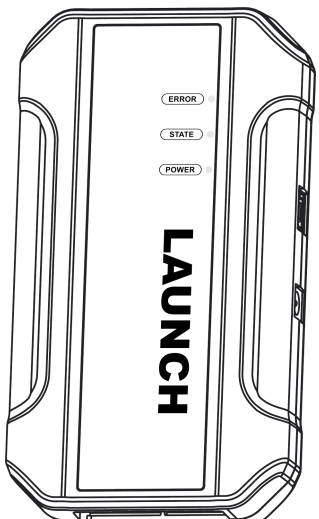
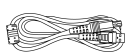
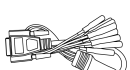


X-431 ECU&TCU Programmer

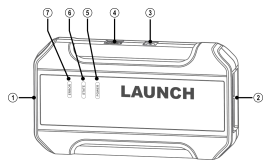
User Manual

Note: Pictures illustrated herein are for reference purpose only. Due to continuing improvements, actual products may differ slightly from the product described herein and this material is subject to change without notice.

Packing List

Main Unit		Matching Adapter A （5Pcs）	
USB Cable (Type B)		Matching Adapter B （6Pcs）	
MCU Cable V1		Matching Adapter C （7Pcs）	
Bench Mode Cable		Matching Adapter D （8Pcs）	
Switching Power Supply		Matching Adapter E （6Pcs）	
Password Envelope		Packing List	

Structure



1	DB26 Interface
2	DB26 Interface
3	Power Supply Jack
4	USB Type B
5	Power Indicator (Red light turns on after power on)
6	State Indicator (Green light flashes after power on)
7	ERROR Indicator (Blue light flashes when upgrading or abnormal)

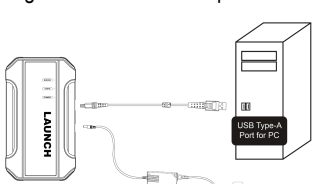
Operation Procedure

1 Download and install the software

Download the software installation package through the following website and install it on the computer.

2 Connect ECU&TCU programmer and computer

As shown in the figure below, use a USB cable (type A to type B) to connect the ECU&TCU programmer and the computer.



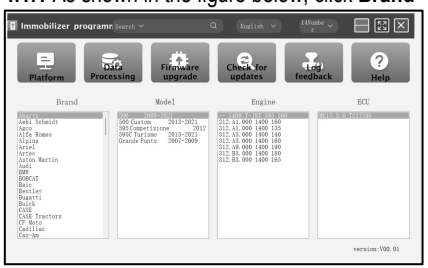
3 Activation

When used for the first time, it will enter the activation interface. After connecting the ECU&TCU programmer, the system will automatically recognize the Serial Number. Take out the password envelope and scrape the coating area to obtain the activation code.

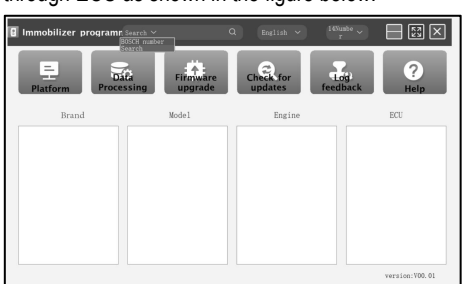
4 ECU Data Read and Write

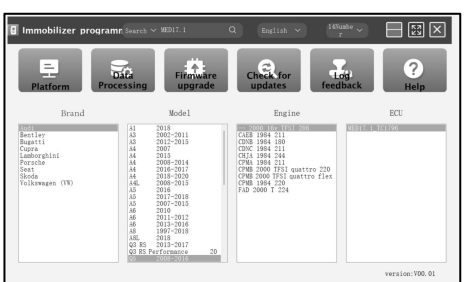
4.1 Get Related ECU Information

4.1.1 As shown in the figure below, click **Brand->Model->Engine->ECU** to select the corresponding ECU type.

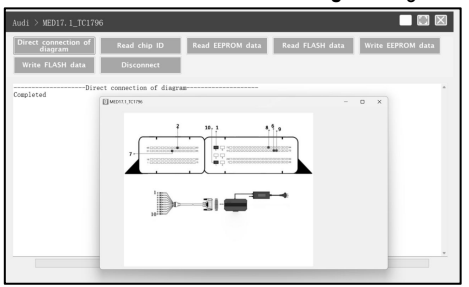


You can also enter relevant information (Brand, Bosch ID or ECU) in the search box to inquire. For example, search for MED17.1 engine through ECU as shown in the figure below.

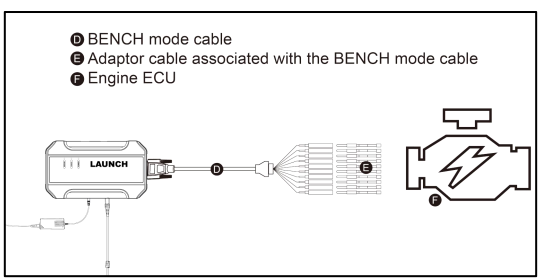


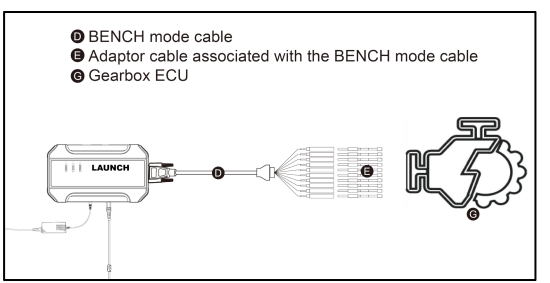


4.1.2 Click **Direct Connection of Diagram** to get the ECU wiring diagram.

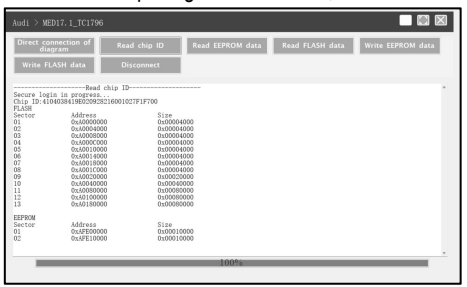


4.1.3 Referring to the wiring diagram, use the BENCH mode cable and the corresponding adapter cable to connect the ECU and ECU&TCU programmer.



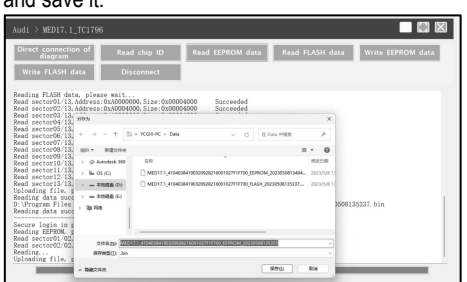


4.1.4 After completing the connection, click **Read Chip ID** to read the data.

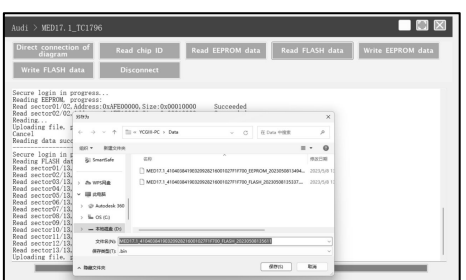


4.2 Data Read and Write

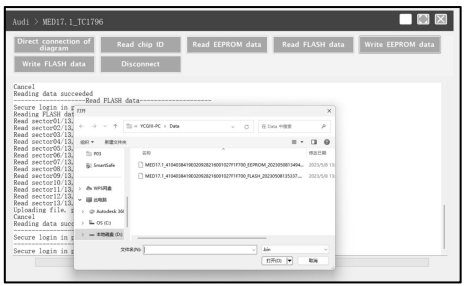
4.2.1 Click **Read EEPROM Data** to backup the EEPROM data and save it.



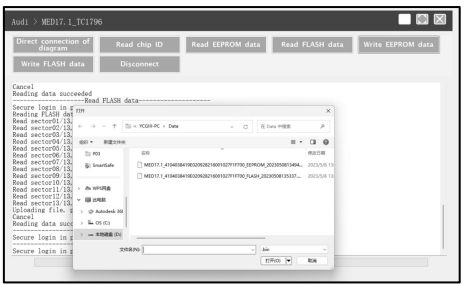
4.2.2 Click **Read Flash Data** to backup the FLASH data and save it.



4.2.3 Click **Write EEPROM Data** and select the corresponding backup file to restore the EEPROM data.



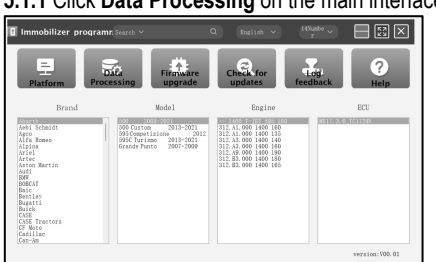
4.2.4 Click **Write Flash Data** and select the corresponding backup file to restore the FLASH data.



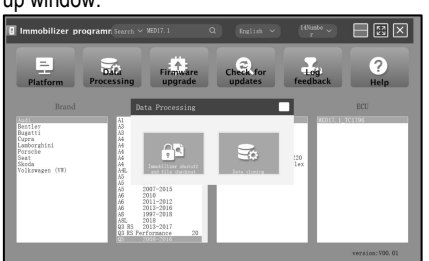
5 Data Processing

5.1 Immobilizer Shutoff and File Checkout

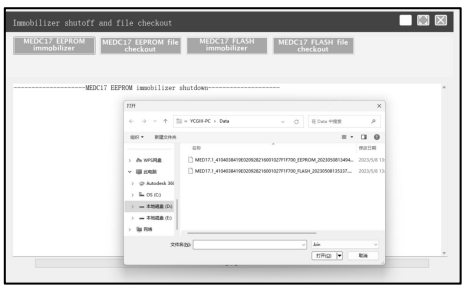
5.1.1 Click **Data Processing** on the main interface.



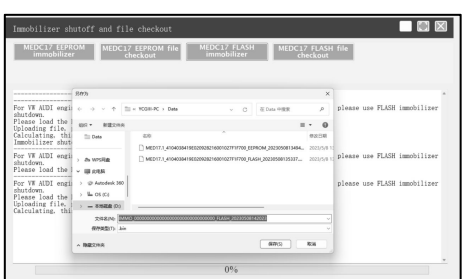
5.1.2 Select **Immobilizer shutoff and file checkout** on the pop-up window.



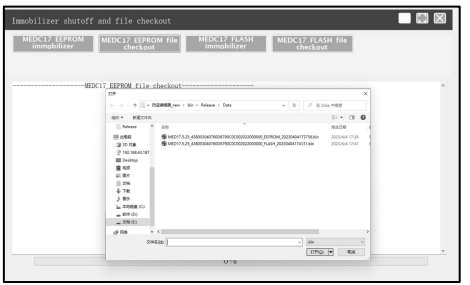
5.1.3 Click **EEPROM immobilizer/FLASH immobilizer,** load the corresponding EEPROM/FLASH backup file as software prompts.



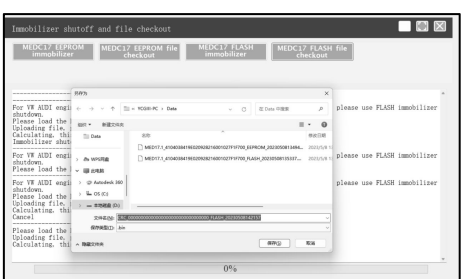
5.1.4 The system will obtain the corresponding data online, and then save the new file to complete the immobilizer shutoff.



5.1.5 Click **EEPROM checkout/FLASH checkout,** load the corresponding EEPROM/FLASH backup file as software prompts.



5.1.6 The system will obtain the corresponding data online, and then save the new file to complete the file checkout.



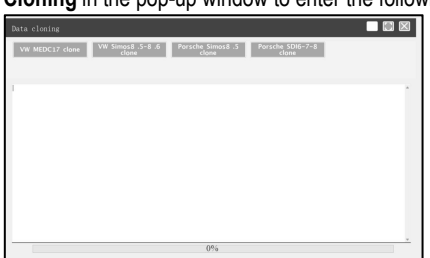
5.2 Data Cloning

Note: Before performing data cloning, it is necessary to backup and save the FLASH&EEPROM data of the original ECU and the external ECU. For specific operation steps, please refer to the previous chapter.

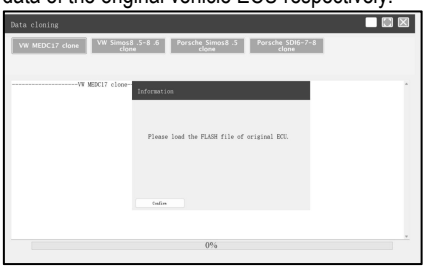
This function is mainly used for engine ECU data cloning of VW, Audi and Porsche, other models can complete data cloning by directly reading and writing data.

5.2.1 Read and save the FLASH&EEPROM data of the original vehicle ECU and the external ECU.

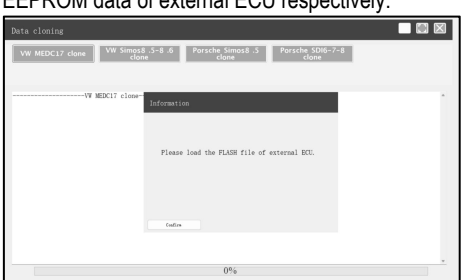
5.2.2 Click **Data Processing** on the main interface, and select **Data Cloning** in the pop-up window to enter the following interface



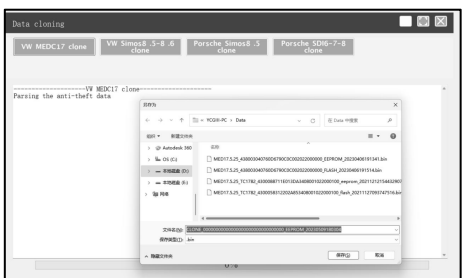
5.2.3 Select the corresponding car model for data cloning. Follow the software prompts to load the FLASH & EEPROM data of the original vehicle ECU respectively.



5.2.4 Follow the software prompts to load the FLASH & EEPROM data of external ECU respectively.



5.2.5 The system analyzes the anti-theft data and generates a clone data file, click **Confirm** to save it.



5.2.6 Connect external ECU and ECU&TCU Programmer, write FLASH data of original ECU and saved EEPROM clone data into external ECU.