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Trademark

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Disclaimer

The contents of this document are subject to changes without notice due to continued improvements in design, manufacture, and methodologies. SMARTSAFE is not liable for the damage or losses due to the use of this document.

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

a. This device may not cause harmful interference
b. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which

the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

🔴 Important: Please read this manual carefully and understand the safety precautions before performing any operation to this product.

Safety Grades

Safety grade definitions in this manual are as followings:

Symbol	Definition	Usage
⚡	Danger	Indicates a hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.
❗	Warning	Indicates a hazardous situation which, if not avoided, could result in possible injury to the operator or to bystanders.
⚠	Caution	Indicates a hazardous situation which, if not avoided, could result in serious equipment damage or property losses.

Safety Precautions

• Never collide, throw, or puncture the test equipment, and avoid falling, extruding and bending it.
• Do not insert foreign objects into or place heavy objects on your device. Sensitive components inside might cause damage.
• Do not use the test equipment in exceptionally cold or hot, dusty, damp or dry environments.
• In places using the test equipment may cause interference or generate a potential risk, please turn it off.
• The test equipment is a sealed unit. There are no end-user serviceable parts inside. All internal repairs must be done by an authorized repair facility or qualified technician. If there is any inquiry, please contact the dealer.
• Never place the test equipment into apparatus with strong electromagnetic field.
• Do not attempt to replace the internal rechargeable lithium battery. Contact

the dealer for factory replacement.

- Use the included battery and charger. Risk of explosion if the battery is replaced with an incorrect type.
- Do not disconnect power abruptly when the test equipment is being formatted or in process of uploading or downloading. Or else it may result in program error.
- Do not delete unknown files or change the name of files or directories that were not created by you, otherwise the test equipment software might fail to work.
- Be aware that accessing network resources can leave the test equipment vulnerable to computer viruses, hackers, spyware, and other malicious activities that might damage your device, software or data. Ensure that you have adequate protection in the forms of firewalls, anti-virus software, and anti-spyware software and keep such software up to date.
- Do not disconnect battery or any wiring cables in the vehicle when the ignition switch is on, as this could avoid damage to the sensors or the ECU.
- Do not place any magnetic objects near the ECU. Disconnect the power supply to the ECU before performing any welding operations on the vehicle.
- Use extreme caution when performing any operations near the ECU or sensors. Ground yourself when you disassemble PROM, otherwise ECU and sensors can be damaged by static electricity.
- When reconnecting the ECU harness connector, be sure it is attached firmly, otherwise electronic elements, such as ICs inside the ECU, can be damaged.

Packing List

- Main unit
- Power adapter
- Main diagnostic cable
- The fourth-generation data acquisition cable
- The fourth-generation of EEPROM data acquisition cable(without dismantling dashboard)
- BENCH mode cable
- MCU converter V1
- MCU converter V2
- MCU cable with multiple leads
- EEPROM chip adaptor
- Benz infrared analog acquisition key
- MCU cable with multiple leads
- EEPROM converter
- User manual

Table of Contents

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1 About this Manual

This manual introduces the basic information of X-PROG 3 and instruction on the product usage. X-PROG 3 is a powerful anti-theft solution and an ideal choice for professional repair shops and vehicle maintenance businesses. It has achieved vehicle key, Engine and gearbox programming, featuring powerful multiple parts reprogramming and wide range of vehicle coverage.

1.1 Target Reader

This document is intended for vehicle owners or repair technicians to perform various diagnostic procedures using X-PROG 3; it assumes a basic knowledge of vehicles.

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1.2 Typographic Conventions

The typographic elements that may be found in the document are defined in the following table:

Item	Presentation	Example
Cascading Menus	->	**Main Interface**->**Local Diagnosis**
Parameter/value	**Bold**	Slide the WLAN switch to "**ON**".
Variable/unfamiliar term	*Italic*	Visit us by *www.newsmartsafe.com*.
UI control	**Bold**	On the **Health Check** screen, tap **Enter**.
Message	""	The "success" message appears.

1.3 Symbols

Following symbols are used in this document:

Symbol	Definition	Usage
🖹	Note	Widely used for any supplementary information.
ⓘ	Tip	Refers to easily overlooked tricks that is necessary for a better user experience.

2 About X-PROG 3

2.1 Product Overview
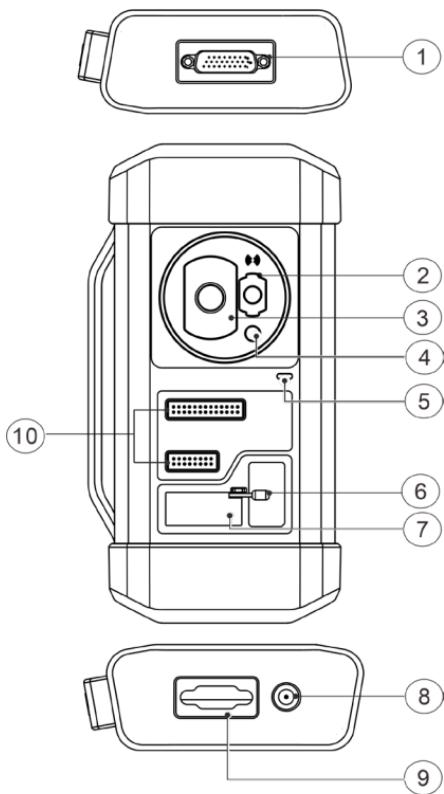
No.	Part Name	Description
1	DB26 diagnostic connector	To connect with all anti-theft cables.
2	Benz key slot	To place Benz car key.
3	Key slot	To place car key for RF defection.
4	Key chip slot	To place key chip.
5	Power indicator	• Red light indicates faults. • Orange light indicates functions normally.
6	Valve	To tighten loose EEPROM board.
7	EEPROM slot	To insert EEPROM board
8	Power port	For power charging
9	DB15 diagnostic connector	To connect with main diagnostic cable.
10	DIY slot	To insert vehicle DIY board.

2.2 Power Source

The product does not have an independent power supply, you can powered it up by the followings ways:

• Use the power adapter supplied by SMARTSAFE
• Connect the device through the vehicle's DLC

2.3 Technical specifications
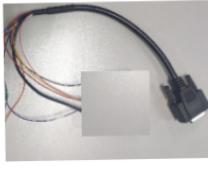
Input voltage	12 V DC
Input current	500 mA
Working temperature	0 to 50 ℃
Storage temperature	- 20 to 70 ℃
Dimension	39 x 107 x 298 mm

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2.4 Accessories

Photo	Accessory Name	Descrption
	Main Diagnostic Cable	To connect vehicle DLC port, VCI and programmer for diagnose.
	Power adapter	To provide power supply for the programmer.

	The fourth-generation data acquisition cable	After removing the vehicle dashboard, connect programmer, vehicle dashboard, and the cable.
	The fourth generation of EEPROM data acquisition cable (without dismantling dashboard)	To connect the programmer and vehicle dashboard,and then place the probe(the yellow lead) to the designated area.
	BENCH mode cable	To connect the programmer and the engine to read engine or gearbox ECU (Connect engine ECU with the BENCH mode cable based on BENCH mode diagram).
	MCU Converter V1	To connect the programmer with MCU(chip soldering is required in this procedure).
	MCU Converter V2	To connect the programmer with MCU(chip soldering is required in this procedure).

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	EEPROM chip adaptor	To place the EEFROM chip onto the adaptor, and then plug it into the programmer socket.
	Benz infrared analog acquisition key	To connect the programmer with the key lock, insert the key into the programmer for further key operations.
	EEPROM converter	To solder the desired chip on the EEPROM converter, and then plug the board into the programmer(chip soldering is required）
	MCU cable with multiple leads	To connect the programmer and MCU.

3 Diagnostics

X-PROG 3 diagnostic function supports key programming, engine and gearbox replacement for various of vehicles, you can retrieve ECU information, read, erase, and write in for a range of chips as shown in the product options.

3.1 Common Operations

• 3.1.1 Establish Hardware Connection

You need to turn off the ignition and correctly locate the vehicle Data Link Connector (DLC) so as to perform hardware connection.

You can refer to the table below for hardware connection:

User Scenario	Cable Image	End A	End B	End C
Key programming	End A End B End C Main diagnostic cable	Connect with SMARTSAFE VCI connector for data transmission	Connect with vehicle's DLC	Connect with X-PROG 3
Engine/ gearbox programming	End A End B End C Power cable	Connect power supply	N/A	Connect with end B the main diagnostic cable
Engine/ gearbox programming	End A End B MCU cable with mutiple leads	Connect with X-PROG 3	Connect with the engine or gearbox to be repaired/ replaced	N/A
Engine/ gearbox programming	End A End B End C Main diagnostic cable	Connect with SMARTSAFE VCI connector for data transmission	Connect power supply cable	Connect with X-PROG 3

• 3.1.2 Establish Wireless Connection

You must make sure that your diagnostic tool is well connected with X-PROG 3, follow steps below to check wireless connection:

🔖 Note: It is strongly recommended to connect the diagnostic tool with the VCI connector using a USB cable for effective data transmission.

1. Slide down the status bar from the top.

2. Touch ⚙ , go to **Wireless and network->Bluetooth**.

3. Select the X-PROG 3 to be connected, wait until the connection is successful.

• 3.1.3 Perform Common Operations

You should enter the function interface before using the programmer.

1. Turn on a SMARTSAFE diagnostic tool, and/or open [X-431] on the home screen.

2. On the main diagnostic screen, enter anti-theft system either from **Local Diagnose** or **Reset**, touch **OK**.

Information

The Execution Of The IMMO Function Requires An IMMO Programmer. Please Connect The Programmer. Click [OK] To Execute The Next Step.

| CANCEL | OK |
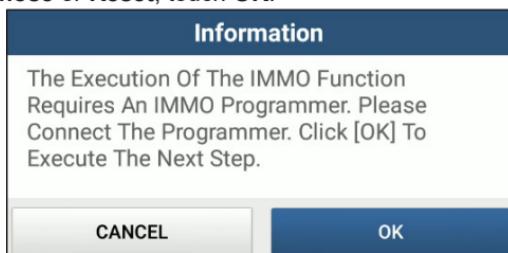
3. You will view the connection diagram, touch **OK**.
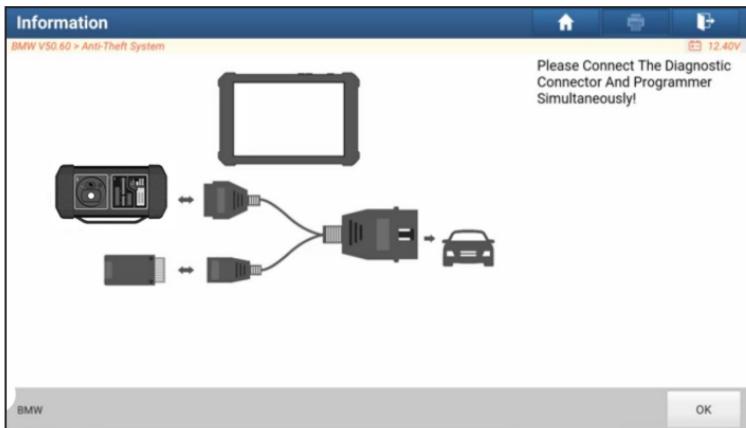
4.   Depending on your requirement, touch any of the following options :
- Gearbox Learning
- Anti-Theft System
- Engine System

3.2 Diagnostic Operations

3.2.1 Key Programming

You can use anti-theft system to access key chip programming functions. The product supports reading, retrieving and writing key information, as well as other key-related functions.

• Connecting diagnostic system

📘 Note:

The USB cable shown in below diagram is not included in the packing list for now, using a USB cable could effectively enhance your data transmission speed.
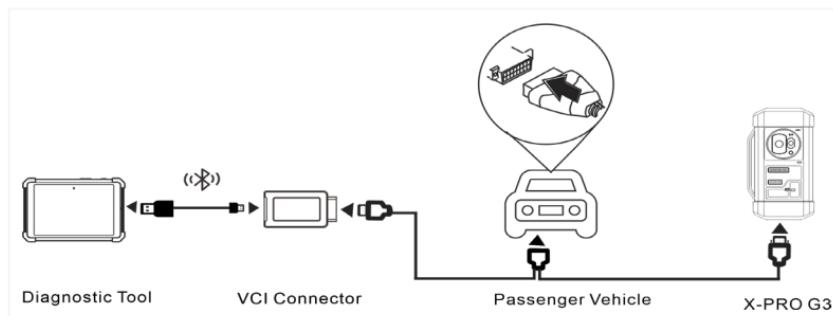
EN

- **Operating on key programming**

You can use key programming function to backup old key data and write in data for new keys. Below procedure shows you how to perform key programming for BMW using SMARTSAFE diagnostic product, it contains backup current key data and new key generation.

1. Backup current key data.

a. Touch **Intelligent Mode.**
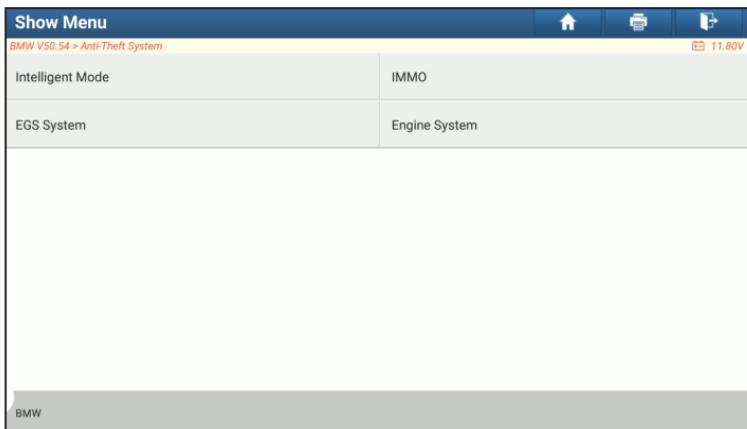
b. Touch **OK** to confirm the IMMO Type.

Intelligent Mode

Current IMMO Type: CAS3/CAS3+

OK

c. Touch **Key Operation**.

Show Menu				
BMW V50.54 > Anti-Theft System				11.74V
Vehicle Information		Vehicle Frequency		
ECU Reset		Key Operation		
Synchronize Operations		Clear DTC (S)		
Tool Version Repair		Read ISN (Initial Serial Number)		

BMW
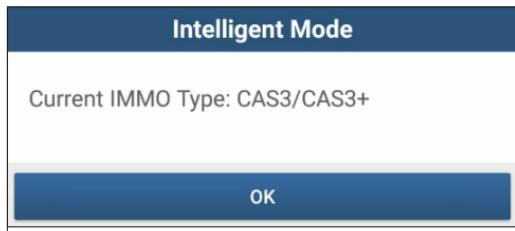
d. Touch **Key Learning**.

EN
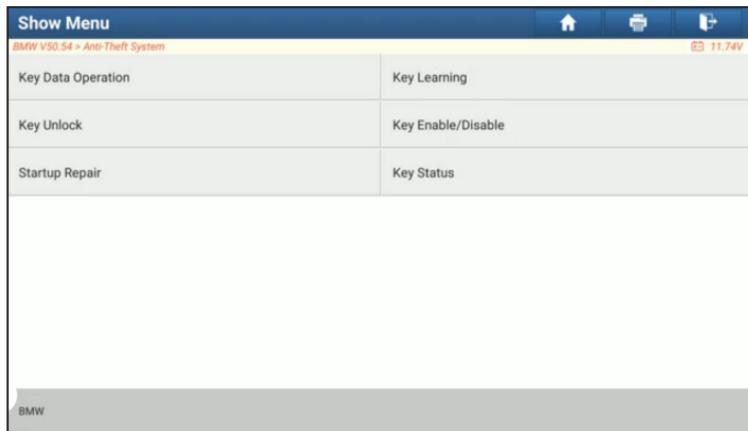
e. Touch **OK** after reading the the onscreen instruction.
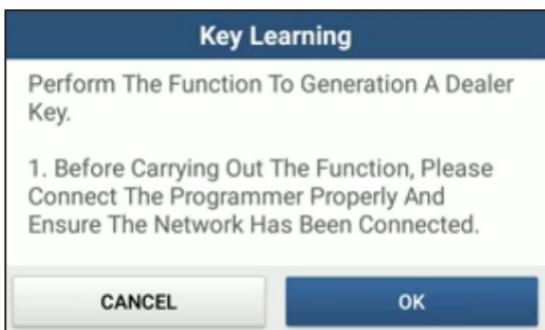
f. Touch **OK**.
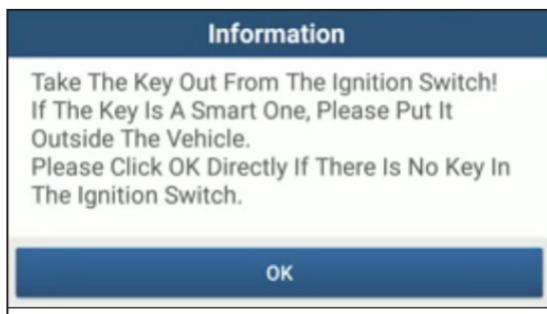
g. Touch **OK** to save the key data.

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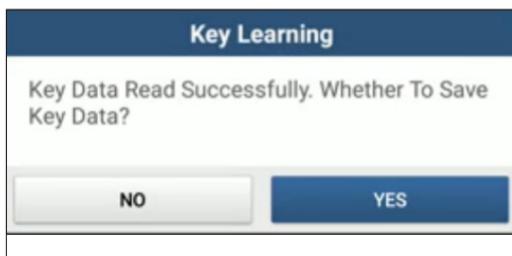
h. Enter the key file name and touch **OK**.
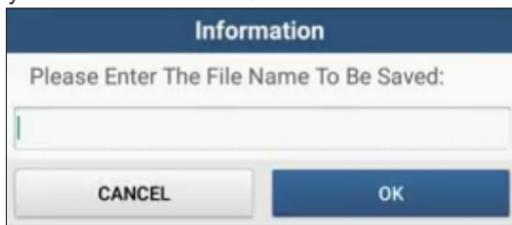
i. Key file saved, touch **OK** to confirm.

2. Generate a new key.

a. Touch the desired blank key position.

Key Position	Key ID	Key Type	Key Status	Vehicle Information	Enable/Disable Status
Key 2	BB53EE90	PCF 7953 remote key	Used	014B00	Disable
Key 3	1454EE90	PCF 7953 remote key	Used	004B00	Enable
Key 4	47AE9896	PCF 7953 remote key	Used	004300	Enable
Key 5	9C03869E	PCF 7953 remote key	Used	004300	Enable
Key 6	FFFFFFFF	Unknown	Unused	007608	Enable
Key 7	FFFFFFFF	Unknown	Unused	007608	Enable
Key 8	FFFFFFFF	Unknown	Unused	007608	Enable

| Key Generated By Ignition Switch | Key Generated By Programmer | Erase Key 1 |

b. Place the new key into the programmer key slot and touch **OK**.

c. Confirm the key type, if the you are using a smart key, touch **YES**.

Key Learning

Is The Current Key A Smart One?

NO   YES
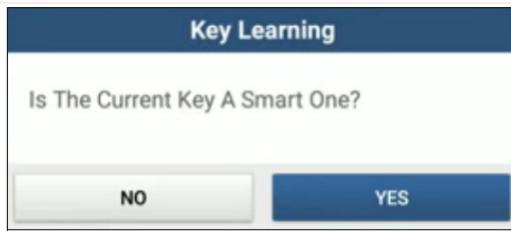
d. If the key generation is done, touch **OK t**o confirm.

Information

Dealer Key Is Generated Successfully. Please
Try To Start The Vehicle.
If The Newly Generated Key Cannot Start The
Vehicle, Please Execute DME Synchronization
Or DLE Synchronization Function According
To The Situation.

OK

EN
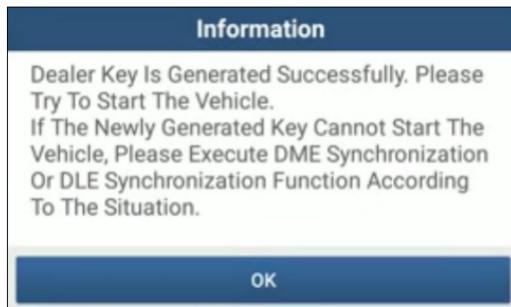
• **3.2.2 Gearbox Programming**

You can use gearbox programming function to restore the old gearbox data or
write in new data after a new gearbox is replaced.

• Connecting diagnostic system for gearbox programming

📑 Note:

• The USB cable shown in below diagram is not included in the packing
list for now, using a USB cable could effectively enhance your data
transmission speed.
• Certain Vehicle gearboxes are connected based on the real chassis
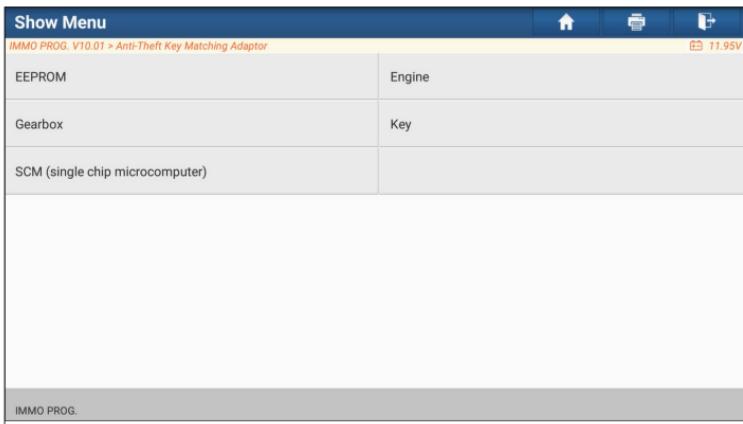type, for information how to connect the gearbox, refer to the
onscreen connection diagram.

Diagnostic Tool   **VCI Connector**   **X-PRO G3**   **Car Gear Box**
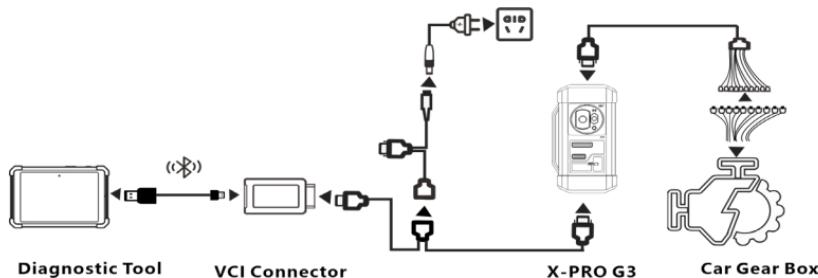
• Operating on Gearbox programming

Below procedure shows you how to perform gearbox programming for a BMW using SMARTSAFE diagnostic product, the procedure contains gearbox connection and erasure of gearbox data.

1. Connecting the gearbox.

a. On the programmer function interface, touch **EGS System** to enter gearbox programming.
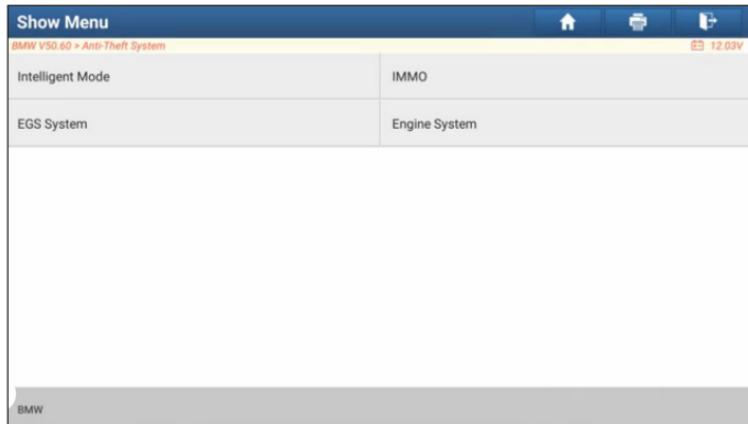
b. Touch the correct chassis type.
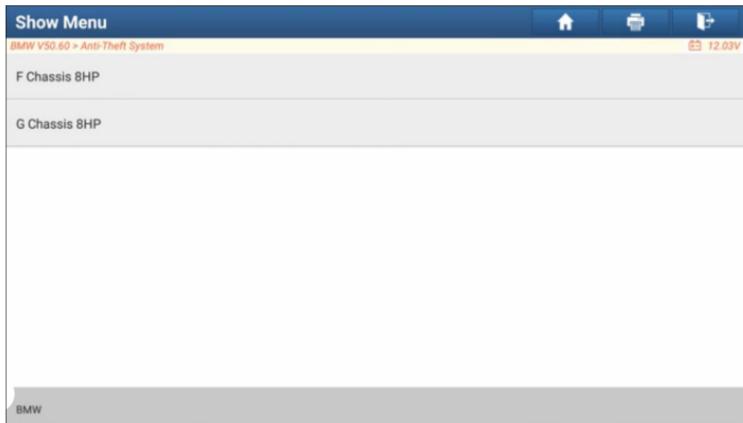
c. You will then see a corresponding connection diagram. Touch **OK**.
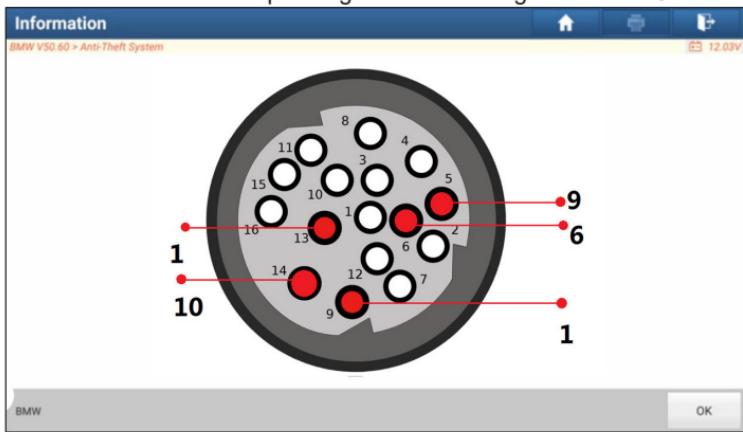
2. Erasing gearbox data.

a. Touch **EGS Erasure**.
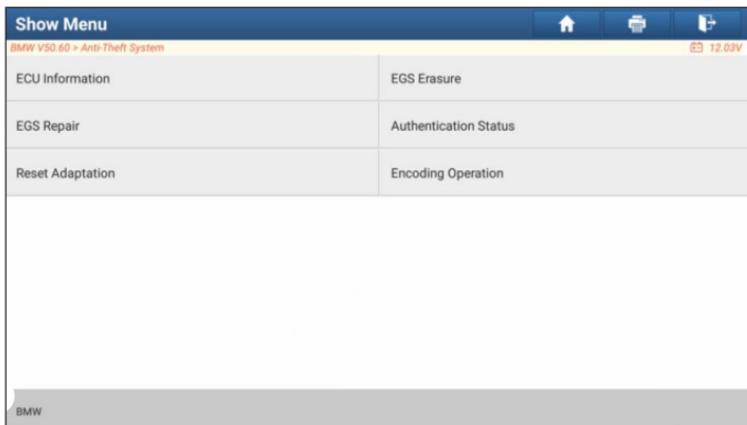
b. Touch **DOWNLOAD**.
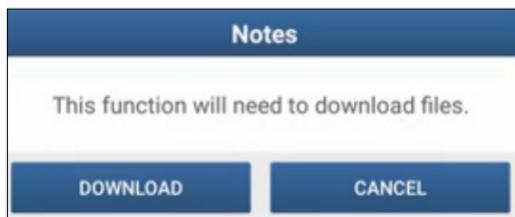
c. Touch **OK**.

d. Touch **DOWNLOAD**.

Notes

This function will need to download files.

| DOWNLOAD | CANCEL |

e. Touch **OK**.

Notes

✓ Downloaded successfully

| OK |

f. Touch **YES**.

ECU Reset

Erasure Of EGS Requires To Upgrade The
FLASH. Please Ensure The Supply Voltage Is
Not Below 13V And Is Stable!
Whether To Continue To Upgrade?

| NO | YES |

g. Touch **YES**.

ECU Reset

CAFD Code File Is Lost Or Current CAFS Does
Not Support Back-Up! !
Whether To Continue To Erase?

| NO | YES |

h. Touch **OK**.

ECU Reset

EGS Erasure Successful!
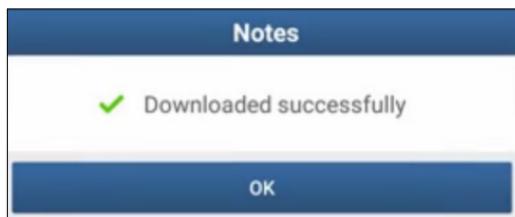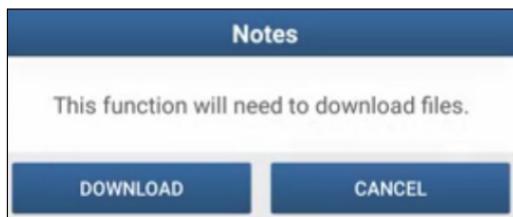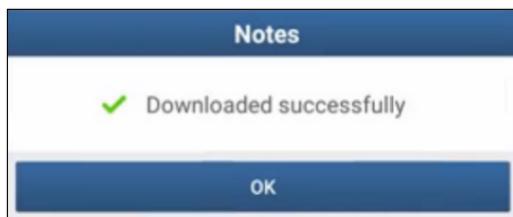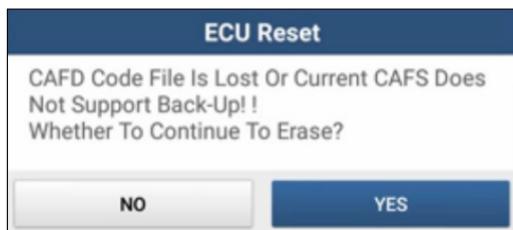
OK

3.2.3 Engine Programming

The engine programming function supports engine data reading, after a new gearbox is replaced, you can use Engine Programming function to write in the backup data.

• **Connecting diagnostic system for Engine programming**

> 🔖 Note:
>
> • The USB cable shown in below diagram is not included in the packing list for now, using a USB cable could effectively enhance your data transmission speed.
> • Vehicle engine connection could vary depending on engine types, for information how to connect the car engine, refer to the onscreen connection diagram.

Diagnostic Tool   VCI Connector   X-PRO G3   Car Engine
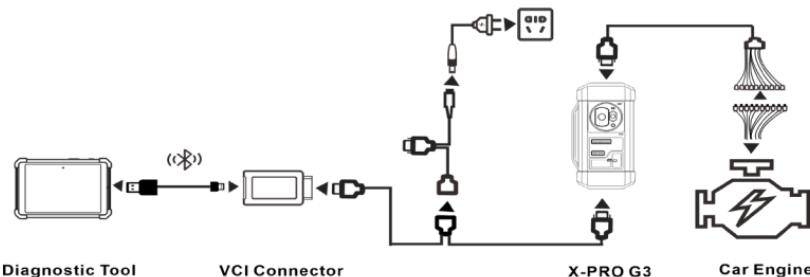
• **Operating on Engine Programming**

Below procedure shows you how to perform engine programming for a Volkswagen using SMARTSAFE diagnostic product, the procedure contains chip ID retrieval, engine connection, data backup and data restoration.

1. Retrieve chip ID.
a. Touch **Engine**.

Show Menu	🏠 🖨 📤
IMMO PROG. V10.01 > Anti-Theft Key Matching Adaptor	🔋 *11.95V*
EEPROM	Engine
Gearbox	Key
SCM (single chip microcomputer)	
IMMO PROG.	

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b. Select Engine Brand.

Show Menu	🏠 🖨 📤
IMMO PROG. V10.01 > Engine	🔋 *11.95V*
Bosch	
IMMO PROG.	

c. Touch **Search for ECU model**.

d. Check ECU model (printed on the sticker on the back of your Engine), enter the engine type in the dialogue box (In example below, the engine type should be MED17.7.7).

e. Touch **OK**.

Information

The main control chip corresponding to the current engine type is: TC1793
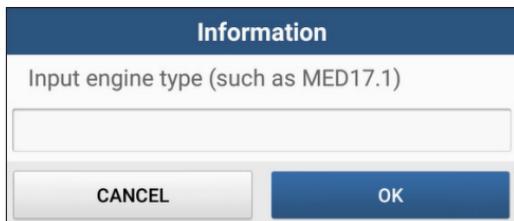
OK
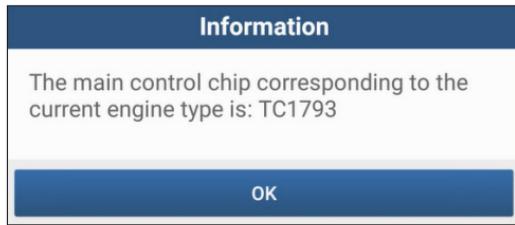
2. Connect the engine.
a. Touch **View Wiring Diagram**.

EN

Show Menu	🏠 🖨 📇
IMMO PROG. V10.01 > MED17.1.10 TC1793	📇 *11.95V*
Backup EEPROM Data	Back up FLASH data
Restore EEPROM Data	Read chip ID
View Wiring Diagram	
IMMO PROG.	
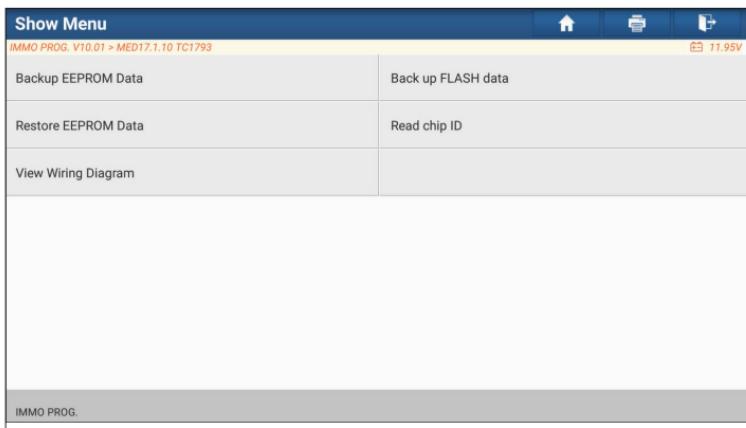
b. Read the connection diagram, perform the proper connection based on the engine type, and then touch **OK**.

Information

IMMO PROG. V10.01 > MED17.1.10 TC1793   11.95V

Please Connect The Engine To The
Diagnostic Connector According To The
Picture And Power The Device On

IMMO PROG.   OK

c. Touch **Read chip ID**.

Show Menu

IMMO PROG. V10.01 > MED17.1.10 TC1793   11.95V

Backup EEPROM Data	Back up FLASH data
Restore EEPROM Data	Read chip ID
View Wiring Diagram	

IMMO PROG.
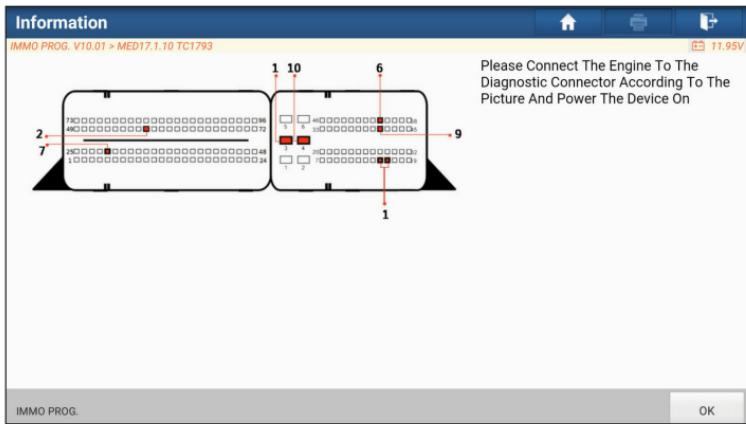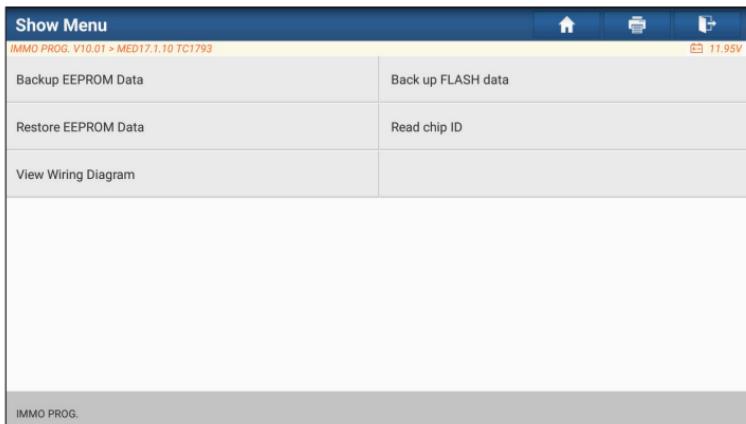
d. When below dialogue box appears, touch **OK**.

Information

Chip ID:
41C80805D543281E100C002011000000

OK
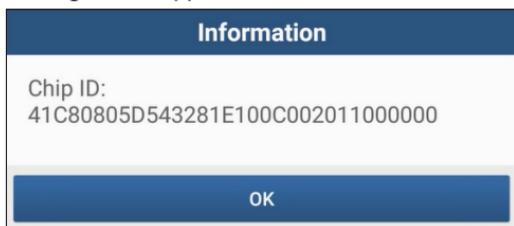
3. Backup data.
a. Touch **Backup EEPROM Data**.
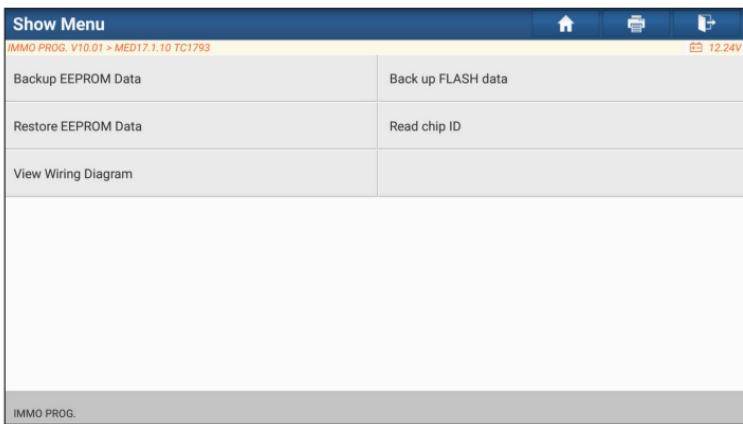
b. Enter the file name for EEPROM data.

c. Confirm the storage path, and touch **OK**.

d. Touch **OK**.
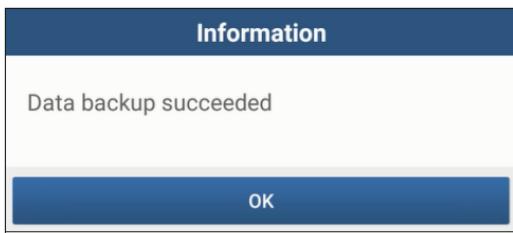
Anti-Theft Function	🏠	🖨	➡
IMMO PROG. V10.01 > Anti-Theft Function			🔋 12.14V

Backup File Name

jjjjj.bin

jjkkkkk.bin

12346789.bin

yiopkmnn.bin

uijnnnmk.bin

23344%.bin

Med17.bin

Bosch_ecu.bin

EXIT
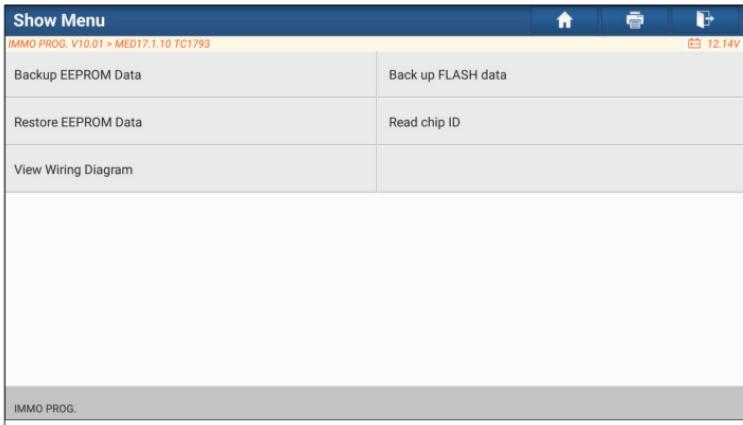
c. Confirm the selected Backup EEPROM file, and touch **OK.**

Information

Selected File Is:Bosch_ecu.bin
Select [YES] To Continue, [NO] To Exit.

NO	YES
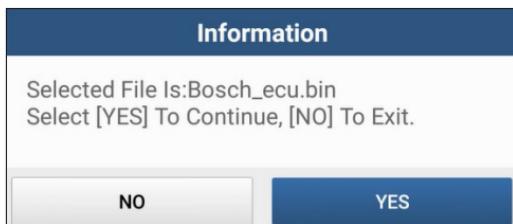
d. When the data is successfully restored, touch **OK**.

Information

Data Successfully Restored!

OK

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- ### **3.2.4 Return from Diagnostic Function**

After completion, you can press ⤺ to return from programming interface.

4. Software Upgrade

The software update function keeps your diagnostic software & App up-to-date, you can also use it to customize your frequently used software.

To update Diagnostic Software & APP:

1. On the main diagnostic screen, tap **Software Update** to enter the update center. Check the software you want to upgrade, and then tap **Update**.
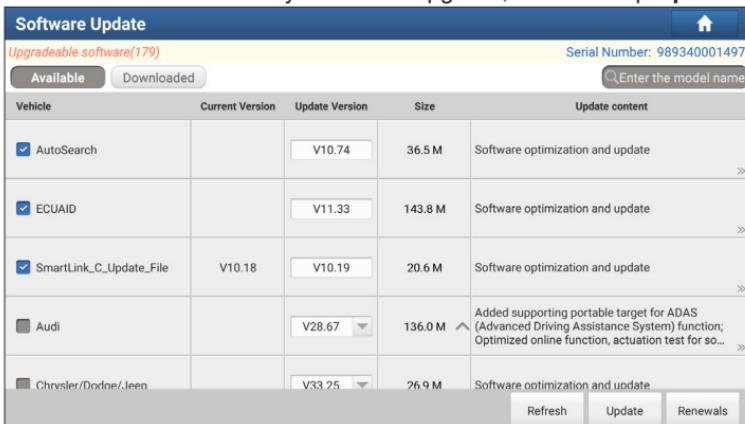
Software Update				🏠
Upgradeable software(179)				Serial Number: 989340001497
Available Downloaded				🔍Enter the model name
Vehicle	**Current Version**	**Update Version**	**Size**	**Update content**
☑ AutoSearch		V10.74	36.5 M	Software optimization and update »
☑ ECUAID		V11.33	143.8 M	Software optimization and update »
☑ SmartLink_C_Update_File	V10.18	V10.19	20.6 M	Software optimization and update »
☐ Audi		V28.67 ▼	136.0 M ⌃	Added supporting portable target for ADAS (Advanced Driving Assistance System) function; Optimized online function, actuation test for so... »
☐ Chrysler/Dodge/Jeep		V33.25 ▼	26.9 M	Software optimization and update
				Refresh Update Renewals

2. Once downloading completes, the software packages will be installed automatically.

Update			🏠
Software Installed(2/3)		0KB/S Serial Number: 989340001497	
Name	Version	State	
IMMO PROG	V10.01	▇▇▇ Installed successfully	
SmartLink_C_Update_File	V10.19	▇▇▇ Installed successfully	
ECUAID	V11.33	▇▇ Installing	

All start   All stop

📑 Note:

- You may stop the process by tapping **Stop**, and tap **Continue** to resume the process later.
- In case of network connection failure, tap **Retry**.

3. You will see below dialogue box once the installation is completed.

Information

The main control chip corresponding to the current engine type is: TC1793

OK
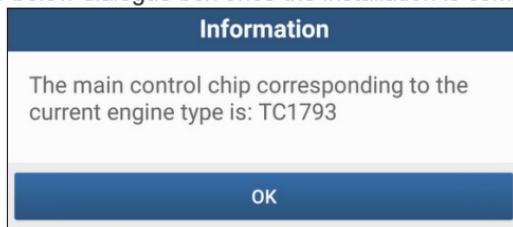
5. Warranty

SMARTSAFE warrants its customer against any defects in workmanship and material of this product for 1 year after the date of delivery. Final judgment of defects shall be made by SMARTSAFE in accordance with procedures established by SMARTSAFE. No agent, employee, or representative of SMARTSAFE has any authority to bind SMARTSAFE to any affirmation, representation, or warranty concerning SMARTSAFE automotive meters, except as stated herein. The exclusive remedy for all automotive meters found to be defective is to repair or replace, and SMARTSAFE has no liability for any consequential or incidental damages.

The following cases are not covered in product warranty:

• Products with mechanical serial number being altered, removed, or defected.
• Products exposed to extreme conditions, such as excessive temperature, or moisture.
• Products damage resulting from external causes such as fire, dirt, sand battery leakage, blown fuse, theft or improper usages of electrical source.
• Products subject to accidents, mishandling, unauthorized alteration, abnormal usage or conditions, improper installation, repair or storage.

Order Information

Replaceable and optional parts can be ordered directly from your SMARTSAFE authorized tool supplier. Your order should include the following information:

4. Quantity
5. Part number
6. Item description

Customer Service

If you have any questions on the operation of the unit, please contact local dealer, or contact SHENZHEN SMARTSAFE TECH. CO., LTD:

Tel: +86-755-89589916

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法律声明

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非经本公司书面许可，任何单位和个人不得擅自抄袭、复制本文档内容的部分或全部，并不得以任何形式传播。

注意

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手册升级，恕不另行通知，若需最新手册，请通过以下方式获取：

* 与您的产品销售商联系；
* 登陆易检车服科技有限公司官方网站 www.newsmartsafe.com下载。

❗重要提示	本手册介绍了如何正确使用本产品。操作手册所述流程前，请务必认真阅读安全注意事项后再使用该产品。

安全信息

文中使用的指示图标说明如下：

📇	说明	说明突出重要信息和使用窍门，对您的操作进行必要的提示、补充和说明。
⚠	注意	提醒您在操作中必须注意和遵循某些事项。如未按照要求操作，可能会出现设备损坏、数据丢失等不可预知的结果。
❗	警告	警告您可能会存在潜在的危险，若无法避免，可能会造成较为严重的人身伤害。

更多服务

消费者服务热线：4009-301-883

更多信息请访问https://newsmartsafe.com

注意事项

* 请勿在多灰、潮湿、肮脏或靠近磁场的地方使用设备，以免引起设备内部电路故障。
* 请勿在雷雨天气使用本设备。雷雨天气可能导致设备故障或电击危险。

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- 请在温度0℃到50 ℃范围内存放设备及其配件。当环境温度过高或过低时，可能会引起设备故障。
- 请勿将设备放置在阳光直射的地方，如汽车仪表盘或窗台处。
- 请避免设备及其配件雨淋或受潮，否则可能导致火灾或触电危险。
- 请勿将设备靠近热源或裸露的火源，如电暖器、微波炉、烤箱、热水器、炉火、蜡烛或其他可能产生高温的地方。

包装清单

- 主机
- 电源适配器
- 主诊断电缆
- 四代全丢采数线
- 四代仪表免拆EEPROM全丢线
- BENCH模式线
- MCU转接板V1
- MCU转接板V2
- MCU飞线
- 芯片转接座
- 奔驰红外模拟采集钥匙
- EEPROM转接板
- 产品手册

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目录

1 关于本手册

本手册包含产品操作使用说明。手册中涉及的某些功能和图示，可能包含了您设备中没有的模块和选配设备，您可通过联系当地的经销商和销售代表，了解其它选配的模块和配件等。

1.1目标读者

本文旨在为车主或维修技师使用本产品进行诊断程序提供指导，阅读前您需要对车辆知识有基本了解。

1.2 约定

下表定义了文档中可能出现的特殊元素：

名称	符号	示例
联级菜单	->	主页**->**本地诊断
参数/值	粗体	将WLAN开关切换至**ON**。
变量或陌生术语	斜体	获取更多信息，请访问*www.newsmartsafe.com*。
UI控件	粗体	在状况检查屏幕上，单击进入。
消息	""	弹出"连接成功"消息。

1.3 图标定义

下表定义了文档中可能出现的图示及其含义：

	说明	解释说明以突出重要信息，对您的操作进行必要的补充和说明。
	提示	指出重要使用小窍门，对您的操作进行必要的提示和补充。
	重要提示	对重要的信息进行突出，提醒使用者按照标准执行。

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2 关于 X-PROG 3

2.1 产品介绍
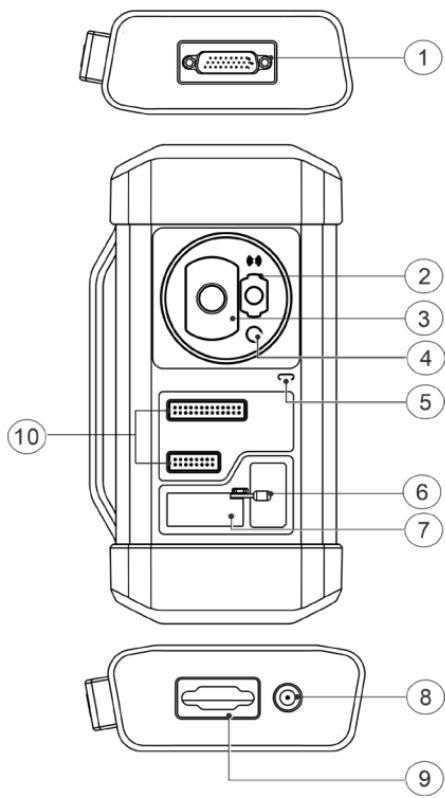
编号	部件名称	功能
1	DB26 诊断线	用于插接MCU 飞线连接待诊设备
2	Benz 钥匙槽	用于放置奔驰汽车钥匙
3	钥匙卡槽	用于放置汽车钥匙
4	钥匙芯片槽	用于放置汽车钥匙芯片
5	电源指示灯	红灯表示发生故障. 黄灯表示正常工作
6	卡紧阀杆	用于卡紧EEPROM芯片
7	EEPROM 卡槽	用于插接EEPROM板
8	电源接口	用于供电
9	DB15 诊断线	用于连接主诊断线
10	DIY 卡槽	插接DIY板

2.2 电源

X-PROG 3产品不具备独立电源，您可以通过如下方式对产品供电。

- 通过易检车服配备的电源适配器供电
- 通过汽车DCL接口供电

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2.3 技术参数

工作电压	12 V DC
输入电流	500 mA
工作温度	0 to 50 ℃
储藏温度	- 20 to 70 ℃
包装尺寸	39 x 107 x 298 mm

2.4 配件列表

图片	配件名	用途
	主诊断线	用于连接汽车DLC端口、VCI接头和防盗编程器进行车辆诊断。
	电源线	用于给防盗编程器供电。
	四代全丢采数线	拆除仪表后，连接防盗编程器、仪表以及线束。

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	四代仪表免拆EEPROM全丢线	拆除仪表后，先连接G3和仪表，使仪表跟G3进行通信，再根据提示将探针放到指定位置
	BENCH模式线	连接防盗编程器和发动机，用于读取发动机ECU和变速箱ECU（根据BENCH模式图，用配套转接线将发动机ECU与BENCH模式线连接起来）。
	MCU转接板	连接防盗编程器与MCU（该操作需要进行芯片焊接）。
	芯片转接座	将EEPROMM芯片放到该插座上，然后再将其插到防盗编程器的芯片专用插座上。
	奔驰红外模拟采数钥匙	连接防盗编程器和钥匙锁头，将钥匙插到防盗编程器中，就可对钥匙进行操作。

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	EEPROM转接板	将需要用到的芯片焊接到该电路板上，然后将该板子插到G3上面（该操作需要进行芯片焊接）。
	MCU飞线	用于连接防盗编程器和MCU。

3 诊断
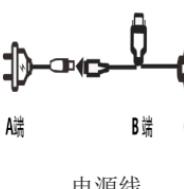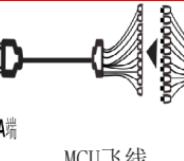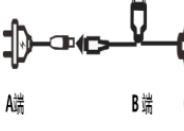
X-PROG 3诊断功能支持各种车型的钥匙编程、发动机和变速箱更换，您可获取ECU信息、读取、擦除和写入含有防盗数据的相关芯片。

3.1常用操作

3.1.1建立硬件连接

您需要关闭点火开关，并找到车辆DLC端口，以便进行硬件连接。

硬件连接见下表：

使用场景	线缆图片	A端	B端	C端
钥匙编程	A端　　　B端　　　C端 主诊断线	用于连接易检车服VCI接头以传输数据	连接汽车DLC端口	连接X-PROG 3
发动机/变速箱编程	A端　　　B端　C端 电源线	连接电源	N/A	与X-PROG 3连接
发动机/变速箱编程	A端　　　　　　B端 MCU飞线	连接X-PROG 3	连接待更换或维修的发动机和波箱	N/A
发动机/变速箱编程	A端　　　B端　C端 主诊断线	连接易检车服VCI接头	连接电源线	用于连接X-PROG 3

3.1.2 建立无线连接

确认您的诊断设备与X-PROG 3连接，按照以下步骤检查无线连接：

> 建议使用USB电缆将诊断工具与VCI连接器连接起来，以便进行有效的数据传输。

1. 从设备顶部向下滑动状态栏。
2. 点击 ⚙ ，进入无线和网络->蓝牙。
3. 选择需要连接的X-PROG 3，等待蓝牙连接成功。

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3.1.3 执行常规操作

1. 在使用编程器之前，您需进入防盗编程器功能界面，点击本地诊断工具或特殊功能，

2. 点击确定查看连接方法。
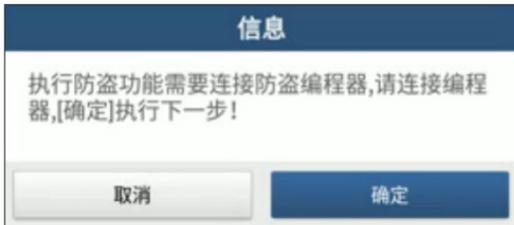
3. 诊断连接图示例显示如下，点击确定。
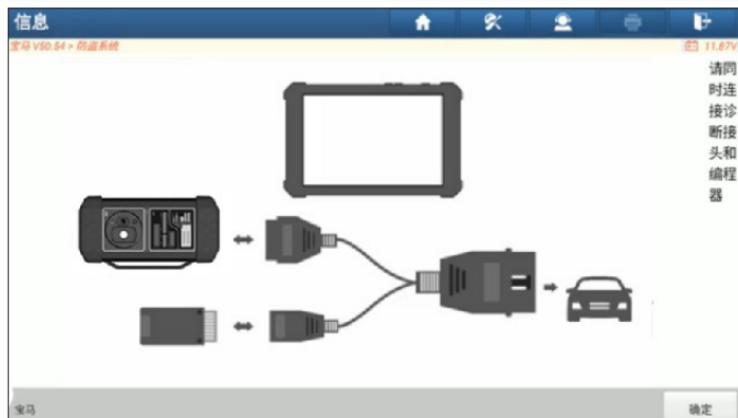
4. 根据您的要求，点击任一选项继续：

- 变速箱系统
- 防盗系统
- 发动机系统
- 智能模式

3.2 诊断操作

3.2.1钥匙编程

您可以使用防盗系统访问钥匙芯片编程功能。本产品支持读取，备份和写入钥匙信息以及其他钥匙相关功能。

- 连接诊断系统

📑 下图所示USB线不在产品包装清单中，推荐您使用USB线以提高您的数据传输效率。

| 诊断设备 | 诊断接头 | 待诊断汽车 | 防盗编程器 |
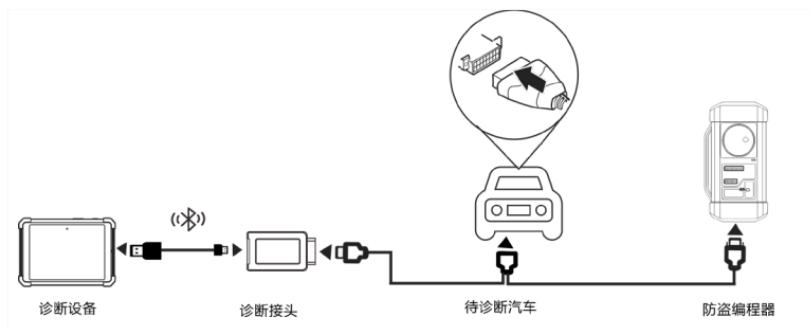
• 钥匙编程操作

您可以使用钥匙编程功能以备份旧钥匙数据，并写入新钥匙中。如下操作将向您展示为宝马配钥匙的流程，该流程包含备份当前密钥数据和生成新密钥。

1. 备份当前钥匙数据。

a. 点击智能模式。

| 菜单显示 | 🏠 | 🛠 | 👤 | 🖨 | ⏏ |

宝马 V50.54 > 防盗系统   📶 11.86V

| 智能模式 | 防盗系统 |
| 变速箱系统 | 发动机系统 |

宝马

b. 点击确定。

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c. 点击钥匙操作。

d. 点击钥匙学习。

CH
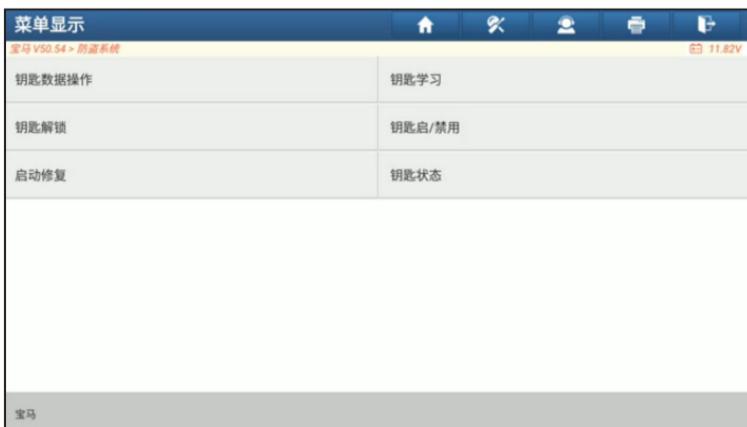
e. 阅读屏幕说明后，点击确定。
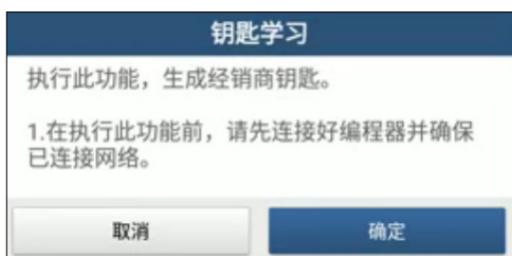
f. 点击确定。
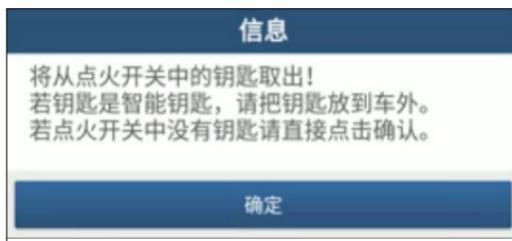
g. 点击确定，以保存钥匙数据。

h. 输入文件名，然后点击确定。

i. 文件已保存，点击确定。
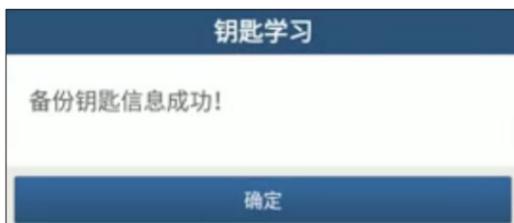
2. 生成新密钥。

a. 点击所需的空白钥匙位置。

b. 将新钥匙放入编程器钥匙槽，然后点击确定。
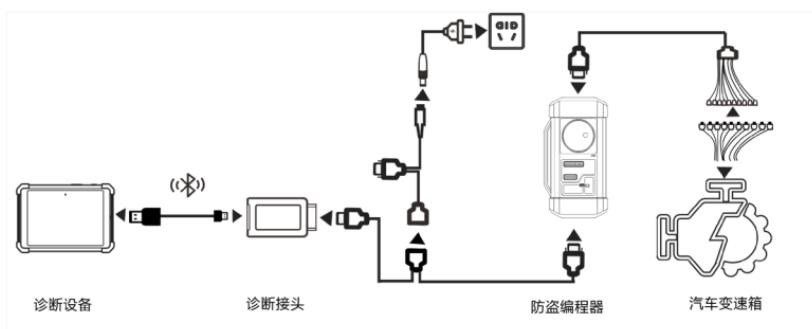

c. 确认钥匙类型，如果您使用的是智能钥匙，点击是。

d. 钥匙生成完成，点击确定。
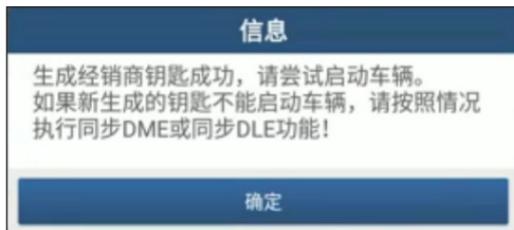
3.2.2 变速箱编程

您可以使用变速箱编程功能，以恢复旧变速箱数据，或更换变速箱后写入新数据。

• 连接变速箱编程诊断系统

> • 下图所示USB线不在产品包装清单中，推荐您使用USB线以提高您的数据传输效率。
> • 根据不同车型，车辆变速箱的连接方式也不同，有关如何连接变速箱的信息，请参阅产品自带的变速箱连接图。

| 诊断设备 | 诊断接头 | 防盗编程器 | 汽车变速箱 |

• 变速箱编程操作

如下流程展示了使用宝马进行变速箱更换的操作流程，流程包括变速箱连接和数据擦除。

1. 连接变速箱。

a. 在编程器功能界面，点击EGS系统进入减速箱编程。

b. 点击正确的底盘类型。

c. 然后您将看到相应的连接图。点击确定。

2. 擦空变速箱数据。

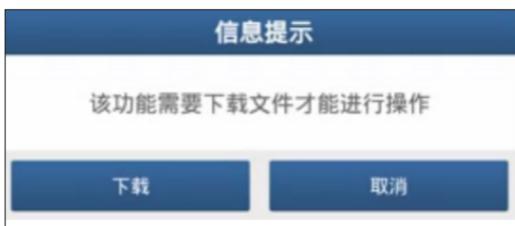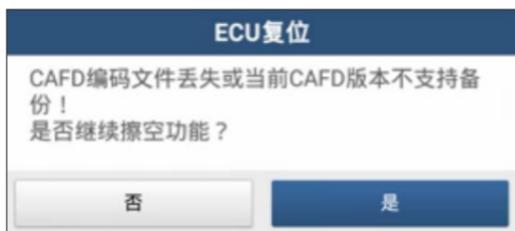a. 点击变速箱擦空。

b. 点击下载。

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信息提示

该功能需要下载文件才能进行操作

| 下载 | 取消 |

c. 点击确定。

信息提示

✔ 下载成功

确定

d. 点击下载。

信息提示

该功能需要下载文件才能进行操作

| 下载 | 取消 |

e. 点击确定。

信息提示

✔ 下载成功

确定

f. 点击是。

ECU复位

擦空变速箱需要升级FLASH，请确认车辆电源电压不低于13V且稳定！
是否继续升级？

| 否 | 是 |

g. 点击是。

ECU复位

CAFD编码文件丢失或当前CAFD版本不支持备份！
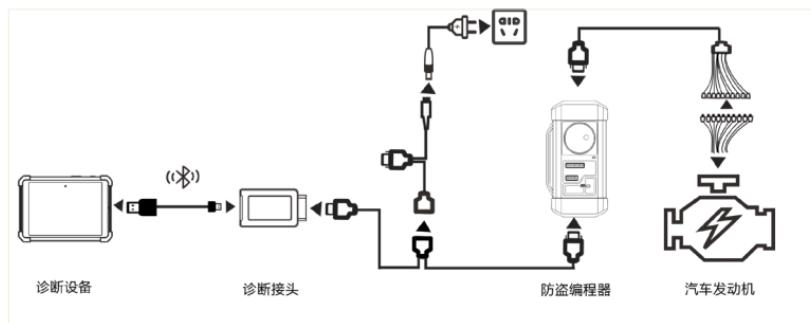是否继续擦空功能？

| 否 | 是 |

h. 擦空成功，点击确定。

ECU复位
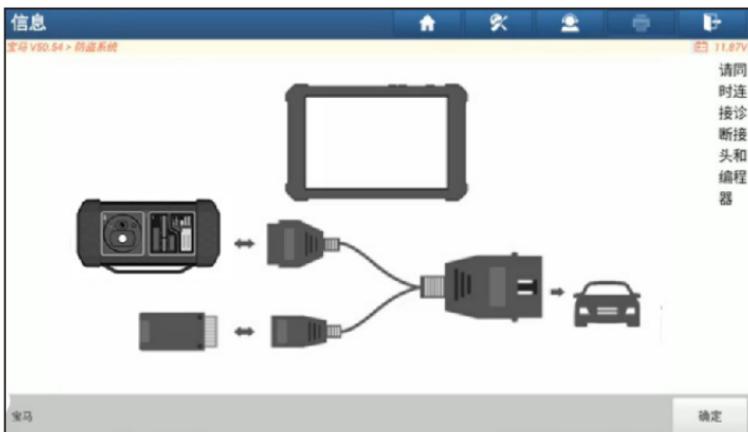
变速箱擦空成功！

确定

3.2.3 发动机编程

您可在变速箱更换后执行发动机编程功能，用以写入备份数据。

• 连接诊断系统进行发动机编程

· 下图所示USB线不在产品包装清单中，推荐您使用USB线以提高您的数据传输效率。

• 根据不同车型，车辆发动机的连接方式也不同，有关如何连接发动机信息，请参阅产品内置的变速箱连接图。

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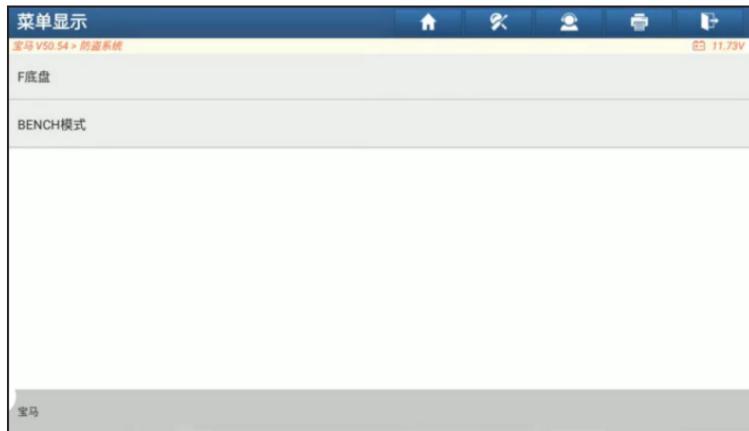| 诊断设备 | 诊断接头 | 防盗编程器 | 汽车发动机 |

- 发动机编程操作

如下流程展示了使用宝马汽车进行发动机编程的操作，流程中包含备份
EEPROM和FLASH数据（原车发动机）、记录ISN码、备份EEPROM和FLASH
数据（二手发动机模块），以及将修改过的EEPROM文件重新写入二手发动机
模块。
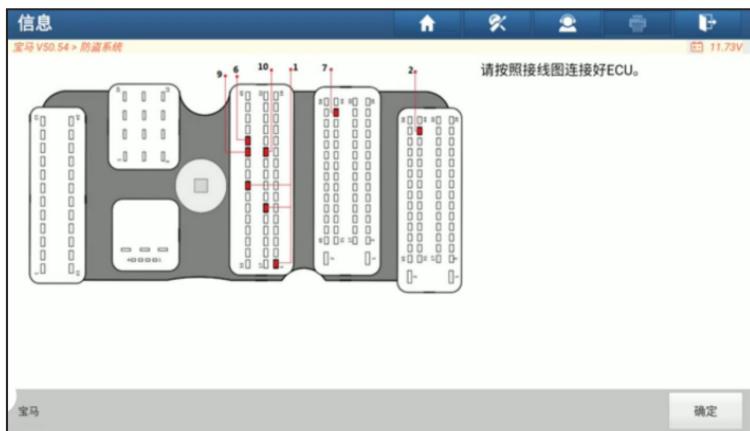
1. 备份原车发动机模块EEPROM和FLASH数据。
a. 点击发动机系统。

b. 选择BENCH模式。

c. 选择对应的发动机型号。
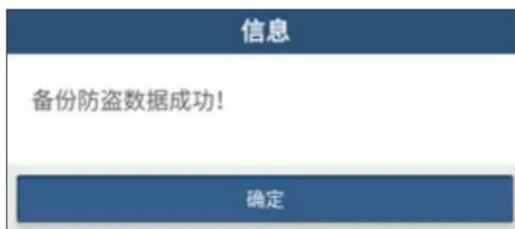

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d. 点击显示连接图。

e. 根据连接图完成发动机的连接，并点击确定。

f. 点击备份EEPROM数据。

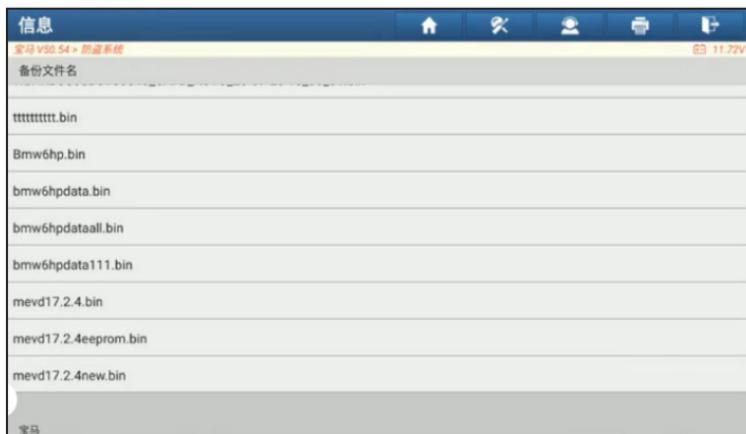g. 备份EEPROM数据成功，请输入文件名，并点击确定，保存文件。

h. 点击确定。

2. 解密原车模块EEPROM数据，记录下32位ISN码。
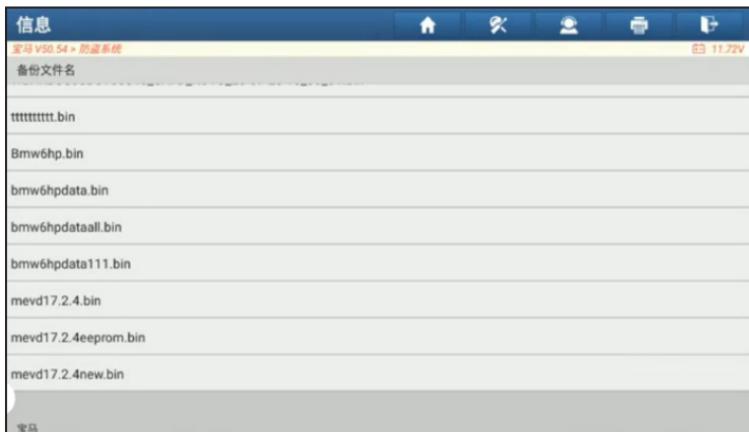
a. 点击FLASH&EEPROM数据解密。

b. 选择原车模块的EEPROM文件。

c. 点击是。

信息
选择文件是：mevd17.2.4new.bin 选择[是]继续，选择[否]退出。

| 否 | 是 |

d. 拍照记录ISN码，并点击确定。

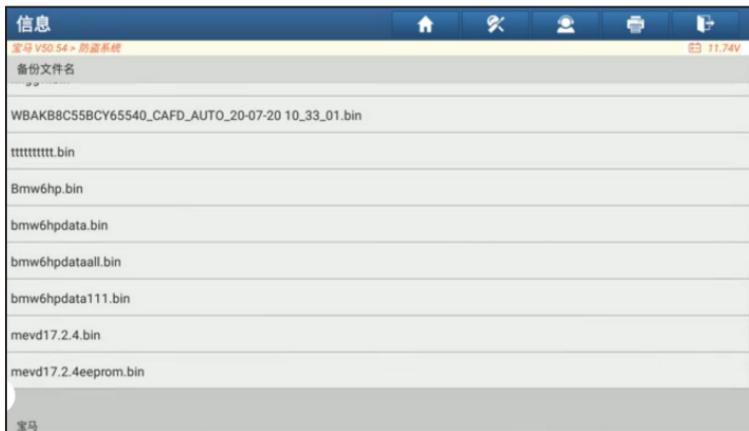| Flash&Eeprom数据解密 |
| --- |
| 3A65F73C8D9E756B4C459B7353471F3C |

| 确定 |

3. 重复步骤1中g 到i的操作,备份二手发动机模块EEPROM和FLASH数据。

4. 修改二手发动机模块ISN码（此处是修改二手模块的EEPROM文件）。

a. 点击修改ISN。

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b. 选择二手发动机模块的EEPROM文件。

c. 选择是。

信息

选择文件是：mevd17.2.4eeprom.bin
选择[是]继续，选择[否]退出。

| 否 | 是 |

d. 输入原车模块解密的ISN码。

修改ISN

请输入将要写入的32位的ISN码：

| 取消 | 确定 |

e. 输入文件名。

信息

请输入保存的文件名：

| 取消 | 确定 |

f. 点击确定。

修改ISN码成功！

确定

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5.将修改过的EEPROM文件，重新写进二手发动机模块。

a. 选择还原EEPROM数据。

b. 选择是。

c. 若还原成功，点击确定。此时二手发动机模块中ISN码已经修改完成，可以装车编程设码等操作。

3.2.4 退出诊断功能

编程结束后，可连续点击 ↰ 从编程界面返回。

4 软件升级

你可使用软件更新功能升级您的软件，并自定义您常用的软件更新诊断软件和应用程序：

1. 在主诊断屏幕上，点击软件升级进入升级界面。检查要升级的软件，然后点击一键升级。
2. 下载完成后，将安装软件包自动安装。

您可以通过点击全部暂停，以中止升级过程，您也可以点击全部开始稍后继续该过程。

保修信息

■ 保修条款

该保修条款仅适用于通过正常程序购买易检车服公司产品之用户及经销商。

从交货之日起一年内，易检车服公司对其电子产品因材料或工艺而造成的缺陷进行保修，因滥用、擅自更改、用于非本产品设计之用途、未按说明书规定的方式操作等导致本设备或部件损坏不在本保修范围内。

■ 放弃声明

上述保修条款可以代替其它任何形式的保修条款。

■ 订货通知

可更换之零部件和可选配件可直接向易检车服公司授权的供应商订购，订货时请注明：

☑订购数量；

☑零件编号；

☑零件名称

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服务信息

设备操作过程中遇到任何问题，请致电全国服务热线：4009-301-883。

设备需要维修时，请将设备寄至易检车服，并附上购买发票及问题说明。若设

备在保修范围之内，易检车服将免费维修；若设备在保修范围之外，易检车服将

收费维修并加收回程运费。

易检车服公司地址：

中国广东省深圳市龙华区观澜街道侨安科技工业园B栋3楼，深圳市易检车服科技
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