

CGDI BMW FEM/BDC Add Key & All Keys Lost

Here's the tutorial on BMW FEM/BDC key programming (add key & all keys lost) by using [CGDI Prog BMW key programmer](#).

1. Read and Backup eeprom
2. Add a key (copy key with key)
3. Program all keys lost (copy key without key)

1. Read & Backup Data

Connect CGDI BMW with vehicle via OBD diagnostic socket

maintains voltage above 12v , do not turn off the computer screen during operation.



BMW OBD Key Match



CAS3 Key Match



BMW ISN



FEM/BDC Key Match



CAS4 Key Match



BMW Enable/Disable key



BMW F Series Program



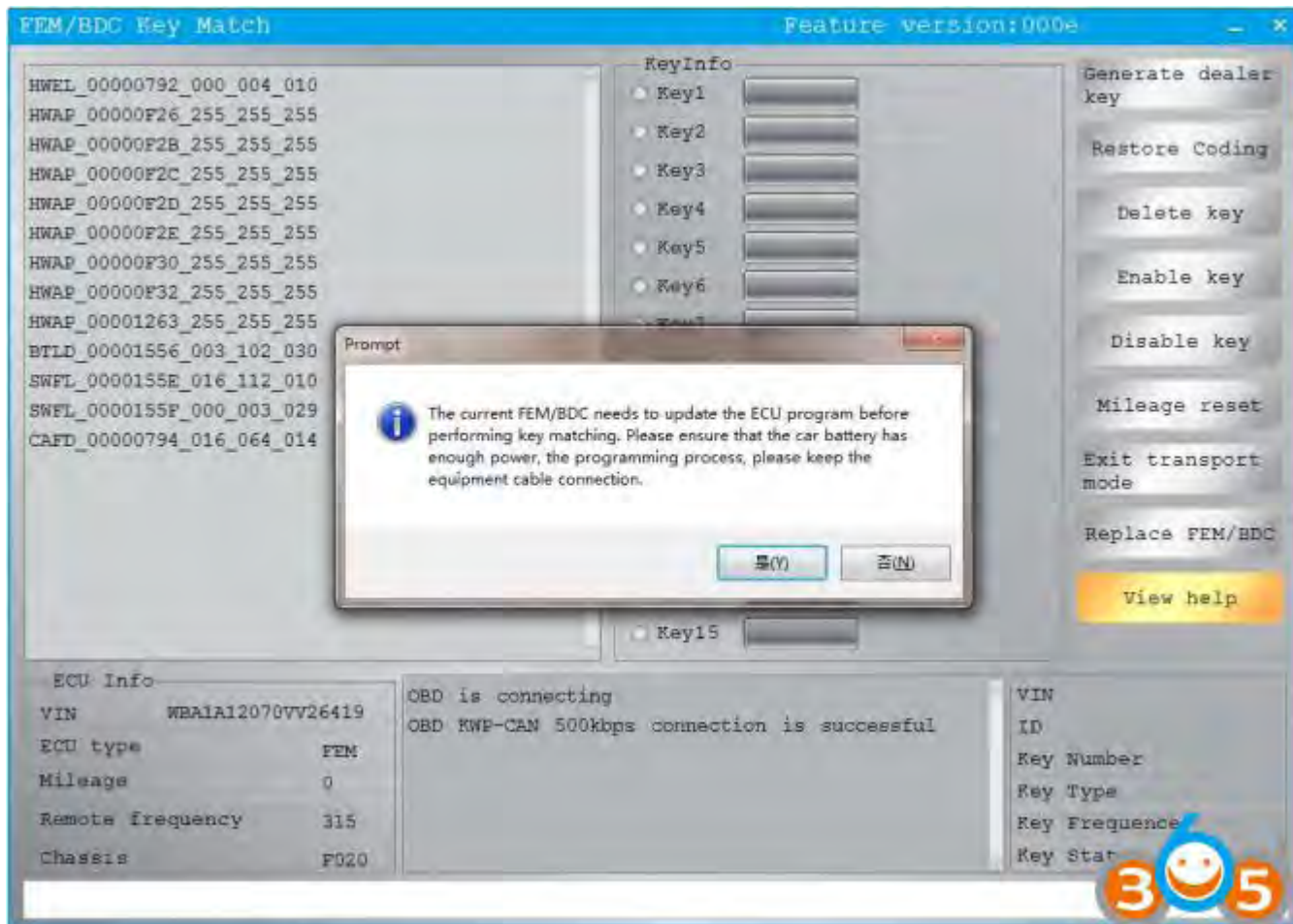
BMW F Series Coding



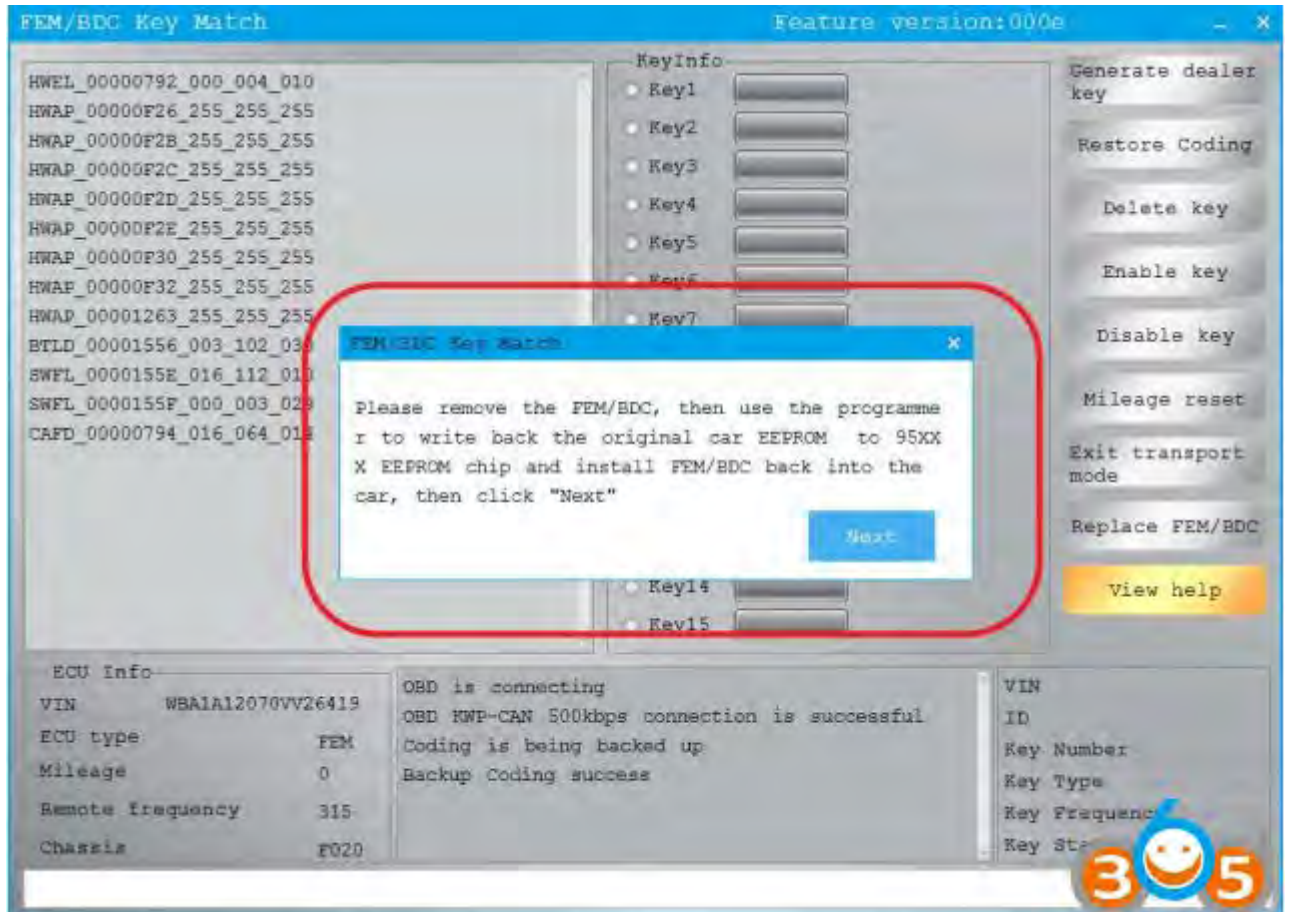
EGS I

Open CGDI BMW software

Select "FEM/BDC key match" and click enter



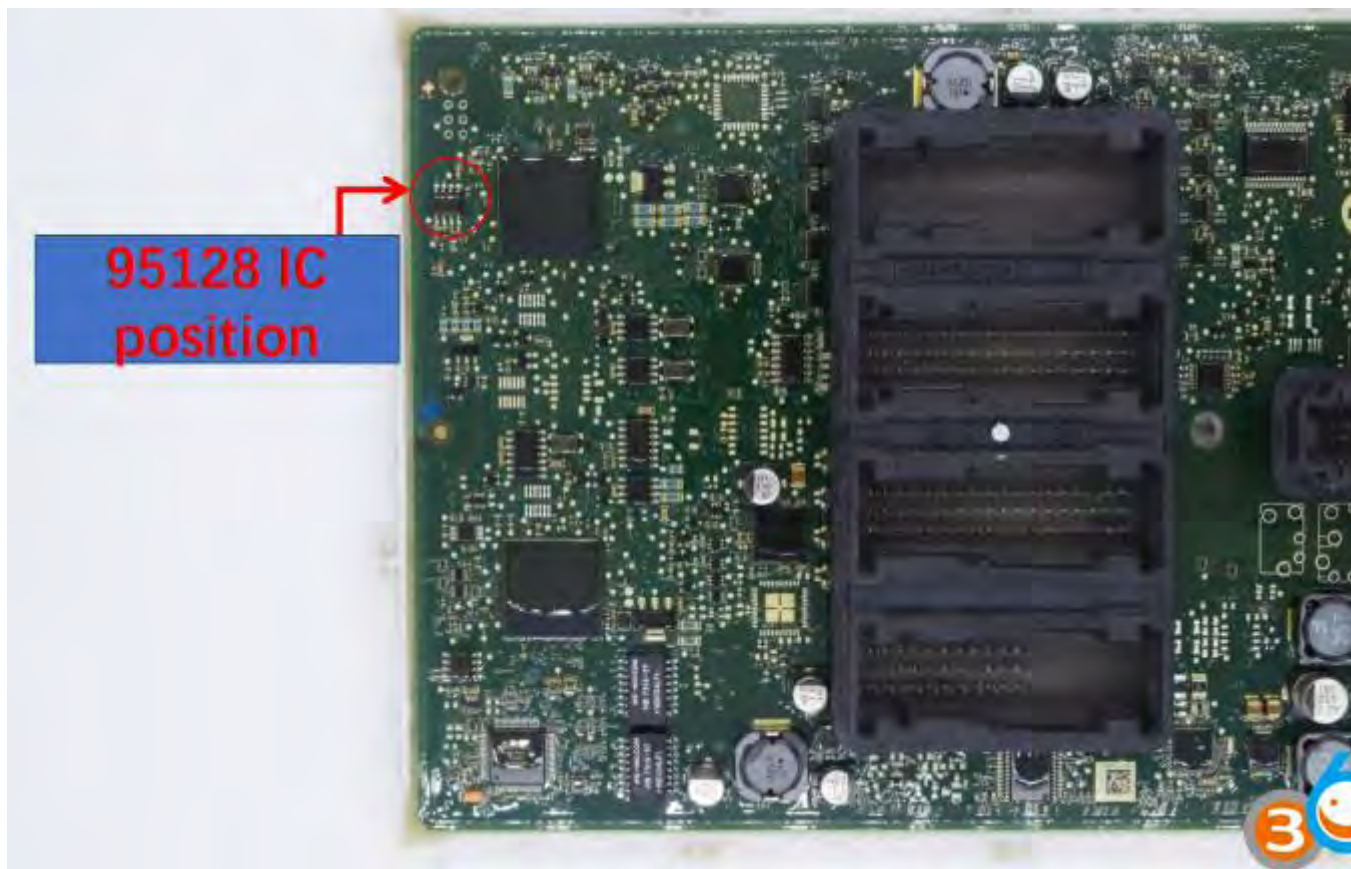
Connect successfully, maintain enough voltage, click "yes"



Need to disassemble the module, read EEPROM data, FEM is 95128



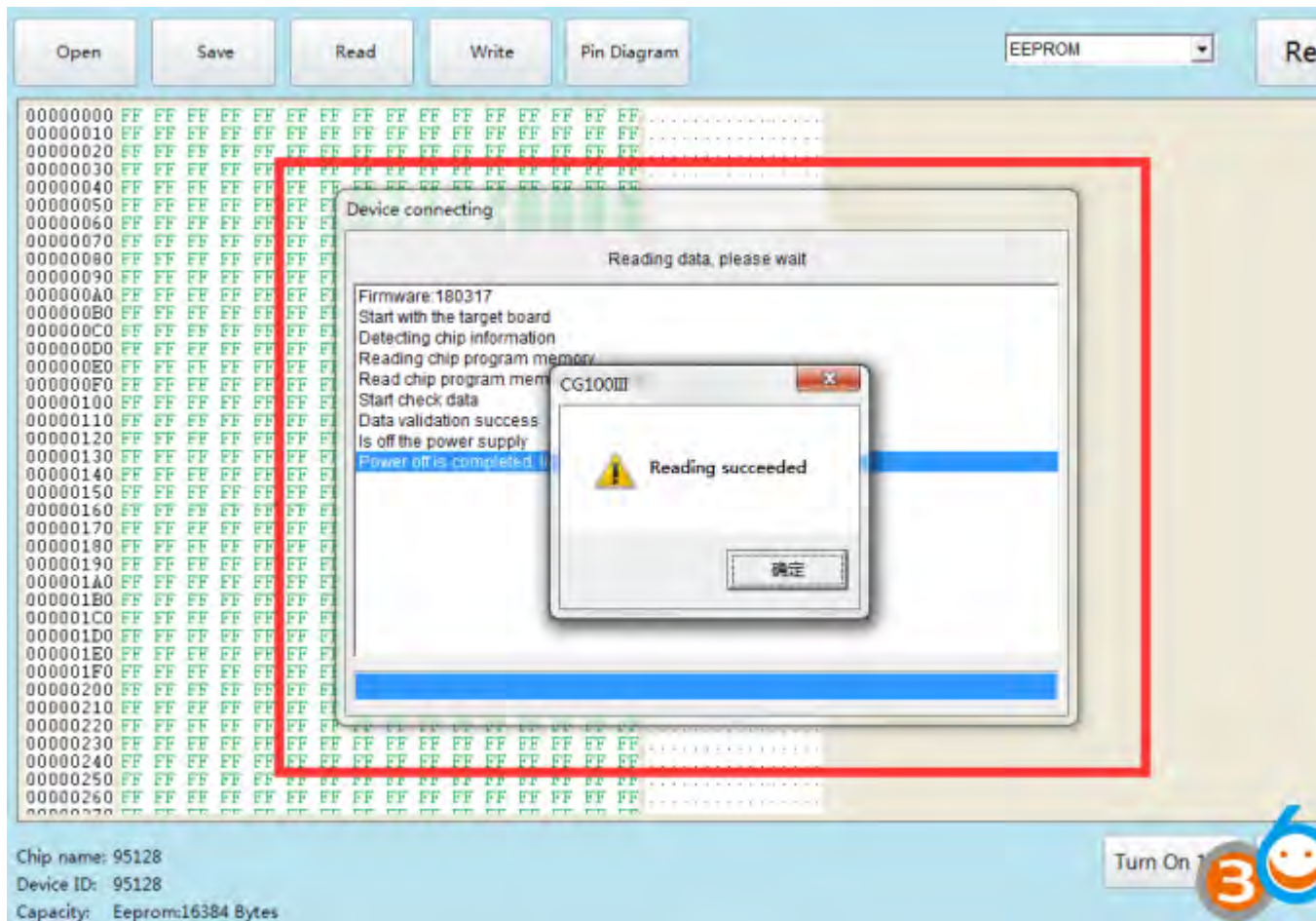
FEM module installation location



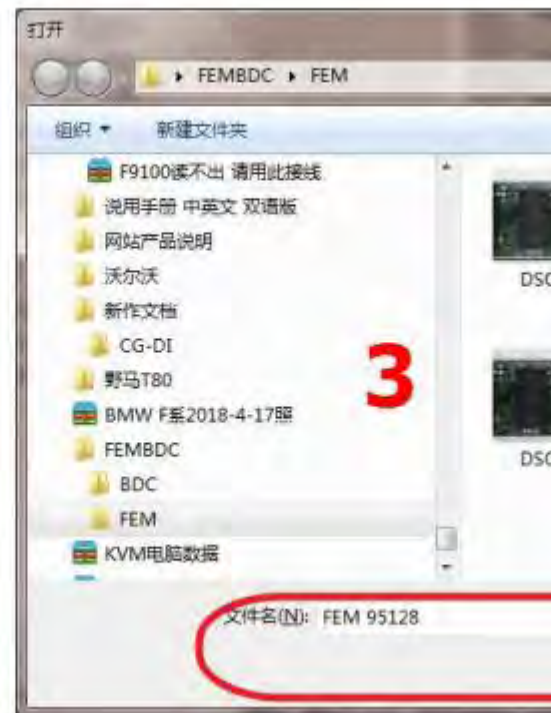
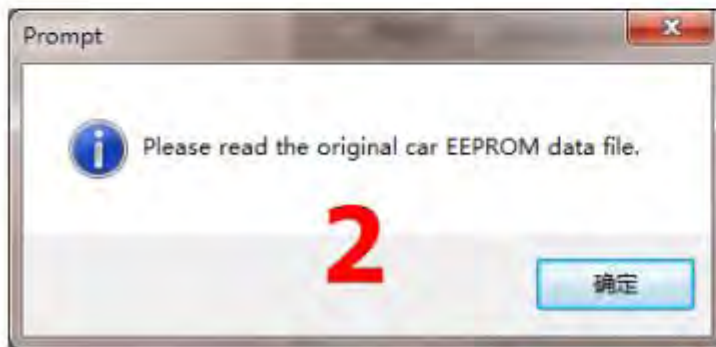
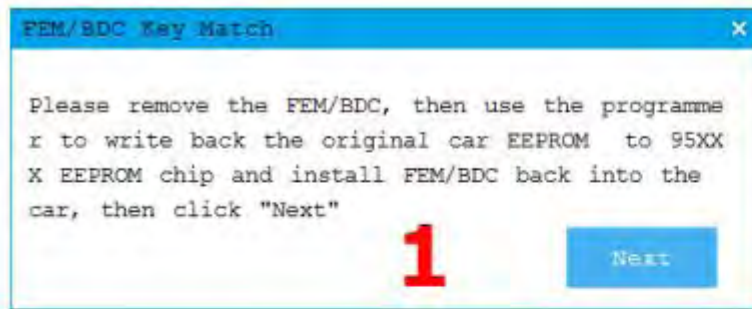
Use [CG100 Prog](#) to read out 95128 IC data and save the data



Remove the 95128 chip, wash it, and clip it to the [ATMEGA adapter](#)

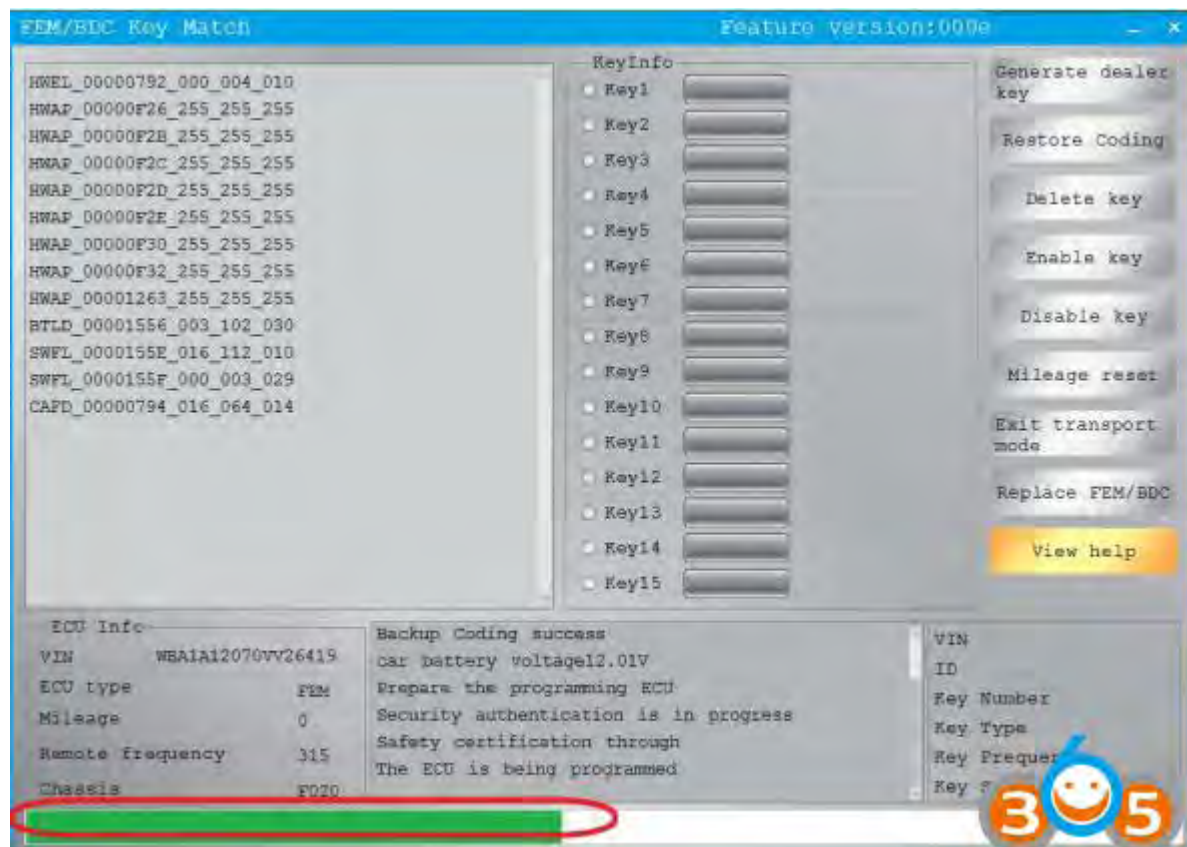
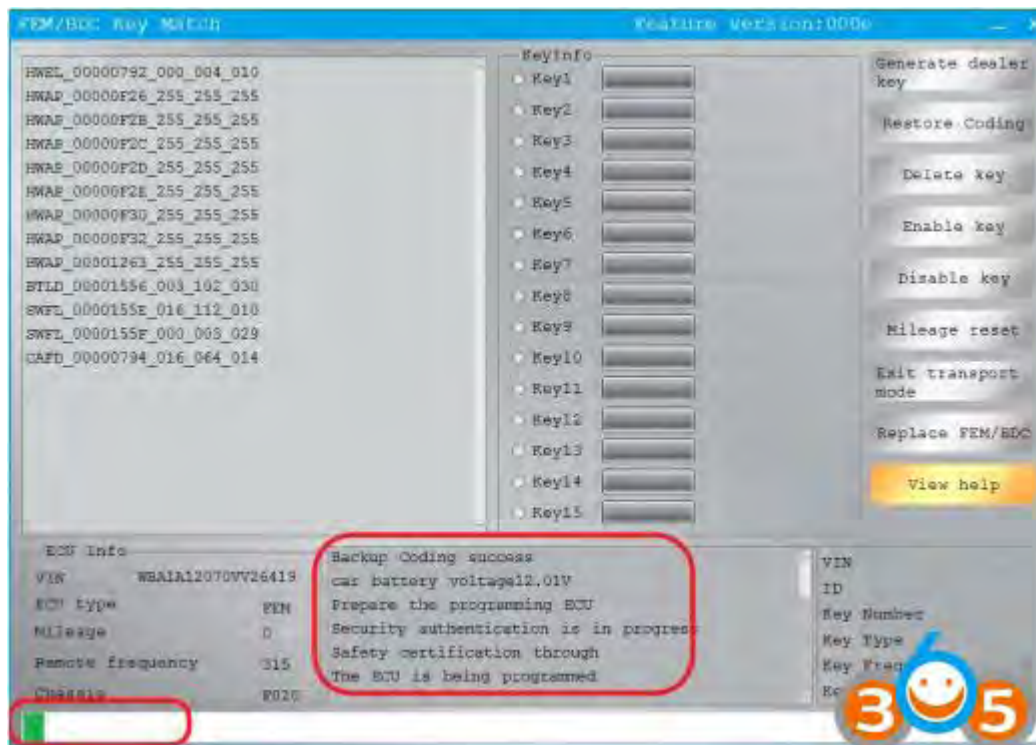


Open the CG-100 to read the data and save it

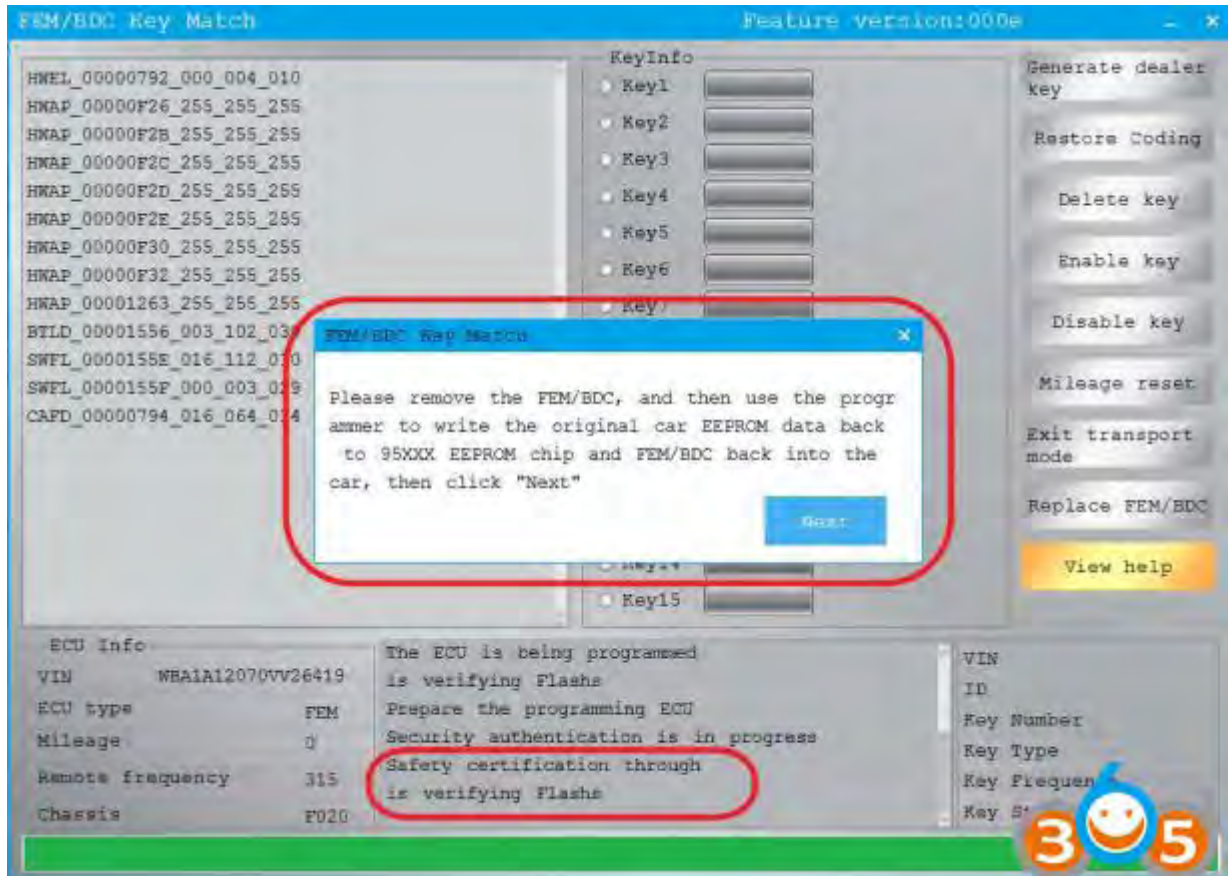


Go back to cgdi and load the data

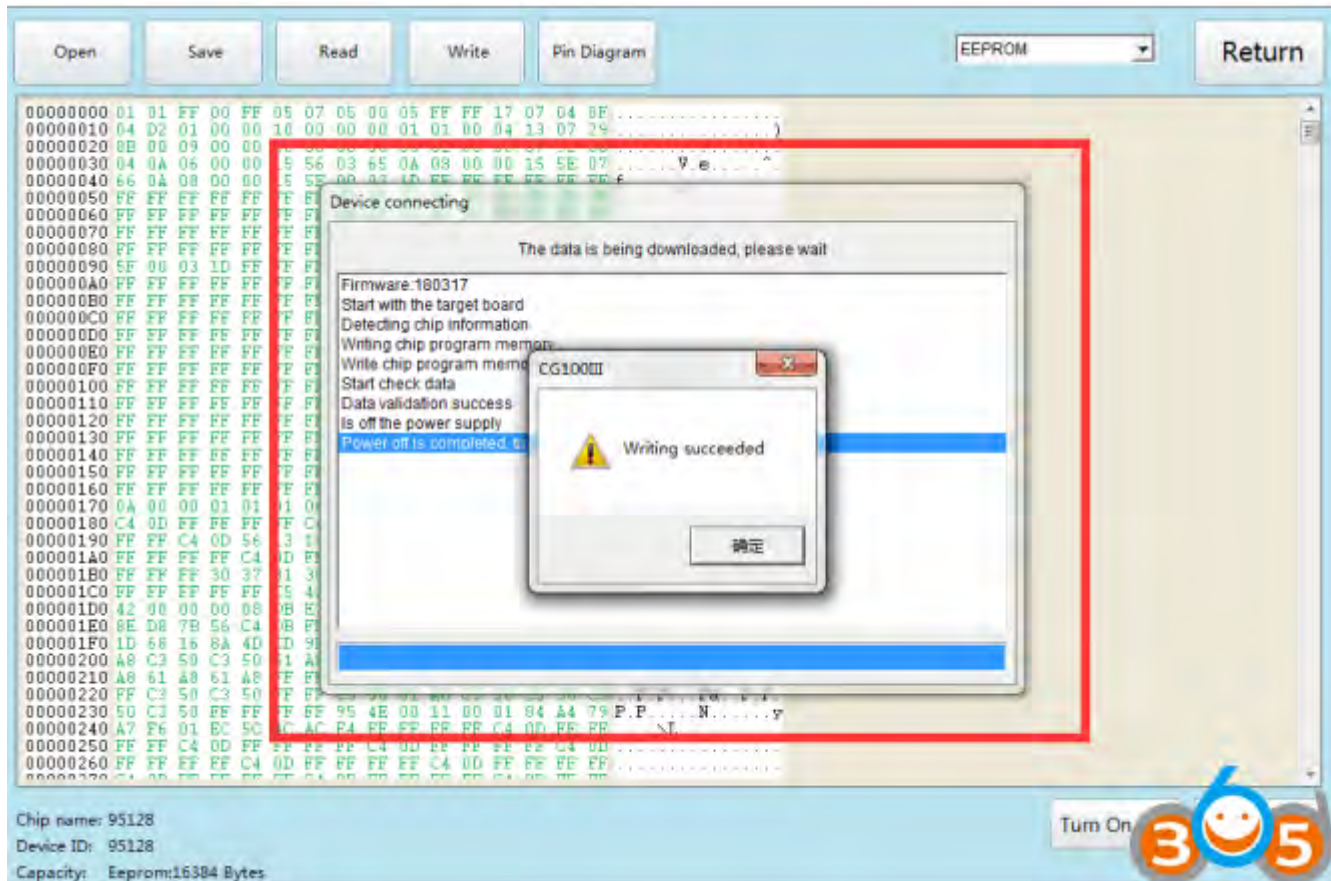
Write back new data with cg-100, weld back to module, and click next



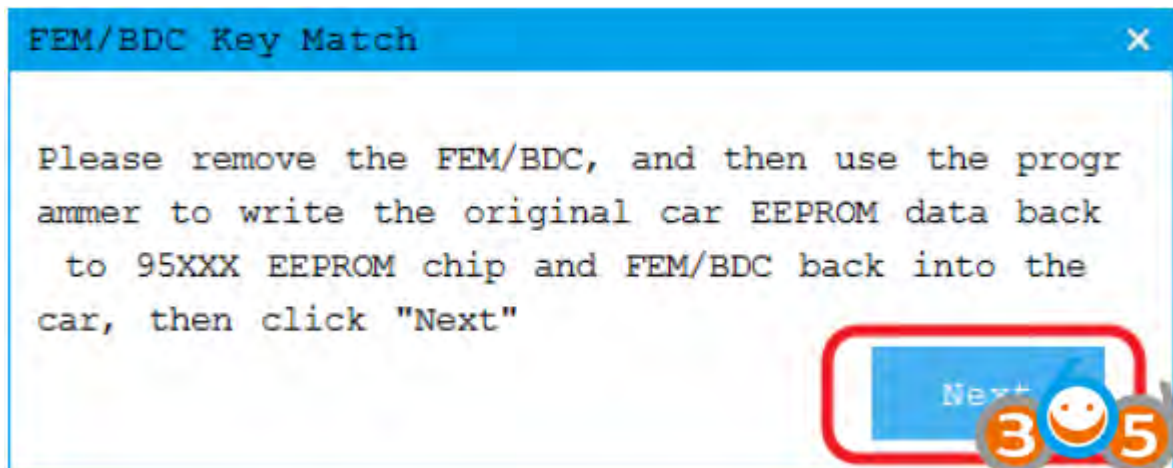
Waiting for programming



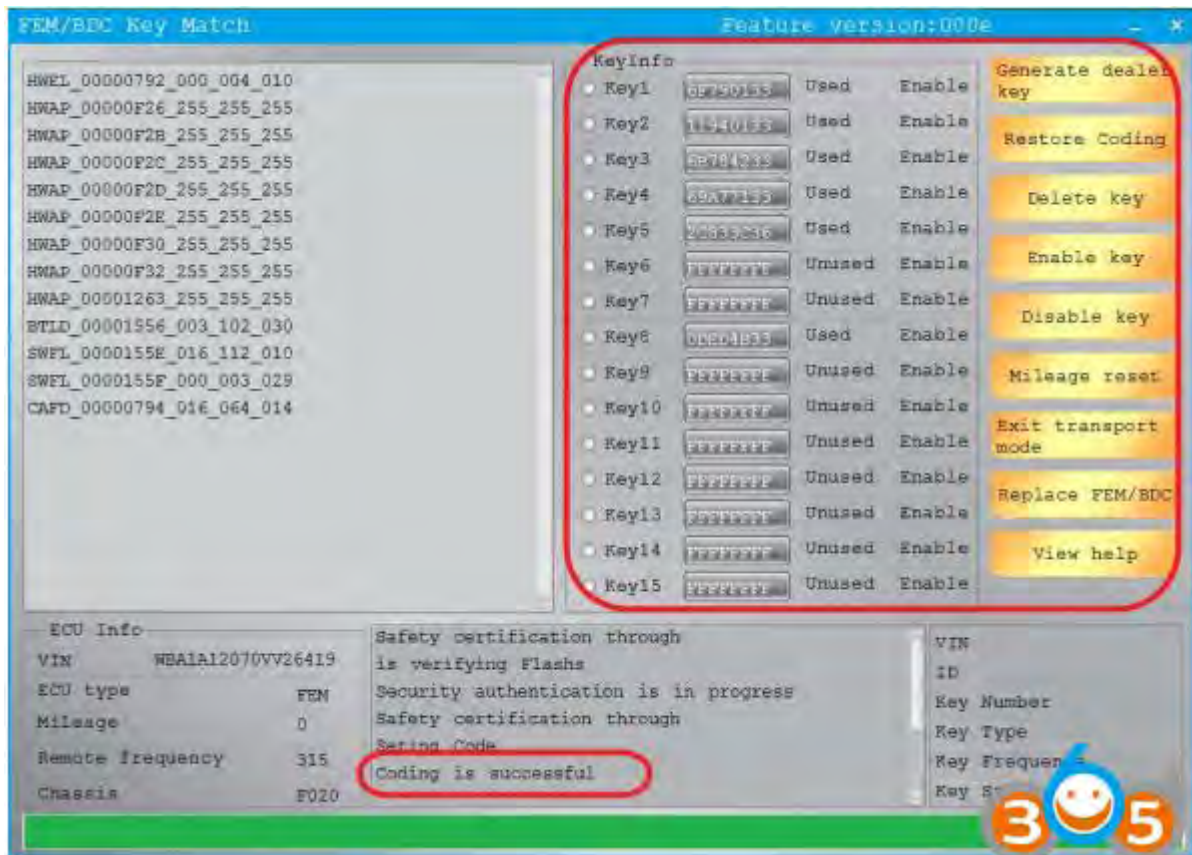
After programming, write back 95128 original data,
put FEM into the car again, and click next



Use CG100 to write back 95128 original data



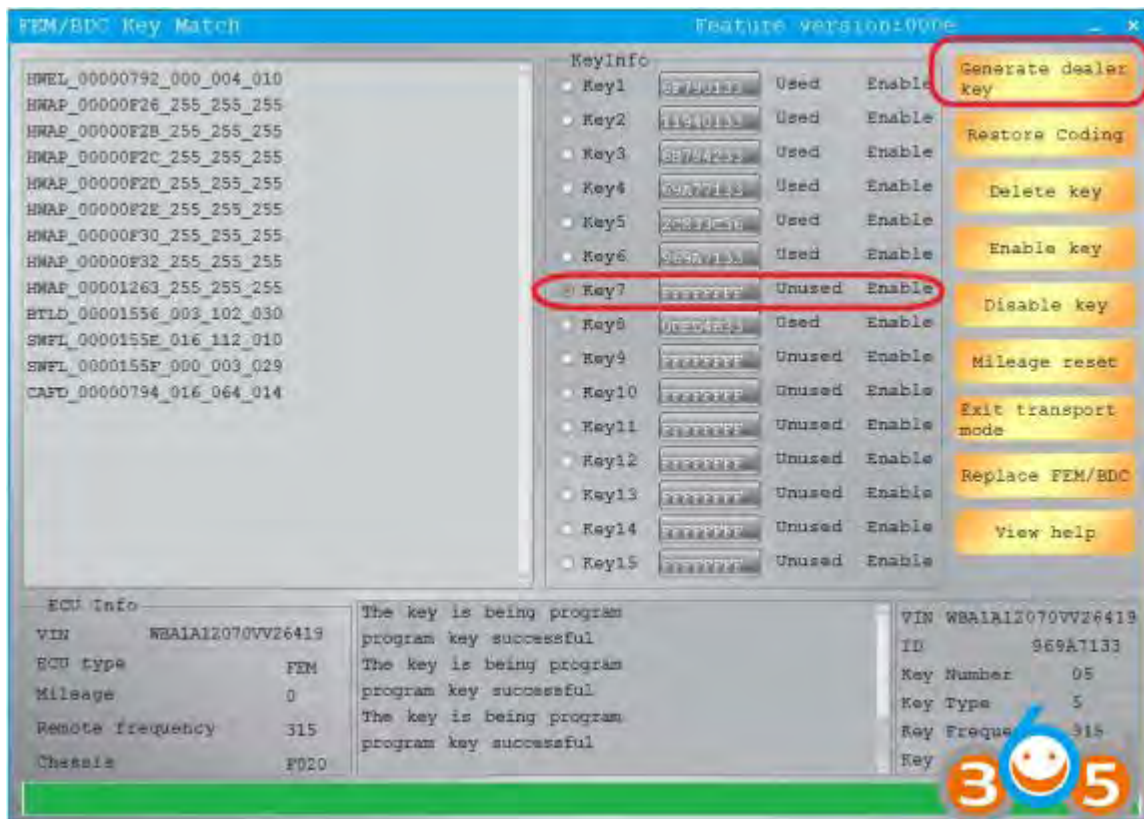
When finished, click "next"



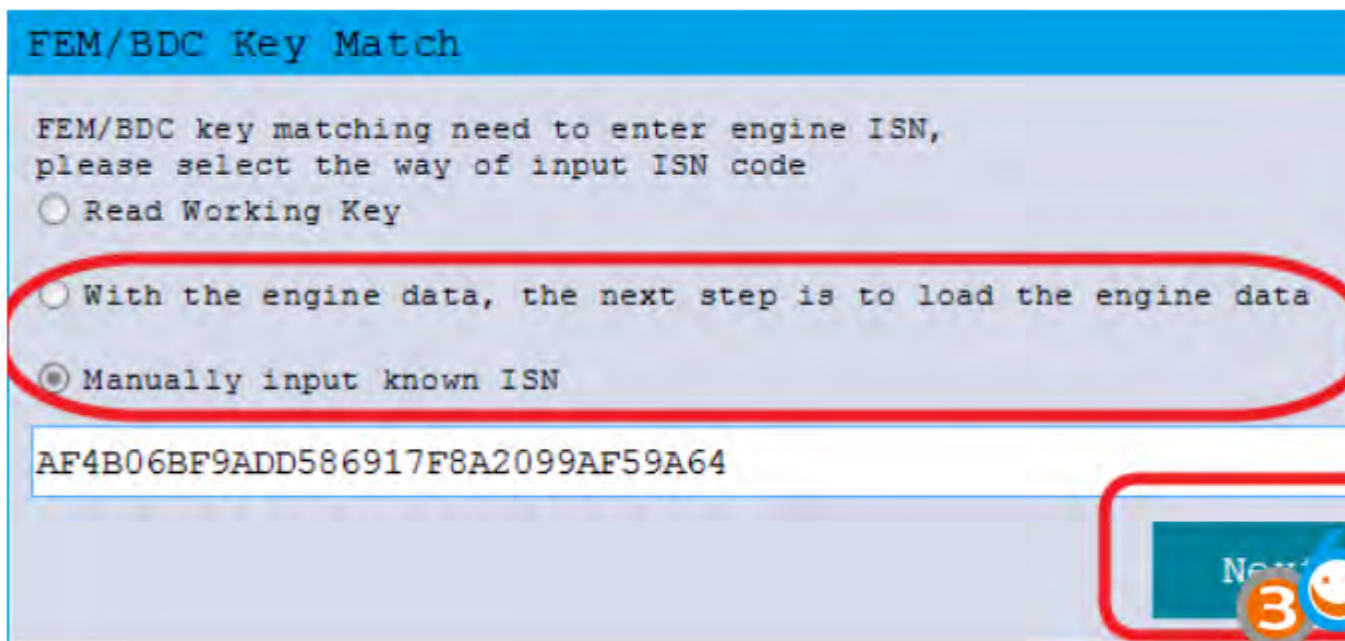
Set code successfully, customers can do any operation.

2. Add FEM/BDC key with CGDI BMW

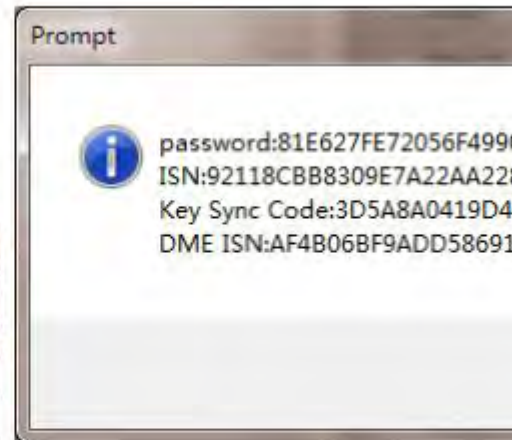
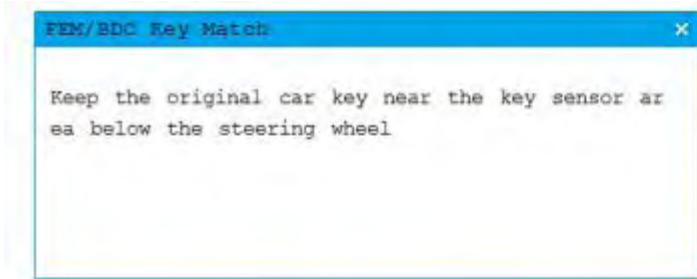
Copy key with key



choose the unused key, and click “generate the dealer key”



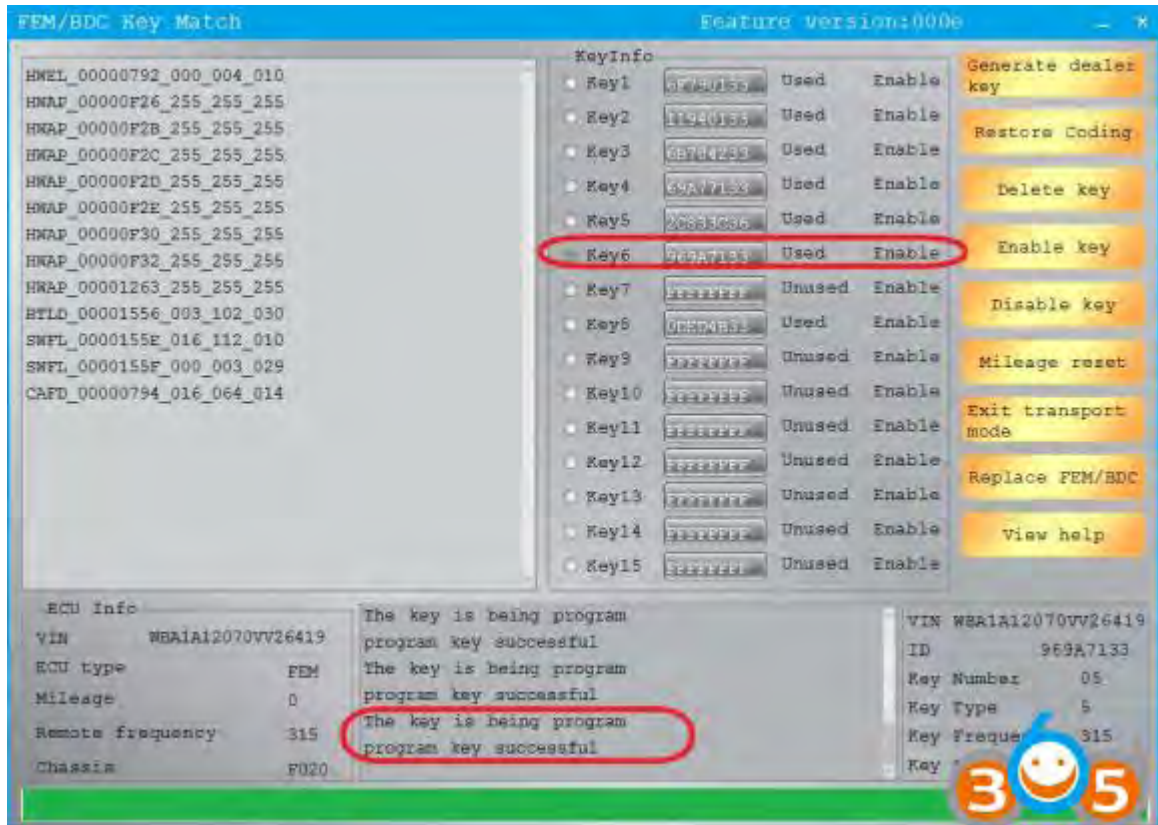
Read working key,click Next



Read successfully and display information



Program the new key

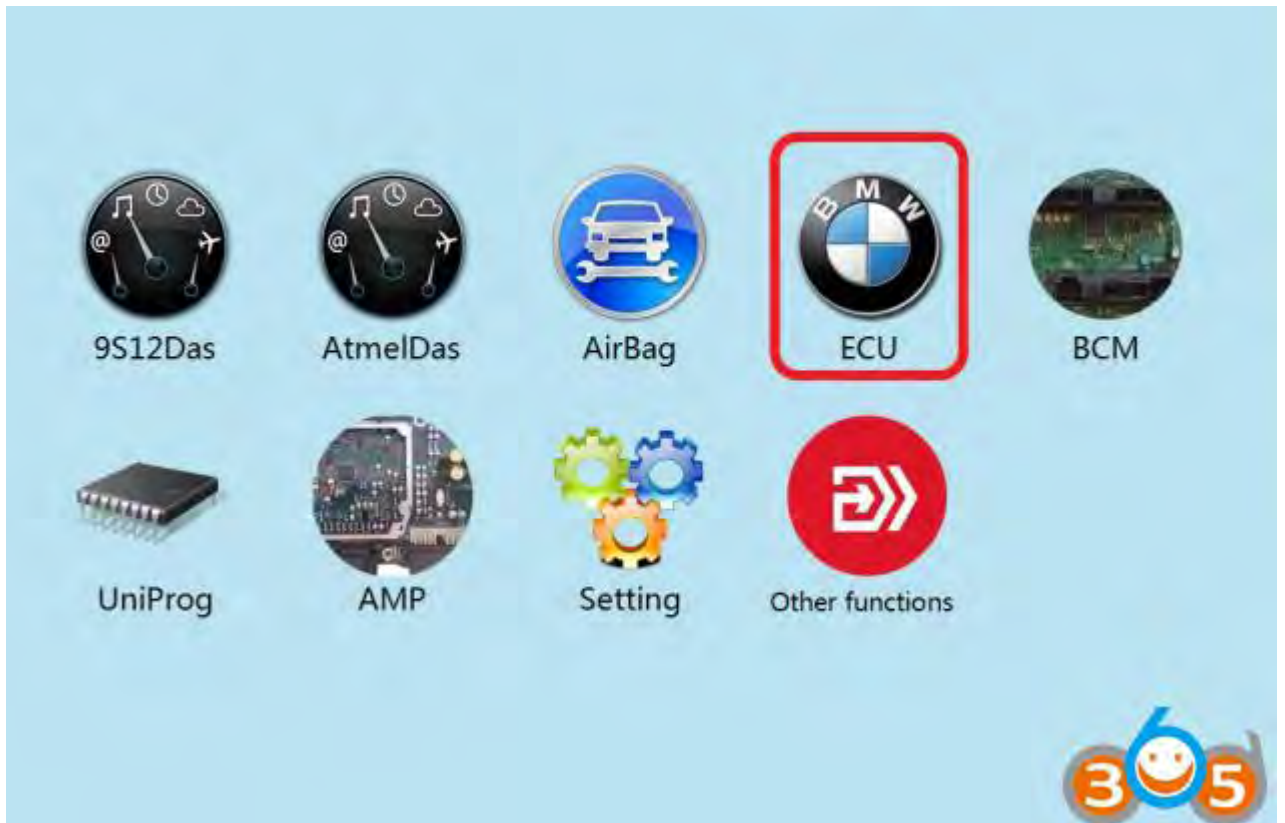


The new key matched successfully.

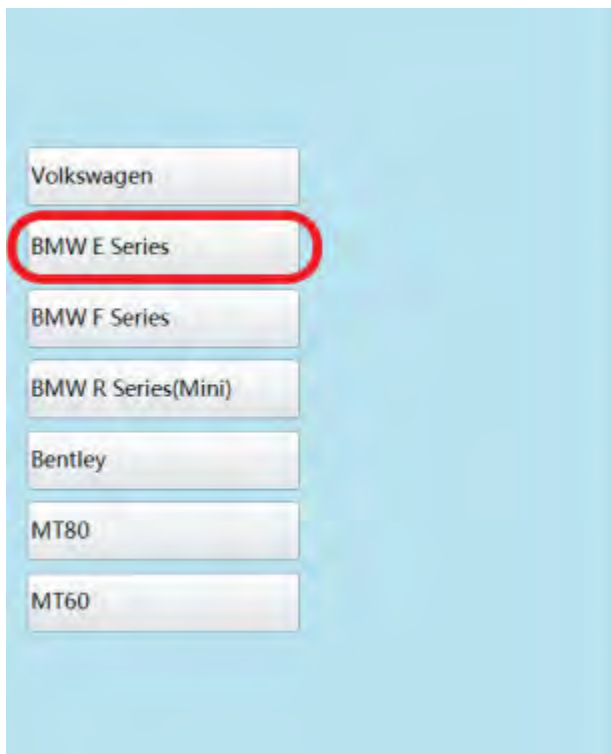
3. CGDI BMW Program FEM/BDC All Keys Lost

Copy key without key

Using CG100 to read the engine data



Click to enter "ECU"



Click on the engine model option to enter the current vehicle

ISN:

VIN:

Please use the new adapter

Fullscreen Return

Read EEPROM

Write EEPROM

Read FLASH

Write FLASH

Picture:

CAN Diagram

Wiring Diagram 1

The screenshot shows a diagnostic software interface. At the top left, there are two input fields labeled 'ISN:' and 'VIN:'. To their right, a red text prompt says 'Please use the new adapter'. On the top right, there are two buttons: 'Fullscreen' and 'Return'. Below these are four buttons: 'Read EEPROM', 'Write EEPROM', 'Read FLASH', and 'Write FLASH'. At the bottom right, there is a 'Picture:' section with two buttons: 'CAN Diagram' and 'Wiring Diagram 1'. In the bottom right corner, there is a logo with the number '305' and a smiley face. The central part of the interface is a large red-bordered window containing several images: a green printed circuit board (PCB) of an ECU, a blue electronic device, a close-up of a connector, and a wiring diagram. The wiring diagram shows a connector labeled 'MEVD1724-MEVD1725' with four pins (1, 2, 3, 4) connected to a multi-pin connector. Pin 1 is connected to a red wire, pin 2 to a green wire, pin 3 to a yellow wire, and pin 4 to a black wire. A red asterisk is placed next to the black wire connection.

According to the software physical wiring diagram wiring



Physical connection

ISN:

VIN:

Please use the new adapter

Fullscreen Return

Read EEPROM

Write EEPROM

Read FLASH

Write FLASH

Picture:

CAN Di...

Read successfully and save the data

ISN: AF4B06BF8ADD586917F8A2099AF58A54
VIN: SCBFN63W1EC094039

Please use the new adapter

Fullscreen Return

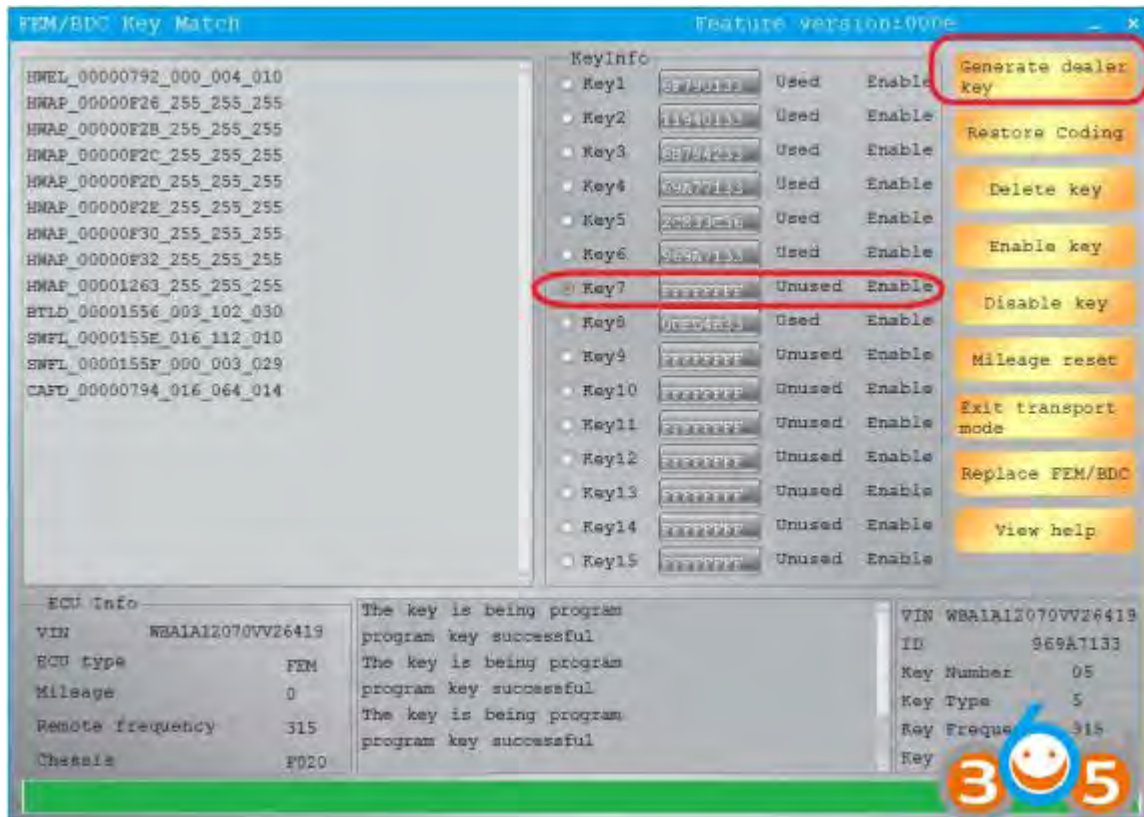
Read EEPROM
Write EEPROM
Read FLASH
Write FLASH



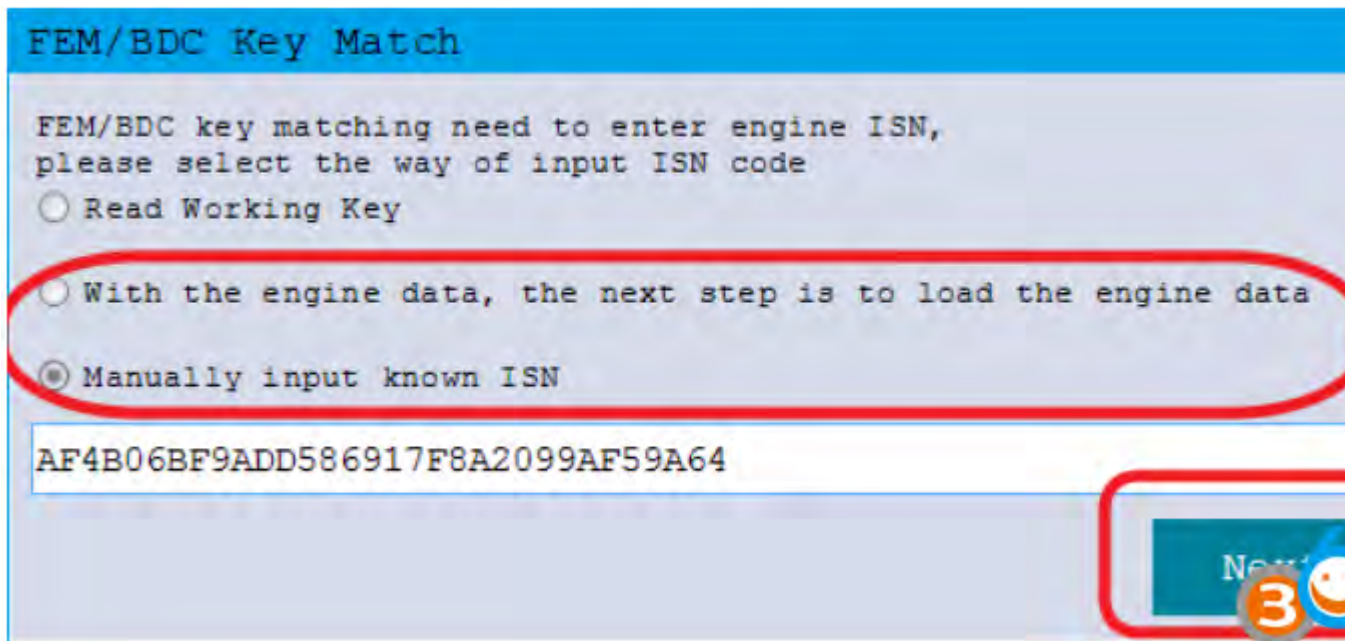
Picture:
CAN Diagram
Wiring Diagram 1



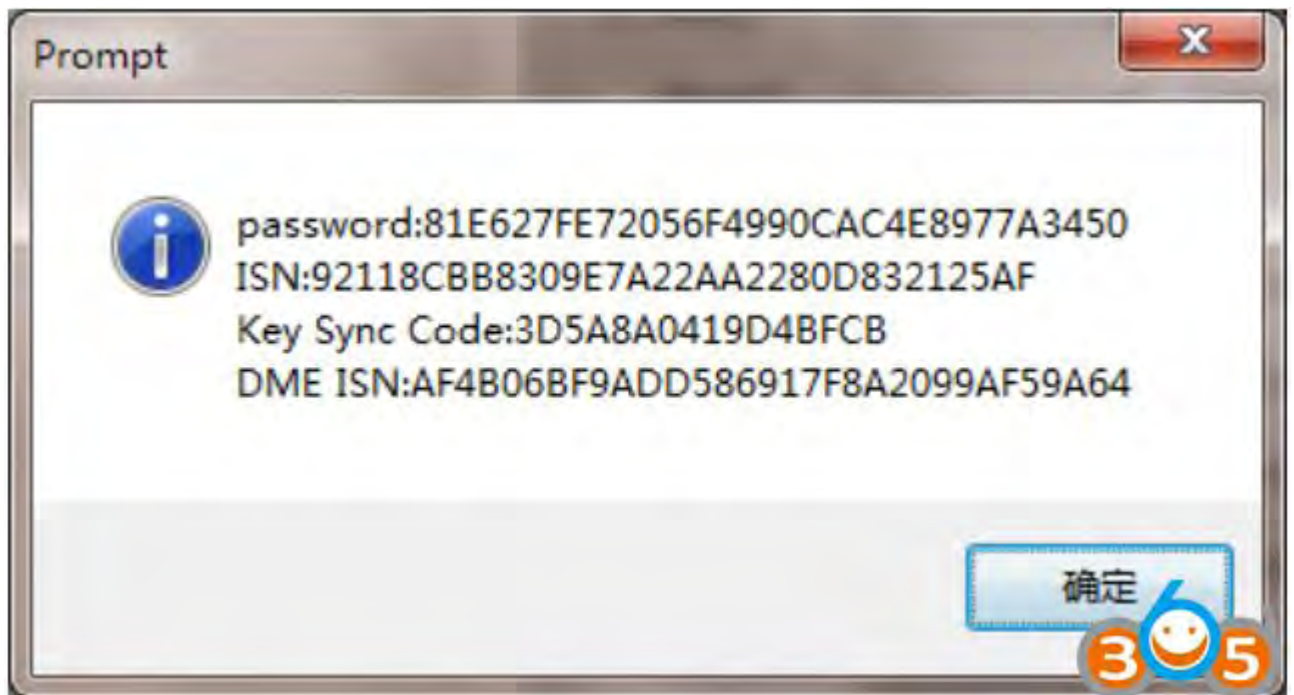
Show ISN and VIN



Return to cg-di, select unused key bits, and click “generate dealer keys”



Click on the next item that you select and click next (Manually input known ISN)



Check the information and click ok



Place new key

FEM/BDC Key Match Feature version:000e

Key	Key ID	Status	Enable	Action
Key1	00000000	Used	Enable	Generate dealer key
Key2	11940155	Used	Enable	Restore Coding
Key3	00000000	Used	Enable	Delete key
Key4	00000000	Used	Enable	Enable key
Key5	20000000	Used	Enable	Disable key
Key6	00000000	Used	Enable	Mileage reset
Key7	01400000	Used	Enable	Exit transport mode
Key8	00000000	Used	Enable	Replace FEM/BDC
Key9	00000000	Unused	Enable	View help
Key10	00000000	Unused	Enable	
Key11	00000000	Unused	Enable	
Key12	00000000	Unused	Enable	
Key13	00000000	Unused	Enable	
Key14	00000000	Unused	Enable	
Key15	00000000	Unused	Enable	

ECU Info	Program Log	ECU Details
VIN: WBA1A12070VV26419	program key successful	VIN: WBA1A12070VV26419
ECU type: FEM	The key is being program	ID: D148EA35
Mileage: 0	program key successful	Key Number: 06
Remote frequency: 315	The key is being program	Key Type: 5
Chassis: F020	The key is being program	Key Frequency: 315
	program key successful	Key ID: 00000000

305

New key programming success.

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