



**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.

	Packi	ng List	
Main Unit		Matching Adapter A (5Pcs)	
USB Cable (Type B)		Matching Adapter B (6Pcs)	
MCU Cable V1	<u>i</u>	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)				

X-431 ECU&TCU Programmer User Manual

# **Operation Procedure**



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



## 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.





#### 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.

Immobilizer programr Search V BOSCH wash	H.	Q English ~	r v	
Platform	Firmware upgrade	Check for updates	Log feedback	? Help
Brand	Mode1	Engine		ECU
				version:VD0.01

Platform	Data Processing	tre de updates	Log feedback	? Help
Brand	Mode1	Engine		ECU
Nord Beetley Beugras Lamborghini Porsche Seet Skoda Volkurmagen (VW)	A1 2018 A1 2017 A1 2018 A2 2017 A1 2018 A1	CH2 194 211 CH2 194 211 CH3 194 210 CH3 194 211 CH1 194 211 CH3 194 211 CH4 194 210 CH4 194 220 CH4 194 220 CH4 194 220	20 lex	TC1 Mb

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

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Direct connection of diagram Write FLASH data	Read chip ID Disconnect	Read EEPROM data	Read FLASH data	Write EEPROM data
Completed Dir	ect connection of diagram			, x
			_	· · ·

**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.

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Direct cor diag Write FL	nnection of Read gram ASH data Dis	connect	1 data Read FLASH data	Write EEPROM data
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EEPROM Sector 01 02	Address 0xAFE00000 0xAFE10000	Size 0x00010000 0x00010000		

#### 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.

Direct connectio diagram Write FLASH da	n of Read	I chip ID Read EEPROM da	ita Read I	FLASH data	Write EEPROM data
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Read sector04/13, Read sector05/13, Read sector06/13, Read sector07/13, Read sector07/13,	El POJ B) Smartfale	EIR MED17.1_415405841980229828216001027711730_EE	* • III •	10212100 10222103	
Read sector10/13, Read sector11/13, Read sector12/13, Read sector13/13, Uploading file. p Cancel Reading data succ	> do WFIRE > UE 2018 > © Antodeck 30 > Lo 05 (0)	C WOLV ALMONYMACTION	or(,m2030813563	2023/04/012	
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# **5** Data Processing

- 5.1 Immobilizer Shutoff and File Checkout
- 5.1.1 Click Data Processing on the main interface.

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tor lates	ack Help
Engine	ECU
12 19: 303 30 00 1400 140 00 140 115 00 140 140 00 140 115 00 140 140 00 140 180 00 140 180 01 140 180 00 140 180	9117-3-0-1617295

X-431 ECU&TCU Programmer User Manual

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

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Direct connection of diagram Write FLASH data	Read chip ID Disconnect	Read EEPROM data	Read FLASH data	Write EEPROM data
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**5.1.2** Select **Immobilizer shutoff and file checkout** on the popup window.



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

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

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			0%				

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

Inmobilizer shutoff a MEDC17 EEPROM immobilizer	d file checkout HEDC17 EEPROM file MEDC17 FLASH MEDC1 checkout ch	7 FLASH file
MEDC	EEPROM_file_checkout	* * * * * * * *
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	x**ax [	01 V [17:0] V RH
	1174	

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

Immobilizer shutoff and file checkout					
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## 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

VW_MEDC17_clone VW_Simos85=8.6 Porsche_Simos85 Porsche_SDI6-7=8	
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**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.

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VO MEDC17 close VVE Sin Presing the anti-theft data	Alexandrometer and a series and	



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

Audi > MED17.5.25_TC1782F_:	320				
Direct connection of Re diagram Write FLASH data	ad chip ID	Read EEPROM data	Read FLASH data	Write EEPROM data	
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## 制作要求:

尺寸	130x184mm
印刷	单黑印刷
材质	采用80g书写纸
装订	骑马钉