

# Operation Instructions for the function of Engine Cloning of VW Audi

## Function description:

Engine cloning and replacement of BENCH mode for Volkswagen and Audi vehicles

## Requirements:

**Device requirement:** PRO and other Android devices of X431 products, X431 G3  
Immobilizer programmer

**Software requirement:** Volkswagen Diagnostic Software

## Operation steps:

1. Click the traditional diagnosis, select the Volkswagen vehicle series, and enter **【Special Function】** -> **【Anti-Theft Function】** -> **【Generation 4 And Above Immobilizer System】** -> **【Engine Module Replacement】** -> **【Platform Mode】**, click “OK”, enter the menu shown in Figure 1;

Show Menu	
VW V28.75 > Special Function > Anti-Theft Function 11.79V	
ME17.5.20 TC1767	ME17.5.24 TC1724
ME17.5.22 TC1724	MED17.1 TC1796
MED17.1.1 TC1797	MED17.1.6 TC1797
MED17.1.10 TC1793	MED17.1.21 TC1793
MED17.1.27 TC1793	MED17.1.61 TC1793
MED17.5 TC1766	MED17.5.1 TC1766
MED17.5.2 TC1767	MED17.5.20 TC1766
vw	

Figure 1

2. Select **【MED17.5.25 TC1782】** according to the type displayed on the label of original engine, and enter the function as shown in Figure 2;

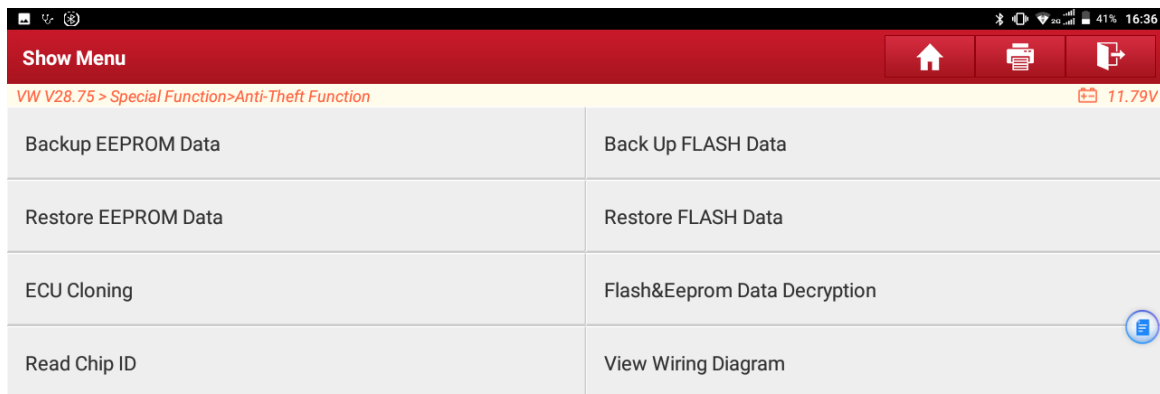


Figure 2

3. Click **【View Wiring Diagram】** menu to display the wiring diagram of this engine, as shown in Figure 3; Connect the Immobilizer programmer to the original engine ECU according to the wiring diagram, and check if the wiring diagram is correct by clicking **【Read Chip ID】** , as shown in Figure 4;

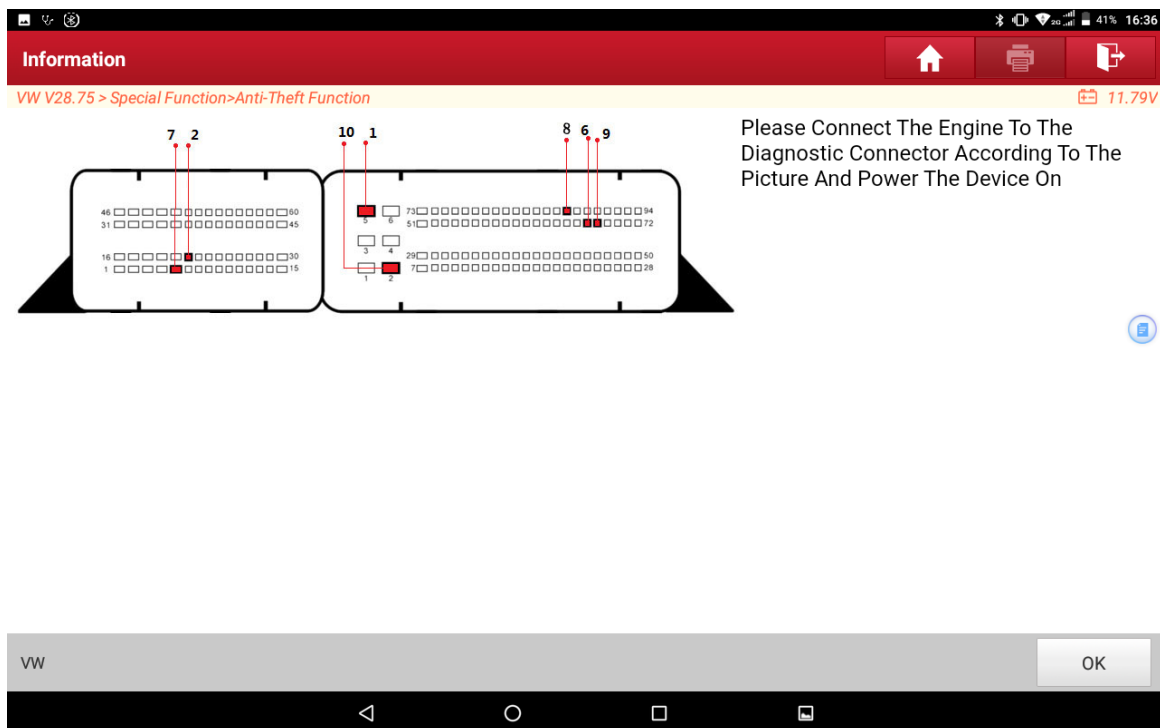


Figure 3

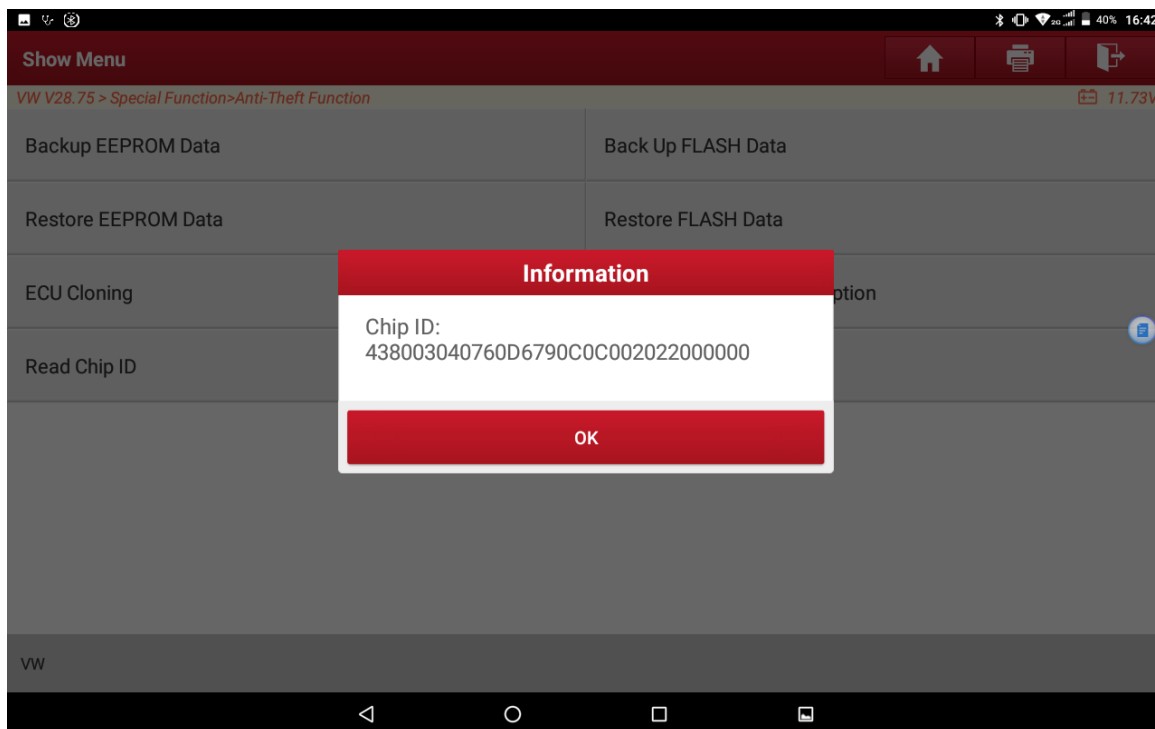


Figure 4

4. Click **【ECU Cloning】** -> **【Function Description】** to view what data is needed for the cloning function, and perform the function of Only Clone Anti-theft Data in this case, as shown in Figure 5;

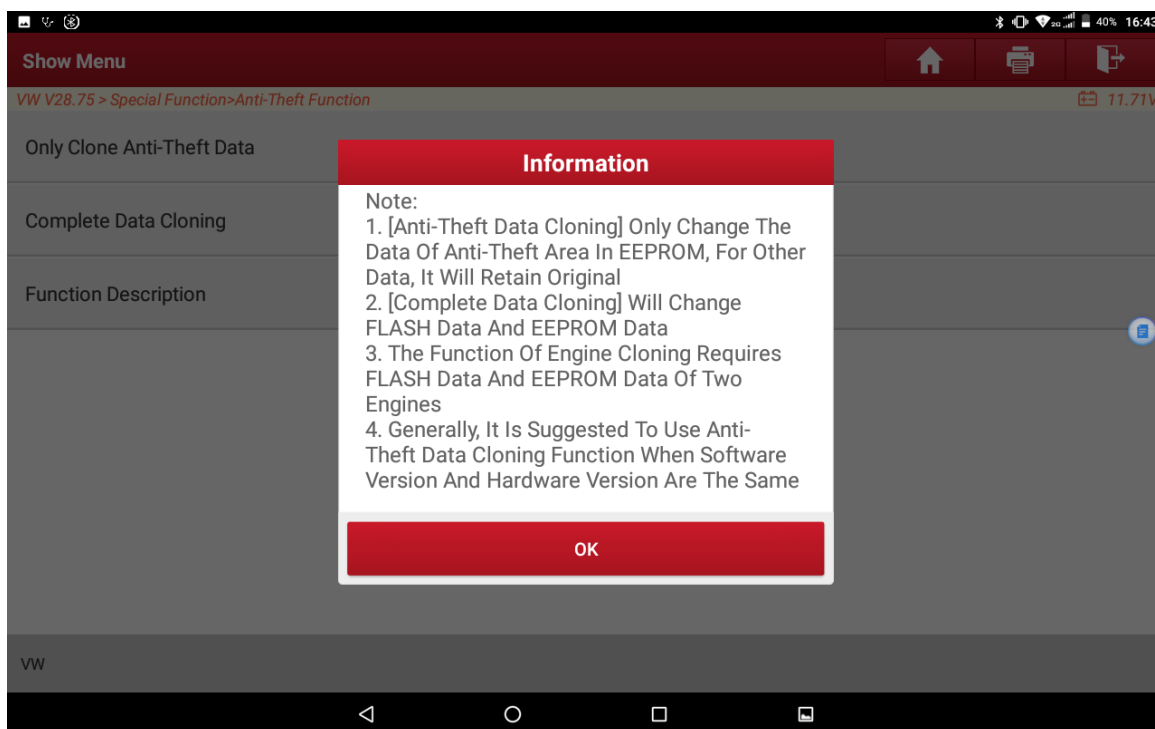


Figure 5

5. Click Return, and then perform the functions of **【Backup EEPROM Data】** and **【Backup FLASH Data】** for the original engine, and save the two pieces of data (**Note**: The FLASH data of engine is large, you need to wait 3-4 minutes to read, it is recommended to use USB for connection), as shown in Figure 6 and 7;

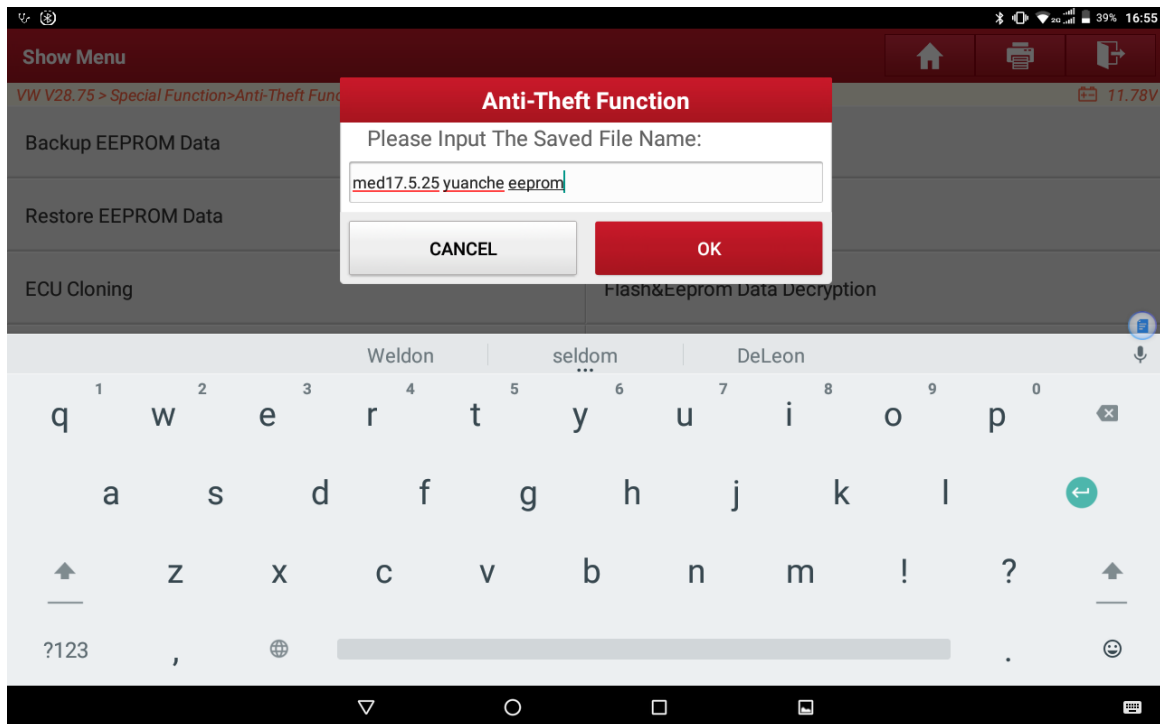


Figure 6

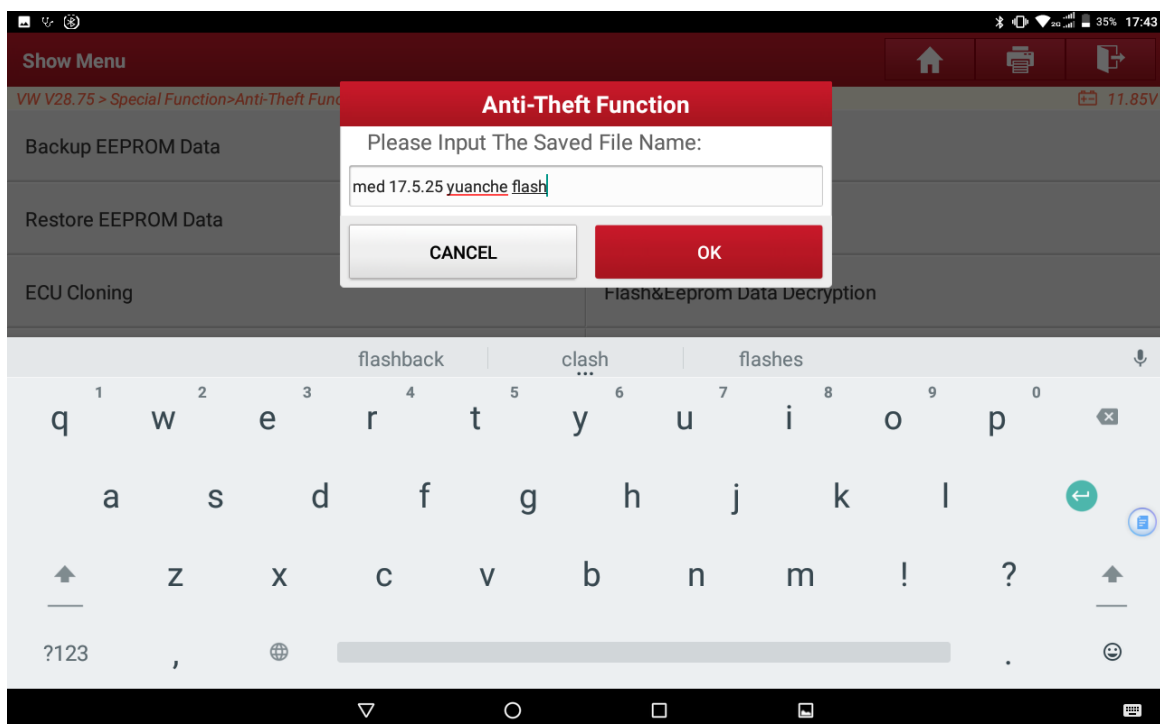


Figure 7

6. Disconnect the original engine and the programmer, connect the external engine and the Immobilizer programmer as per step 3 and read chip ID, and then perform the functions of 【Backup EEPROM Data】 and 【Backup FLASH Data】 for the external engine, save the two pieces of data separately (**Note:** The FLASH data of engine is large, and it takes 3-4 minutes to read, it is recommended to use USB for connection), as shown in Figure 8 and 9;

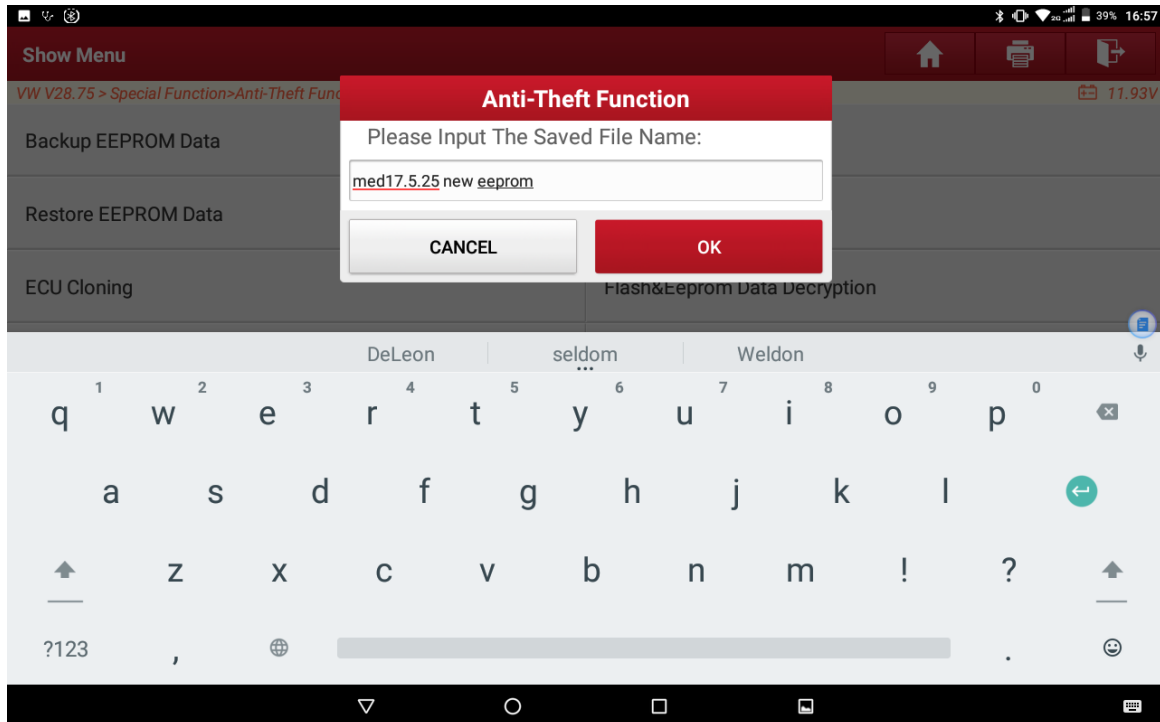


Figure 8

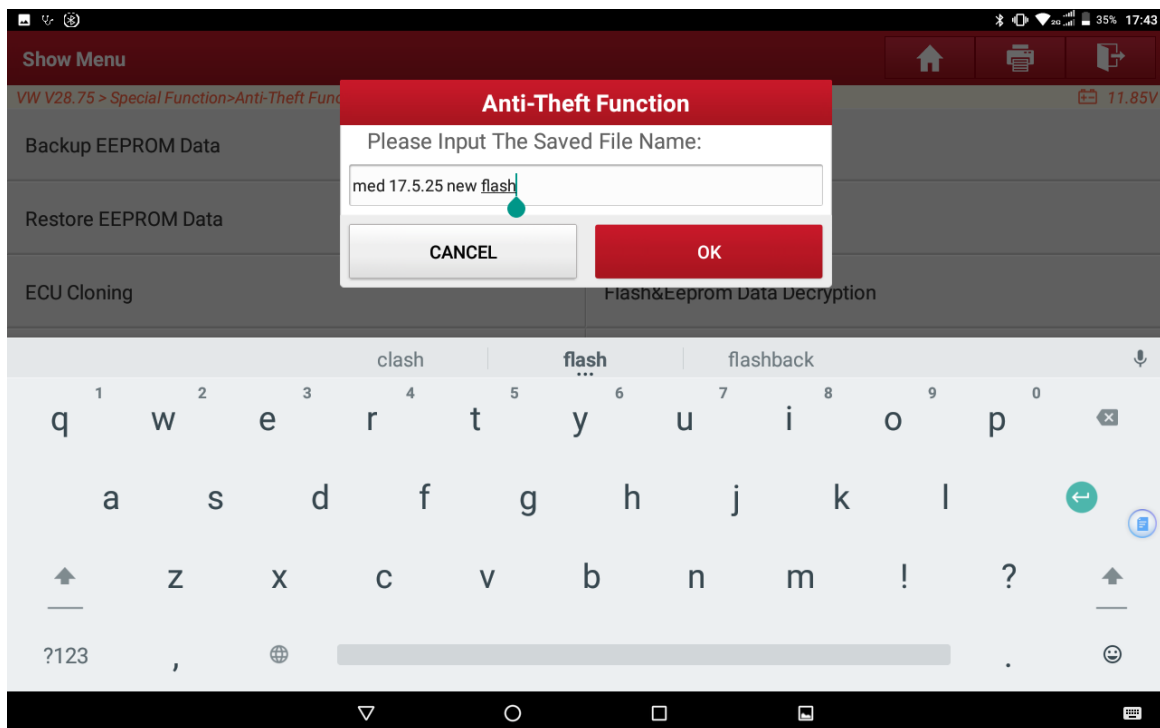


Figure 9

- Click **【ECU Cloning】** -> **【Only Clone Anti-theft Data】** , click the F1, F2, F3, F4 buttons respectively to load FLASH data of external engine ECU, EEPROM data of external engine ECU, FLASH data of target vehicle engine ECU and EEPROM data of target vehicle engine ECU, as shown in Figure 10;

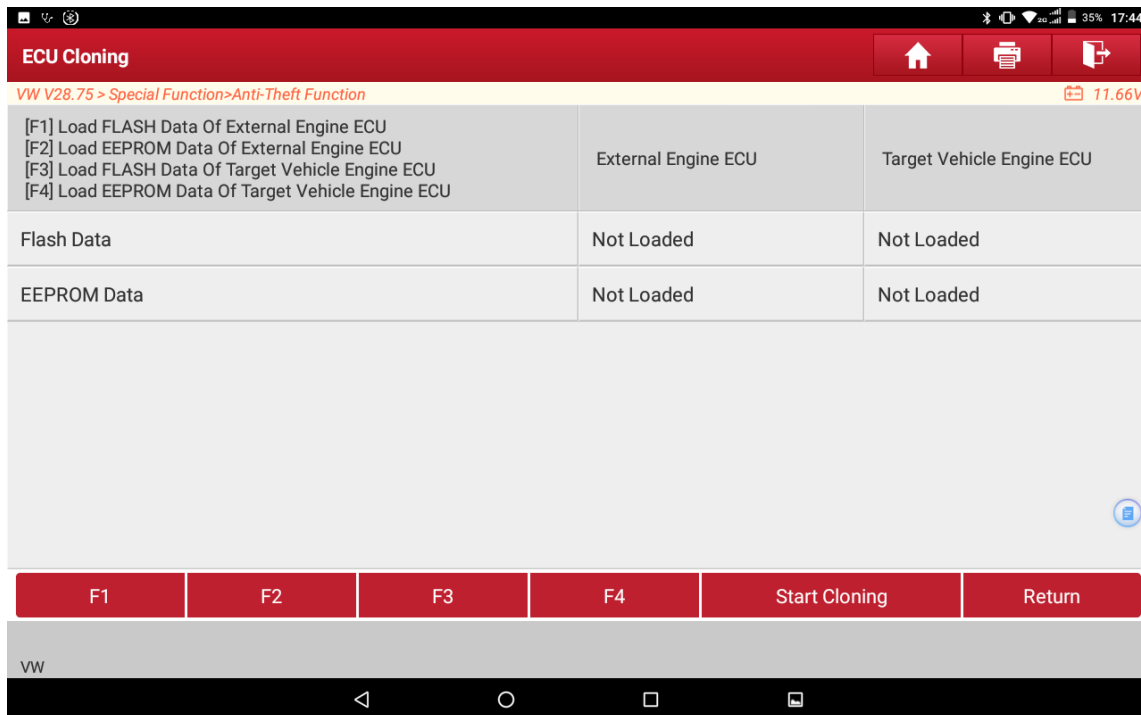


Figure 10

- After all the four pieces of data are loaded, click **【Start Cloning】** , and save the generated data after cloning is completed, as shown in Figure 11,12 and 13;

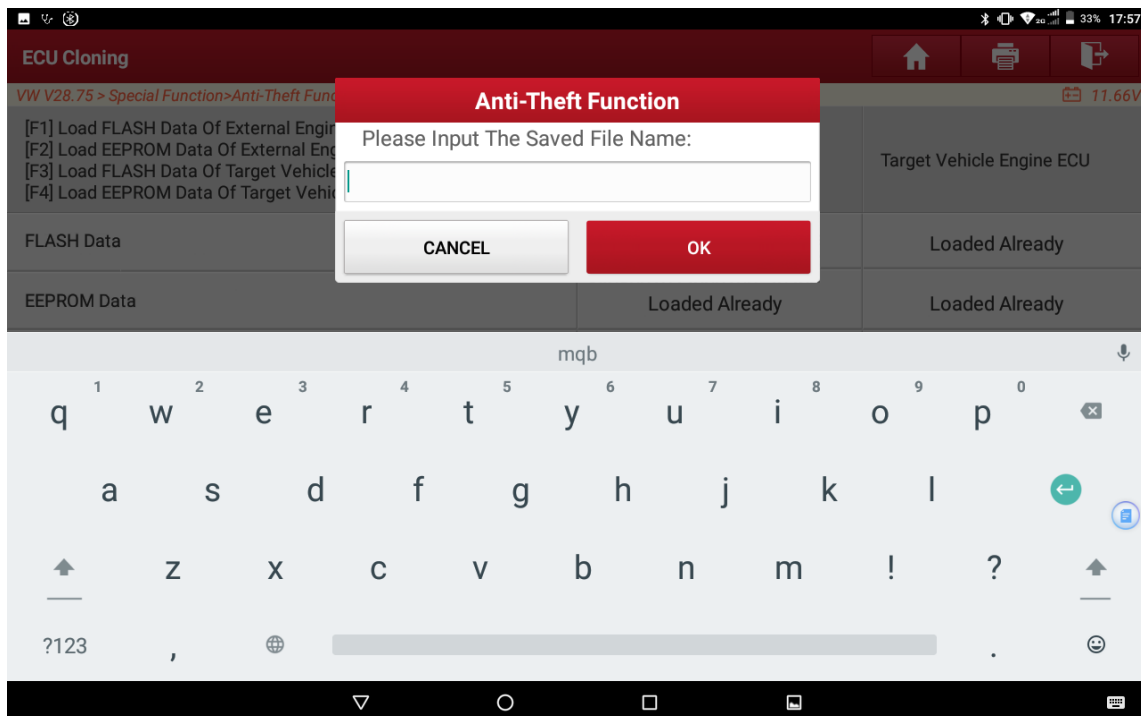


Figure 11

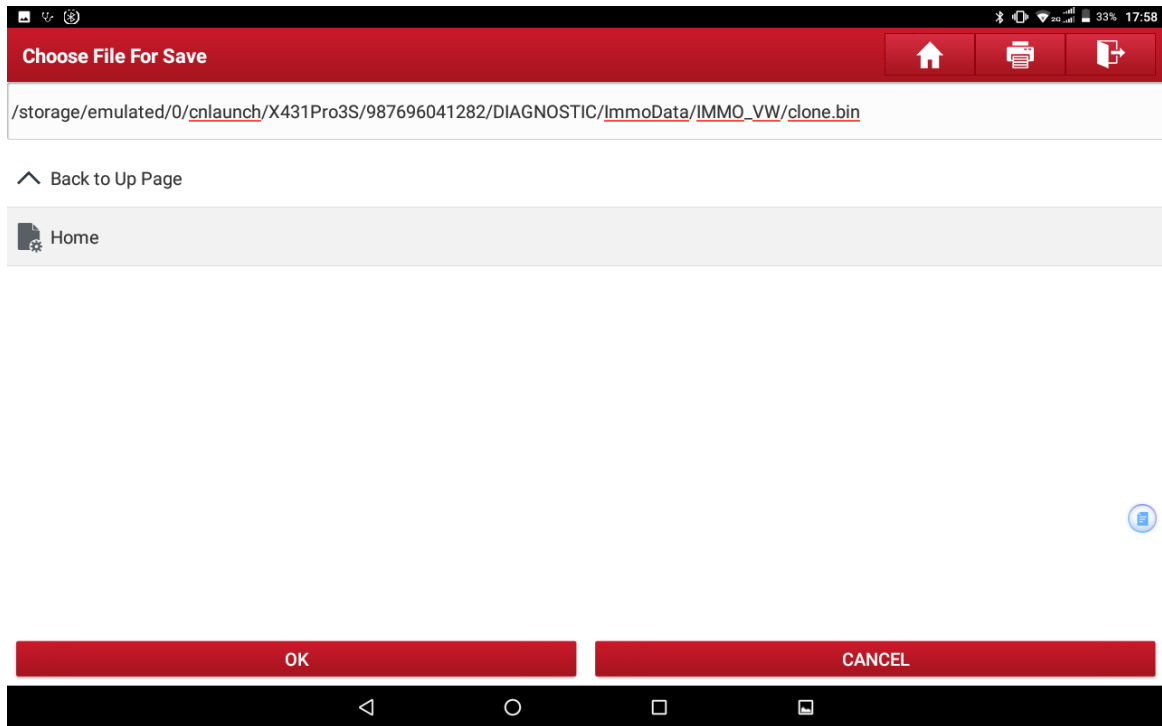


Figure 12

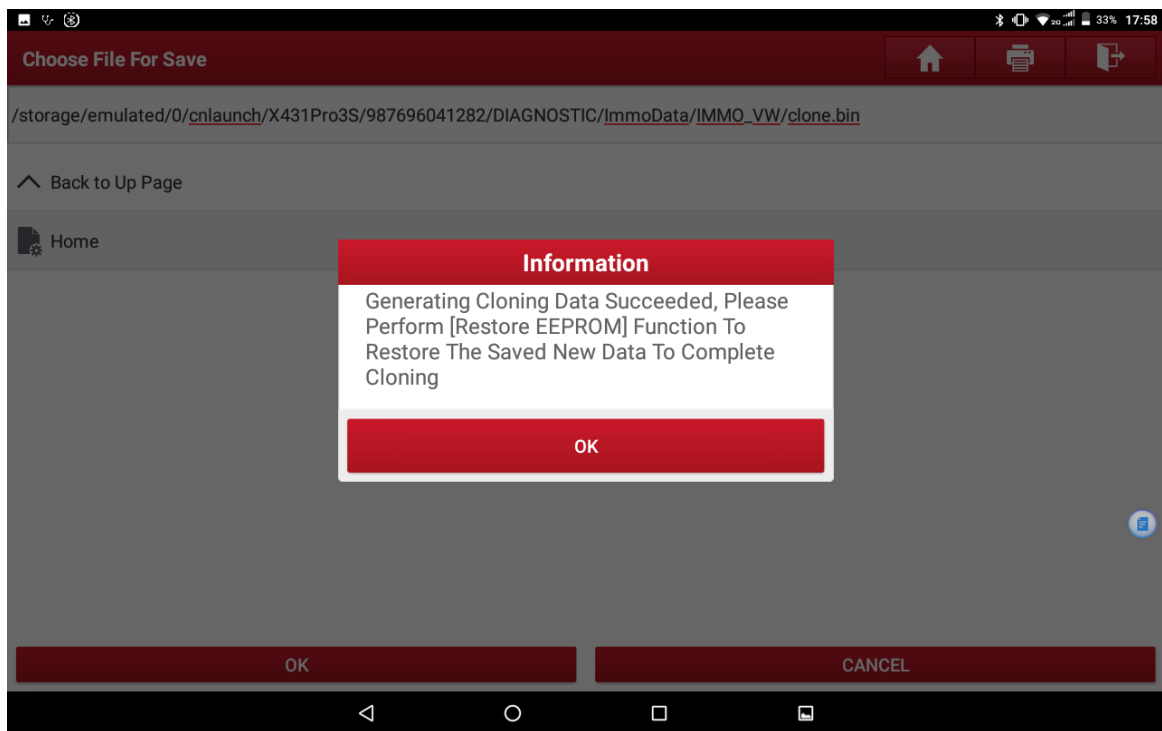


Figure 13

9. Click Return to execute the function of 【Restore EEPROM Data】 function, as shown in Figure 14, load the data generated in step 8 and write it to the external engine, and finally install the external engine in the vehicle, as shown in Figure 15;

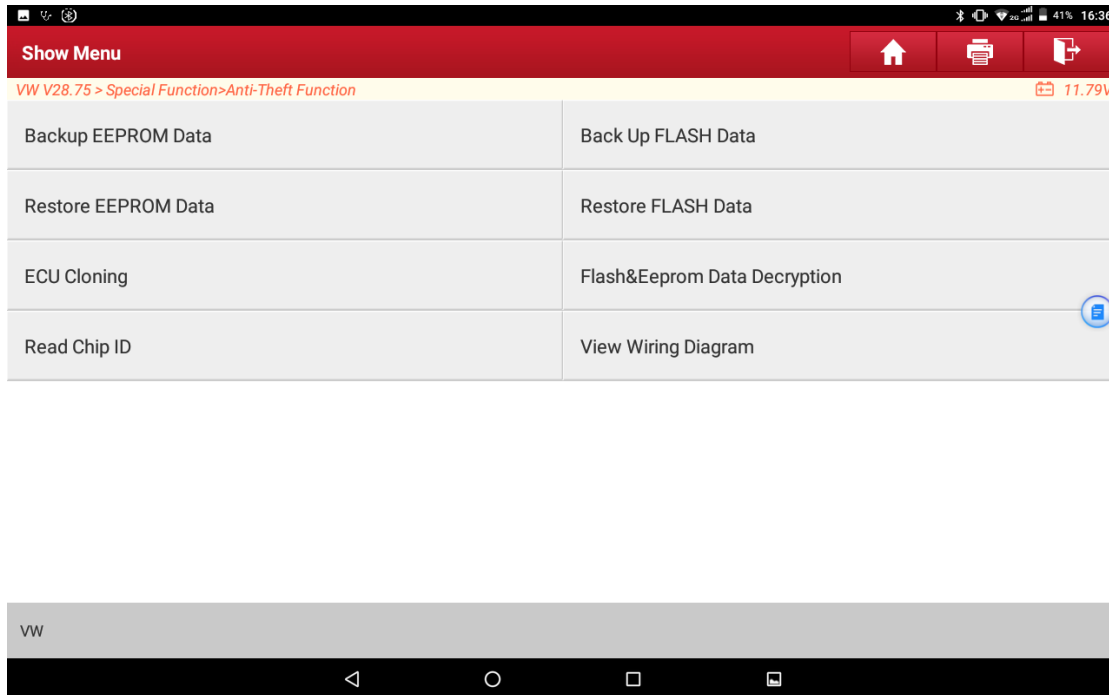


Figure 14

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