

Save Computer Data and Write Saved Data

Tested Model: Nissan NP300 NAVARA 2024

Function Description:

1. "Save Computer Data" and "Write Saved Data" are paired functions used to back up and restore ECU (Electronic Control Unit) configuration data. The "Save Computer Data" function reads and saves migratable configuration data and related parameters from the ECU. The "Write Saved Data" function writes the backup data to the original ECU or a compatible new ECU, restoring the original configuration parameters and vehicle settings.
2. Be sure to perform the "Save Computer Data" function to back up ECU configuration data before carrying out ECU replacement, software flashing, upgrades, or other maintenance operations that could result in the loss of ECU configuration data. After the operations, if the original configuration needs to be restored or if configuration data loss occurs, the "Write Saved Data" function can be used to write the backup data back to the ECU, precisely restoring its original configuration data.
3. If the diagnostic tool detects DTCs related to ECU configuration data anomalies (such as lost configuration data or incomplete configuration), and ECU hardware or peripheral circuit faults have been ruled out, the "Write Saved Data" function can be used to write the correct backup data back to the target ECU. This restores the vehicle's original configuration and clears DTCs caused by configuration anomalies.

Supported Equipment: Launch PRO or PAD series comprehensive diagnostic equipment

Attention:

1. When performing the "Save Computer Data" and "Write Saved Data" functions, set the ignition switch to the ON position (engine off) and ensure the battery voltage is normal and stable. During the execution of these functions, do not disconnect the diagnostic tool, turn off the ignition switch, interrupt the vehicle power supply, move the vehicle, or operate electrical equipment (such as the A/C), as this may cause the functions to fail or result in ECU configuration anomalies.
2. These two functions must be performed in the correct order: First, successfully execute the "Save Computer Data" function to back up the

migratable ECU configuration data, and then execute the "Write Saved Data" function as needed. If ECU replacement, software flashing, or other maintenance operations that could cause configuration data loss are performed without first backing up the data, the original configuration data may be unrecoverable.

3. Before executing the "Write Saved Data" function, verify that the backup data matches the current vehicle and the target ECU. Strictly avoid writing backup data from a different vehicle to the target ECU, as this may cause configuration errors or the failure of related functions. After the writing process is completed, it is recommended to read the ECU DTCs again to confirm that the ECU configuration has returned to normal.

Procedure:

1. On an X-431 PAD 5, follow the steps shown in Figure 1 to Figure 3. Choose [Local Diagnose], choose [NISSAN], and then click "OK" to enter the Nissan vehicle model menu interface (Figure 4).

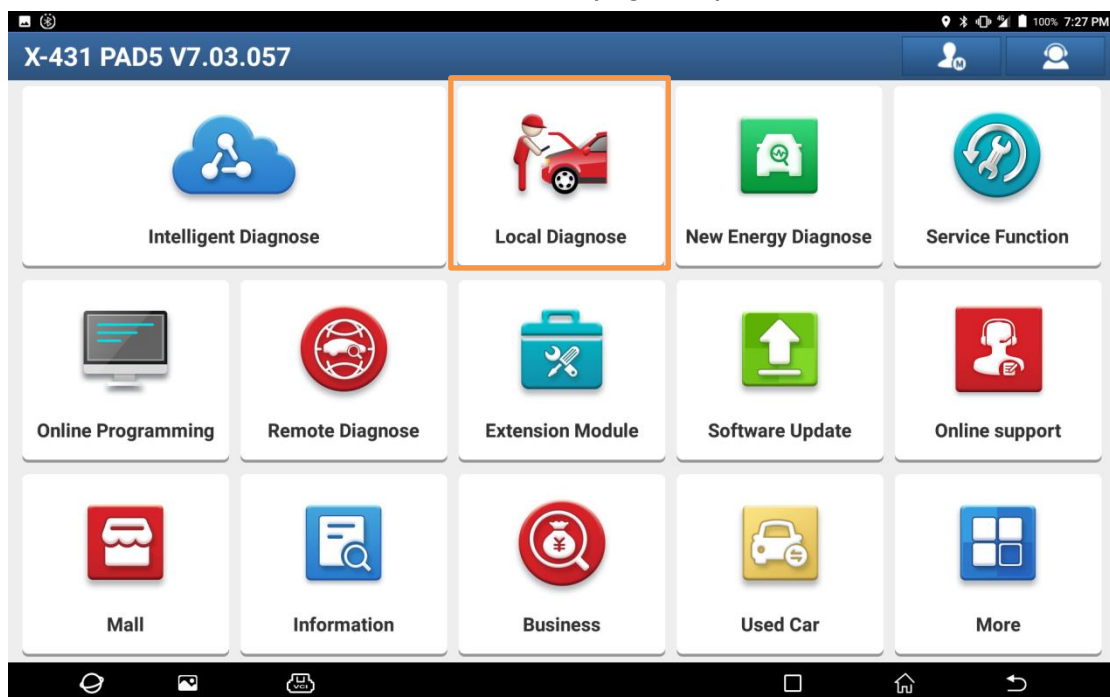


Figure 1



Figure 2

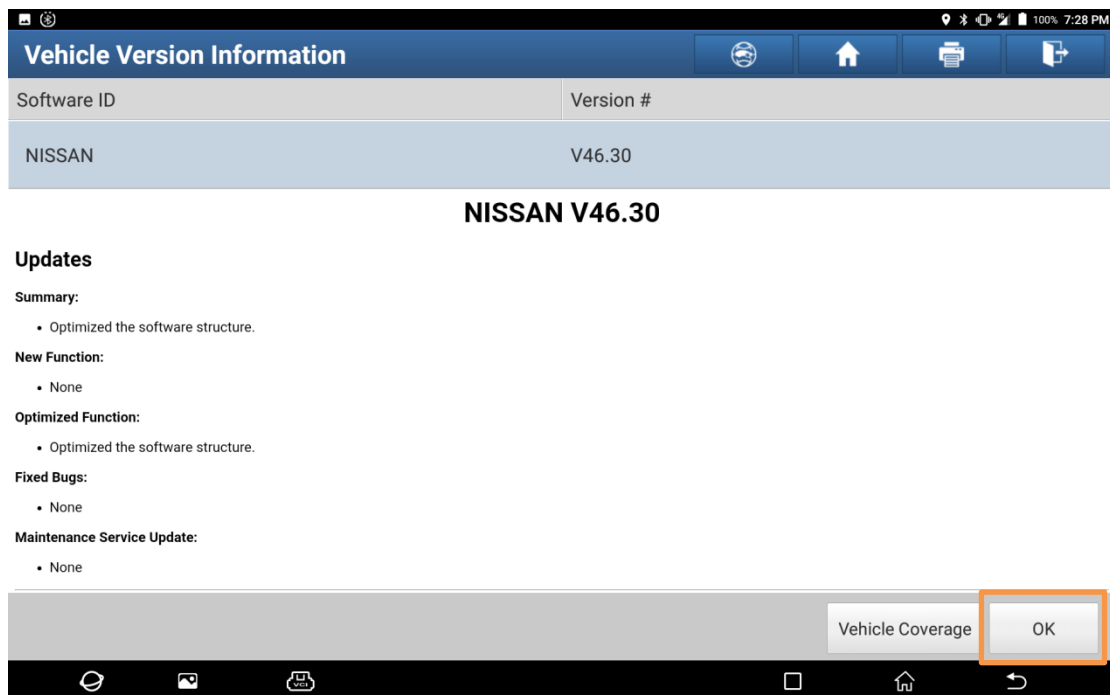


Figure 3

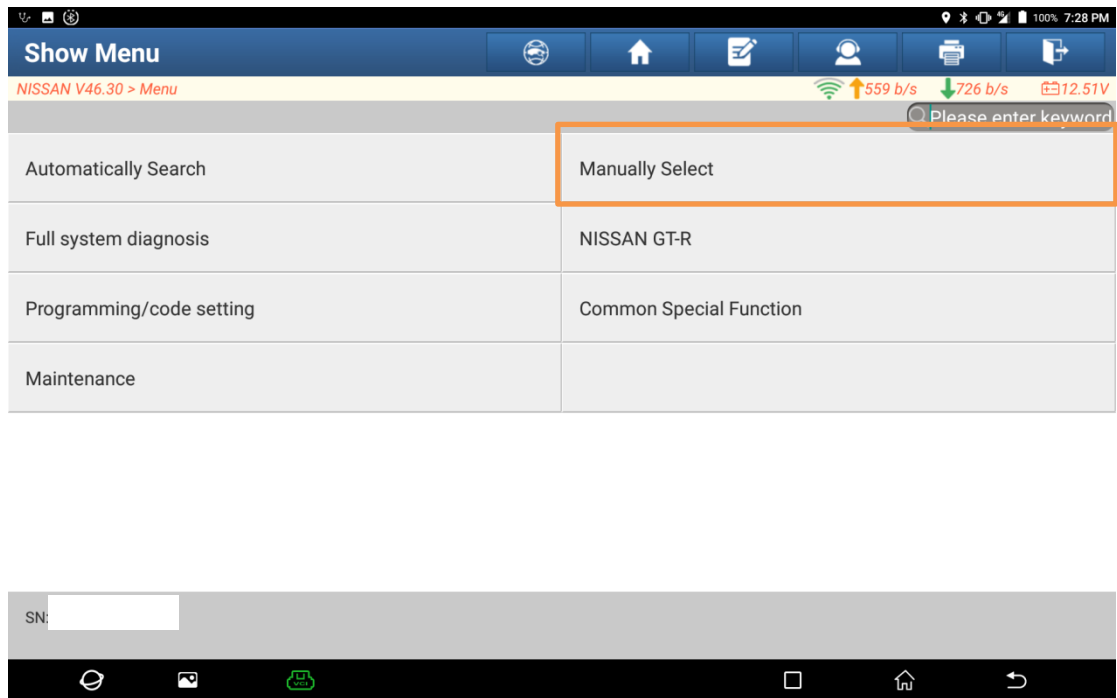


Figure 4

- Click [Manually Select], and choose [Middle and Near East] > [Saudi Arabia] > [NP300 NAVARA] > [D23] > [03/2024] to enter the vehicle model system interface (Figure 5).

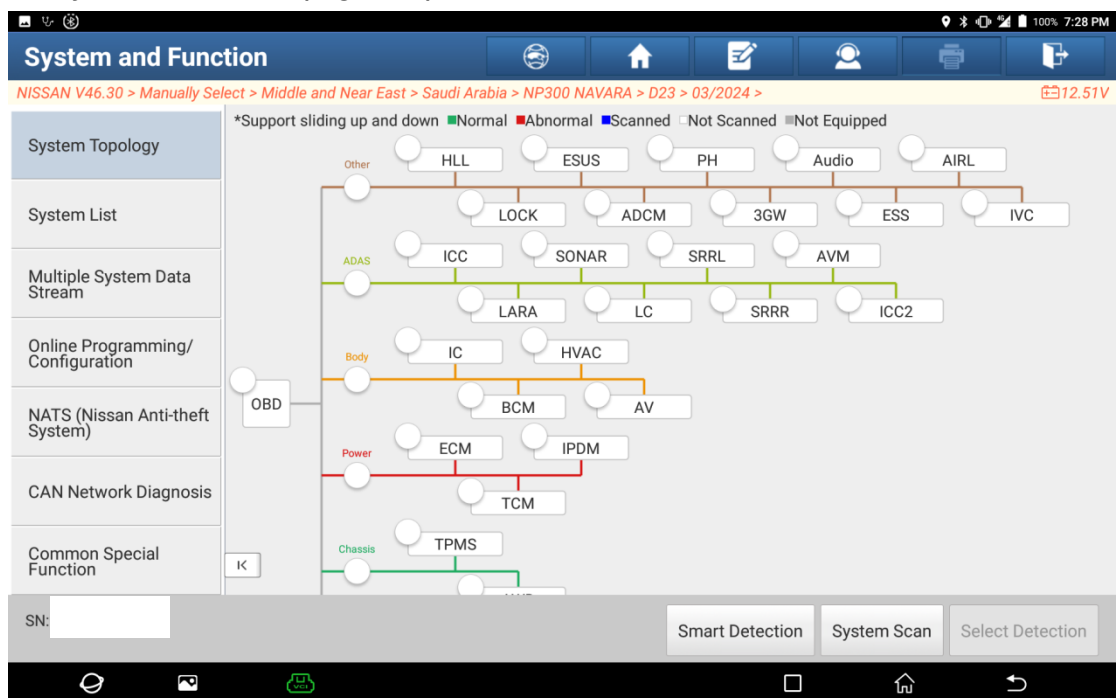


Figure 5

3. On the vehicle model system interface (Figure 6), click [Smart Detection].

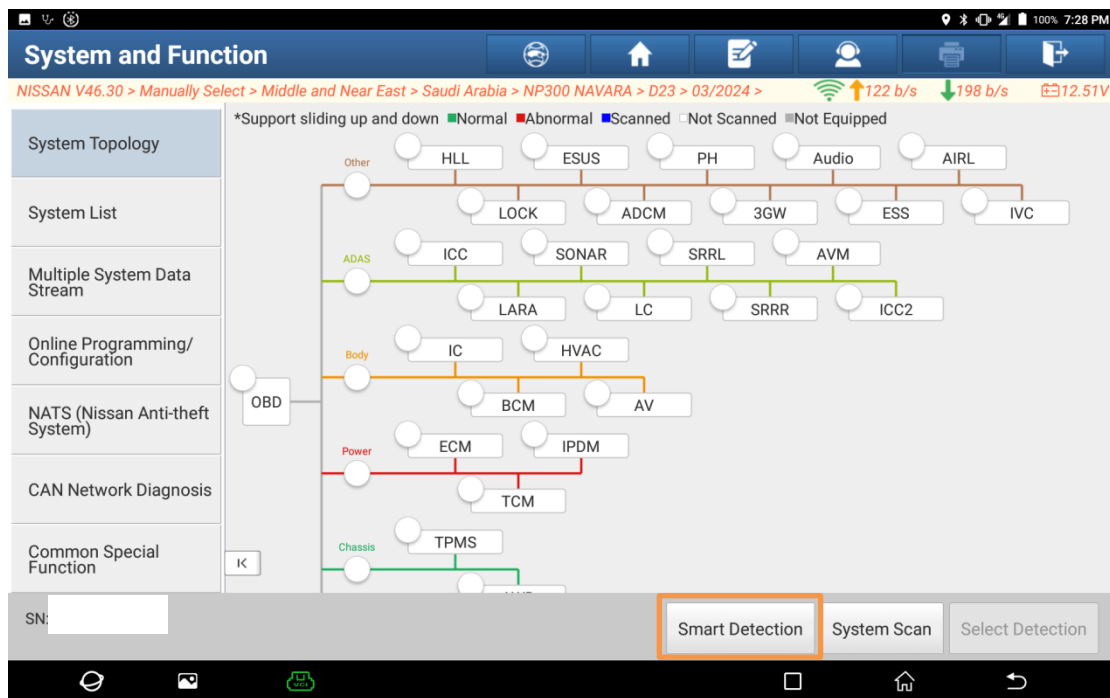


Figure 6

4. After the detection is completed, click [ECM] on the system topology (Figure 7) to display ECM DTC information (Figure 8 and Figure 9). If the diagnostic tool retrieves fault information similar to that shown in Figures 8 and 9, and peripheral issues (such as power supply or CAN communication faults) have been ruled out, it indicates an internal ECU failure, and the ECU must be replaced. Before replacing the ECU, and provided that the original ECU can still communicate normally, you must first execute the "Save Computer Data" function to back up the configuration data. After replacing the ECU, execute the "Write Saved Data" function to restore the original ECU configuration.

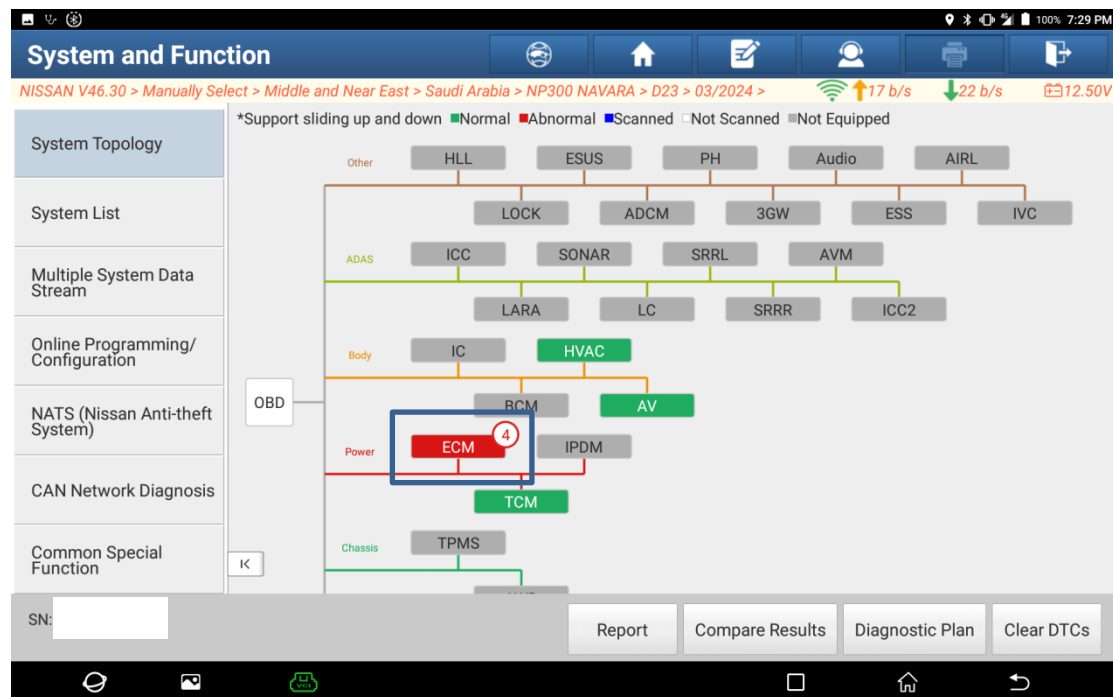


Figure 7

Engine Control Module (ECM)

DTC(s): 4

P0606-04	Computer (C/U)1.DEF	CRNT	Code Search
P060A-64	Computer (C/U)1.DEF	CRNT	Code Search

ENTER

Figure 8

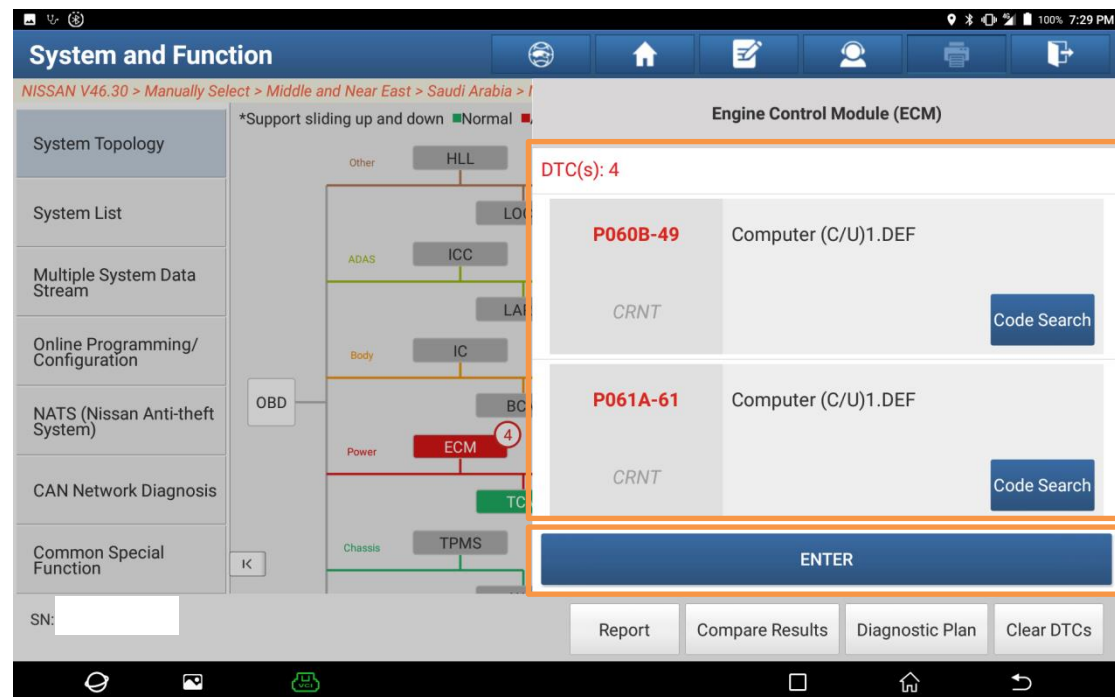


Figure 9

5. Click "ENTER" to enter the ECM menu interface (Figure 10).

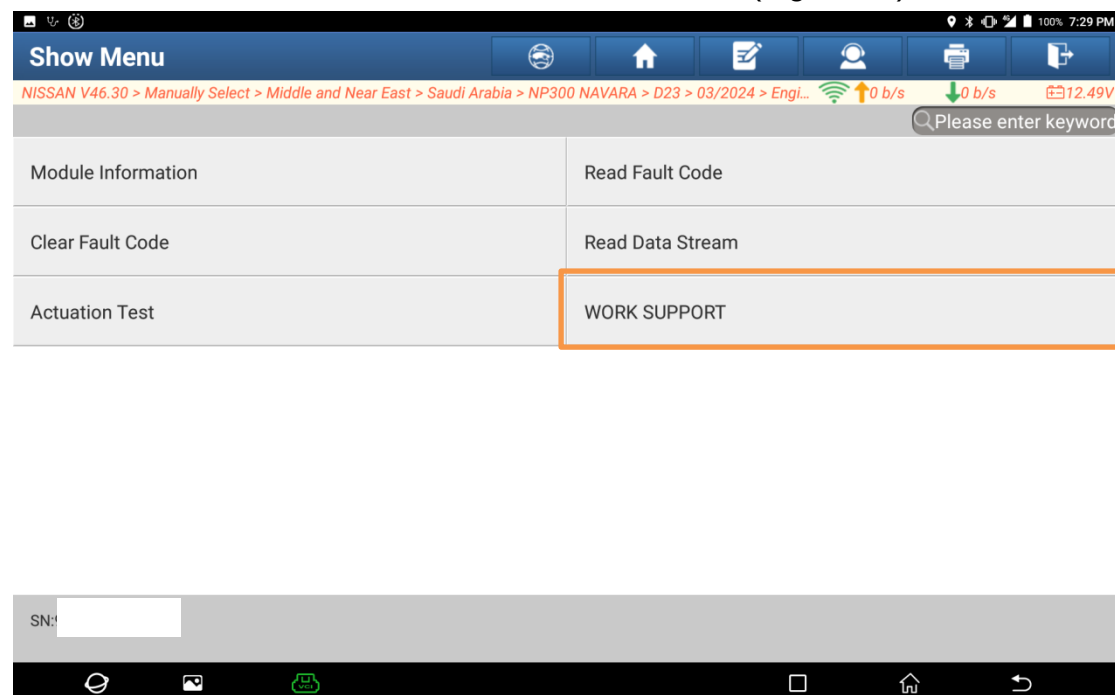


Figure 10

6. Choose [WORK SUPPORT] to enter the [WORK SUPPORT] menu interface (Figure 11).

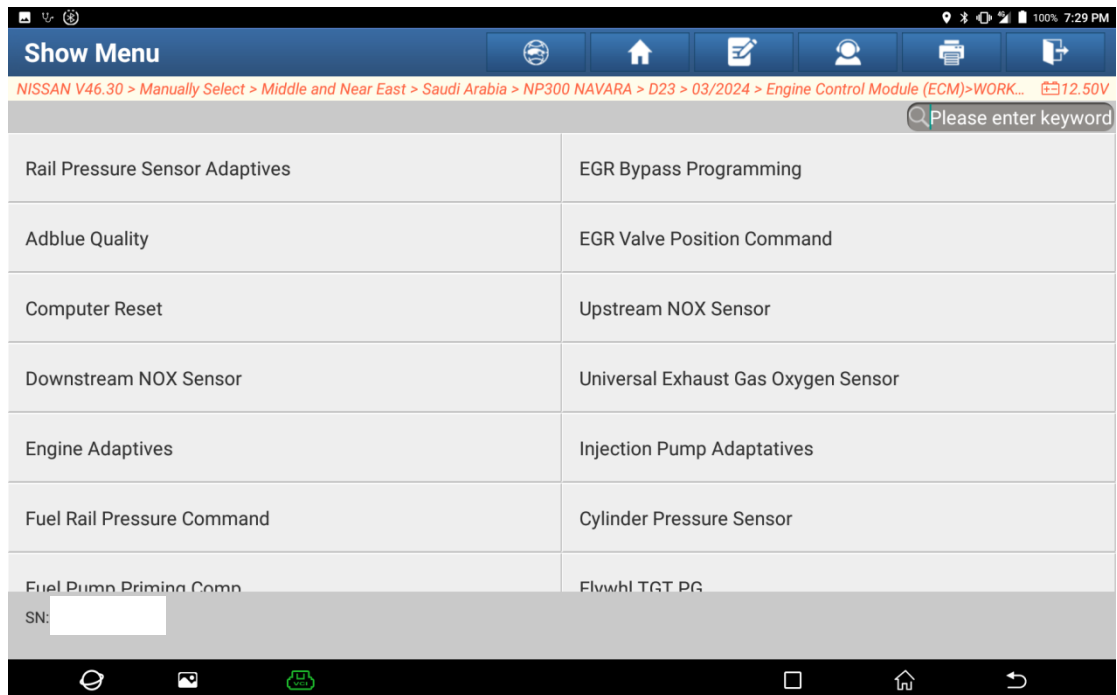


Figure 11

7. On the [WORK SUPPORT] menu interface, choose [Save Computer Data] (Figure 12).

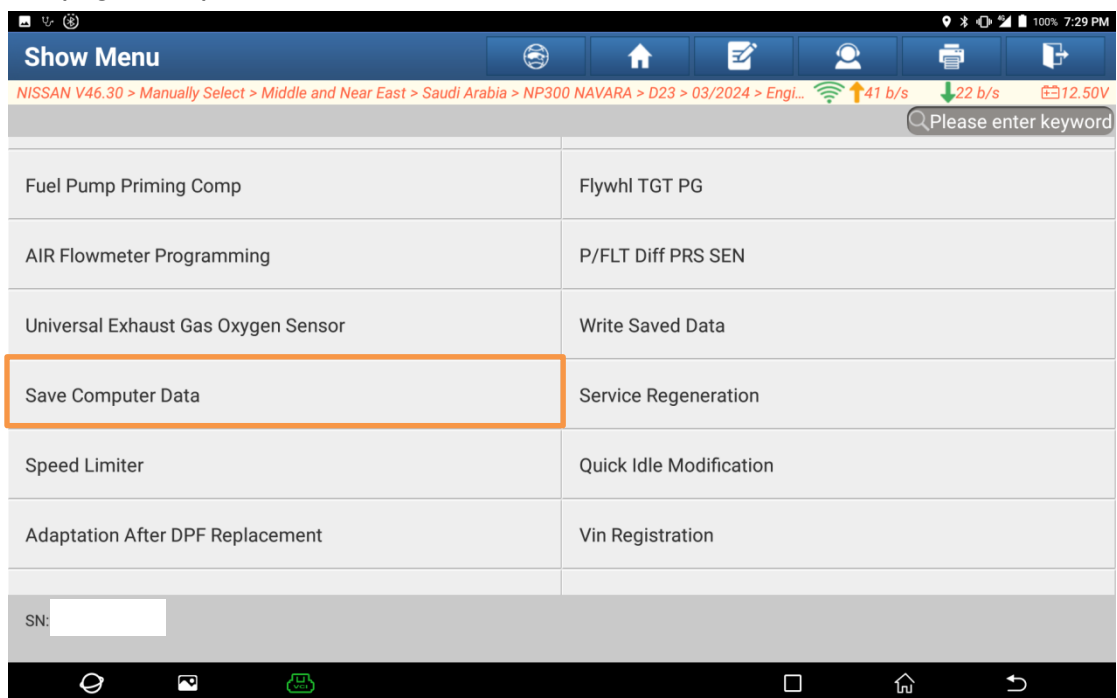


Figure 12

8. Read the pop-up prompts carefully (Figure 13). Ensure that the ignition switch is turned on and the engine is stopped. Click "OK" to enter the interface shown in Figure 14.

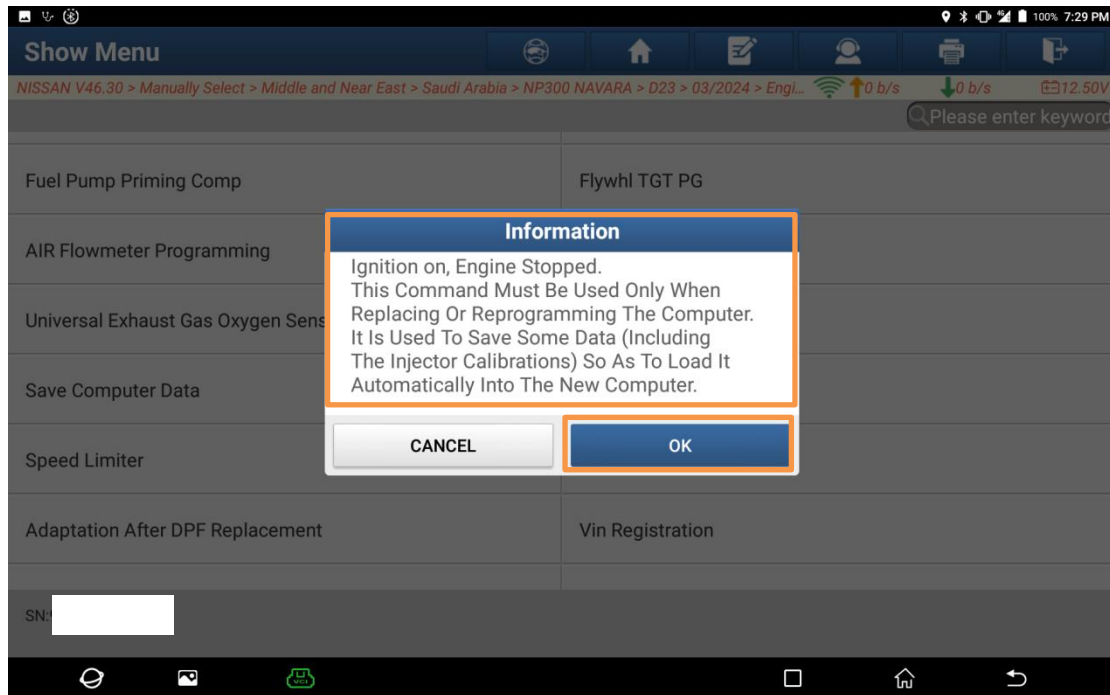


Figure 13

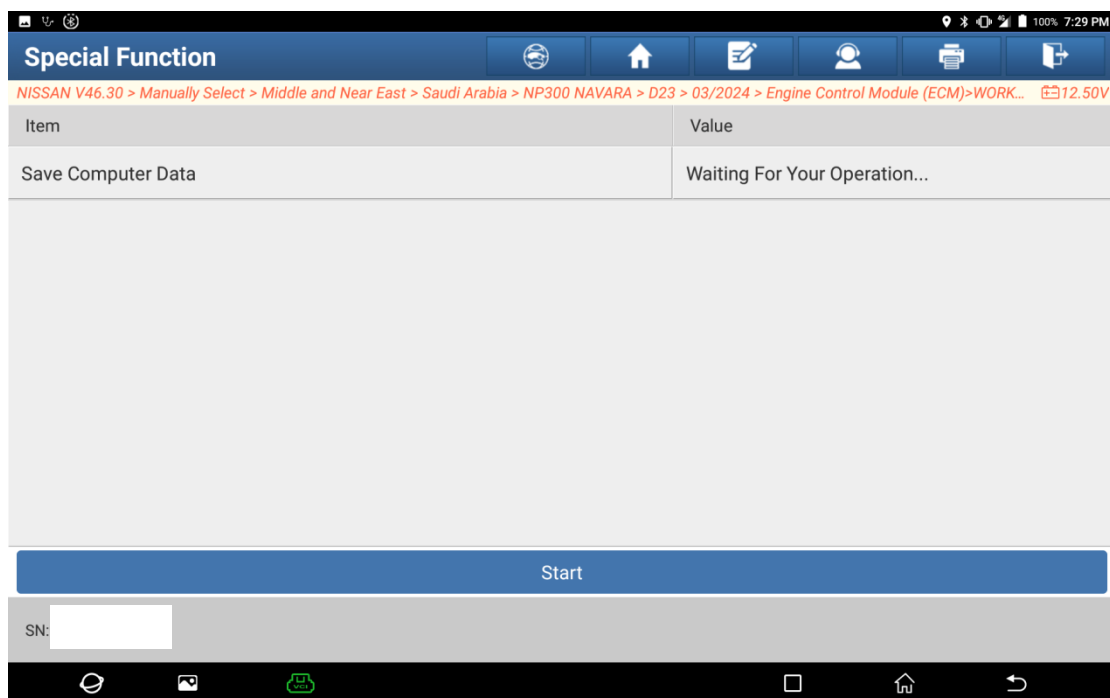


Figure 14

9. Click the "Start" button (Figure 15) to execute the "Save Computer Data" function.

Note: This function may take a long time to complete. Do not interrupt the program or disconnect the diagnostic tool while the function is running.

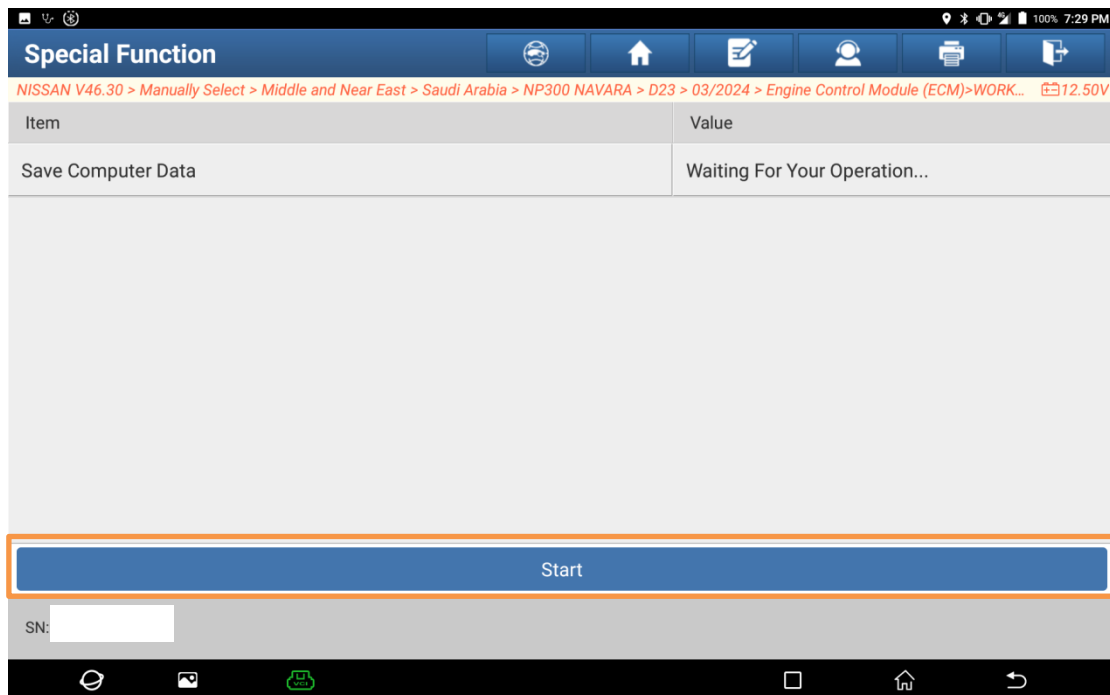


Figure 15

10. After a period of time, the diagnostic tool will display the function completion interface shown in Figure 16. Click the "Stop" button to return to the [WORK SUPPORT] menu interface (Figure 17).

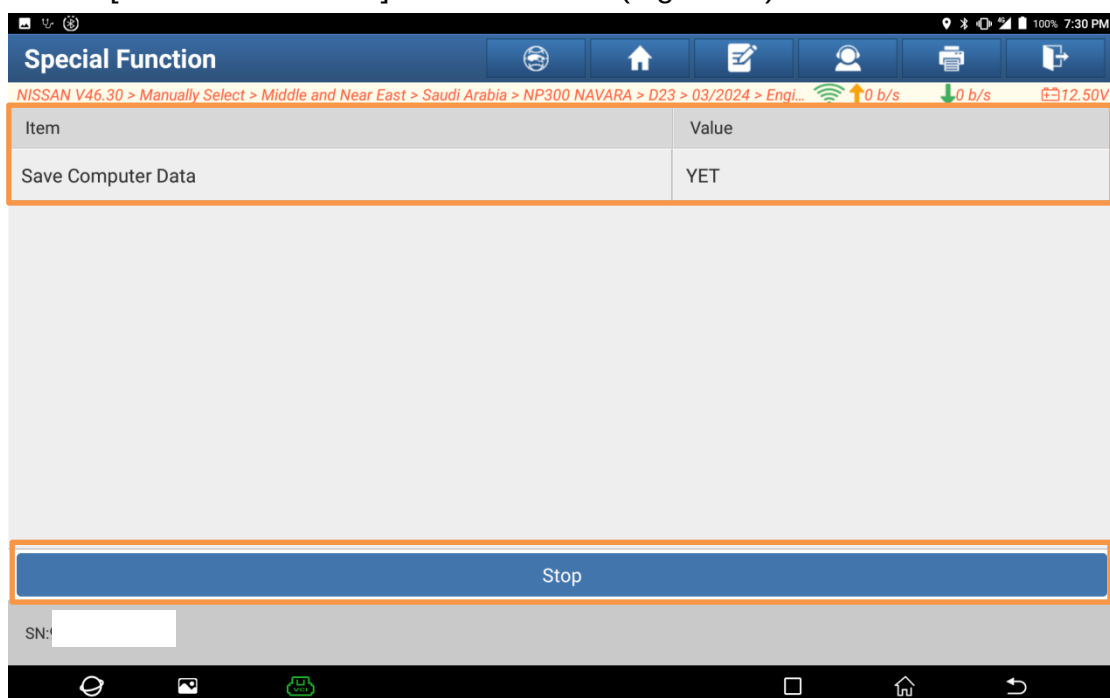


Figure 16

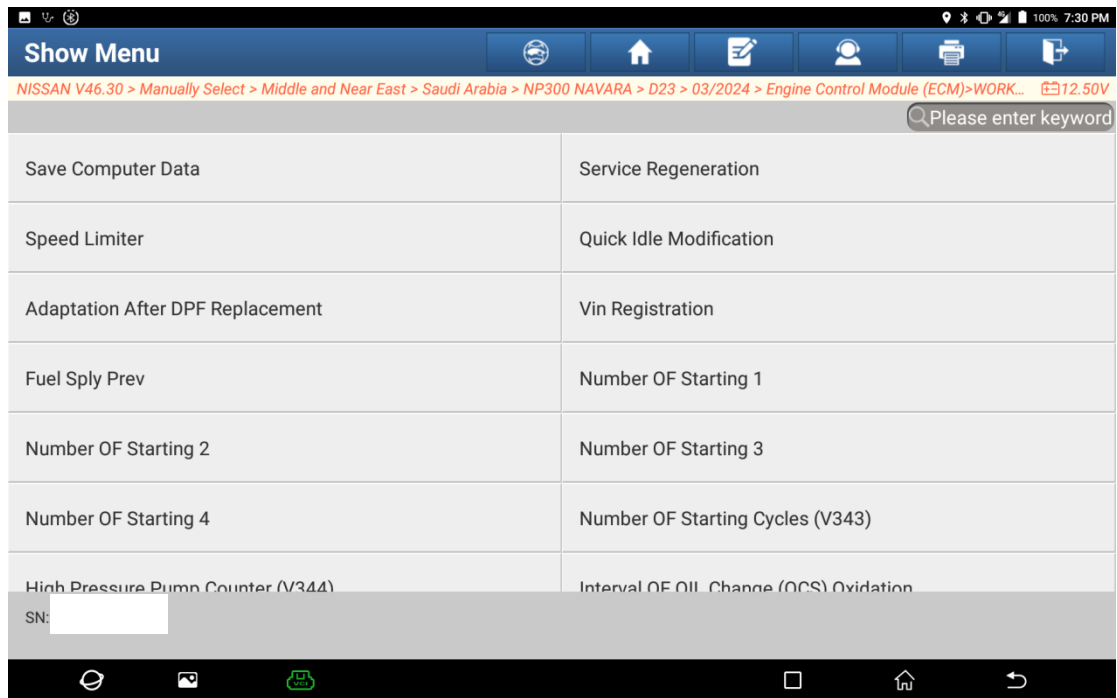


Figure 17

11. On the [WORK SUPPORT] menu interface, choose [Write Saved Data] (Figure 18).

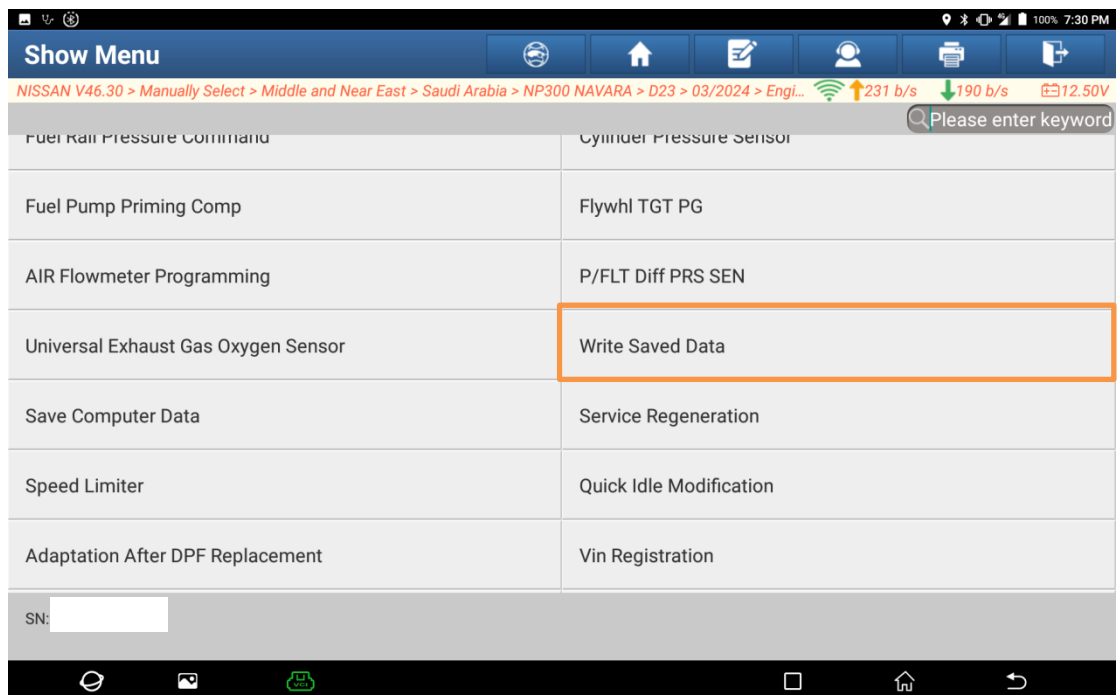


Figure 18

12. Read the pop-up prompts carefully (Figure 19). Ensure that the ignition switch is turned on and the engine is stopped. Click "OK" to enter the interface shown in Figure 20.

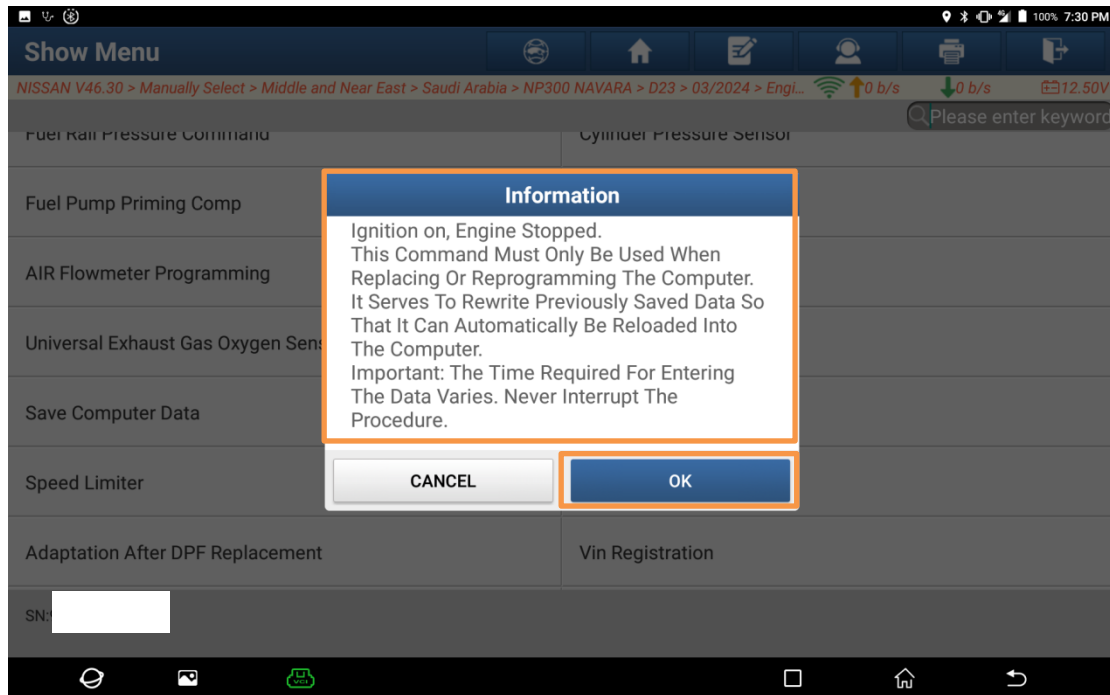


Figure 19

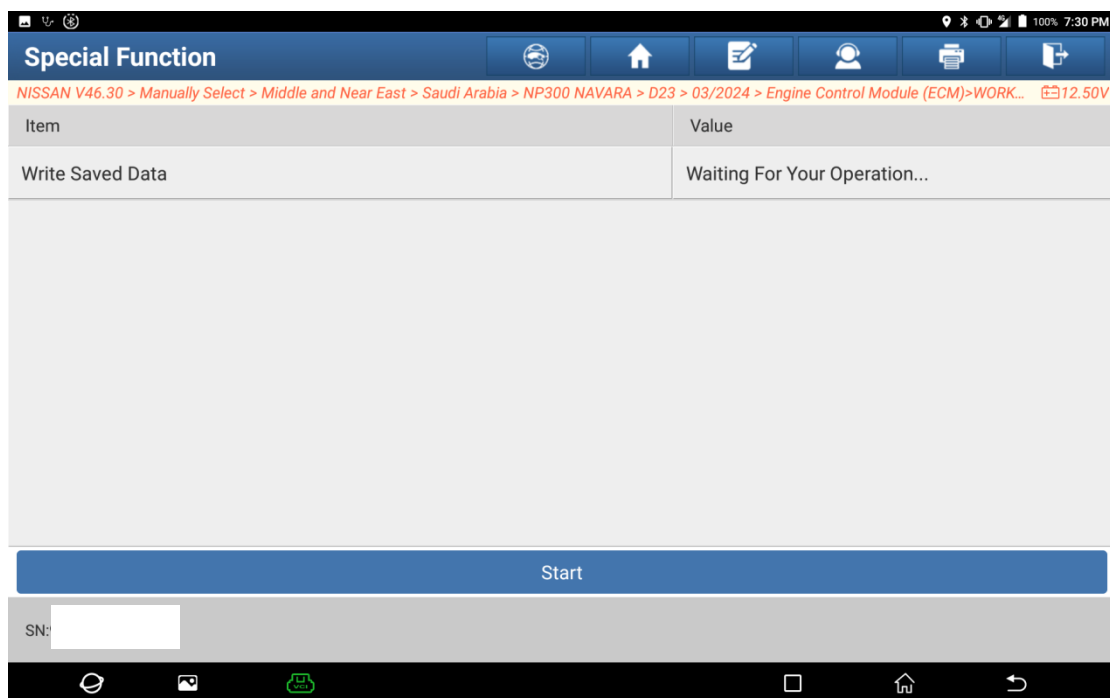


Figure 20

13. Click the "Start" button (Figure 21) to write configuration data.

Note: The time required to write different configuration data varies. This function may take a long time to complete. Do not interrupt the program or disconnect the diagnostic tool while the function is running.

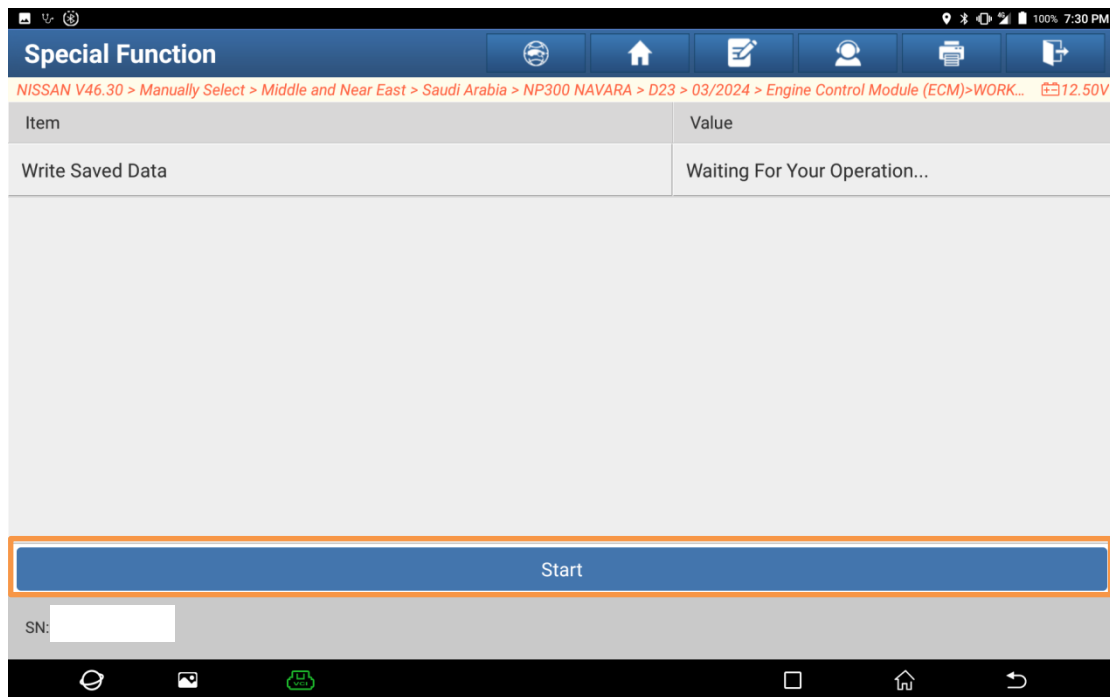


Figure 21

14. After a period of time, the diagnostic tool will display the function completion interface shown in Figure 22. Click the "Stop" button to return to the [WORK SUPPORT] menu interface (Figure 23).

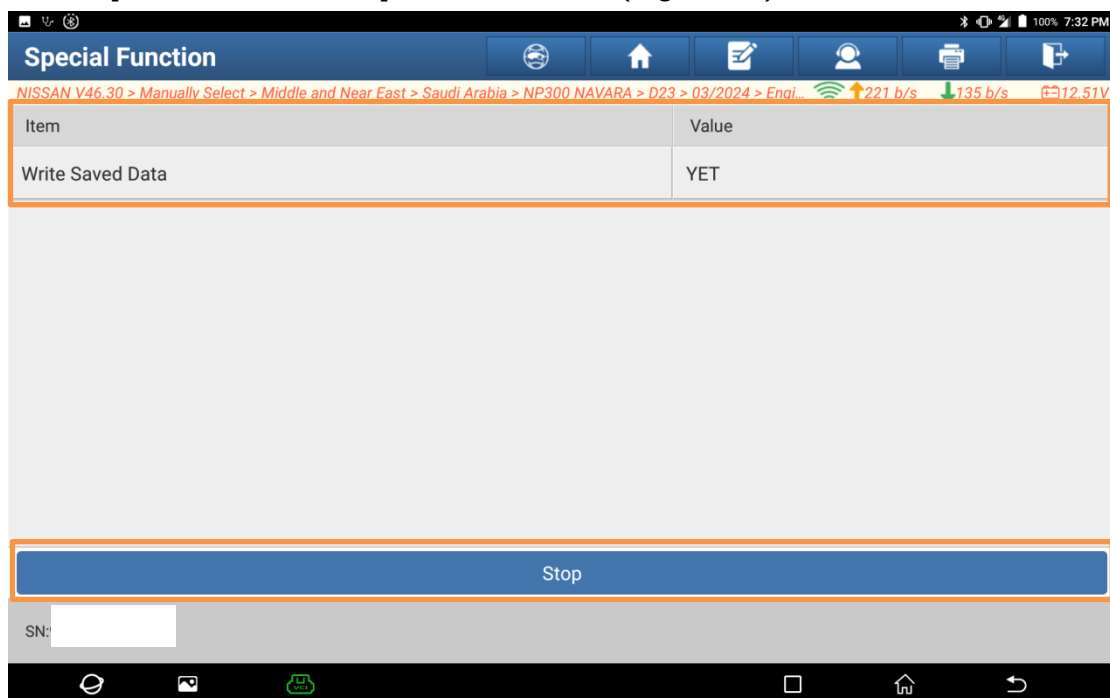


Figure 22

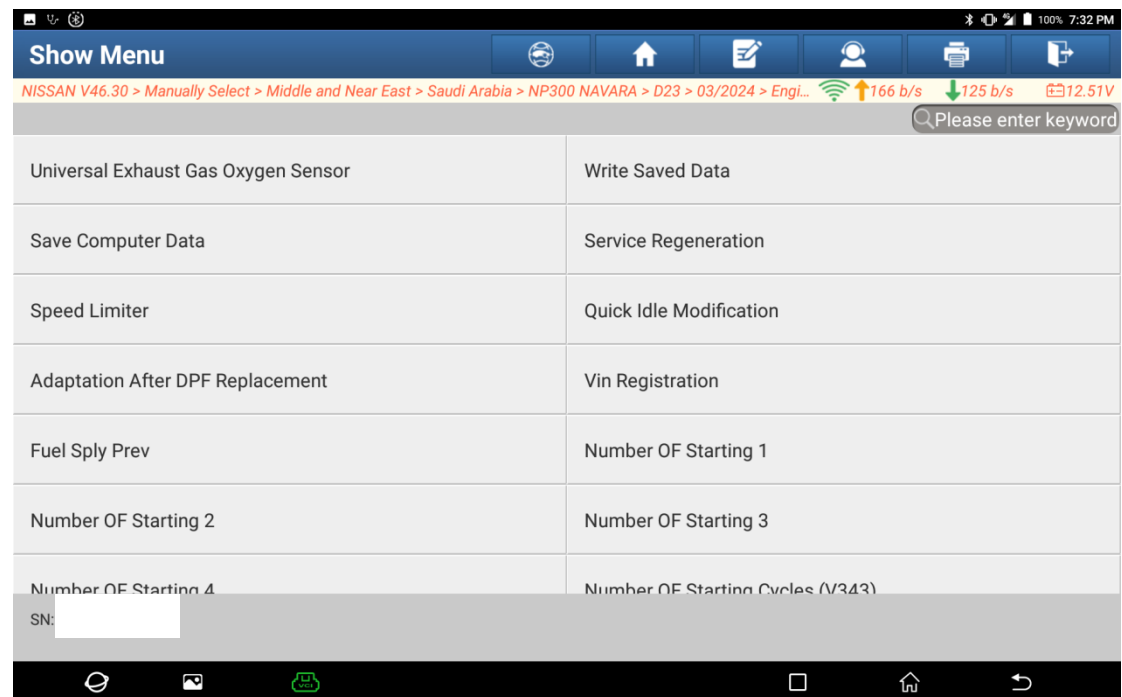


Figure 23

15. Exit to the ECM menu interface and choose [Clear Fault Code] (Figure 24). Click "Yes" and then click "OK" to clear the DTC information.

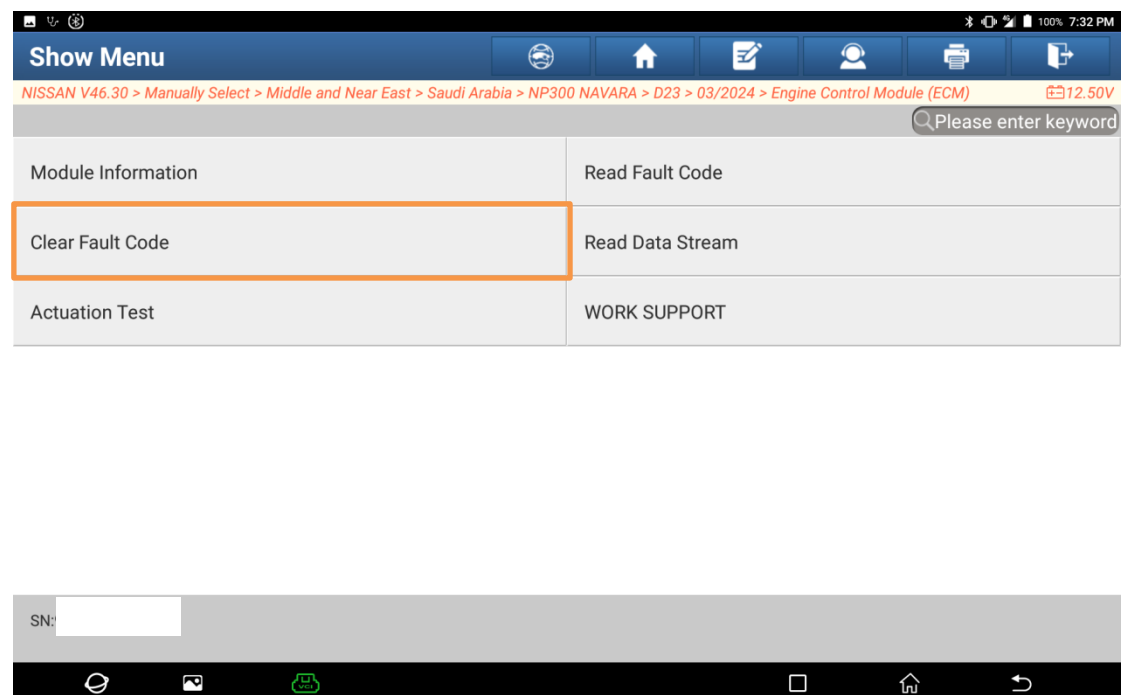


Figure 24

16. On the ECM menu interface, choose [Read Fault Code] (Figure 25) to read the ECM DTC information. No DTC is displayed (Figure 26), indicating that the functions are executed successfully. The "Save Computer Data" and "Write Saved Data" special function operations are now completed.

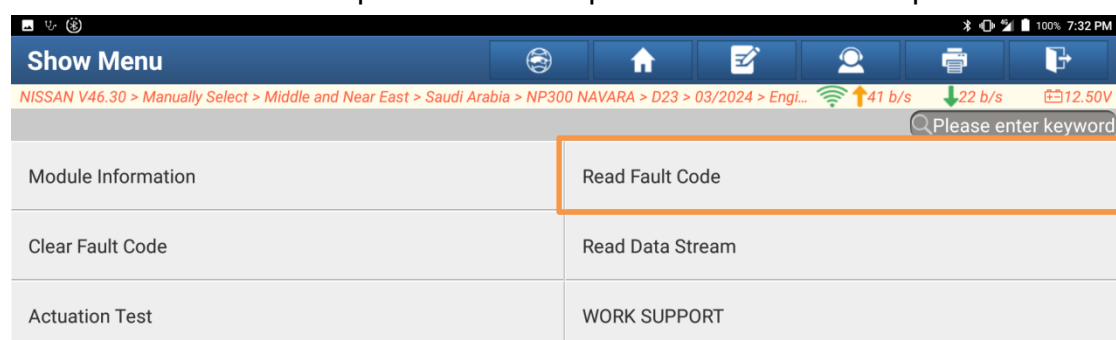
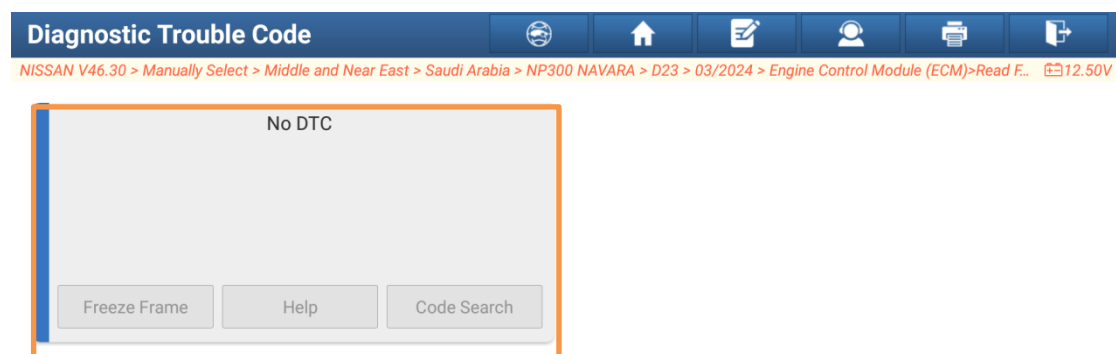


Figure 25



Statement:

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