Operating Instructions for Volkswagen Audi Engine Function

I Function introduction

Replace Engine, replace instrument, and read Engine data through direct connection (Note: Some MED17 EDC17 cannot be read by direct OBD and need to use this method).

II Condition requirements

Device requirements

PRO and other Android devices of 431 products, X431-G/X431-G3 Anti-Theft Programmer, 431 Engine direct wiring harness;

Software requirements

Volkswagen V28.58 and above

III Steps

3.1 General process description:

1. First determine the type of the engine to be replaced, which can be determined through the label on ECU. In this time, we replace it with MED17.5;
2. Connect external Engine ECU with the device according to the method shown in Figure 1, and power on;
3. Enter [Special Function] -> [Anti-Theft Function] -> [Engine] -> [OBD Mode] -> [MED17] -> [Directly Read IMMO Data] to read the Anti-Theft data of external Engine;
4. Enter the Anti-Theft function to read the CS and PIN of original instrument;
5. Enter [Special Function] -> [Anti-Theft Function] -> [4th Generation Anti-theft System] -> [Parts Replacement] -> [Engine] menu function;
6. Input the previously read external Engine Anti-Theft data and the original Anti-Theft data;
7. Install the Engine ECU on vehicle and click Start Replacement;
8. If the purchased Engine ECU power level is different, it needs to perform instrument replacement.

Figure 1

3.2 Detailed steps

3.2.1 Enter the software, select Volkswagen, and click [Special Function], as shown in Figure 2.

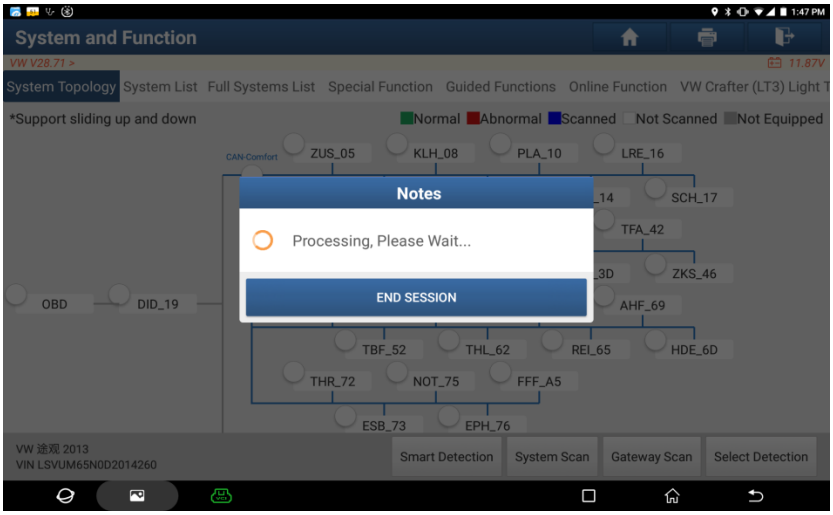

Figure 2

3.2.2 Select [Anti-Theft Function], as shown in Figure 3 and 4.

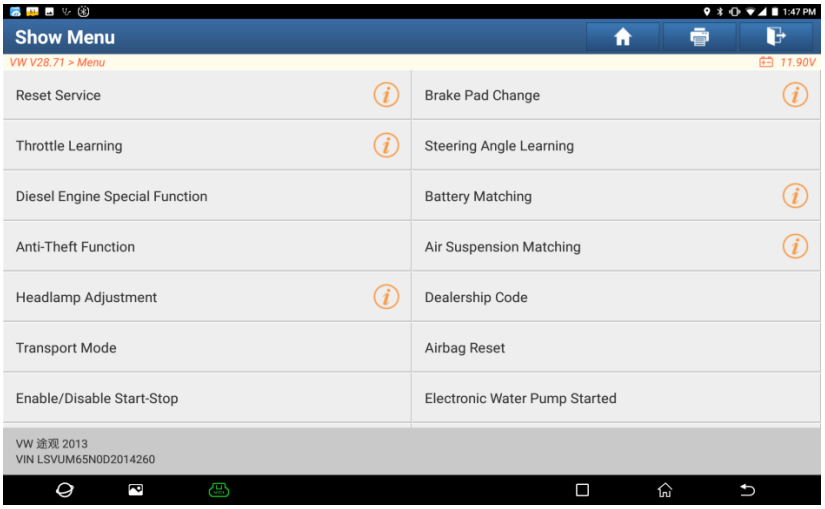

Figure 3

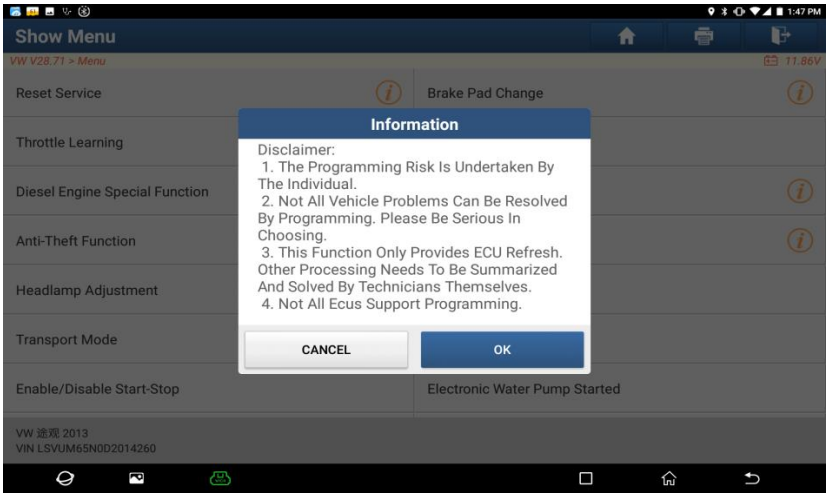

Figure 4

3.2.3 Click [Engine], and you need to connect with the Anti-Theft programmer to enter this function, as shown in Figure 5 and 6.

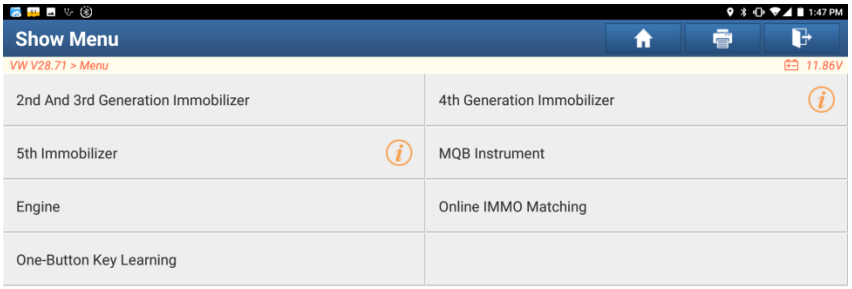

Figure 5

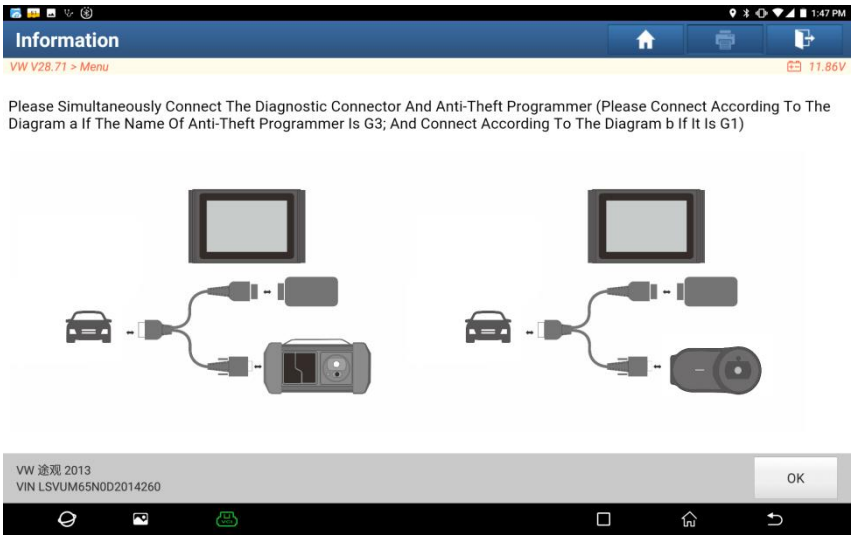

Figure 6

3.2.4 Click [OK] to enter the Engine function menu, as shown in Figure 7, and select [OBD Mode], as shown in Figure 8.

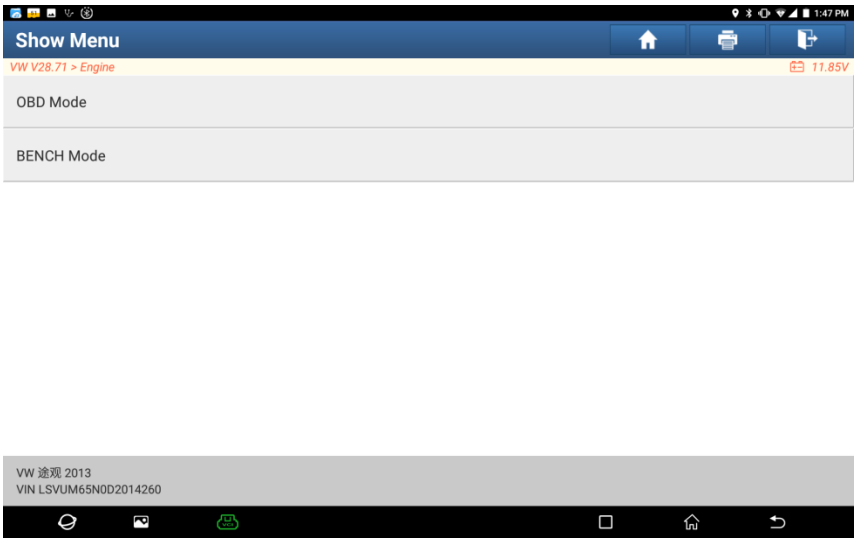

Figure 7

Figure 8

3.2.5 Click [Direct Wiring Diagram], as shown in Figure 9 and 10. Please connect ECU and the diagnostic device by using X431 harness according to the wiring diagram, as shown in Figure 11.

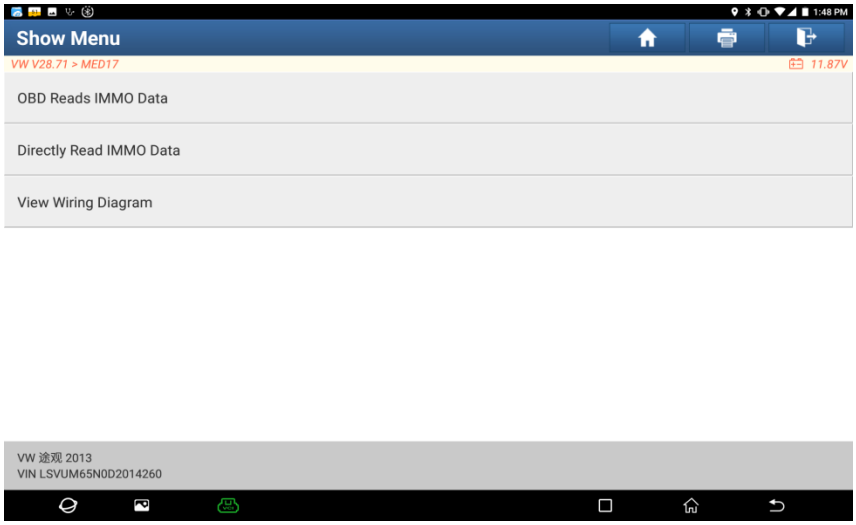

Figure 9

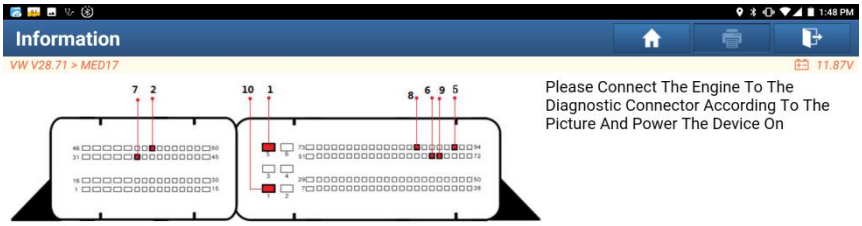

Figure 10

Figure 11

3.2.6 After connecting according to above prompts, click [Directly Read IMMO Data] as shown in Figure 12 and 13. (Note: The IMMO data can be saved for it can be loaded directly without manual input later.)

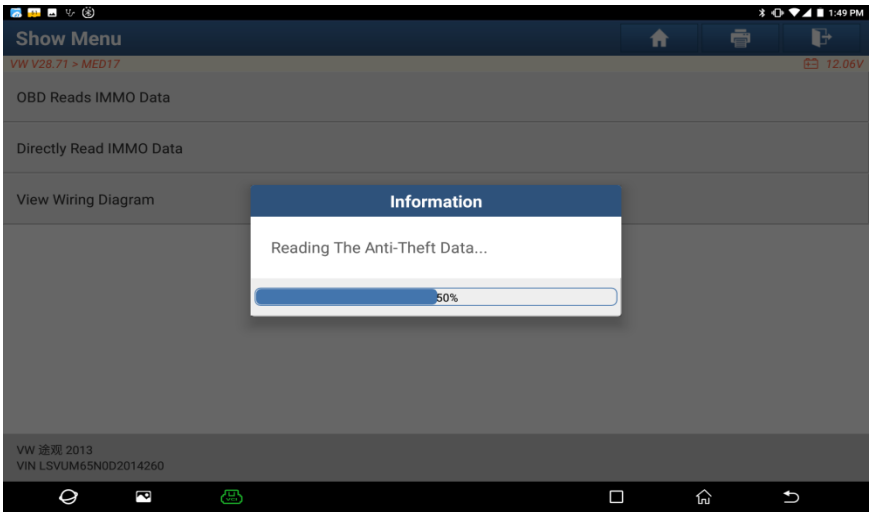

Figure 12

Figure 13

3.2.7 After reading the external Engine data, record the data, install the external Engine on vehicle, and enter the 4th Generation Anti-Theft system to read the Anti-Theft data of another part, which is omitted here.

3.2.8 Return to the 4th Generation Anti-Theft function, select [4th Generation Parts Replacement], as shown in Figure 14 and 15, and click [Engine] as shown in Figure 16.

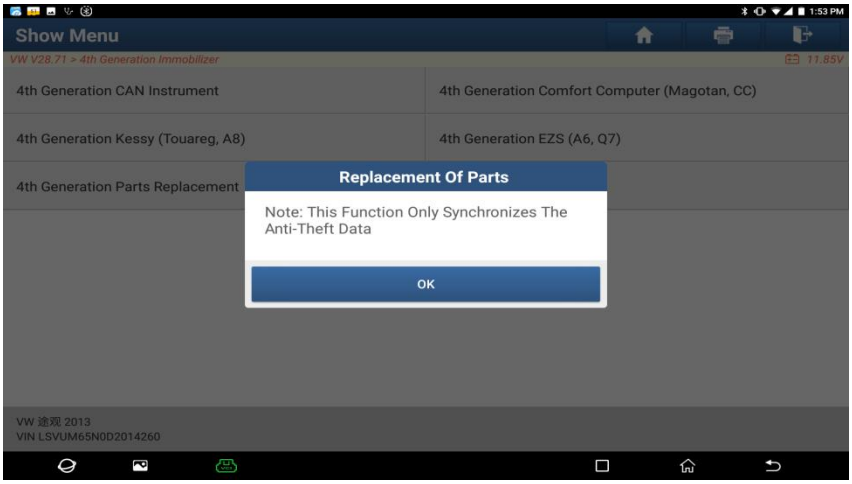

Figure 14

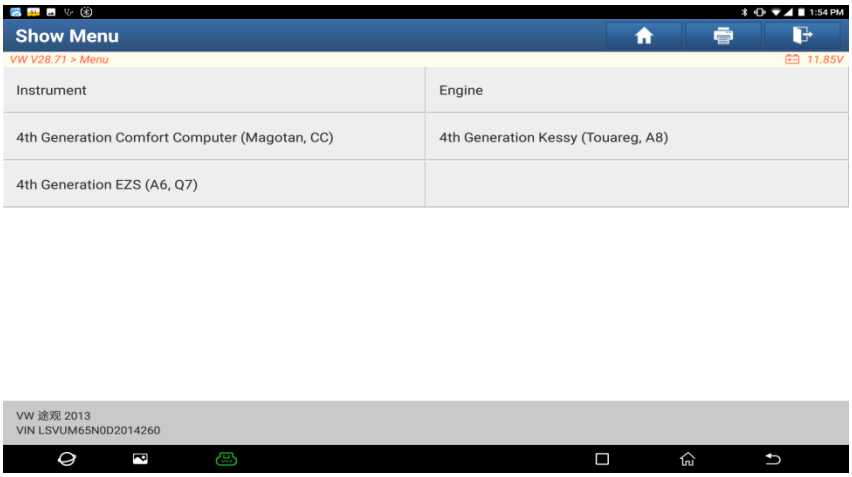

Figure 15

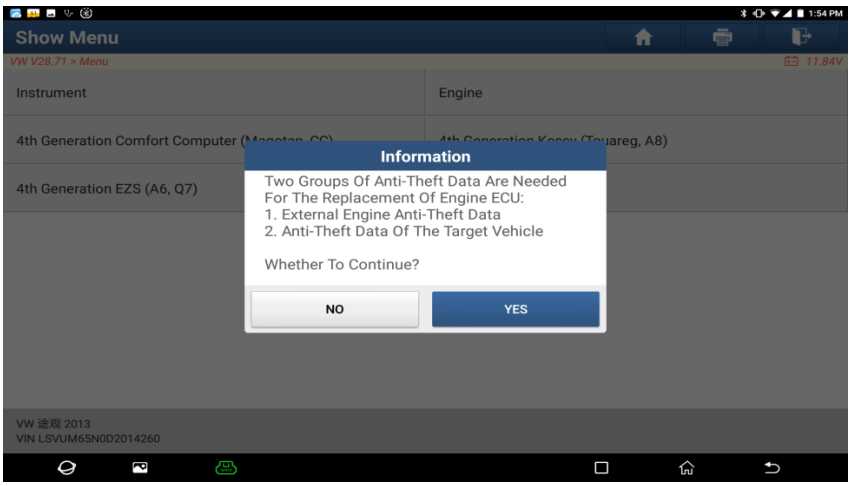

Figure 16

3.2.9 Click [Edit 1] to input the previously read CS and PIN of external Engine, as shown in Figure 17 and 18.

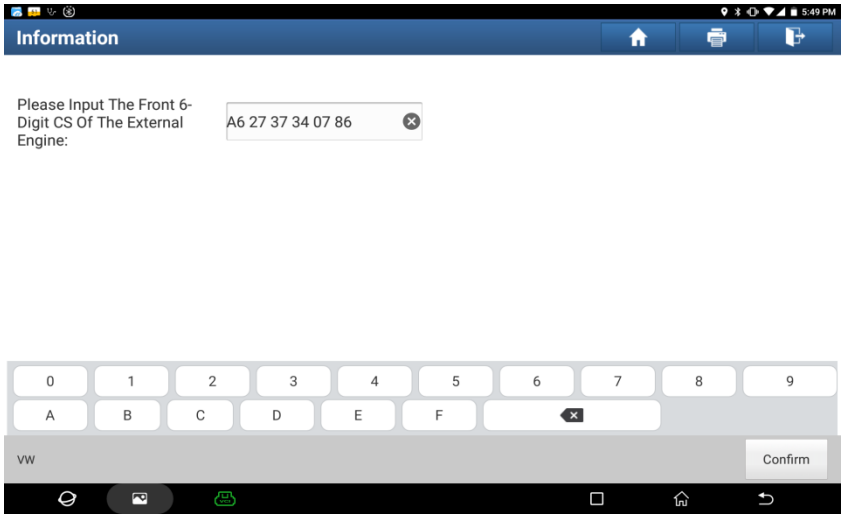

Figure 17

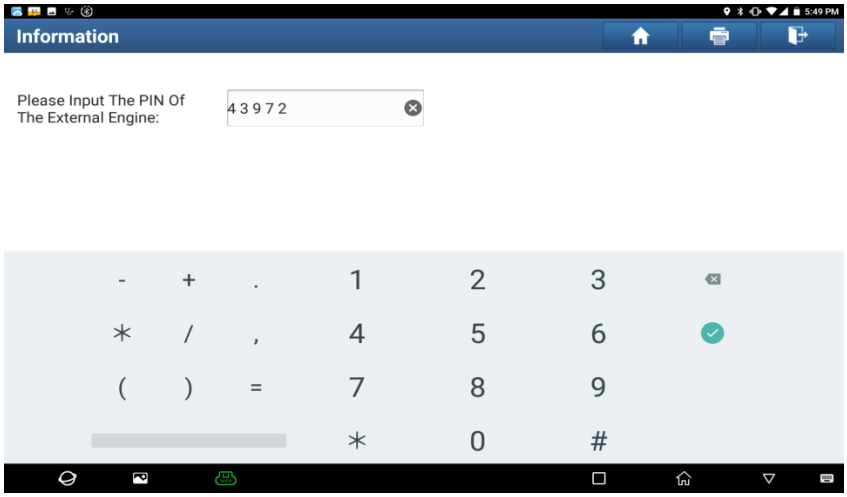

Figure 18

3.2.10 Click [Edit 2] and input the data of external Anti-Theft parts according to the steps of Edit 1. Note: Some Engines require 7 bytes, and most of them only need to add 00 to the last digit of the first 6 bytes, as shown in Figure 19.

Figure 19

3.2.11 Make sure that the external Engine has been replaced on original vehicle, click [Start Replacement], the replacement is completed, as shown in Figure 20.

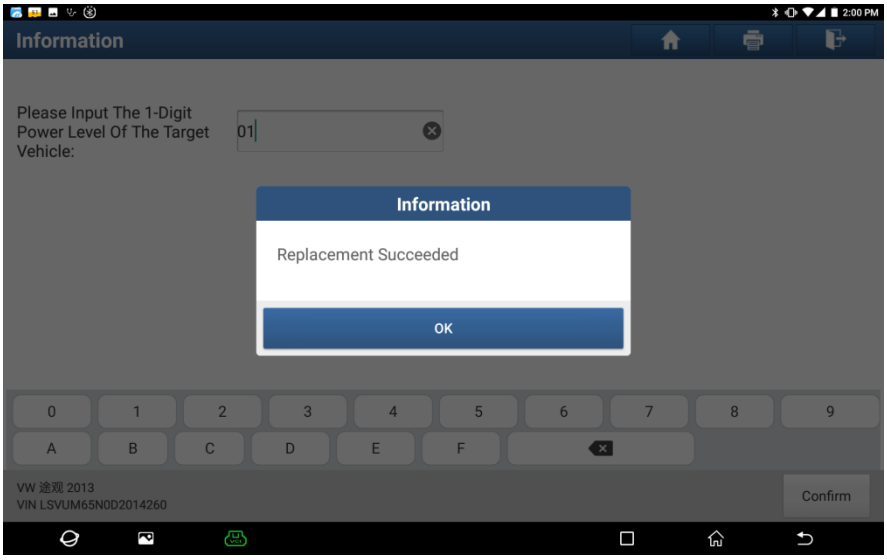

Figure 20

3.2.12 If the power level of purchased Engine does not correspond to that of original Engine, it is required to perform replacement for original instrument data, and then perform key learning.