Cloning for Audi DQ380 Gearbox

Supported devices: Launch X-431 PRO Immobilizer matching device (Expert version), Launch X-43 PRO or PAD series comprehensive diagnostic device or +X-431 GIII Immobilizer programmer

Case description: Audi DQ380 gearbox ECU, the original gearbox ECU hardware failed, but still can read, replace a used gearbox ECU and perform ECU data cloning.

Main process:

The cloning function can only be directly connected to ECU, backup and restore through the BENCH mode;
1. Connect the original gearbox ECU through the BENCH mode to back up the original gearbox data;
2. Connect the external used gearbox ECU through the BENCH mode, and write the original gearbox data backed up before.
3. Connect the external used gearbox ECU through the BENCH mode, and back up the data of external used gearbox ECU again
Current data (after data has been restored)
4. Compare if the original gearbox data backed up at the very beginning and the gearbox data after restored are the same (install it on the vehicle to test after checking the data are the same)

Operation guidelines:

1. Select the Immobilizer programmer software, connect to the programmer, click "OK", (as shown in the figure below);
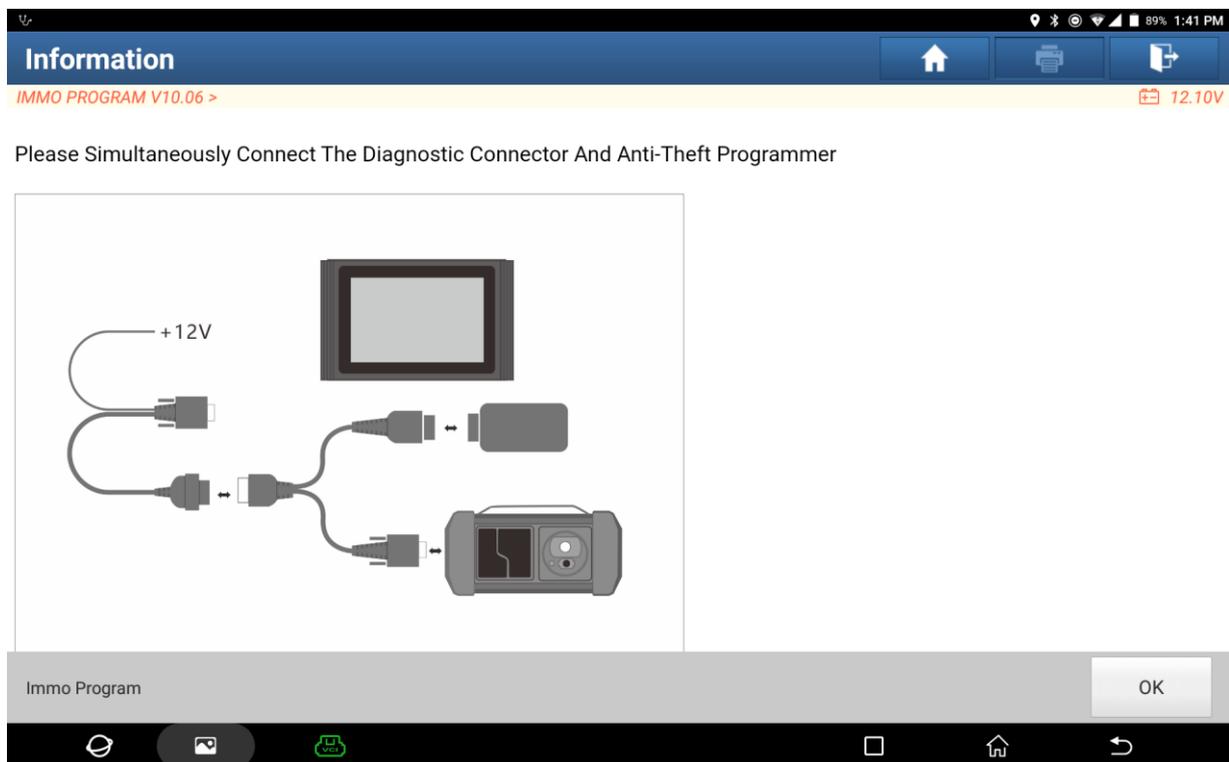
Figure 1

2. Select 【Gearbox】, (as shown in the figure below)；

Figure 2

3. Select 【VW/Audi】, (as shown in the figure below)；
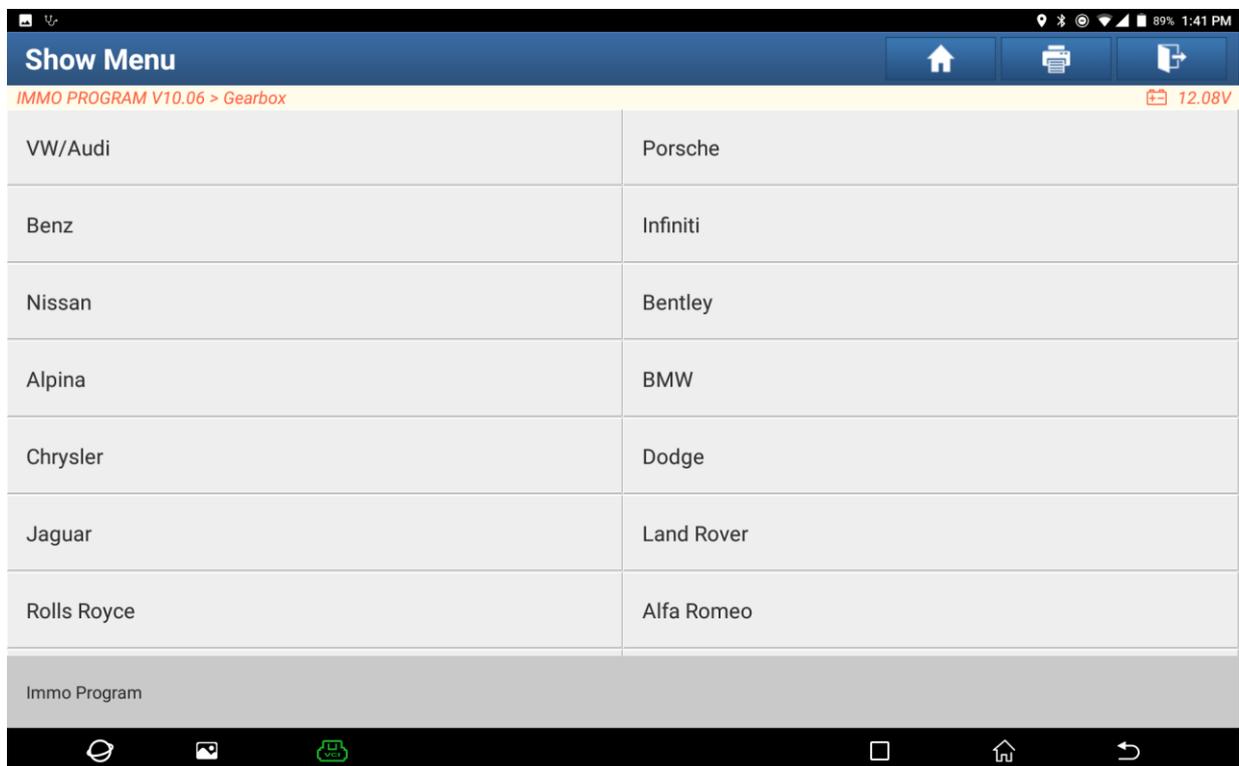
Figure 3

4. Select【DQ380】, (as shown in the figure below)；
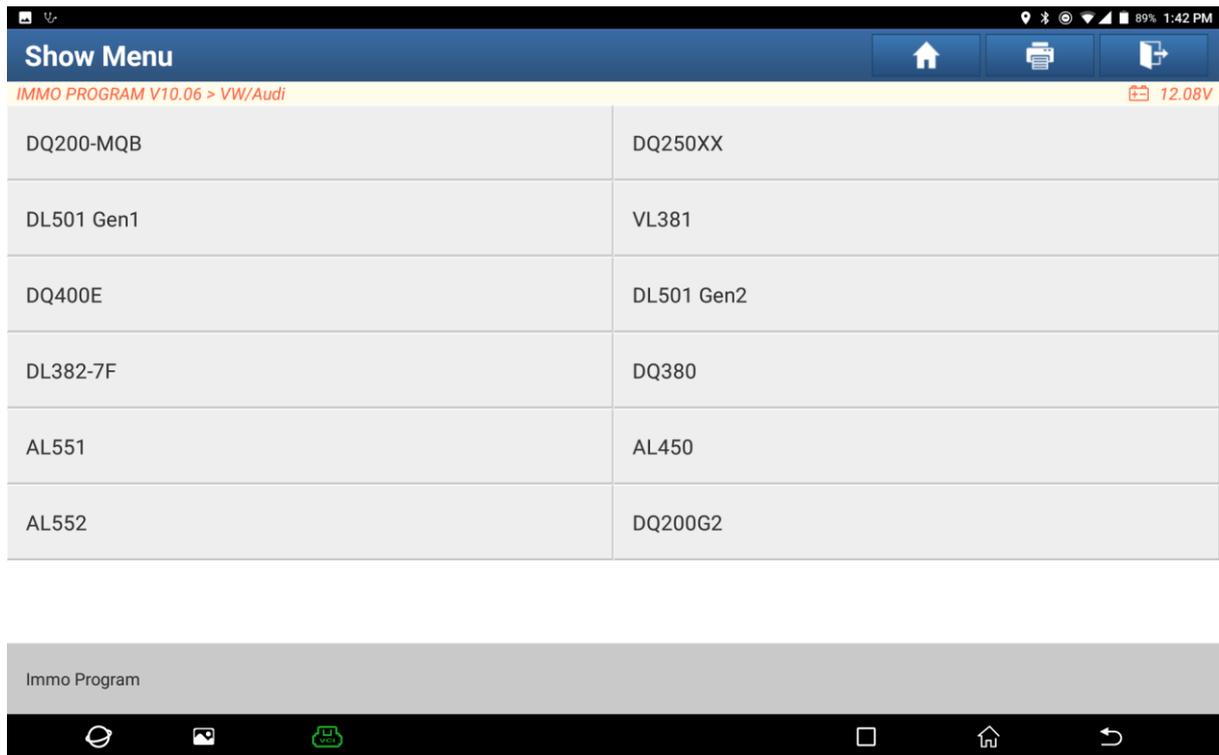
Figure 4

5. Please read the prompt information carefully, connect the USB cable according to the prompt, and click "OK" (as shown in the figure below);
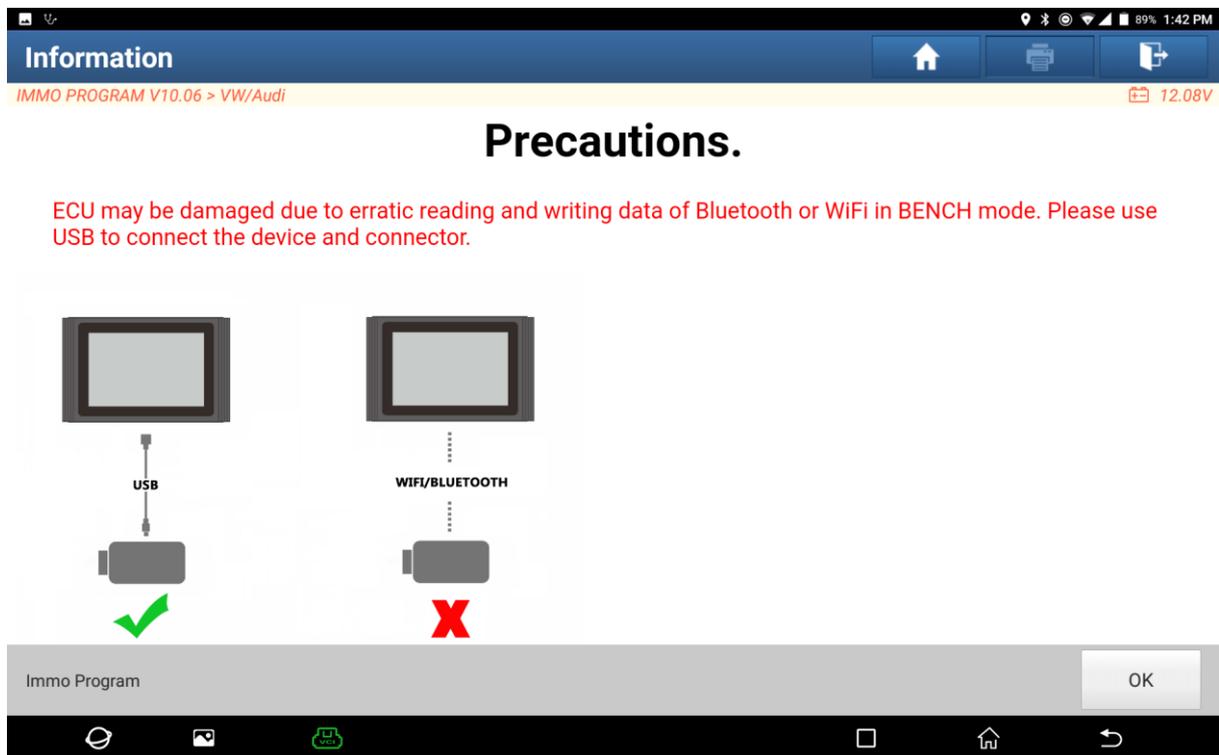
Figure 5

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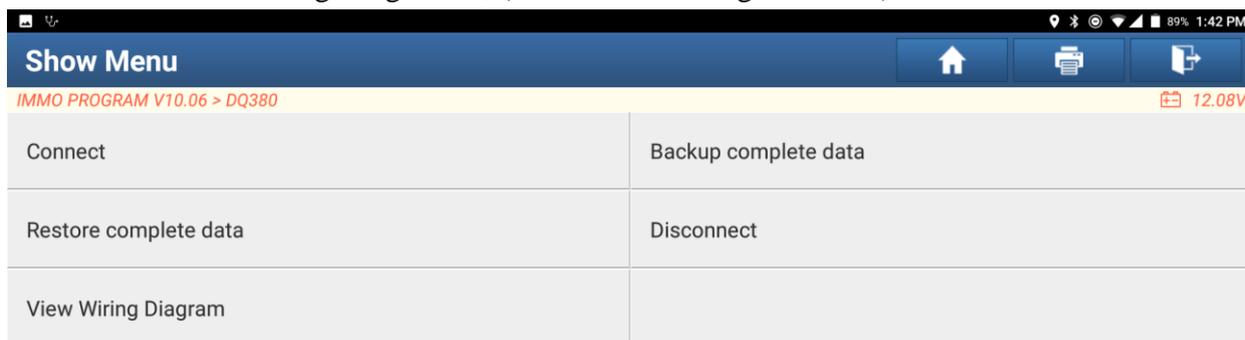
Figure 6

7. Connect the original gearbox ECU according to the picture. A 120 ohm resistance is needed for the connection between line 6 and 9, select "OK", and click "OK" after connected, (as shown in the figure below);
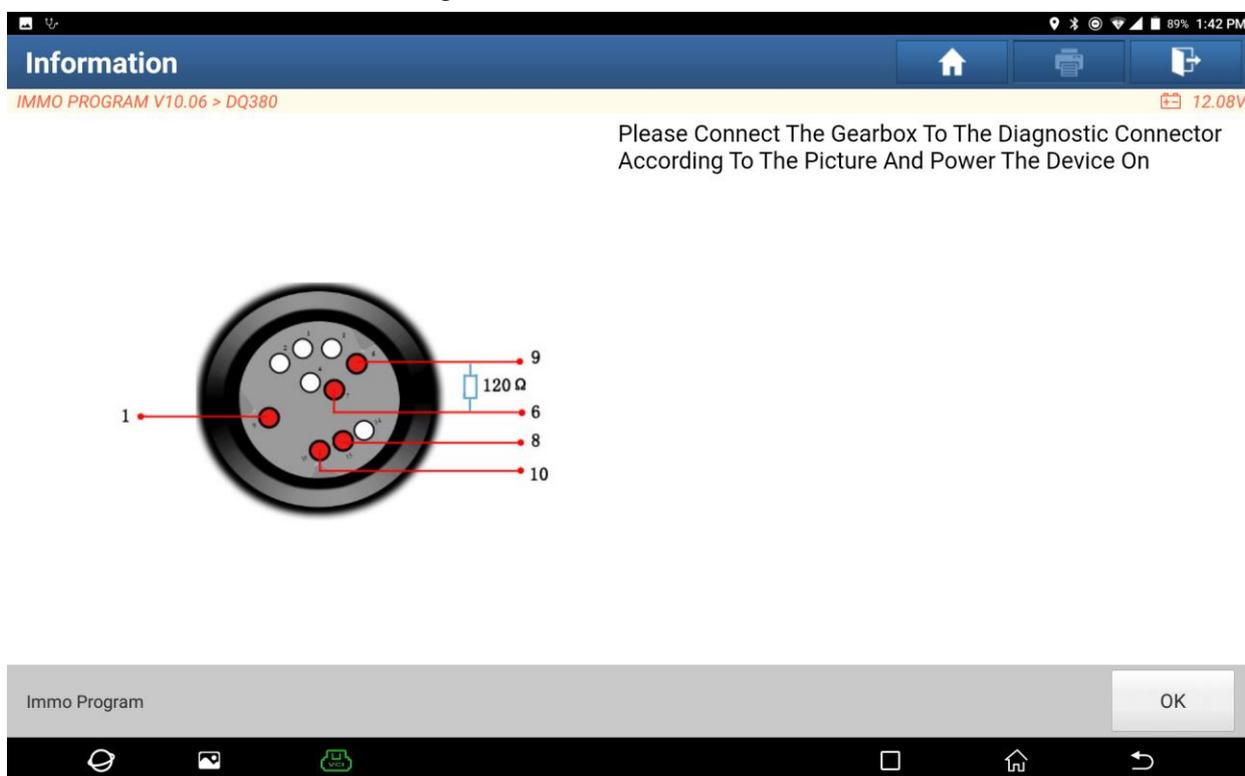
Figure 7

8. Please select the 【Connect】function first, and test to verify whether the connection is correct (as shown in the figure below);
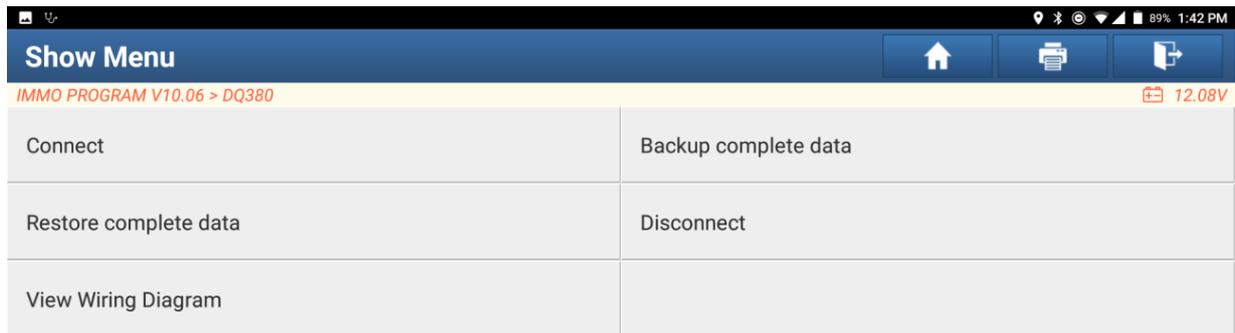
Figure 8

9. Click"OK"after connected, as shown in the figure below, the connection is OK when it prompts Connected, and you can go to the next steps；
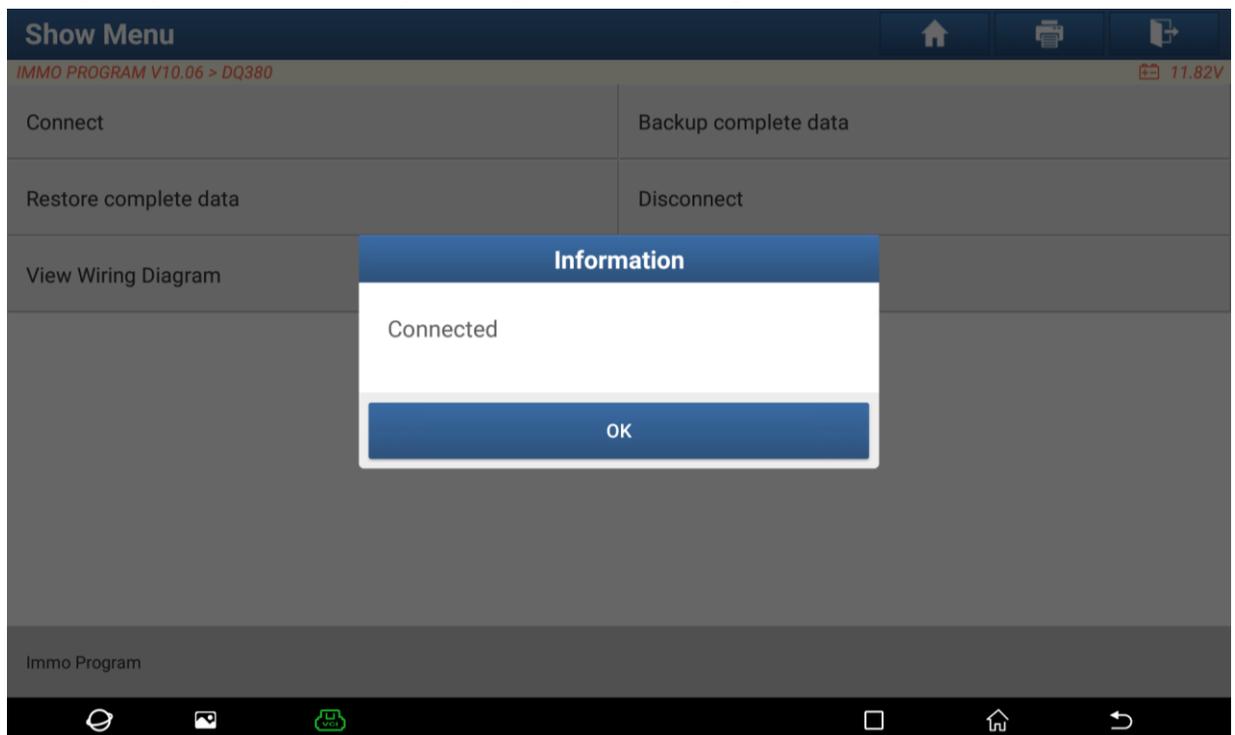
Figure 9

10. Select 【Backup complete data】, (as shown in the figure below)；
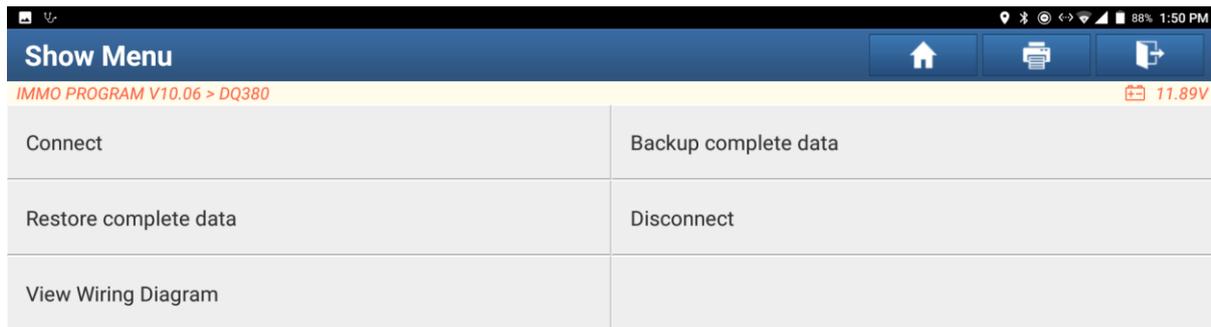
Figure 10

11. Reading data in progress, (as shown in the figure below)；
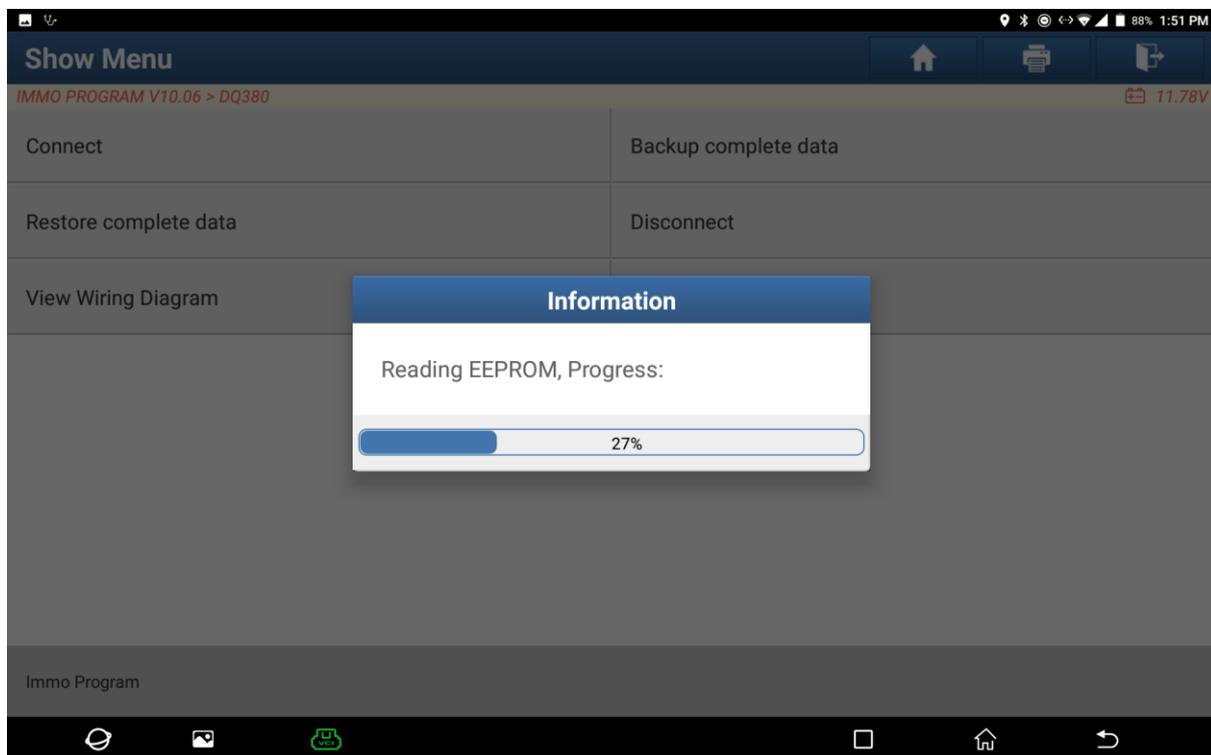
Figure 11

12. Enter the file name, and then click "OK", while the data will not be saved if click "Cancel", (as shown in the figure below);
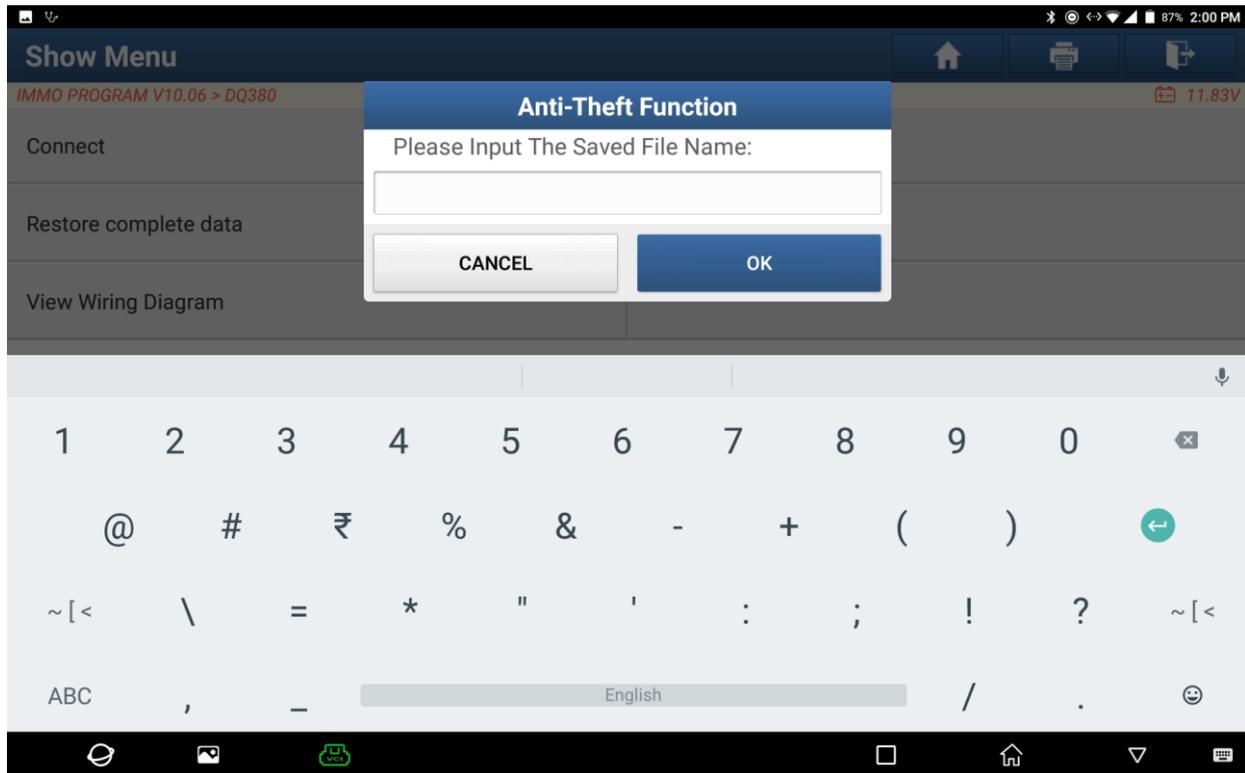
Figure 12

13. You can choose the save path independently, click "OK", (as shown in the figure below);
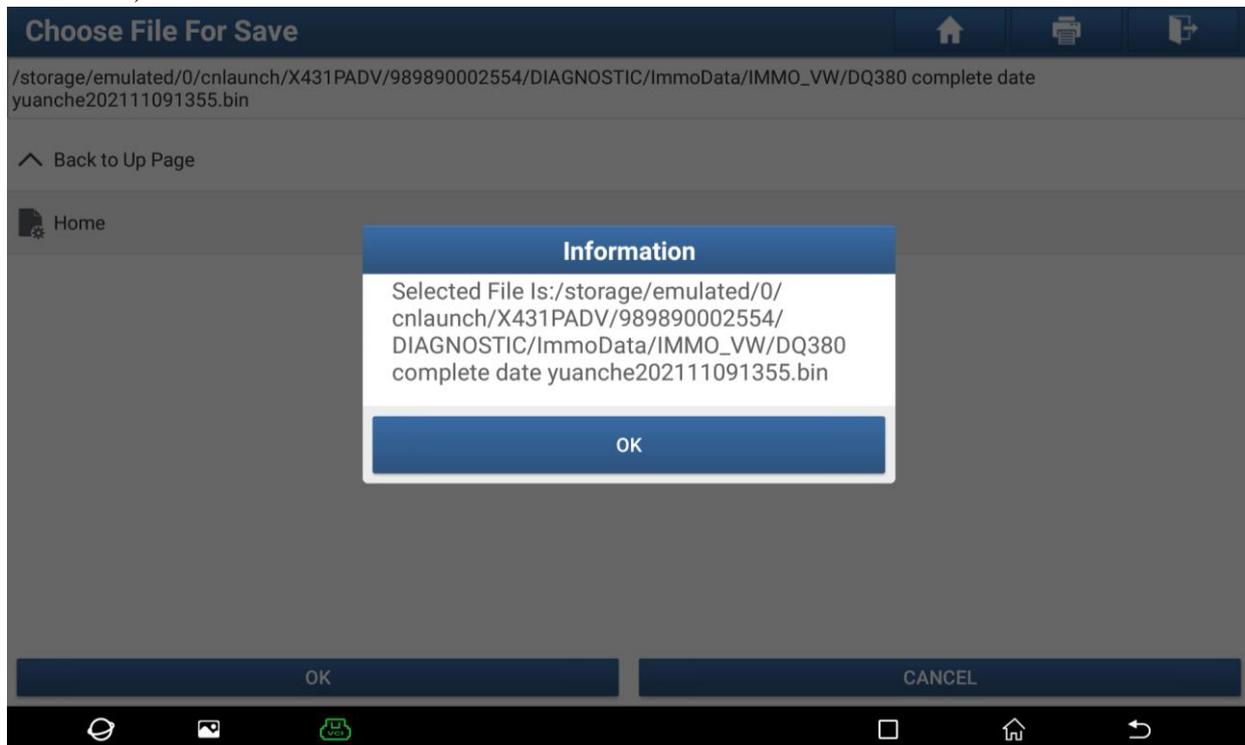
Figure 13

14. Click "OK" and it is saved successfully, (as shown in the figure below)；
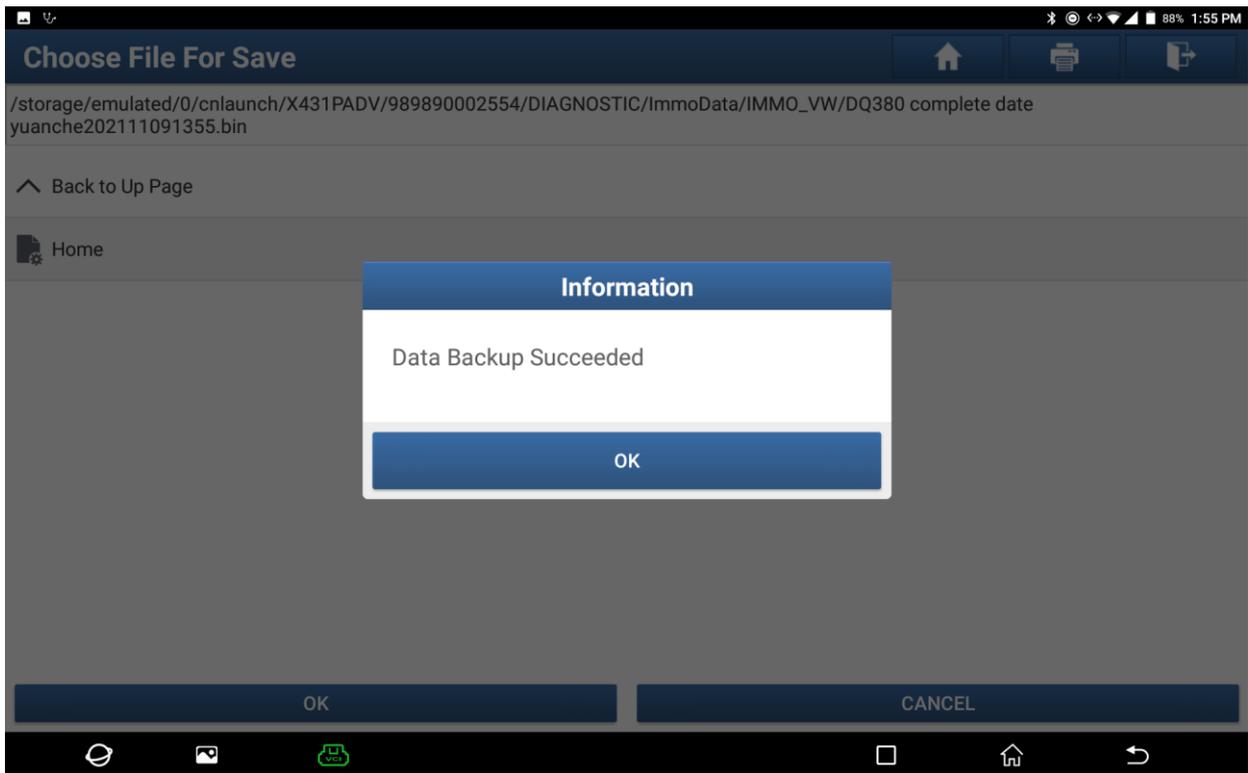
Figure 14

15. Select 【Disconnect】, click "OK", (as shown in the figure below)；
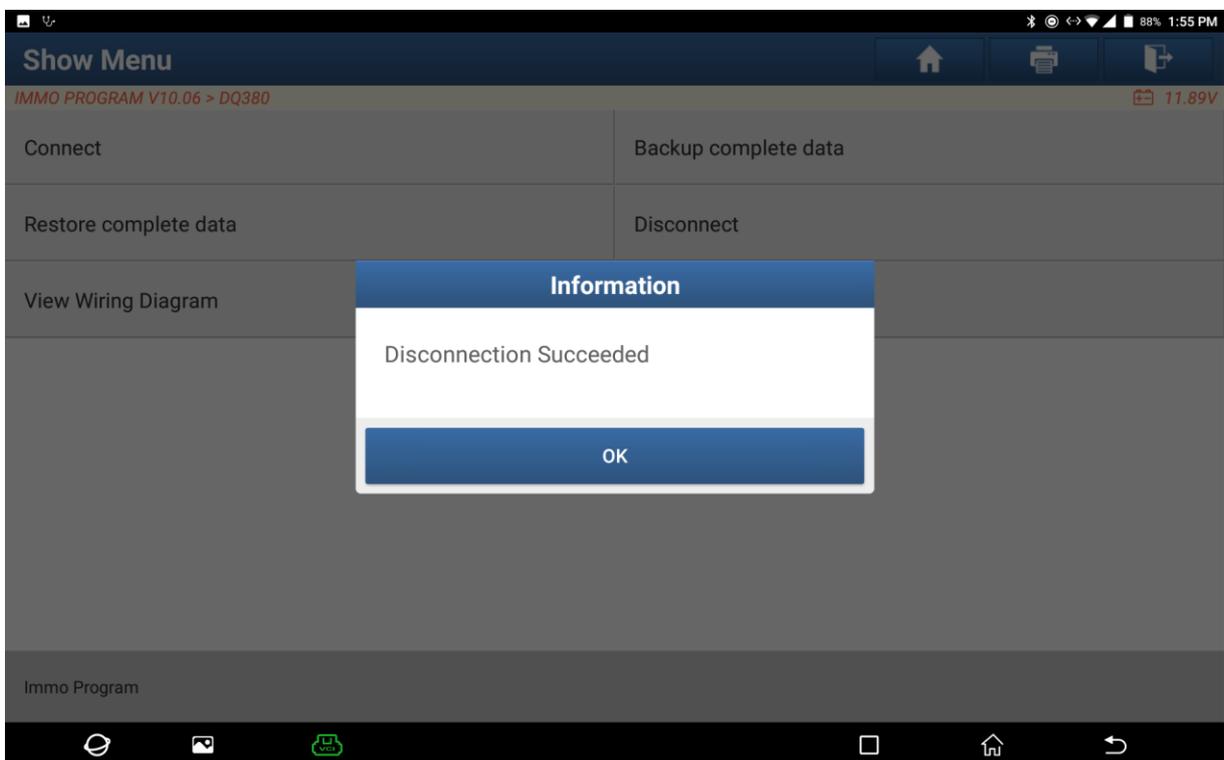
Figure 15

16. Disconnect the harness connection of original gearbox ECU, and connect the external gearbox ECU according to step 6-9. After the external used gearbox ECU is successfully connected, click【Connect】first and it is tested normal, then select 【Restore complete data】;
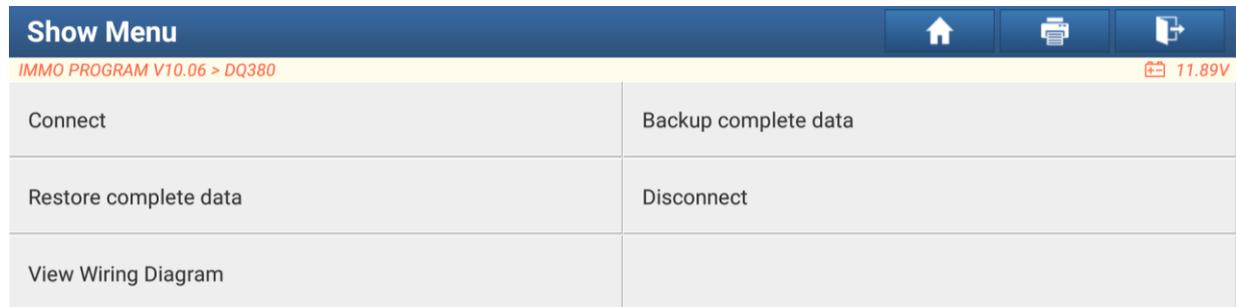
Figure 16

17. Select the original gearbox data that has been backed up, and click "OK" to restore it, (as shown in the figure below)；
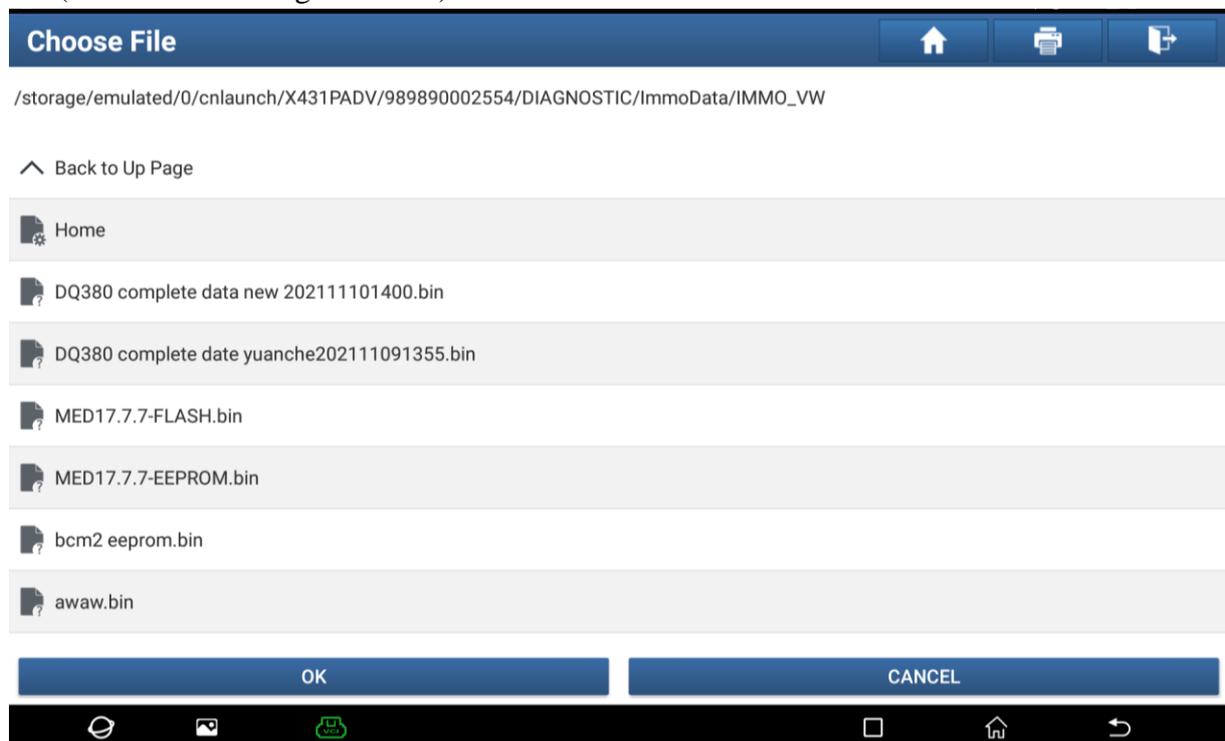
Figure 17

18. Writing the original gearbox data in progress, and it will take a little long time, please wait patiently (as shown in the figure below);
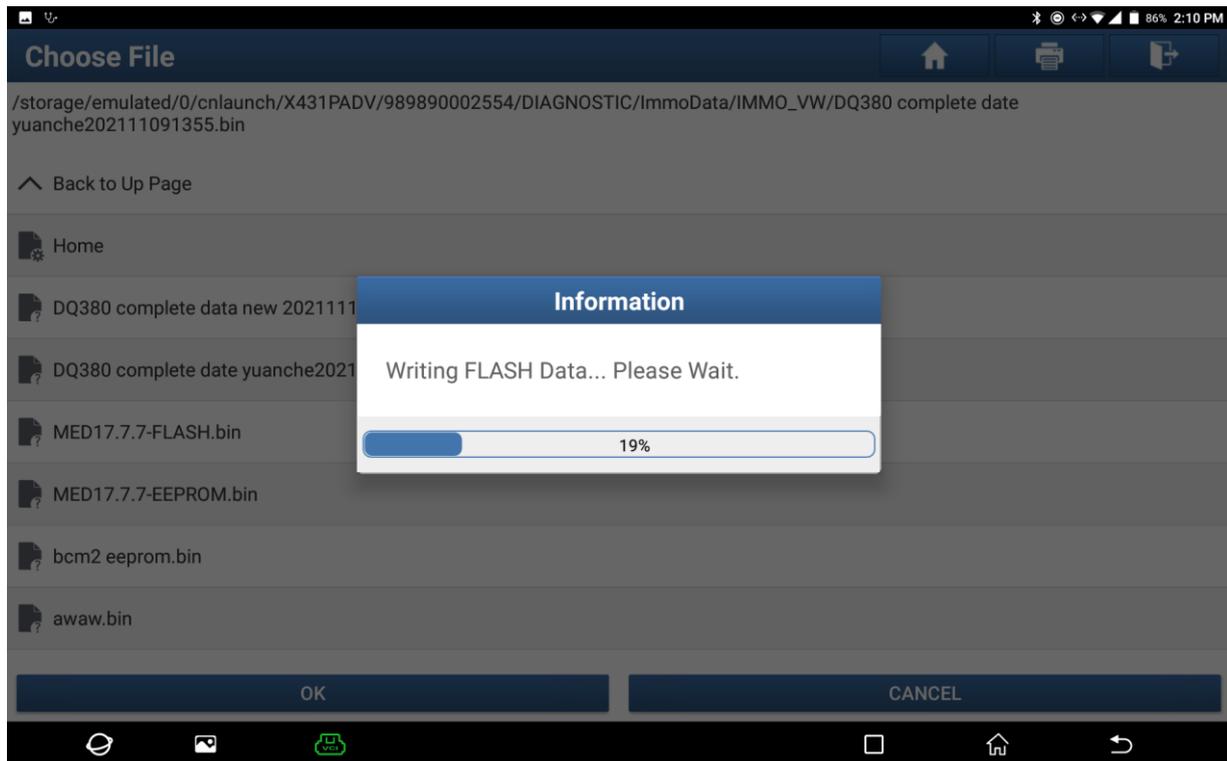
Figure 18

19. Click "OK" after the data is successfully restored (as shown in the figure below)；
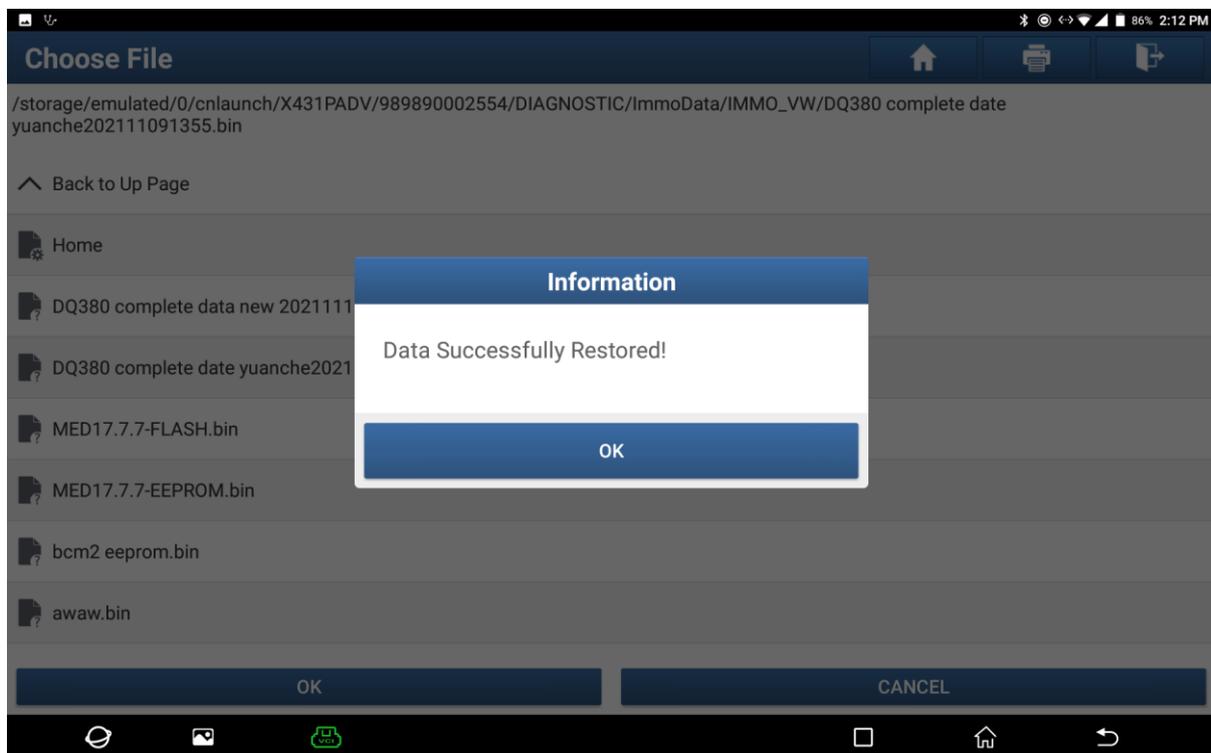
Figure 19

20. If you want to verify whether the data is written correctly, you can select [Backup Complete Data] again to back up the current data of external gearbox (the current external gearbox has been executed 【Restore Complete Data】, which means the data is the original data already), and save the data, select 【Disconnect】, press the return key to return to the first level menu, select【Data Comparison】, (as shown in the figure below)；

Figure 20

21. Click 【F1】and【F2】 respectively to import the backed-up original gearbox data and the external gearbox data which was backed up later. The purpose is to compare whether the original gearbox data is consistent with the data after cloning for the replaced gearbox (as shown in the figure below);

22. Click 【Comparison】 to compare the two backed up data, (as shown in the figure below);
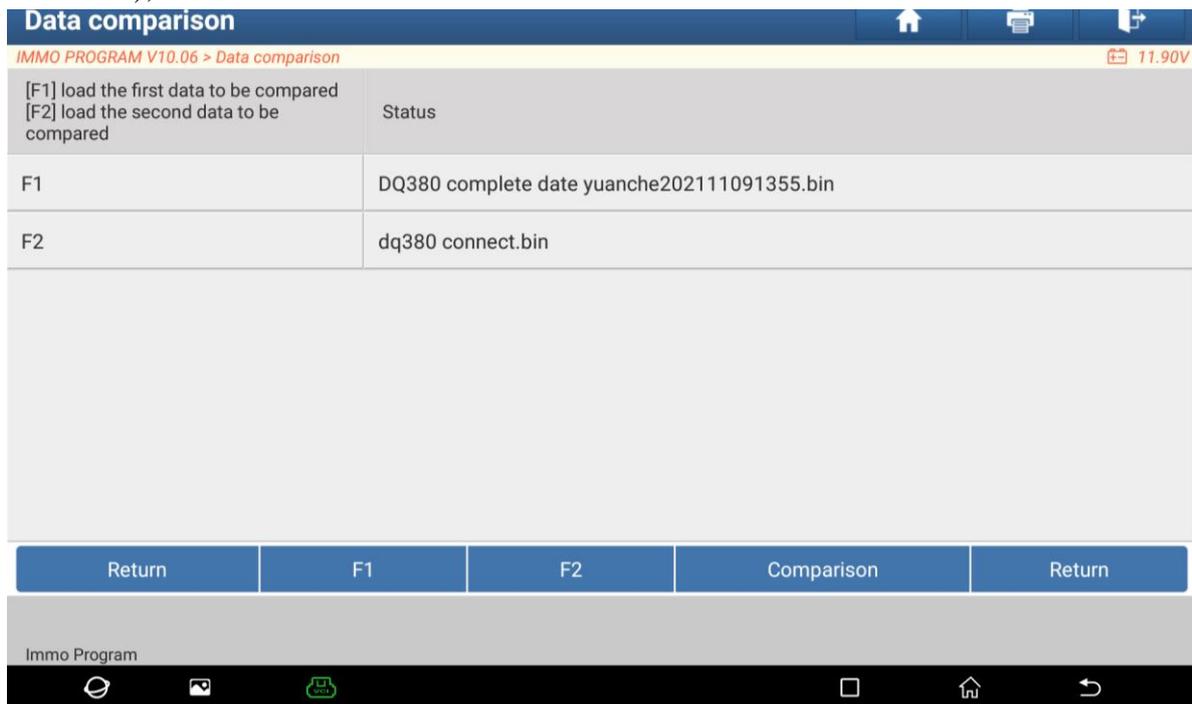
Figure 22

23. The comparison result shows that the two data are the same, then install the external gearbox on the vehicle (as shown in the figure below);

Figure 23

Statement: