID	Status	Action
Key1	825D2937	Used	Enable
Key2	56FF8537	Used	Enable
Key3	AA9F4834	Used	Enable
Key4	8B1A4235	Used	Enable
Key5	FFFFFFFF	Unused	Enable
Key6	FFFFFFFF	Unused	Enable
Key7	FFFFFFFF	Unused	Enable

Generate dealer key
Restore Coding
Delete key
Enable key
Disable key
Mileage reset
Exit transport mode
Repair ECU
Replace CAS4
View help

FEM/BDC Key Match

Keep the new key near the key sensor area below the steering wheel

ECU Info

VIN	LBV5S3105ESJ27139
ECU type	CAS4PLUS
Mileage	0
Remote frequency	315
Chassis	F001

OBD is connecting
OBD KWP-CAN 500kbps connection successfully

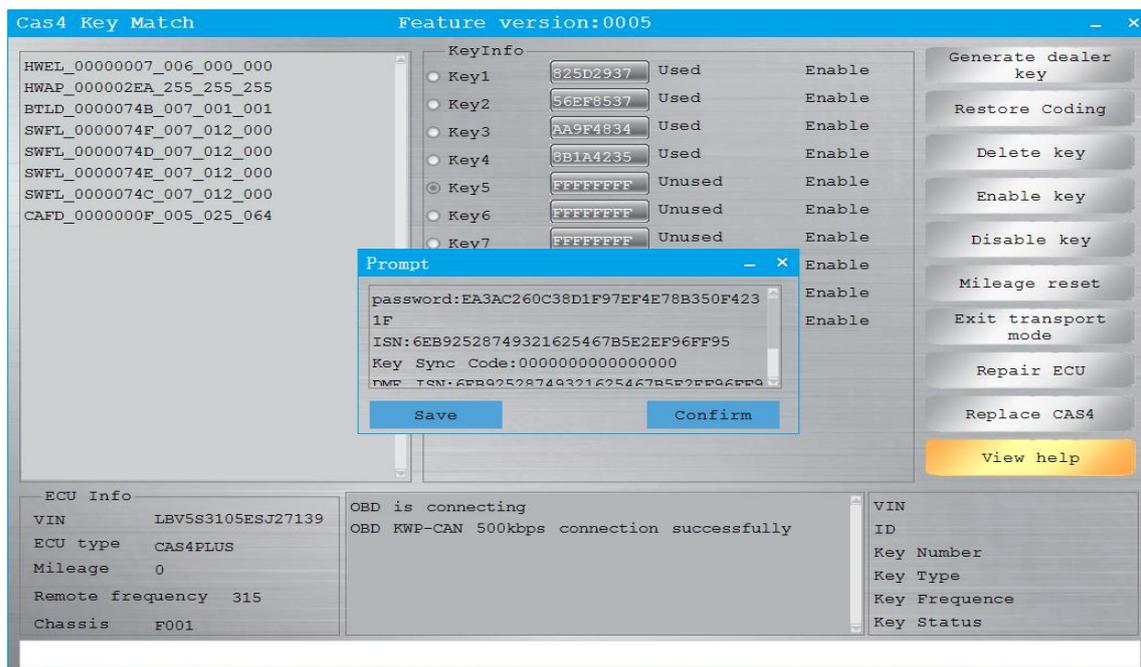
VIN
ID
Key Number
Key Type
Key Frequency
Key Status

Common problems with key matching

Question 1: key can not start the car

New added key can not start the car, also the original car key can not start the car.

Answer: Use the DME ISN that you saved from key information, choose same key position and learn the key with DME ISN again . if it still can not start the car, program the CAS then it should be ok. If still not work ,go to code the CAS.



Question 2: Central display screen can not light on

If the central display screen can not light on after programmed the CAS , when the new key and original key can start the car good .

Answer: First, we first enter "BMW diagnosis" page,
Read FaultCode, there will be a "HU-H :transport mode activated " .
only need to enter the "BMW key match(OBD)" page again to exit the transport mode.

BMW 诊断 功能版本:0002

车系:S'_F18 车型:S25Li_N20 年款:2015_01 识别号:LBV5S310XFSL06861

数量	ECU名称	地址	ECU状态
1	环视摄像机	06	故障 1
2	中央网关模块	10	故障 1
3	HU-H	63	故障 1
	HU-H: 运输模式已激活	026300	永久
4	接线盒电子装置	00	正常
5	碰撞安全模块	01	正常
6	中控开关 转向柱	02	正常
7	数字式发动机电子伺控系统	12	正常
8	电动燃油泵控制单元	17	正常
9	电子变速箱控制系统	18	正常
10	一体式底盘管理系统	1C	正常
11	动态稳定控制系统	20	正常

清除全车故障码成功
正在进入系统
进入系统成功
正在读取故障码
读取故障码成功

右侧按钮: 读取故障码, 清除故障码, 清除全车故障码, 读取帮助, 返回

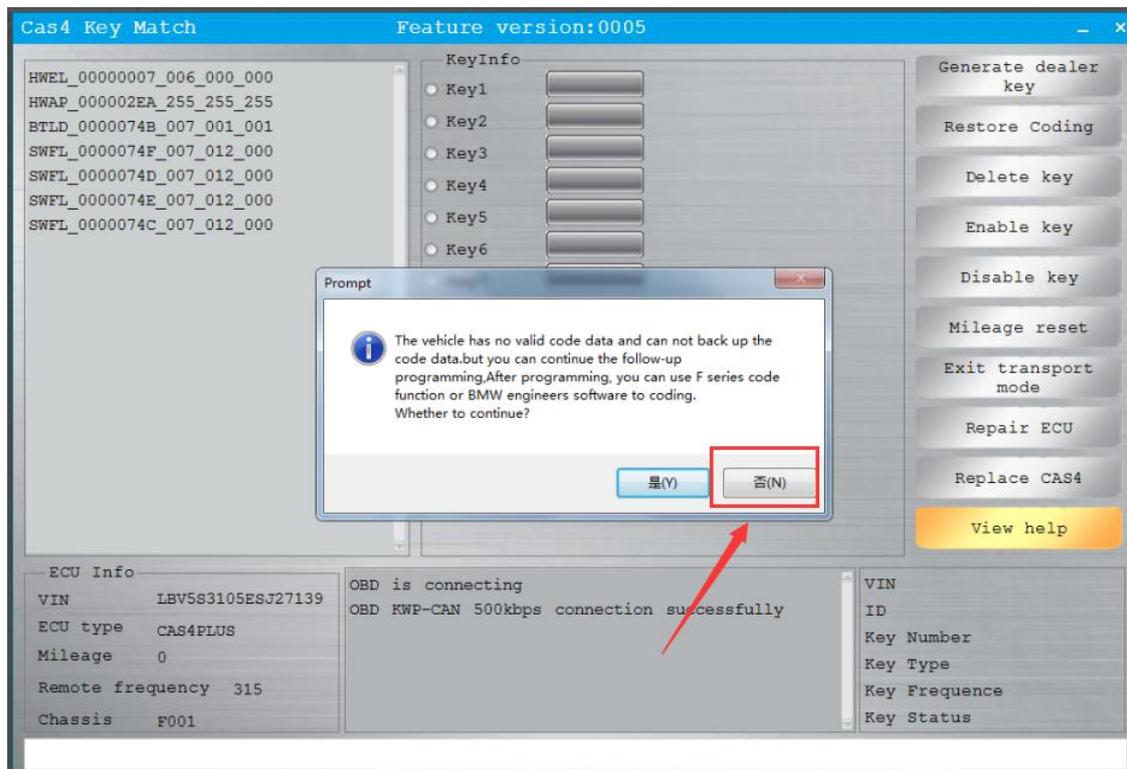
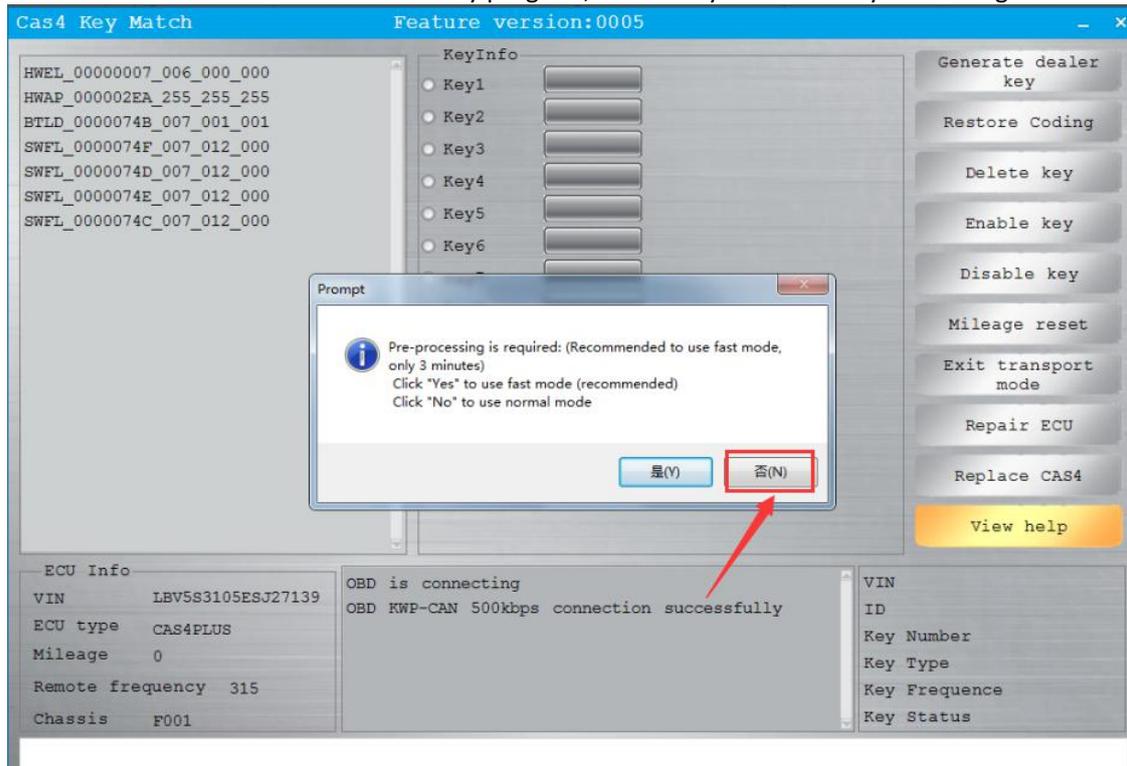
CGDI Device activation time remaining 18 days

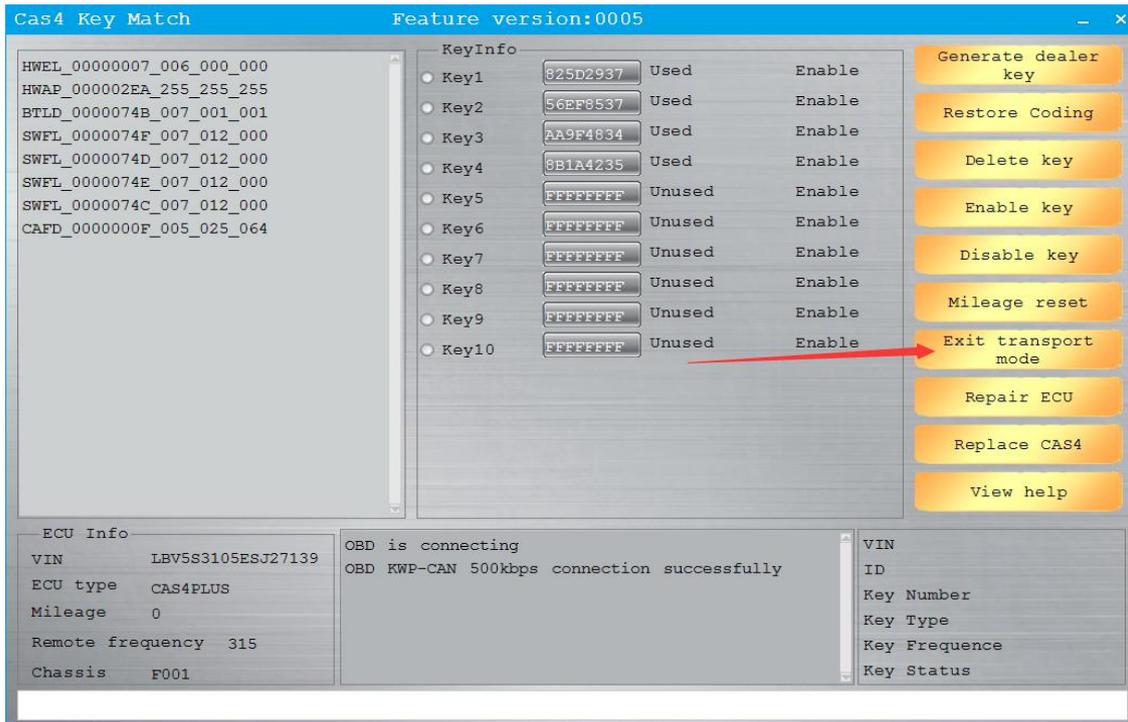
Whatsapp:+8613500065304/+8613602538824

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 Program	BMW E Series Coding	BMW EWS Key Match

Previous Next

If the software will prompt you "program preprocessing is required", be sure to click "No". otherwise the software will automatically program, which may cause the key to fail to ignition .



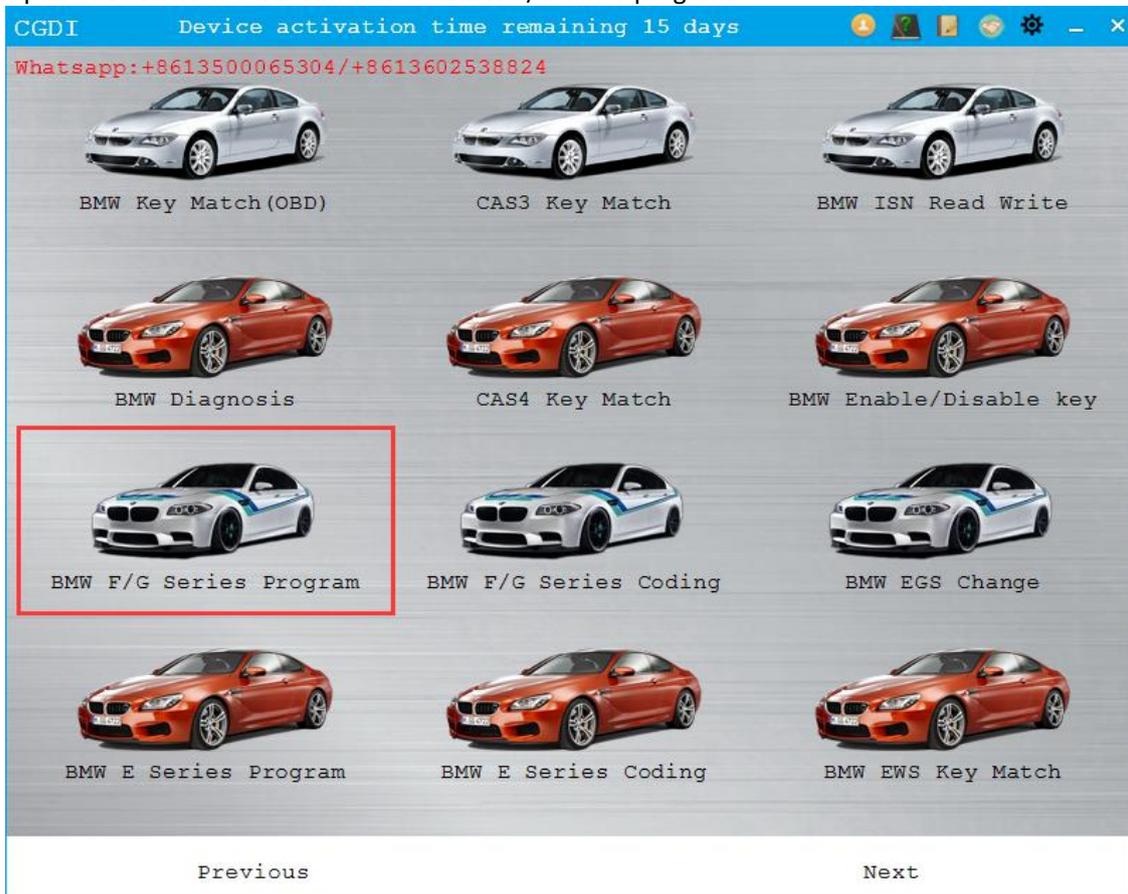


Question 3: wiper keeps moving

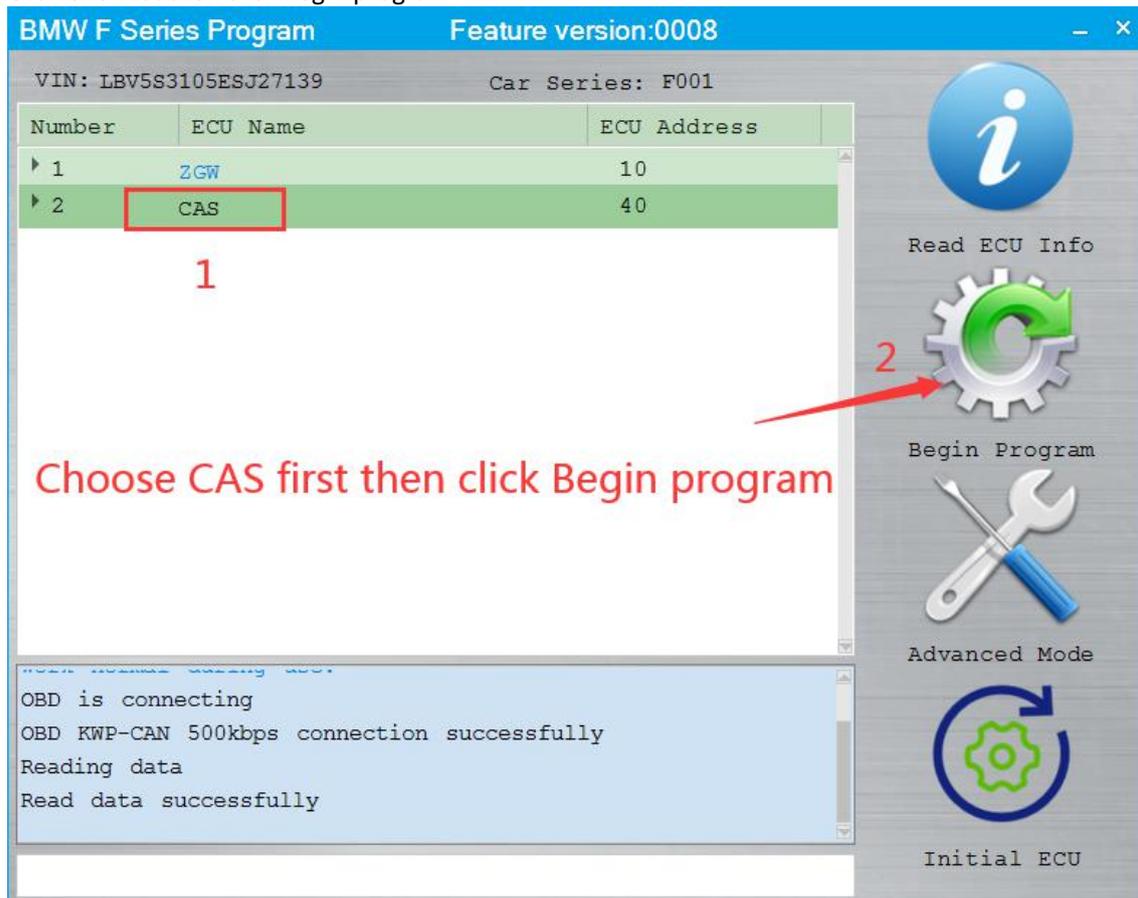
What if the matched key can ignition on the car, but the wiper keeps moving?

It is same way to solve that need to program the CAS

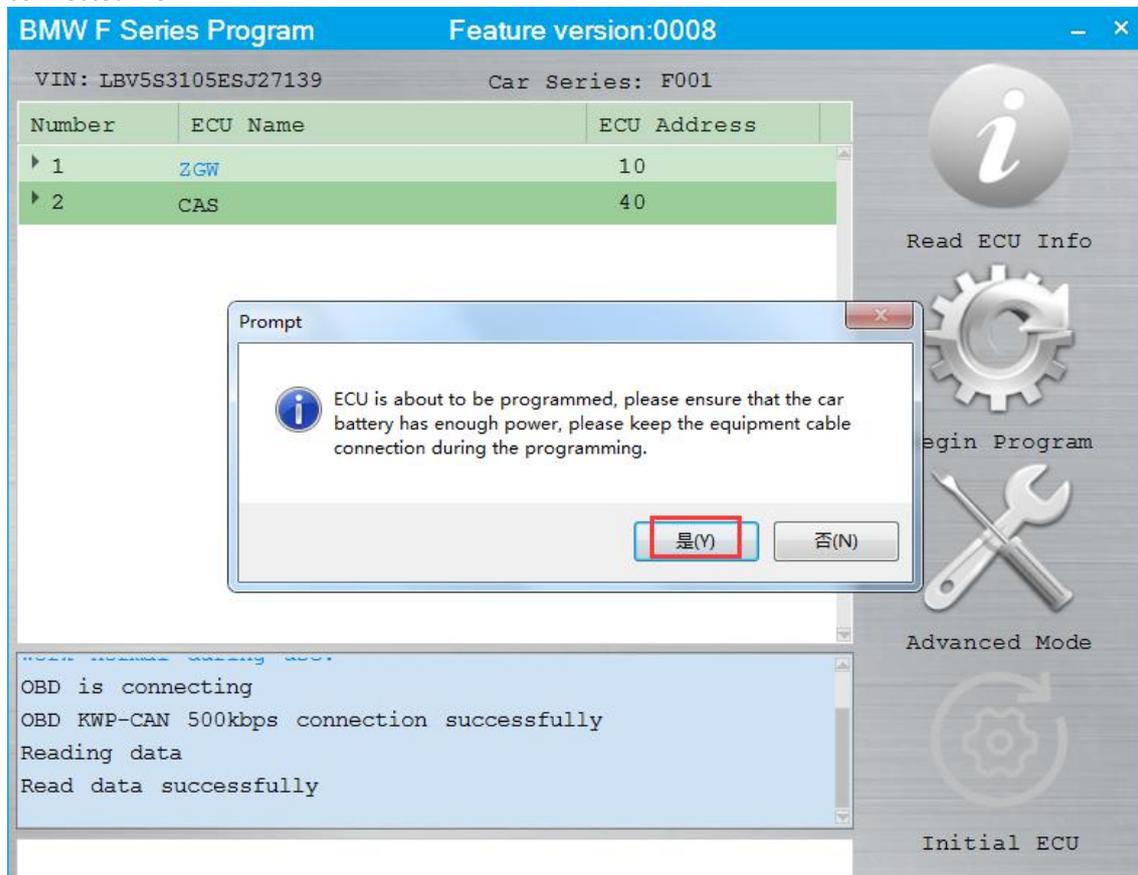
Open CGDI BMW software and enter "BMW F/G series program"



Click CAS first then click Begin program.



Please make sure have enough power for the car when programming, and keep all cables connected well.



BMW F Series Program Feature version:0008

VIN: LBV5S3105ESJ27139 Car Series: F001

Number	ECU Name	ECU Address
1	ZGW	10
2	CAS	40

Prompt

Whether to backup coding data

是(Y) 否(N)

OB... 20... connecting
 OBD KWP-CAN 500kbps connection successfully
 Reading data
 Read data successfully
 car battery voltage11.82V

Read ECU Info
 Begin Program
 Advanced Mode
 Initial ECU

BMW F系编程 功能版本:0008

VIN: WBASN2108AC534879 车系: F001

ECU序号	ECU名称	ECU地址
1	中央网关	
2	防盗系统	

BMW F系编程

文件版本

BTLD_0000074B_006_000_008

SWFL_0000074E_006_006_020

SWFL_0000074C_006_006_020

SWFL_0000074F_006_006_020

SWFL_0000074D_006_006_020

CAFD_0000000F_005_019_005

确定

AC534879\2020-7-29-1
 5_019_005.ncd
 备份设码成功
 正在从服务器获取编程文件列表, 请耐心等待

读ECU信息
 开始编程
 高级模式编程
 ECU初始化

BMW F Series Program Feature version:0008

VIN: LBV5S3105ESJ27139

Car Series: F001

Number	ECU Name	ECU Address
1	ZGW	10
2	CAS	40

HWEL_00000007_006_000_000
HWAP_000002EA_255_255_255

BMW F Series Program

Please confirm whether the following VIN is correct, please modify it in below text box if VIN is not correct.

VIN:

OK

Backup Coding success
Getting a list of programming files from the server, please be patient.
Downloading files from the server, please be patient



Read ECU Info



Begin Program



Advanced Mode



Initial ECU

BMW F Series Program Feature version:0008

VIN: LBV5S3105ESJ27139

Car Series: F001

Number	ECU Name	ECU Address
1	ZGW	10
2	CAS	40

HWEL_00000007_006_000_000
HWAP_000002EA_255_255_255

Prompt

Programming success.
note:1. If you did not code after programming, please use "BMW F/G series coding" function to set the code, please ignore it if some modules (such as gateway) do not need to set the code.

确定

Verify that Flash is correct
Ending programming, please wait
Ending programming, please wait
ECU programming succeed

total progress:5/5 Current progress:100%



Read ECU Info



Begin Program



Advanced Mode



Initial ECU

BMW F/G series Coding

CGDI Device activation time remaining 18 days
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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 Program BMW E Series Coding BMW EWS Key Match

Previous Next

BMW F Series Coding

Feature version:000a

VIN: LBV5S3105ESJ27139 Car Series: F001

ECU Number	ECU Name	ECU Address
1	ZGW	10
2	CAS	40

Choose CAS first ,then click Coding

This feature requires networking, please ensure that the network is normal
OBD is connecting
OBD KWP-CAN 500kbps connection successfully
Reading data
Read data successfully

Read ECU Info
Backup Coding
Coding
Restore Coding
Modify VO Code
Refresh Hiding
Back

BMW F Series Coding Feature version:000a

VIN: LBV5S3105ESJ27139 Car Series: F001

ECU Number	ECU Name	ECU Address
1	ZGW	10
2	CAS	40

Read ECU Info

Backup Coding

Coding

Restore Coding

Modify VO Code

Refresh Hiding

Back

Prompt

Whether to backup coding data

Safety certification successfully
Setting Code
Code setting succeed
This process requires getting files from the server, please wait patiently
car battery voltage12.21V

BMW F Series Coding Feature version:000a

VIN: LBV5S3105ESJ27139 Car Series: F001

ECU Number	ECU Name	ECU Address
1	ZGW	10
2	CAS	40

Read ECU Info

Backup Coding

Coding

Restore Coding

Modify VO Code

Refresh Hiding

Back

wait patiently
car battery voltage12.21V
Security authentication is in progress
Safety certification successfully
Setting Code
Code setting succeed