Operation Instructions for the function of UDS Engine Replacement of Volkswagen Audi

Function Description: Perform this function when Engine Replacement is required (Engine ME17.5.22 is used in this case).

Supported products: Launch X431PADIII, PADV, PRO Anti-theft matching tool and other diagnostic devices + GIII programmer.

Operation guide:

1. Select 【Special Function】-> 【Anti-Theft Function】, read the disclaimer carefully, click "OK", and select 【Generation 4 And Above Immobilizer System】, (as shown in the figure below);

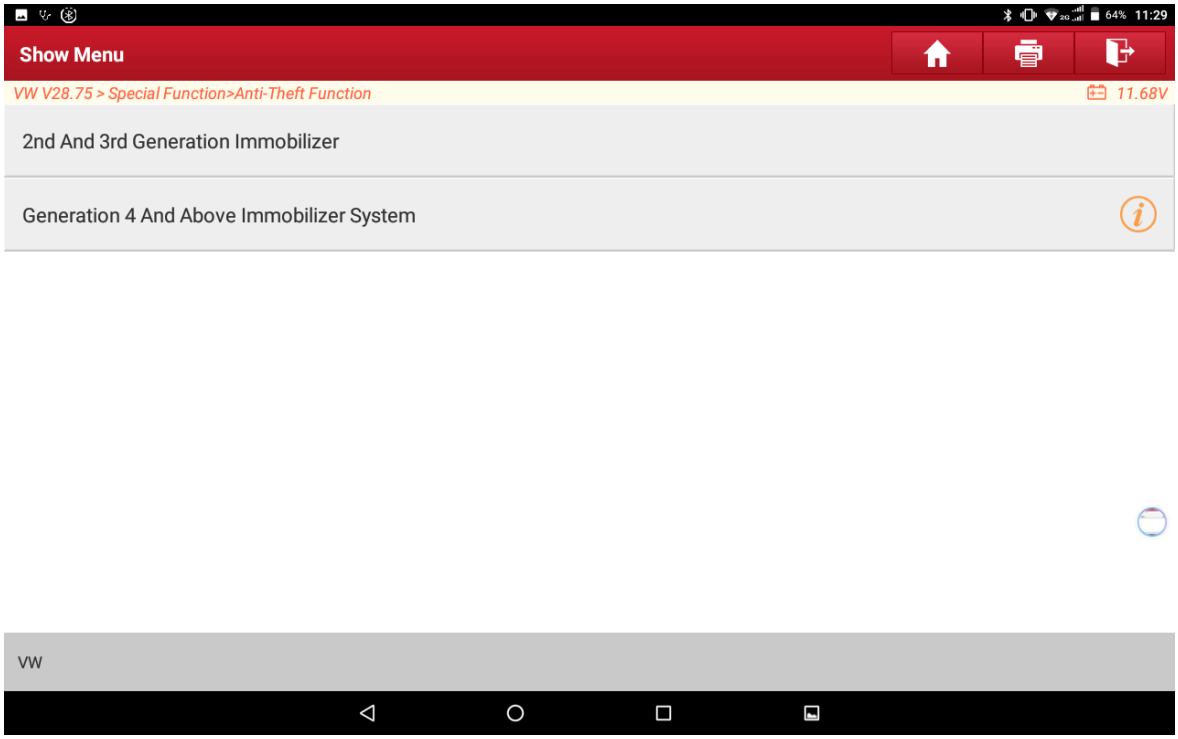


Figure 1

2. Select 【Engine Module Replacement】 (as shown in the figure below);

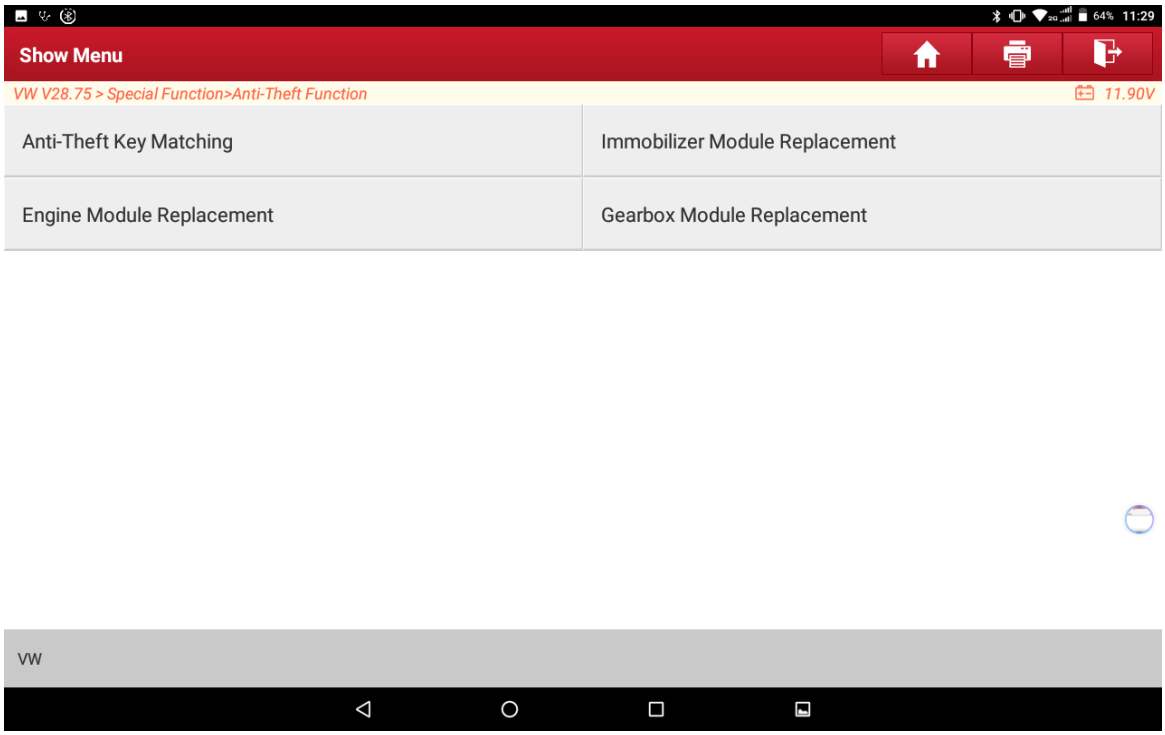


Figure 2

3. Select 【Platform Mode】 (as shown in the figure below);

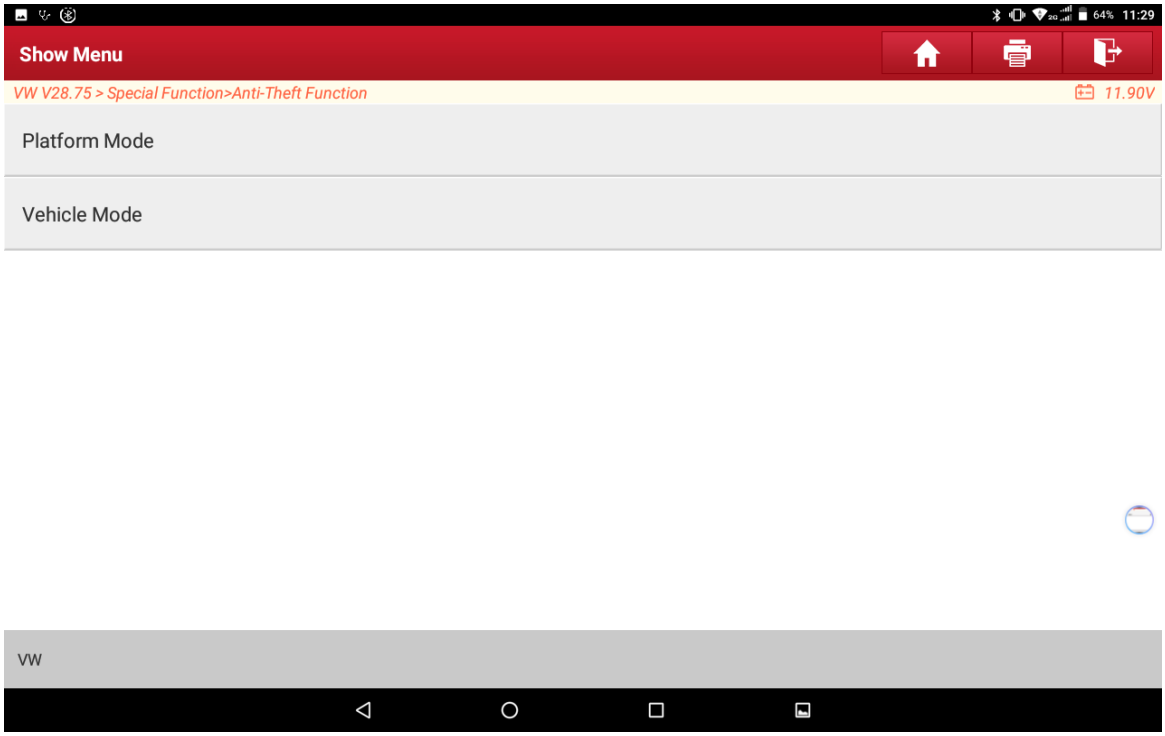


Figure 3

4. Connect the diagnostic connector and the Immobilizer programmer according to the information shown in the figure, and click "OK" (as shown in the figure below);

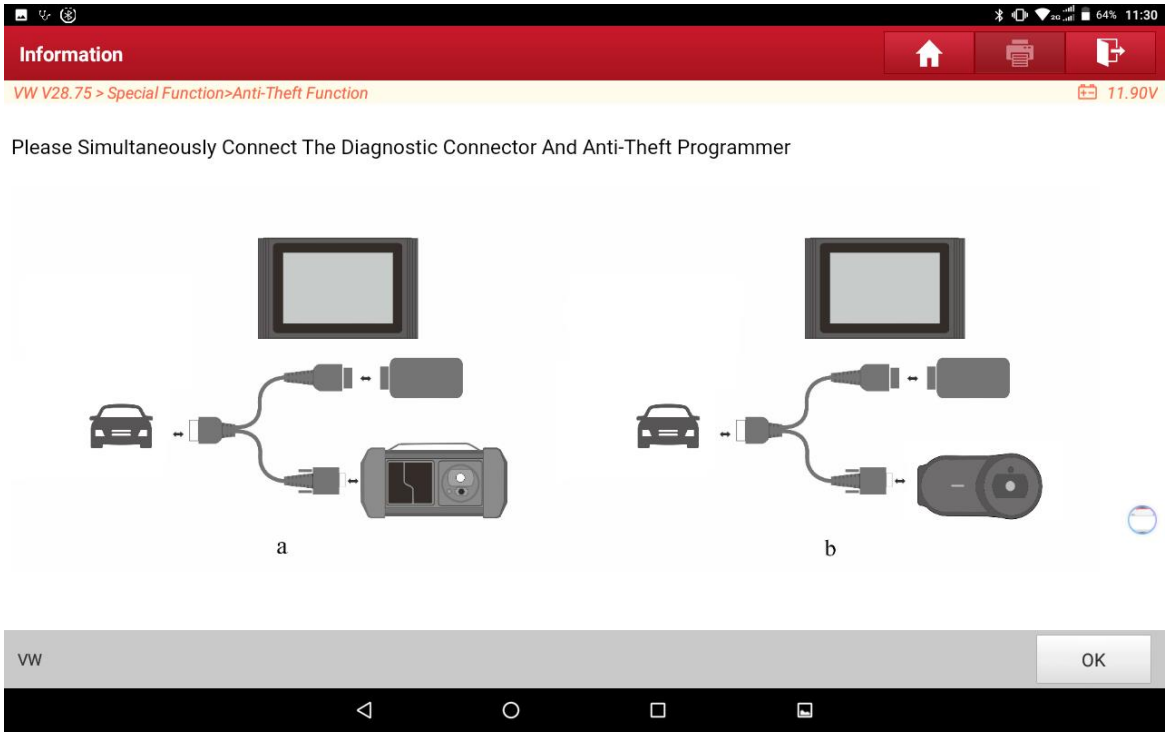


Figure 4

5. Select 【ME17.5.22 TC1724】 (as shown in the figure below);

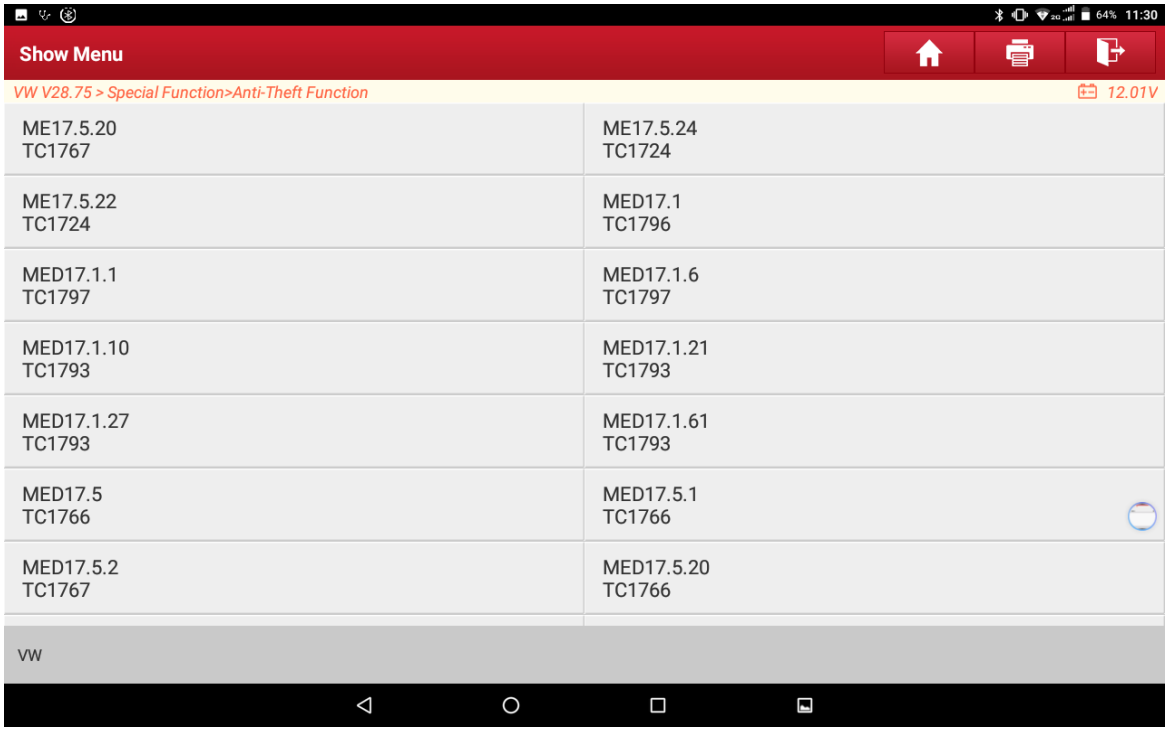


Figure 5

6. Select 【View Wiring Diagram】(as shown in the figure below);

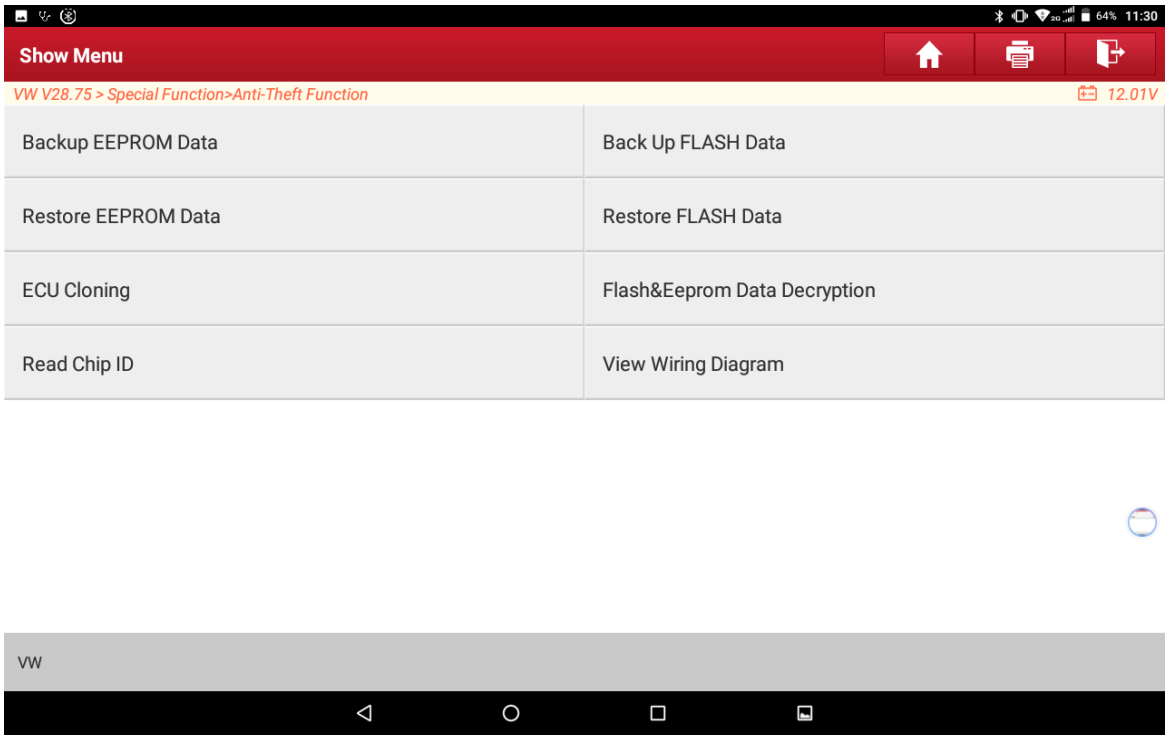


Figure 6

7. Connect the original engine and the Immobilizer programmer according to the wiring diagram, and click "OK", (as shown in the figure below);

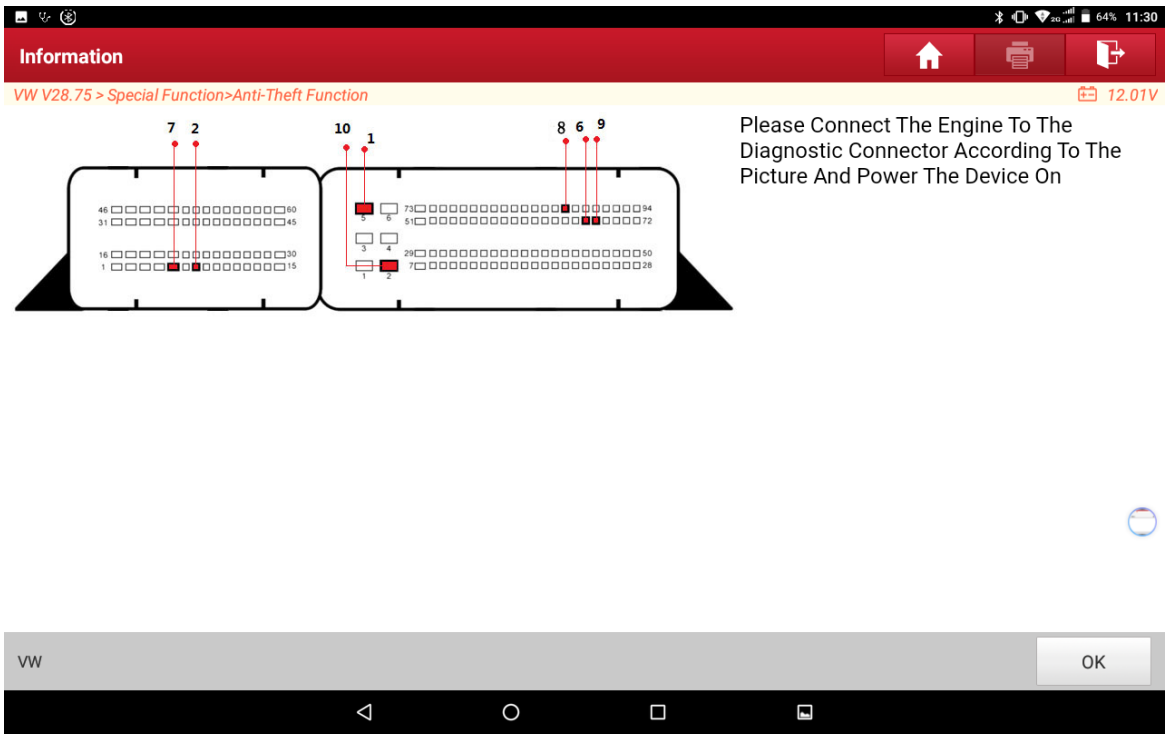


Figure 7

8. Select 【Read Chip ID】, (as shown in the figure below);

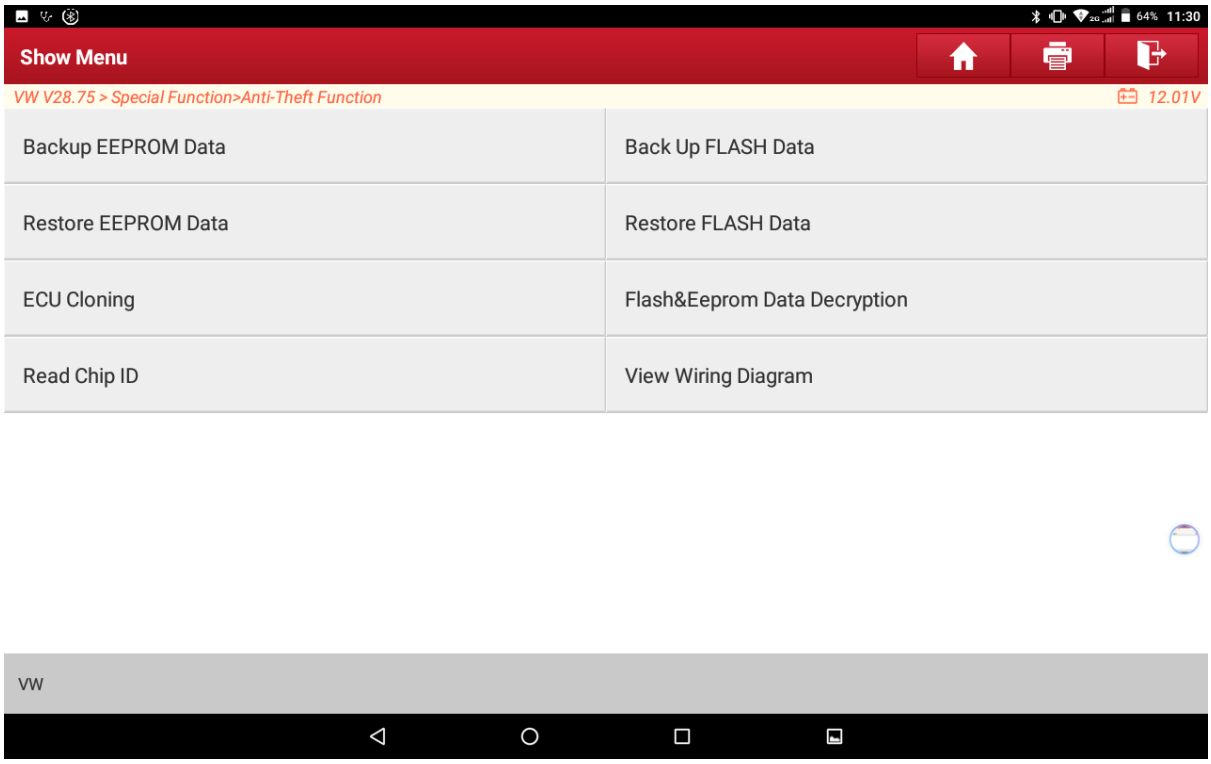


Figure 8

9. If the engine is successfully connected to the Immobilizer programmer, the chip ID will be displayed, click "OK", (as shown in the figure below);

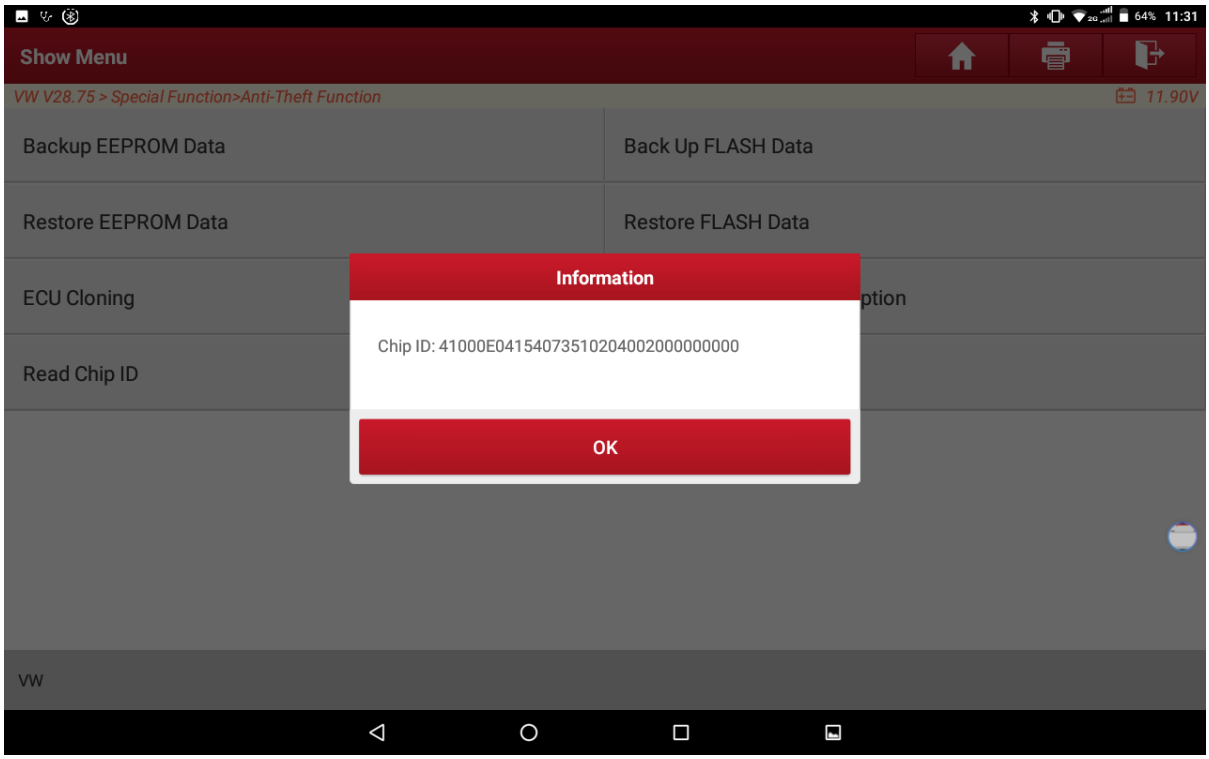


Figure 9

10. Select 【Backup EEPROM Data】 to read the EEPROM data of engine, (as shown in the figure below);

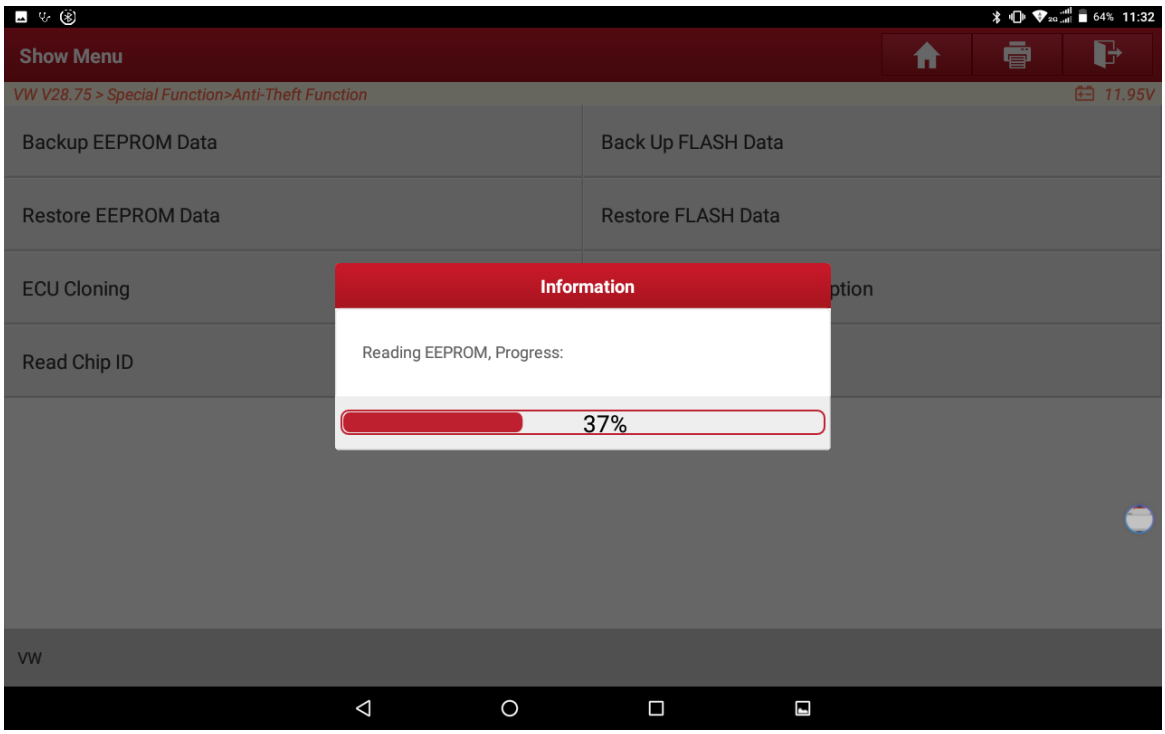
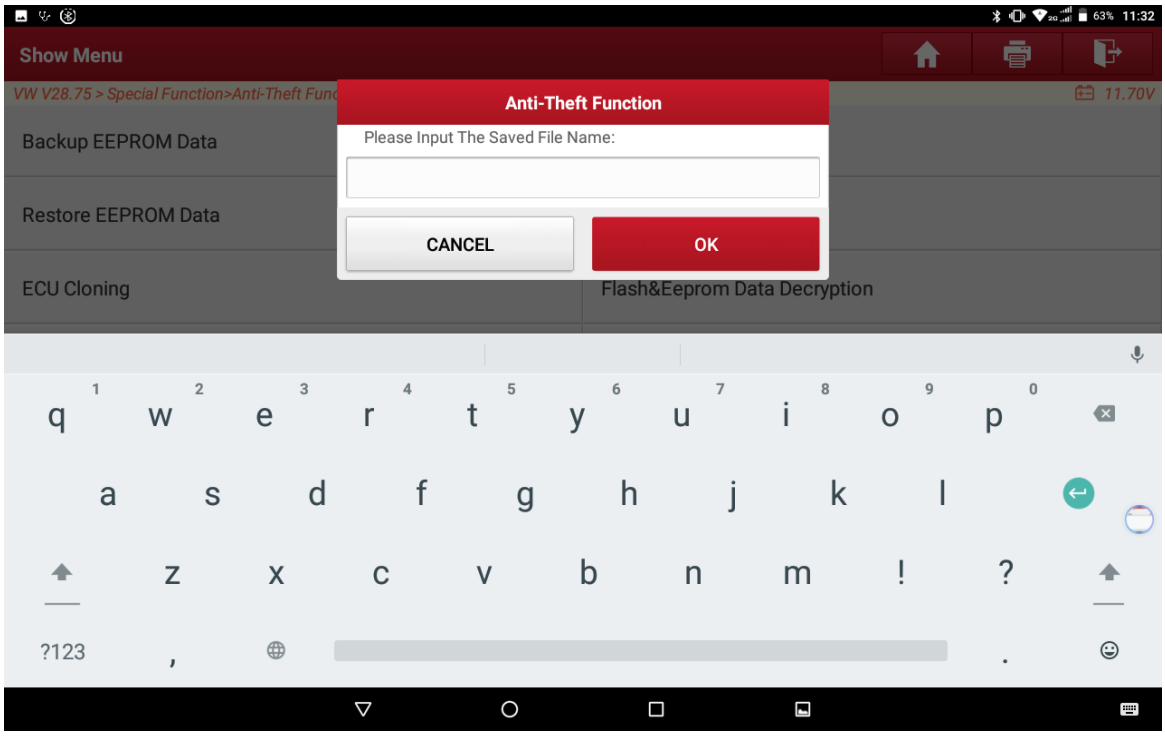


Figure 10

11. Enter the file name, click "OK", you can also choose the save path, click "OK", (as shown in the figure below);



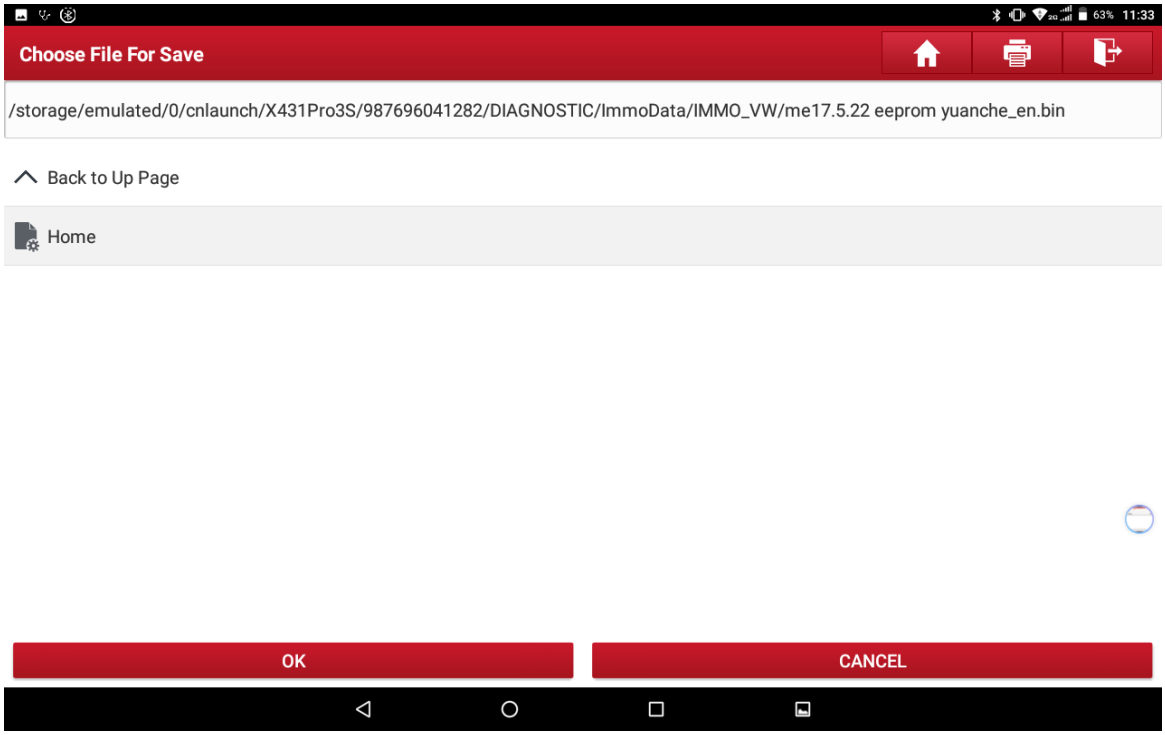


Figure 11

12. Select 【Back Up FLASH Data】, the current read/write data volume of FLASH is large. To improve communication stability, please use the USB for connection, click "OK" (as shown in the figure below);

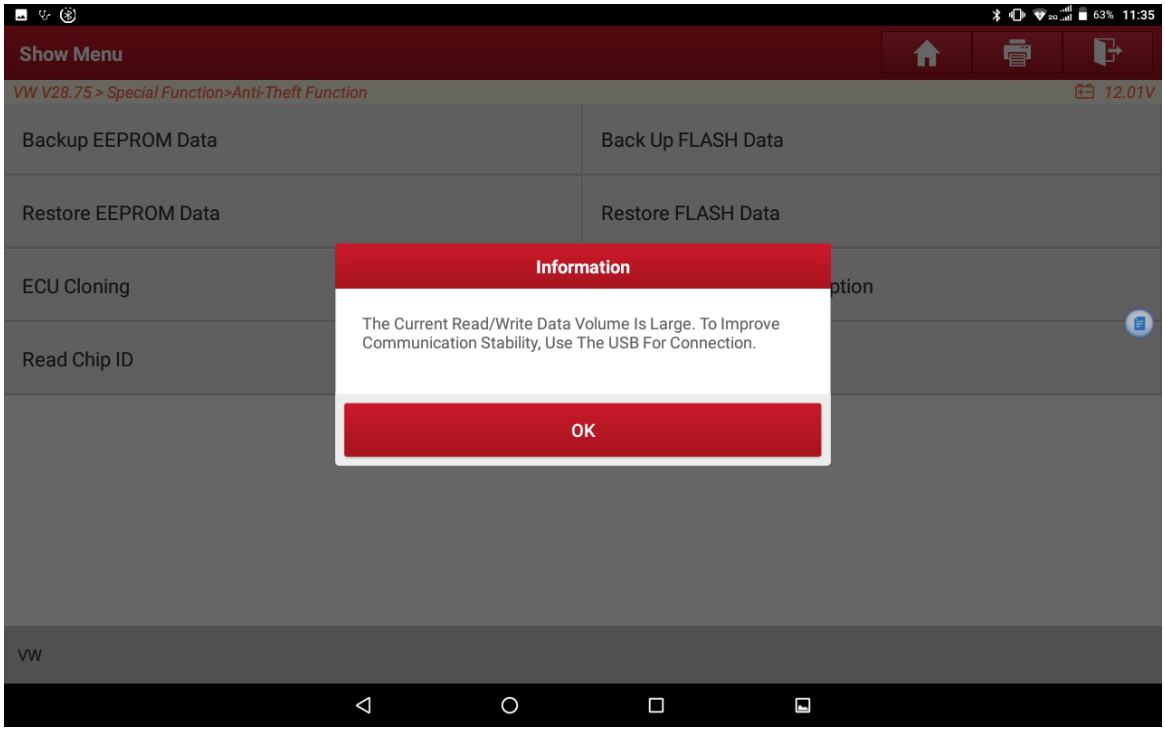


Figure 12

13. Back up FLASH data, enter the file name and save the data (as shown in the figure below);

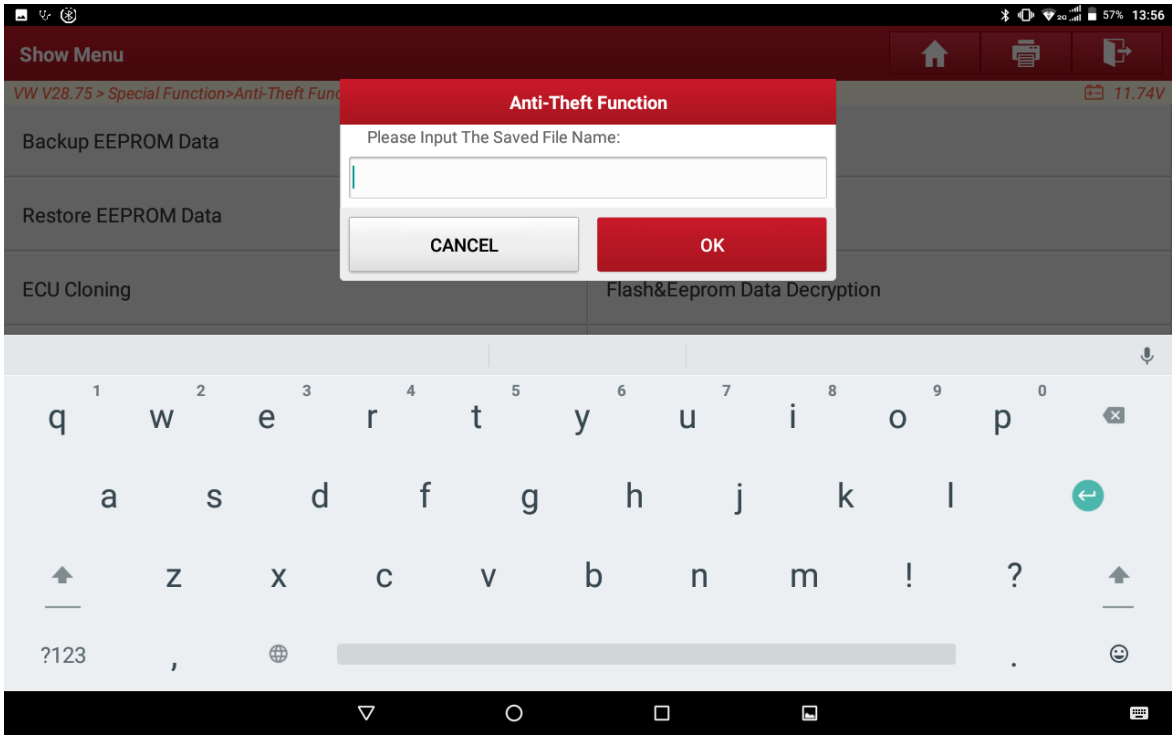


Figure 13

14. Select 【Flash&Eeprom Data Decryption】 (as shown in the figure below);

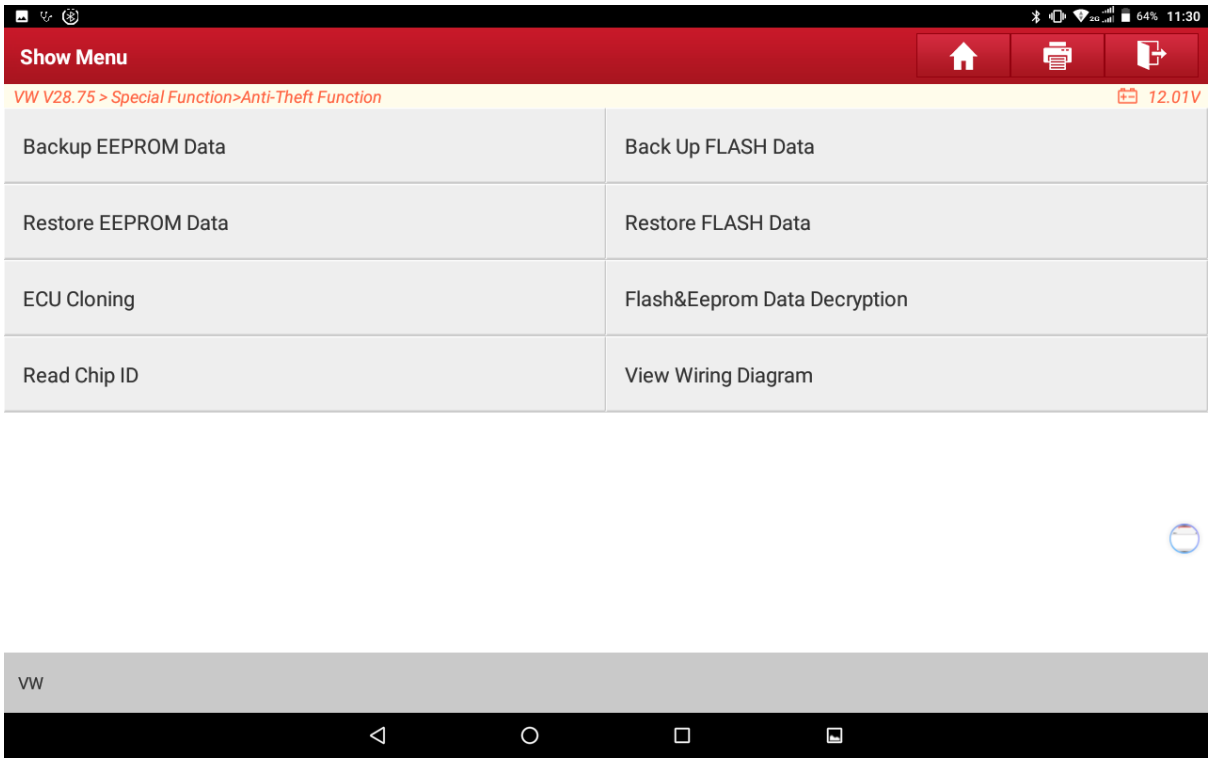


Figure 14

15. Respectively select 【Load FLASH Data】 and 【Load EEPROM Data】 to load the backed up EEPROM data and FLASH data (as shown in the figure below);

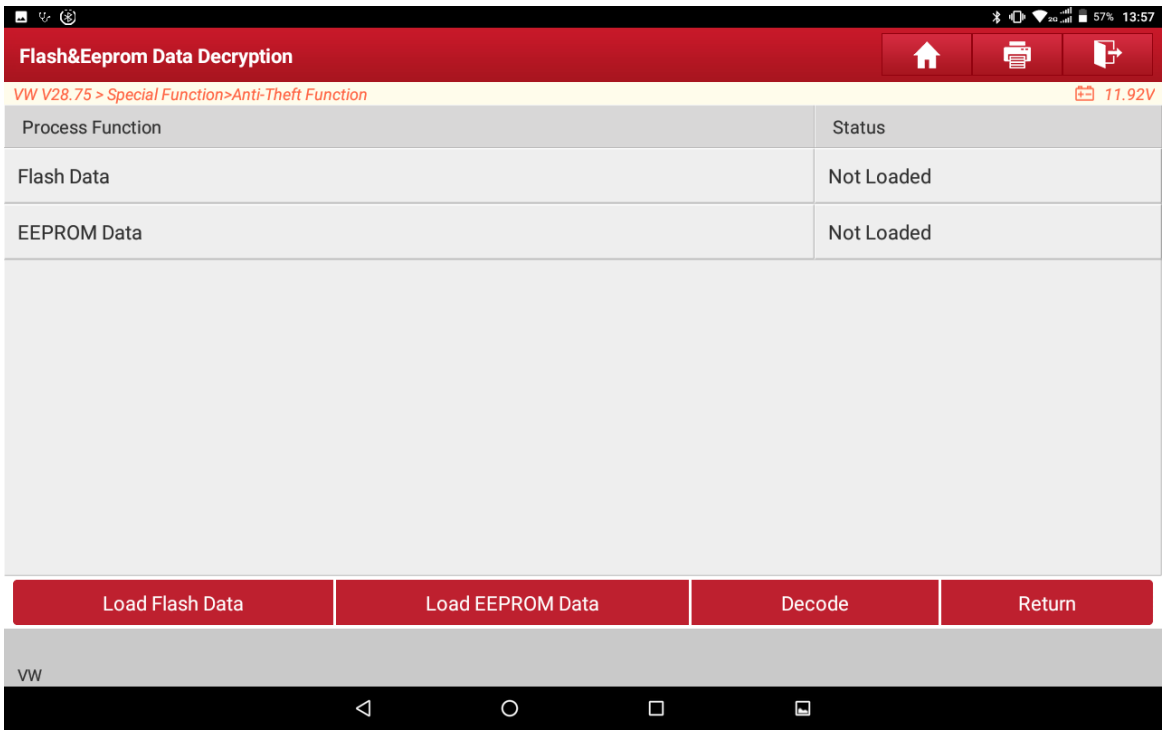


Figure 15

16. Select “Decode”, (as shown in the figure below);

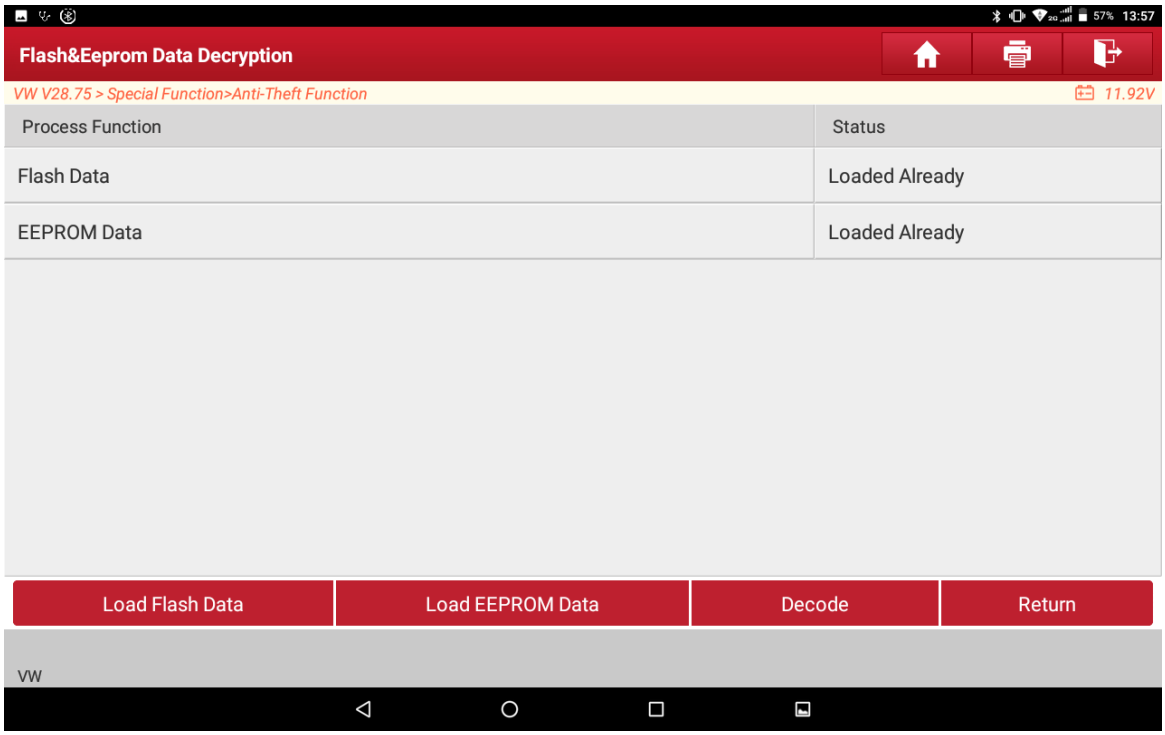


Figure 16

17. Click "Yes" to save the decrypted data (as shown in the figure below);

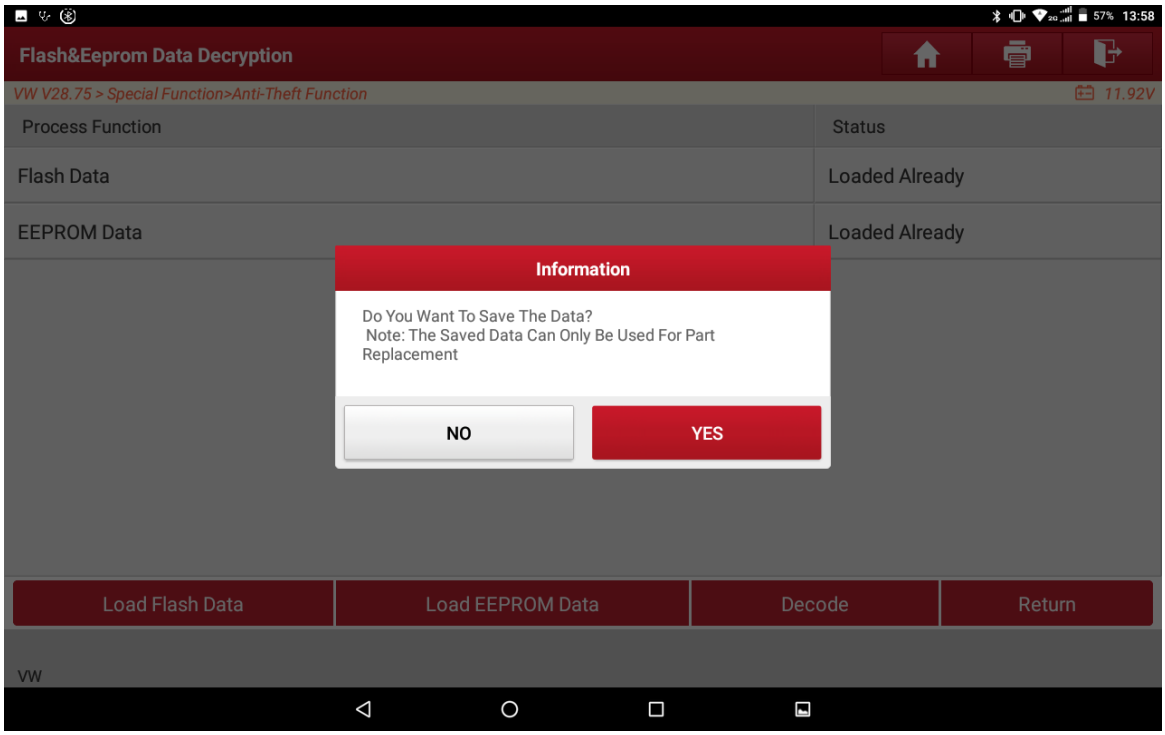


Figure 17

18. After saving the decrypted data of original engine, you can view the relevant data of engine, click "OK" (as shown in the figure below), connect the external engine and the Immobilizer programmer, and follow step 6-13 to back up the EEPROM&FLASH data of external engine;

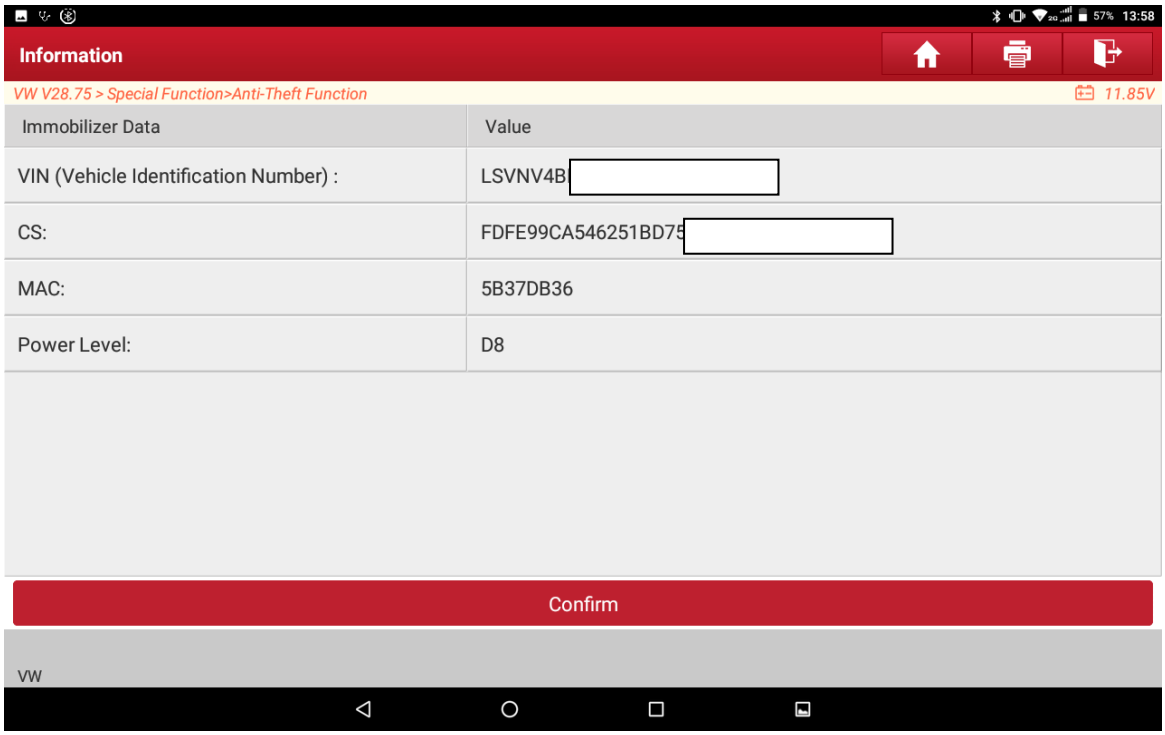


Figure 18

19. Click the Return button after the external engine ECU installed, go back to the submenu of engine replacement module and select 【Vehicle Mode】 (as shown in the figure below);

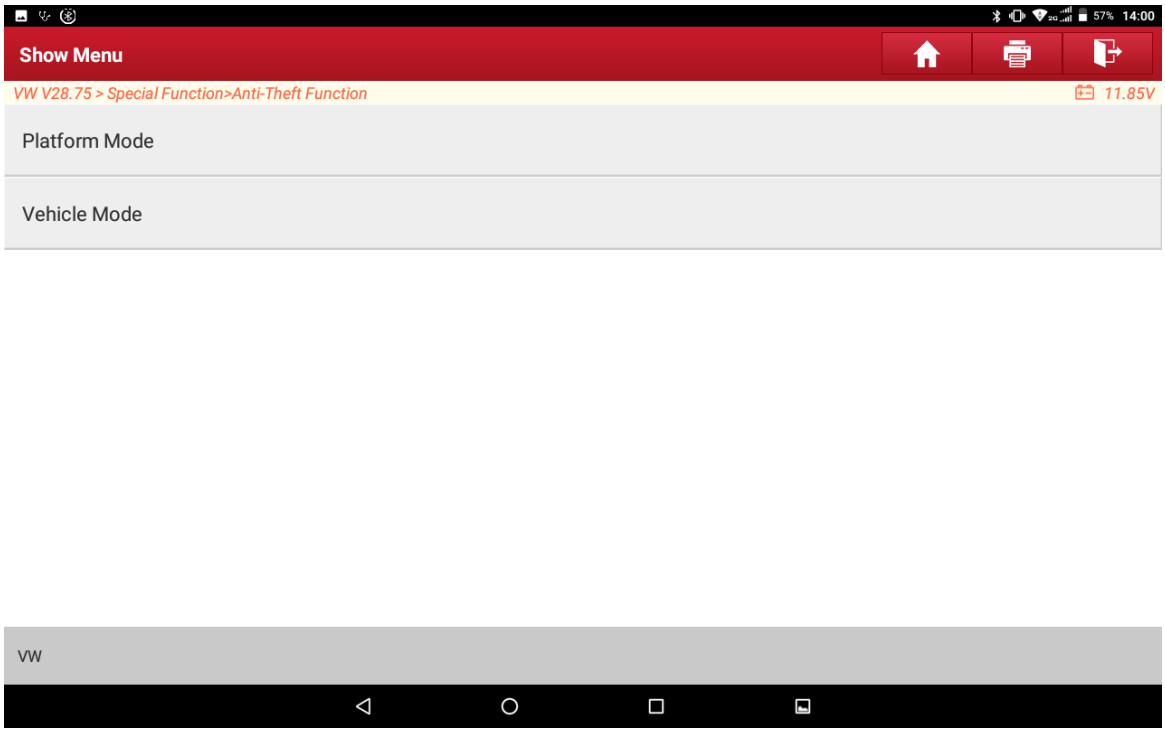


Figure 19

20. Select 【4th Generation Immobilizer】 (as shown in the figure below);

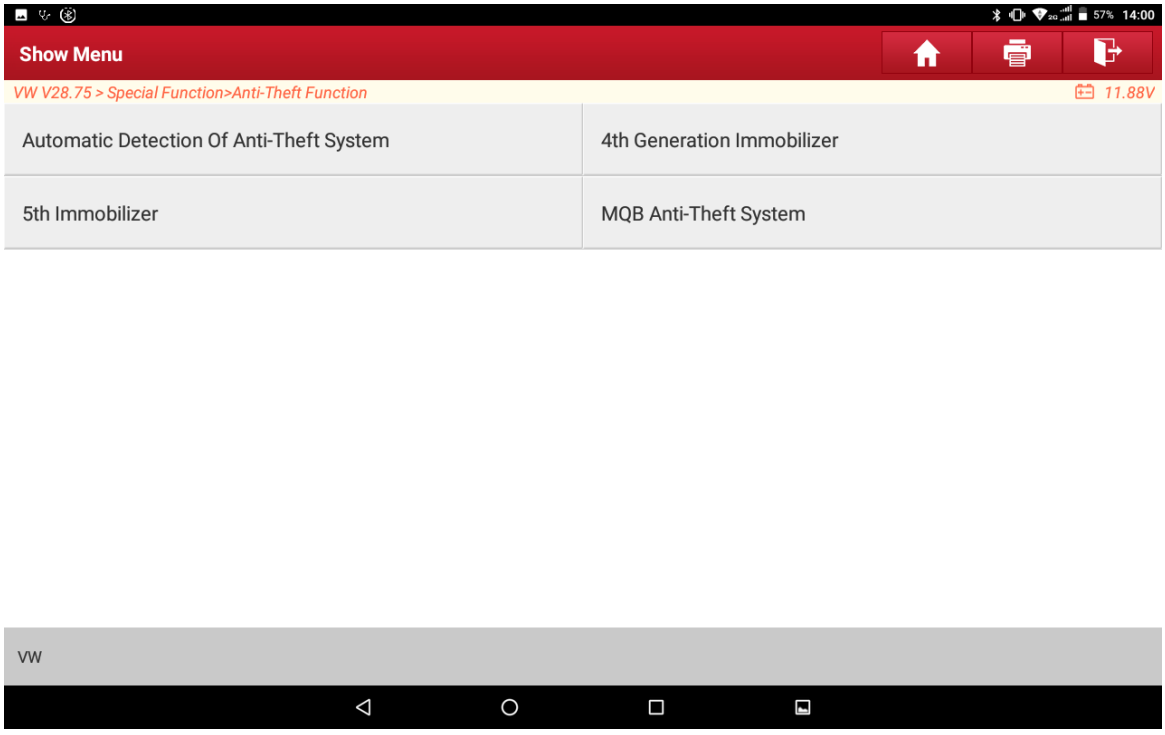


Figure 20

21. The CS code decrypted by the engine is 16 bytes, click "No", (as shown in the figure below);

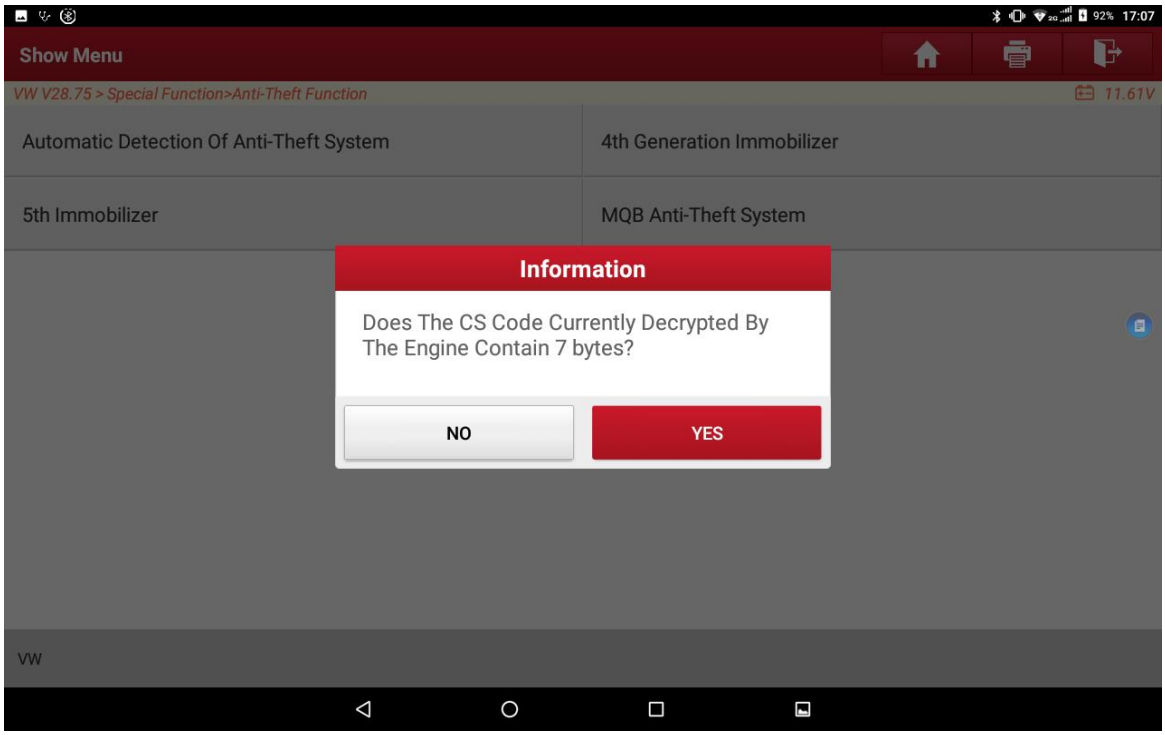


Figure 21

22. Select 【Step 1: Obtain Anti-theft Data of External Engine (Not Executed)】 (as shown in the figure below);

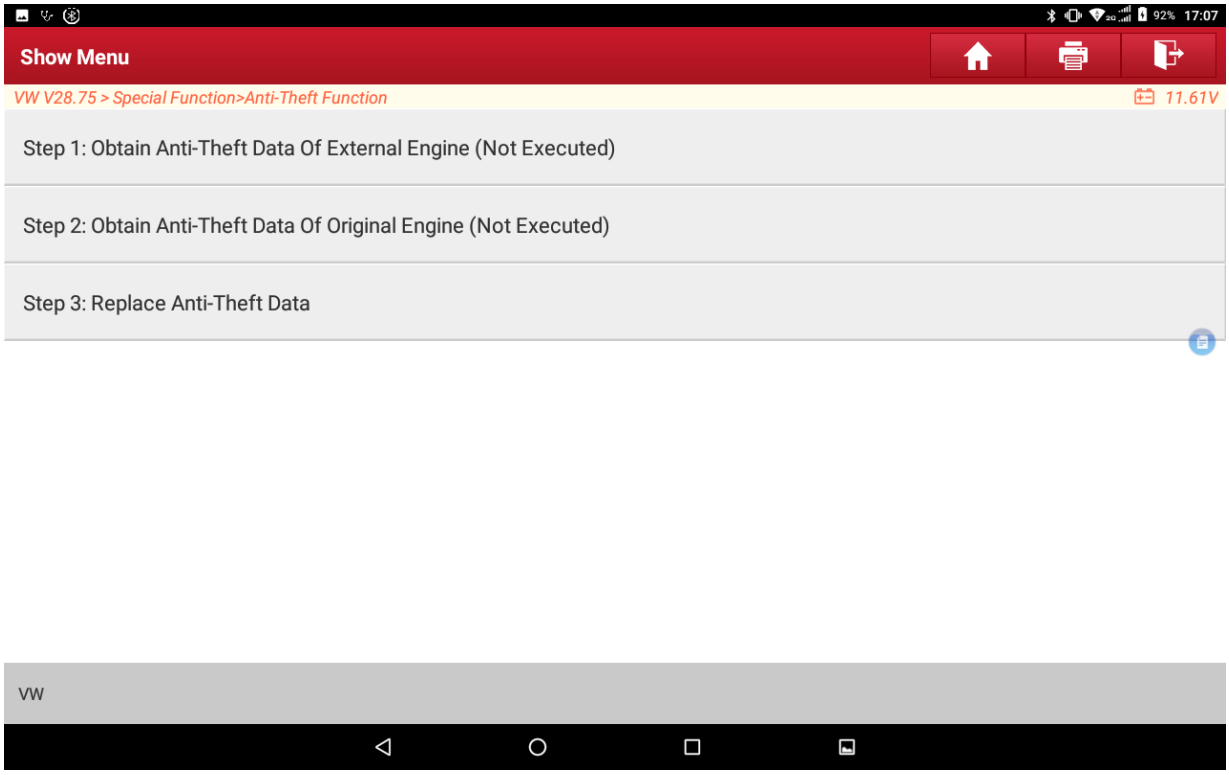


Figure 22

23. Load the decrypted data, select 【Step 2: Obtain Anti-theft Data of Original Engine (Not Executed)】 (as shown in the figure below);

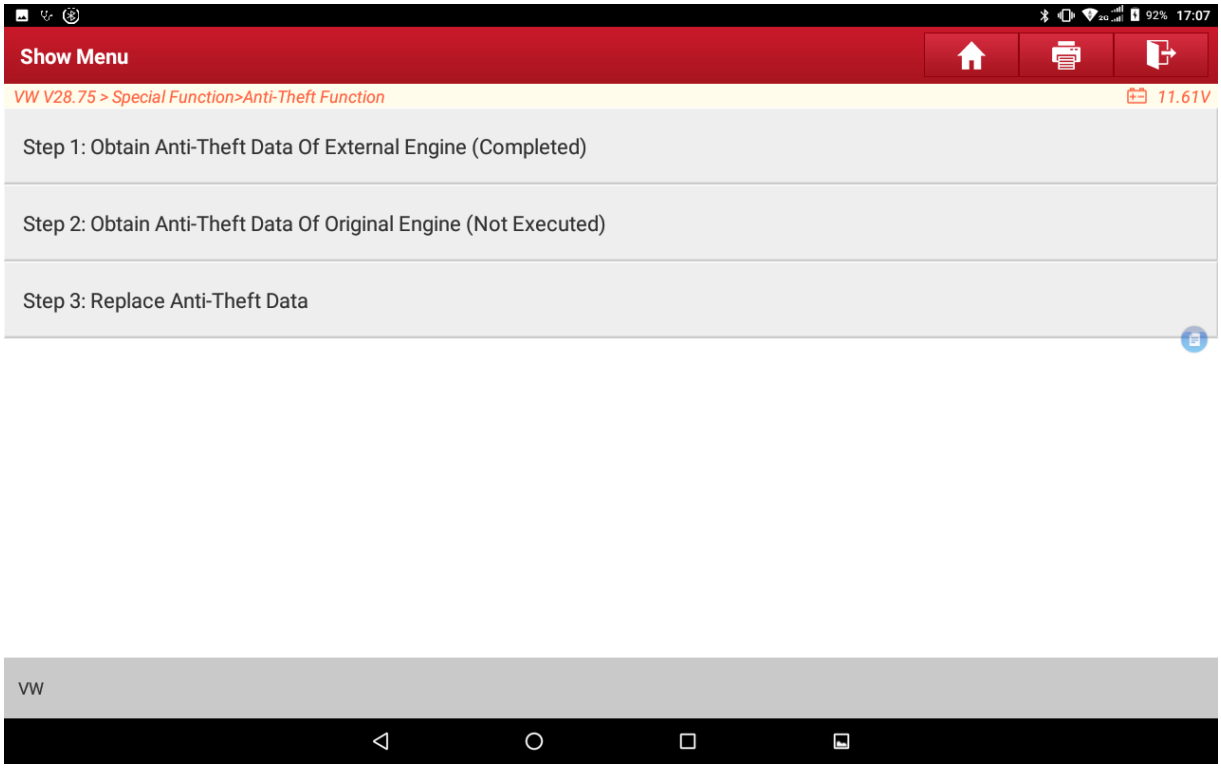


Figure 23

24. Select 【Obtained From Dump Data】(as shown in the figure below);

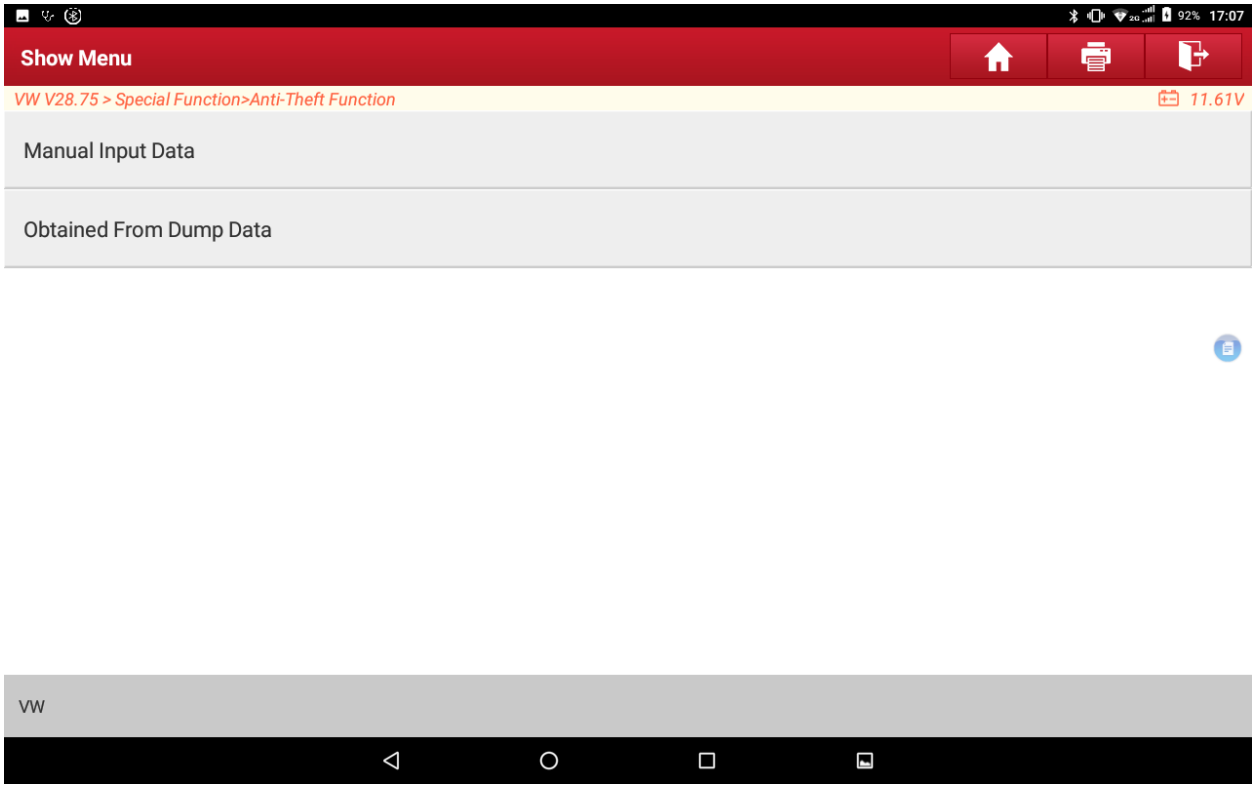


Figure 24

25. Respectively load the original EEPROM and FLASH data to be backed up, and select 【Decryption】 (as shown in the figure below);

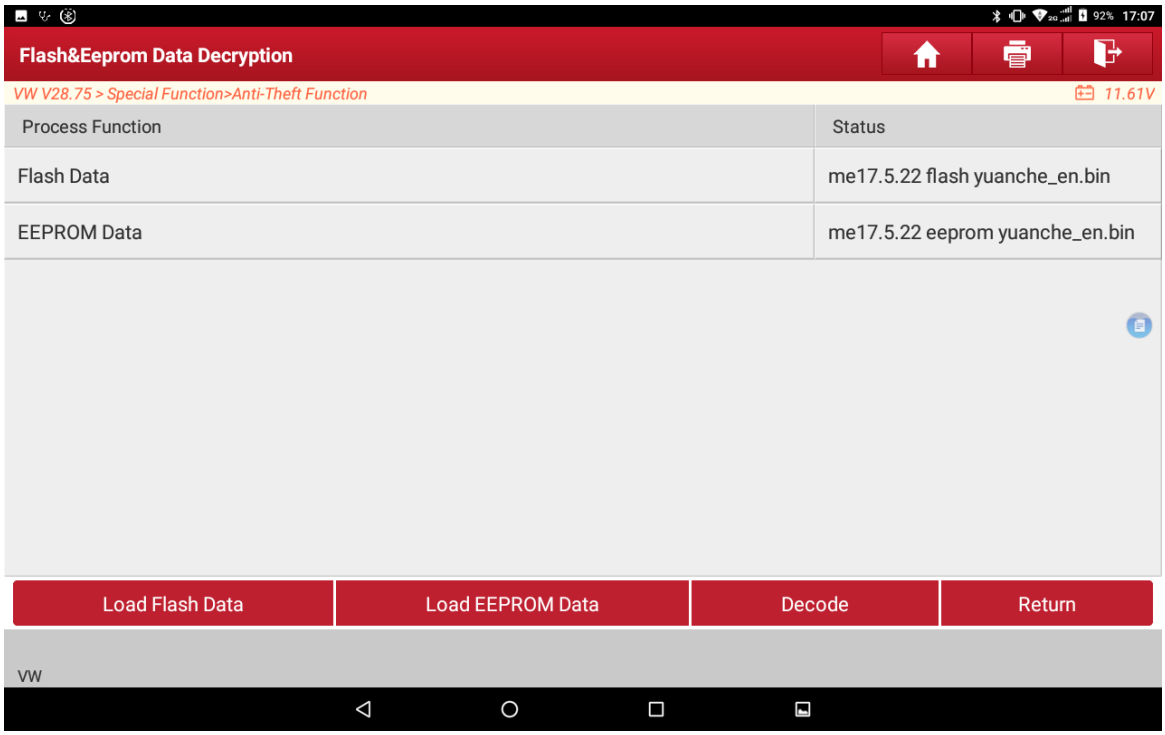


Figure 25

26. Select 【Step 3: Replace Anti-theft Data】 (as shown in the figure below);

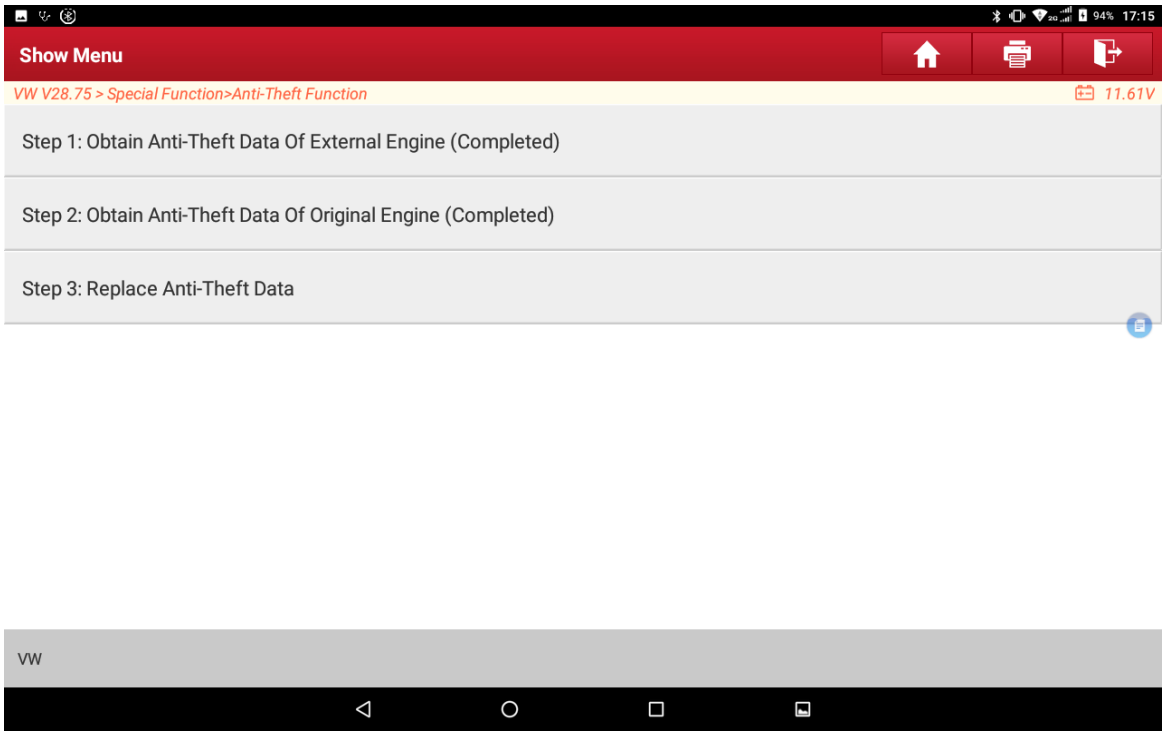


Figure 26

27. Confirm that the external engine has been installed on the vehicle, click "OK" (as shown in the figure below);

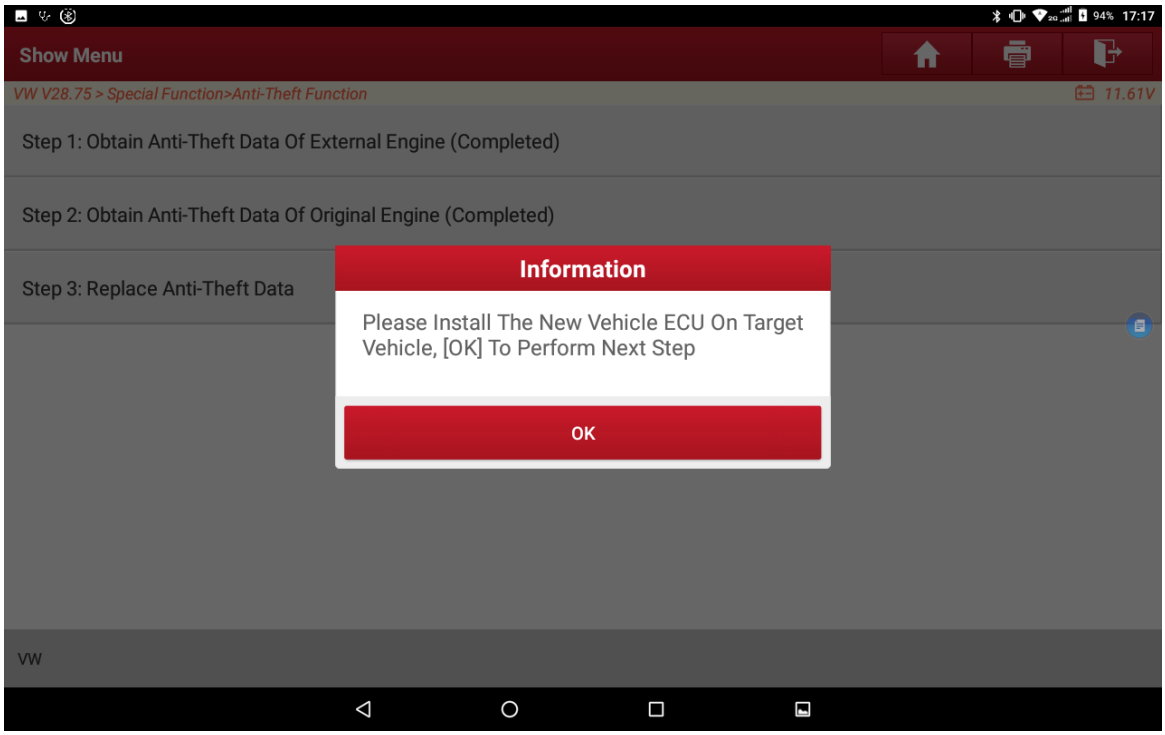


Figure 27

28. Please insert the key or place the key near the key sensing area, turn on the ignition switch to illuminate the instrument, and click "OK" (as shown in the figure below);

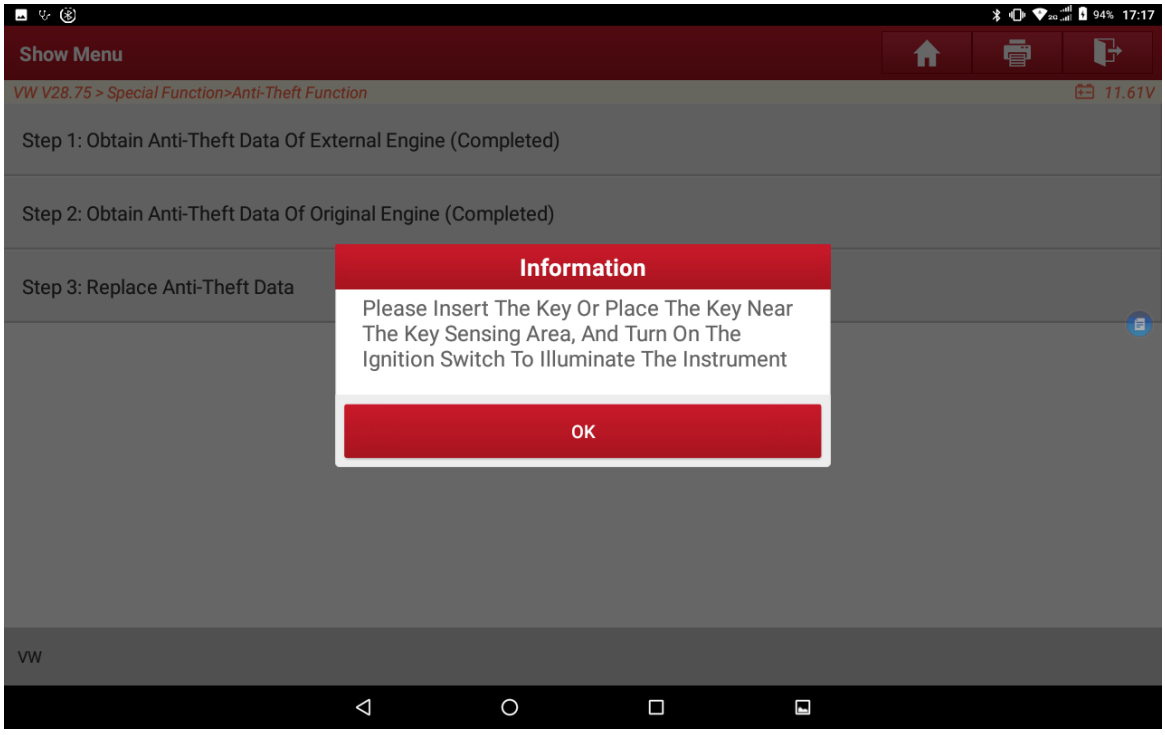


Figure 28

29. Input the PIN of the target vehicle (as shown in the figure below);

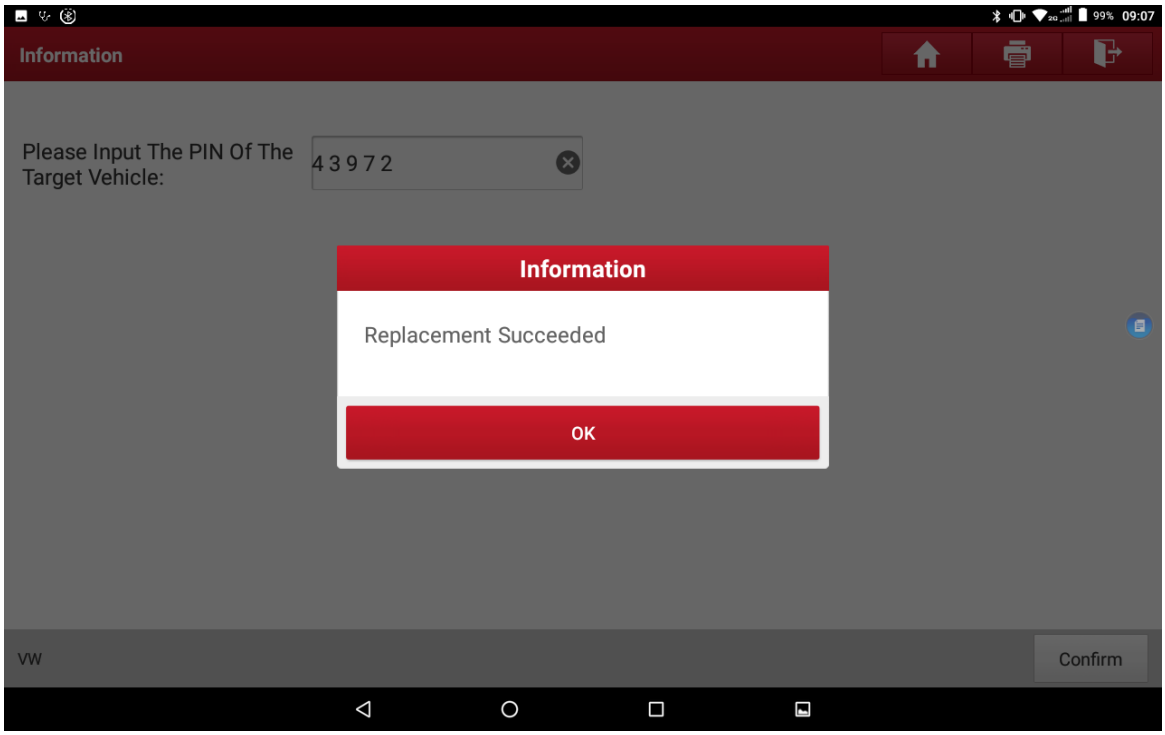


Figure 29

Statement: