Nissan ALTIMA L34 VIN Registration

Tested Model: Nissan ALTIMA L34 2024

Function Description:

1. This function uses a diagnostic tool to write the VIN (Vehicle Identification Number) into a designated ECU (Electronic Control Unit). It ensures the VIN stored in the control unit matches the vehicle's actual VIN, thereby registering the control unit's vehicle identity and meeting requirements for vehicle identification and related system operations.
2. When replacing the control unit with a new one, when the control unit's VIN information is lost, or when there is a VIN mismatch, this function should be performed in order to configure the control unit with the correct vehicle identity information.
3. This function can be performed to clear VIN-related fault status (such as "VIN not programmed" or "ID mismatch" codes) after ruling out other issues like control unit power supply or communication faults.

Supported Equipment: Launch PRO or PAD series comprehensive diagnostic equipment

Attention:

1. Before performing the VIN registration function, verify that the VIN to be written matches the vehicle's actual VIN exactly. Ensure that the vehicle is in P gear, the ignition switch is turned on, and the battery voltage is normal and stable. Connecting an external regulated power supply is recommended to prevent VIN registration failure or control unit data anomalies caused by voltage fluctuations.
2. Do not turn off the ignition, disconnect the diagnostic tool, cut off vehicle power, or perform other actions that might interfere with control unit communication while the function is running; doing so could result in registration failure or control unit data anomalies.
3. After VIN registration is completed, read the VIN information from the control unit again to confirm it is written correctly and check for any VIN-related fault codes.
4. If VIN registration fails, do not repeatedly attempt the write operation. Instead, check for faults in the control unit's power supply, communication, and related wiring, and resolve any issues before

attempting the function again.

Procedure:

1. On an X-431 PRO3S+, 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).

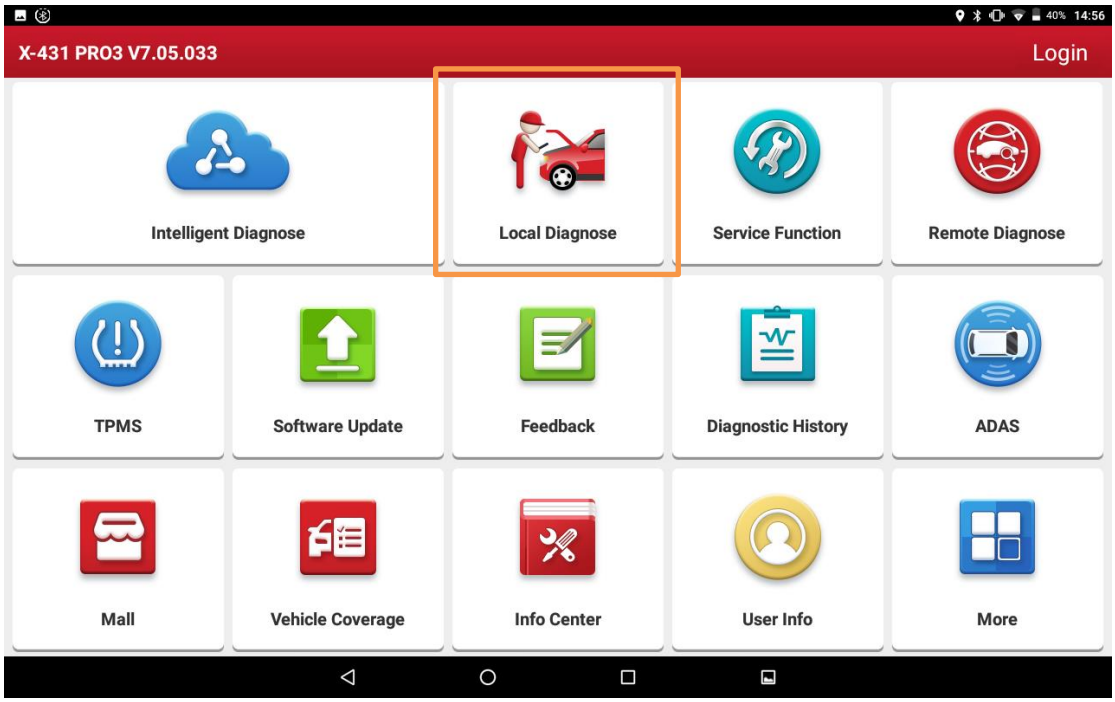


Figure 1

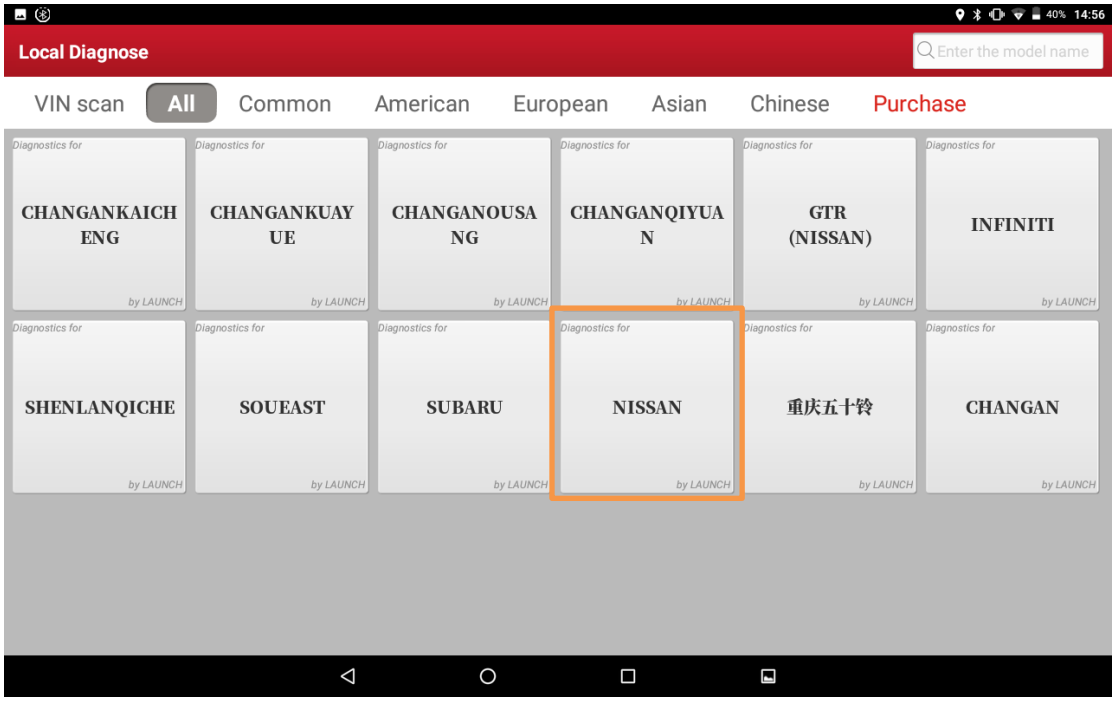


Figure 2

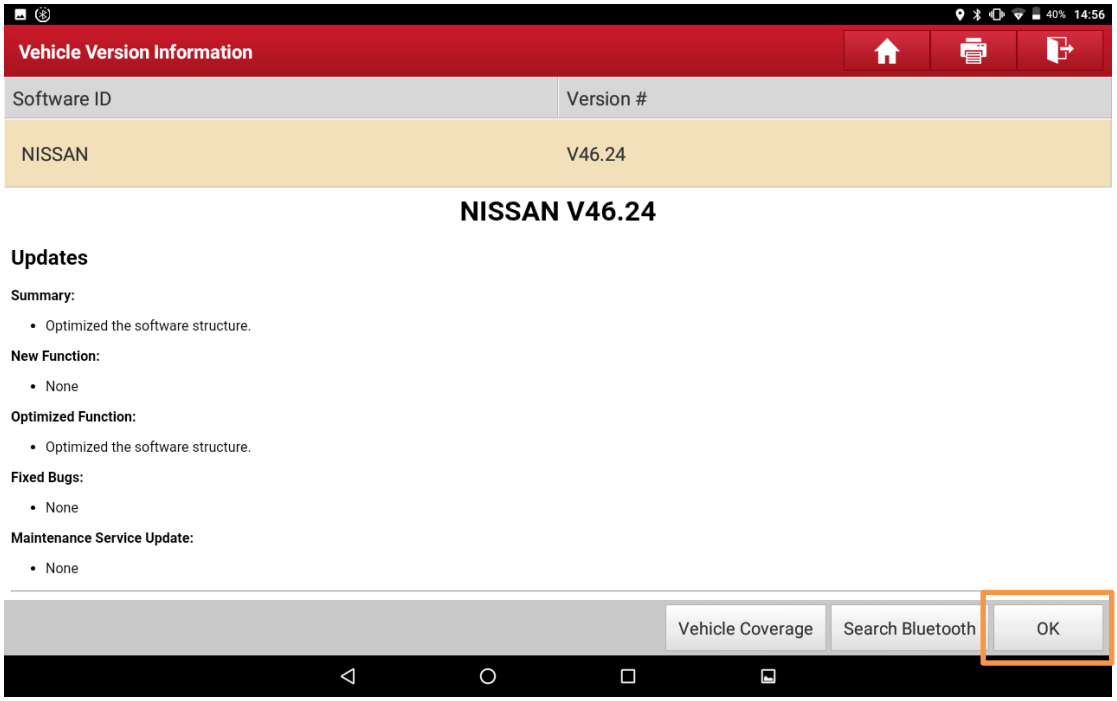


Figure 3

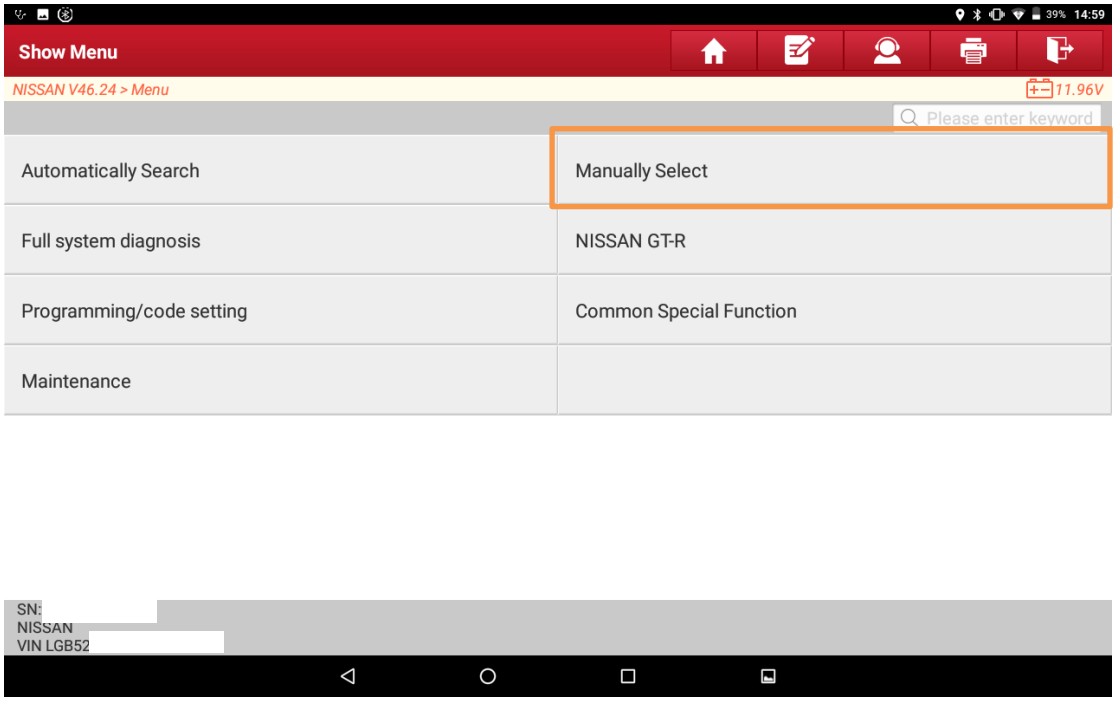


Figure 4

2. Click [Manually Select], and choose [Middle and Near East] > [Abu Dhabi] > [ALTIMA sedan] > [L34] > [09/2024] to enter the vehicle model system interface (Figure 5).

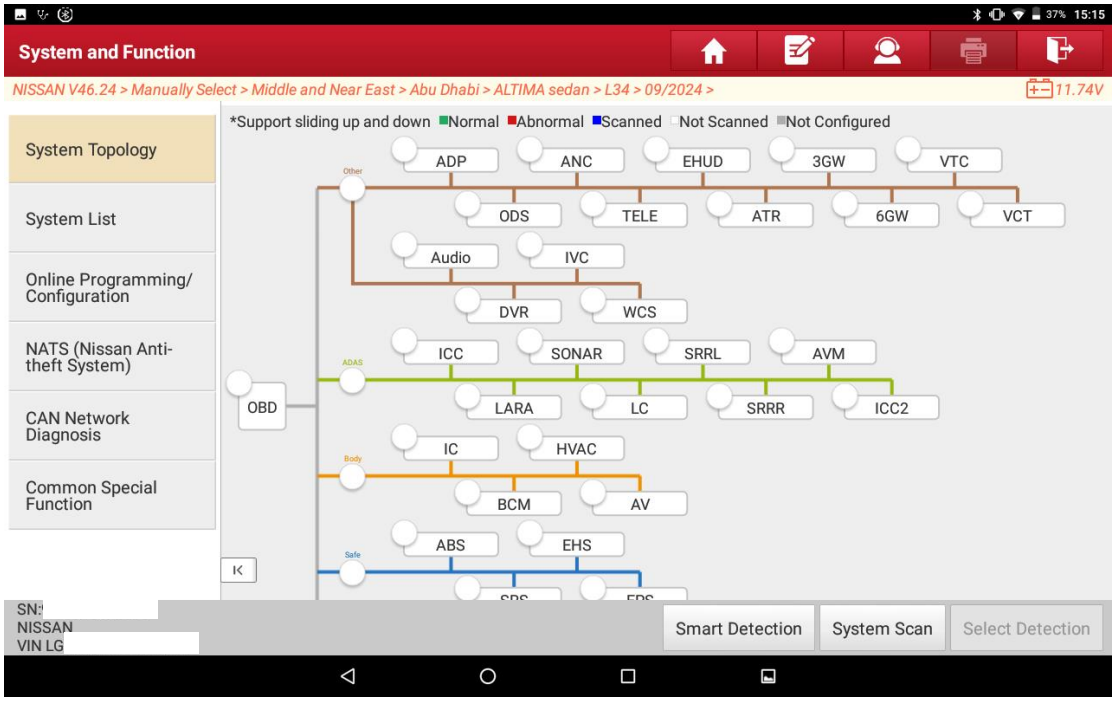


Figure 5

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

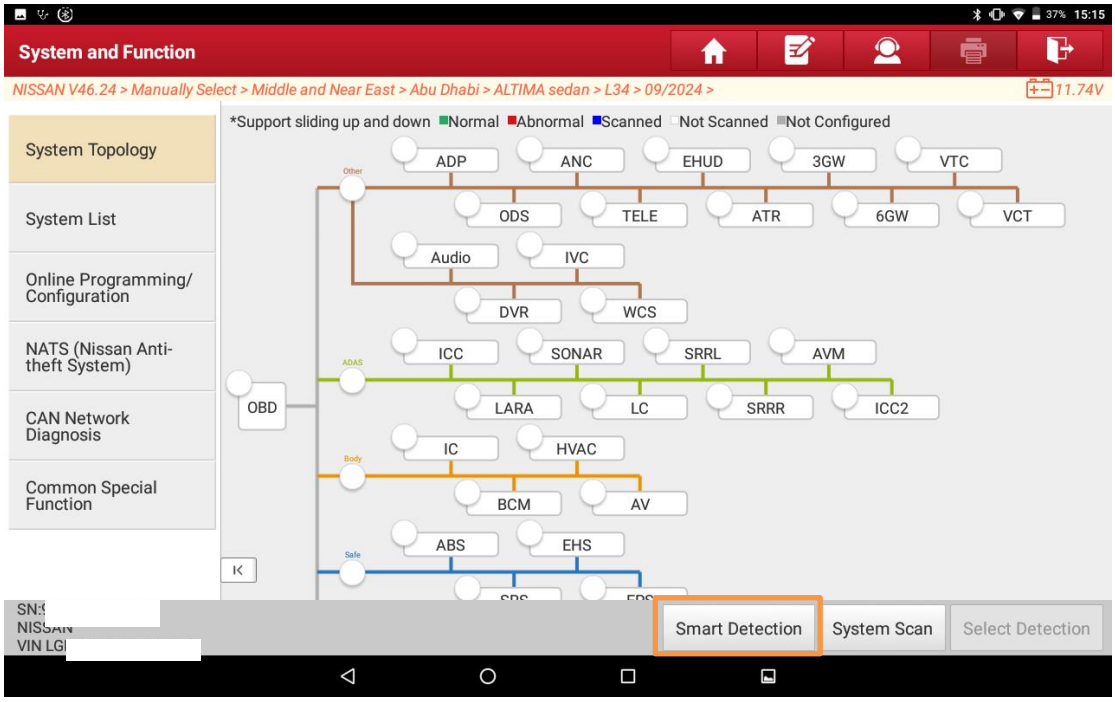


Figure 6

4. After the detection is completed, click [ECM] on the system topology (Figure 7) to display ECM DTC information (Figure 8). If a new control unit has been installed, or if the diagnostic tool reads vehicle identity-related DTCs (such as P1611: ID mismatch between IMMU and ECM), the vehicle identity information stored in the control unit may be incorrect. After ruling out faults related to the control unit's power supply, communication, and wiring, you must perform the VIN registration function to rewrite the VIN information. Click "ENTER" (Figure 8) to enter the ECM menu interface.

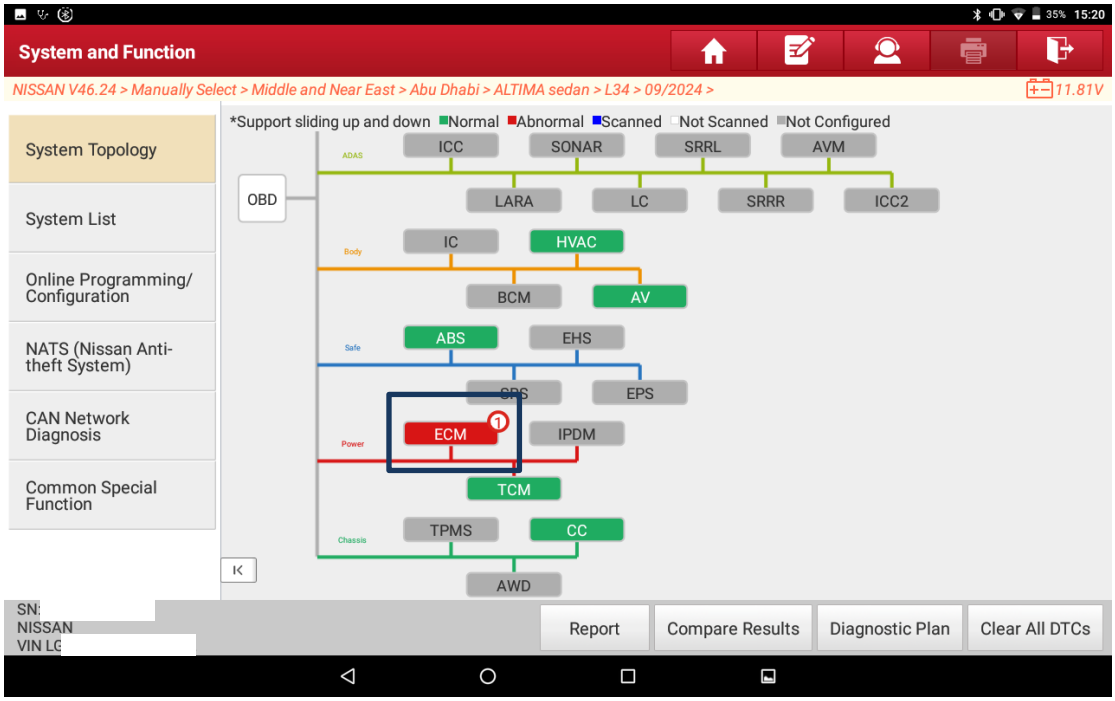


Figure 7

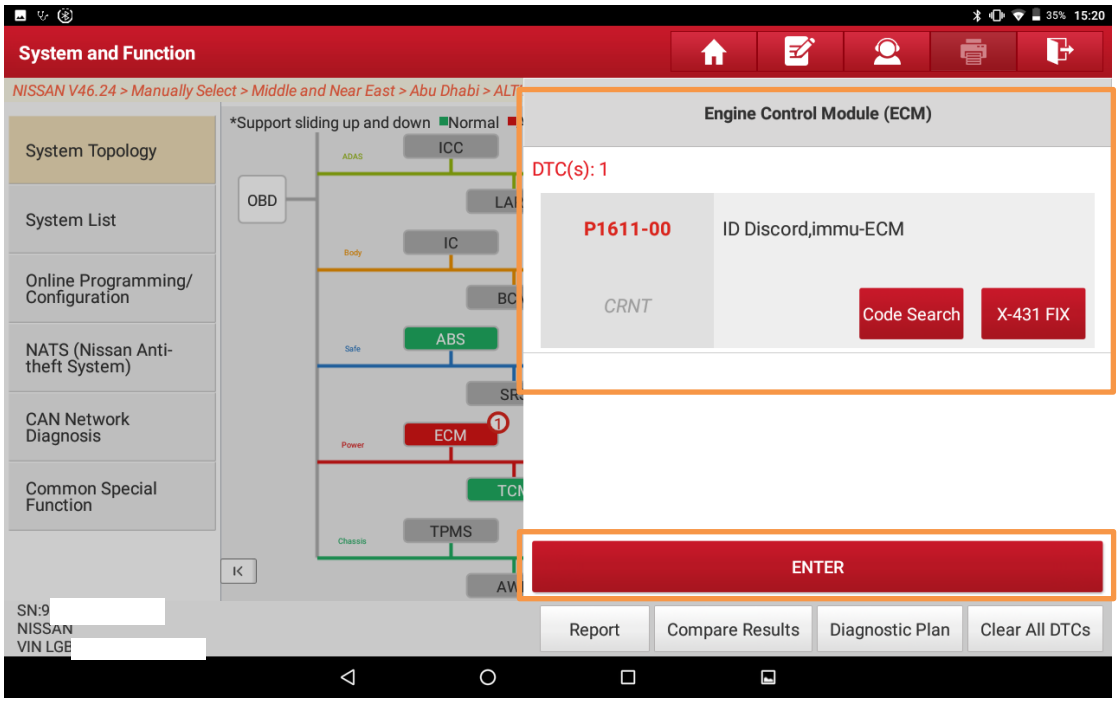


Figure 8

5. On the ECM menu interface, choose [WORK SUPPORT] to enter the [WORK SUPPORT] menu interface (Figure 9).

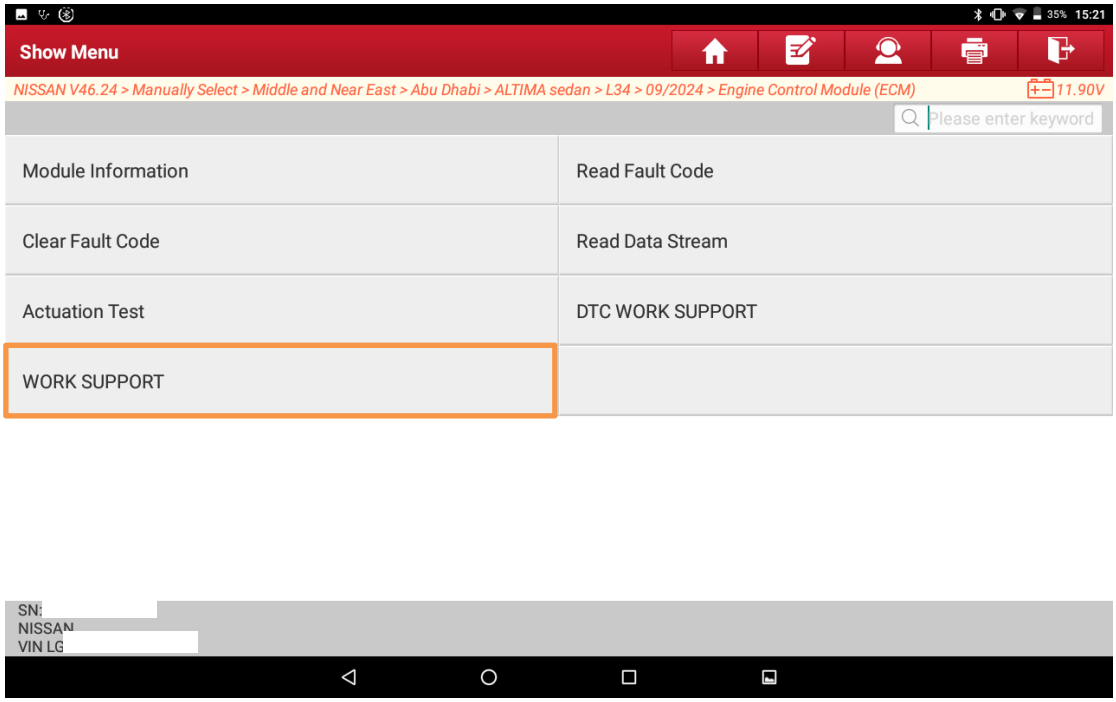


Figure 9

6. On the [WORK SUPPORT] menu interface, choose [VIN Registration] (Figure 10).

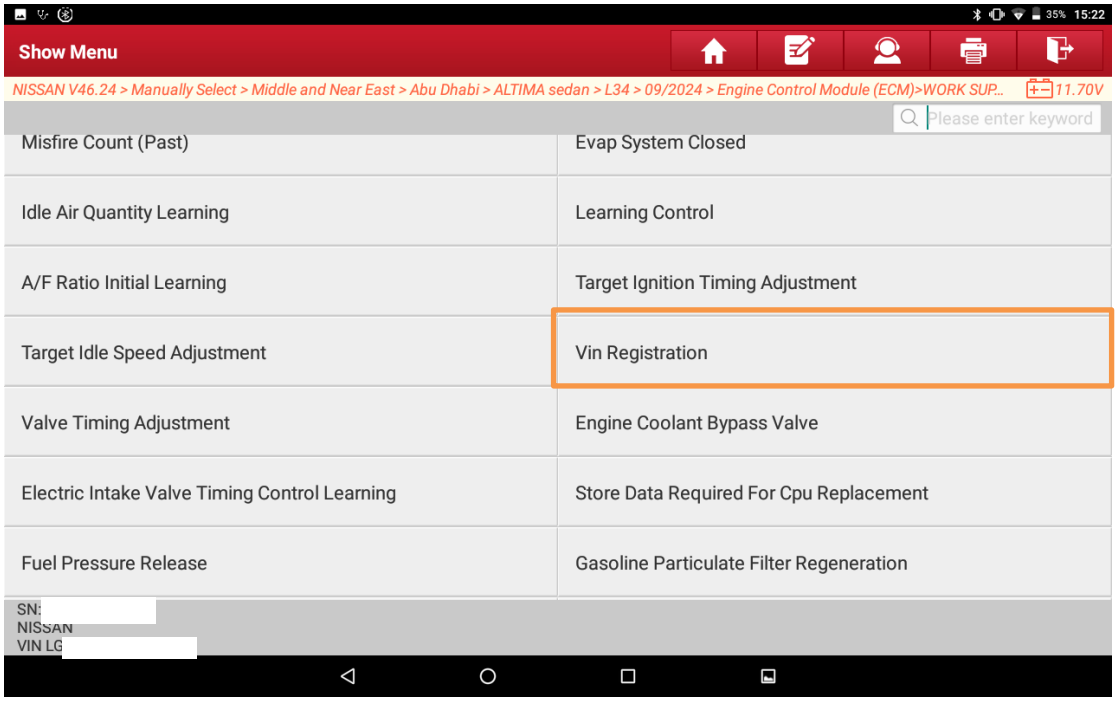


Figure 10

7. Read the pop-up prompts carefully (Figure 11). Locate the vehicle identification plate according to the service manual and check the vehicle's actual VIN. Click "OK" to enter the VIN registration function interface.

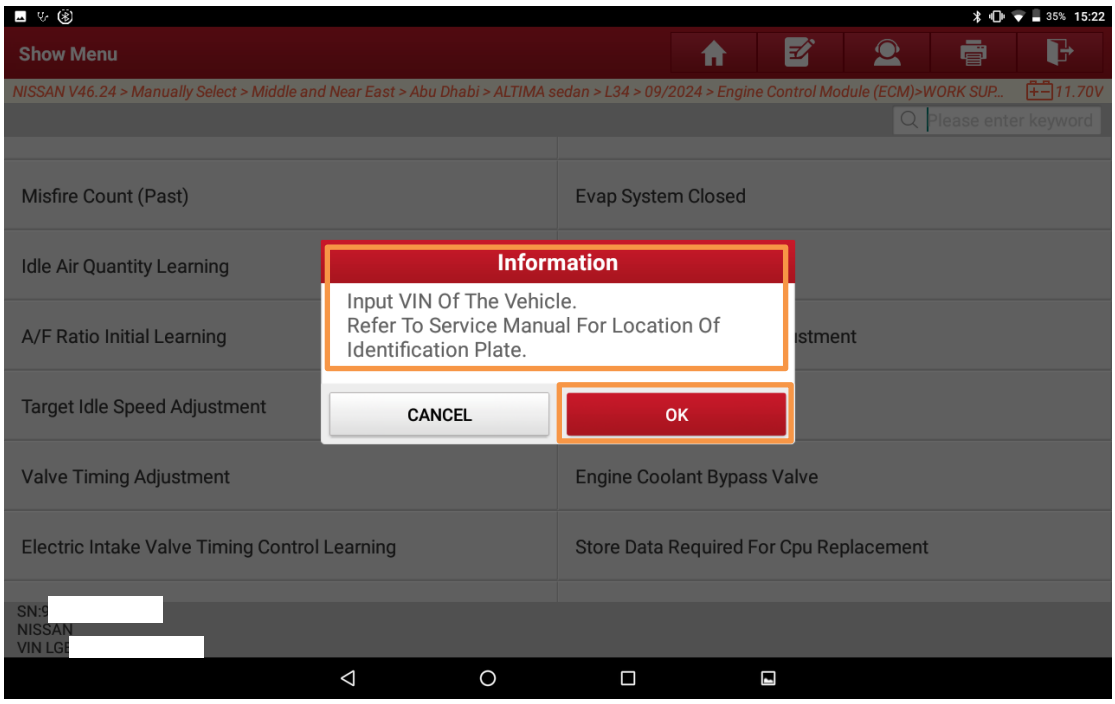


Figure 11

8. As shown in Figure 12, the vehicle's original VIN is displayed on the interface. Click the [VIN] item to enter the interface shown in Figure 13.

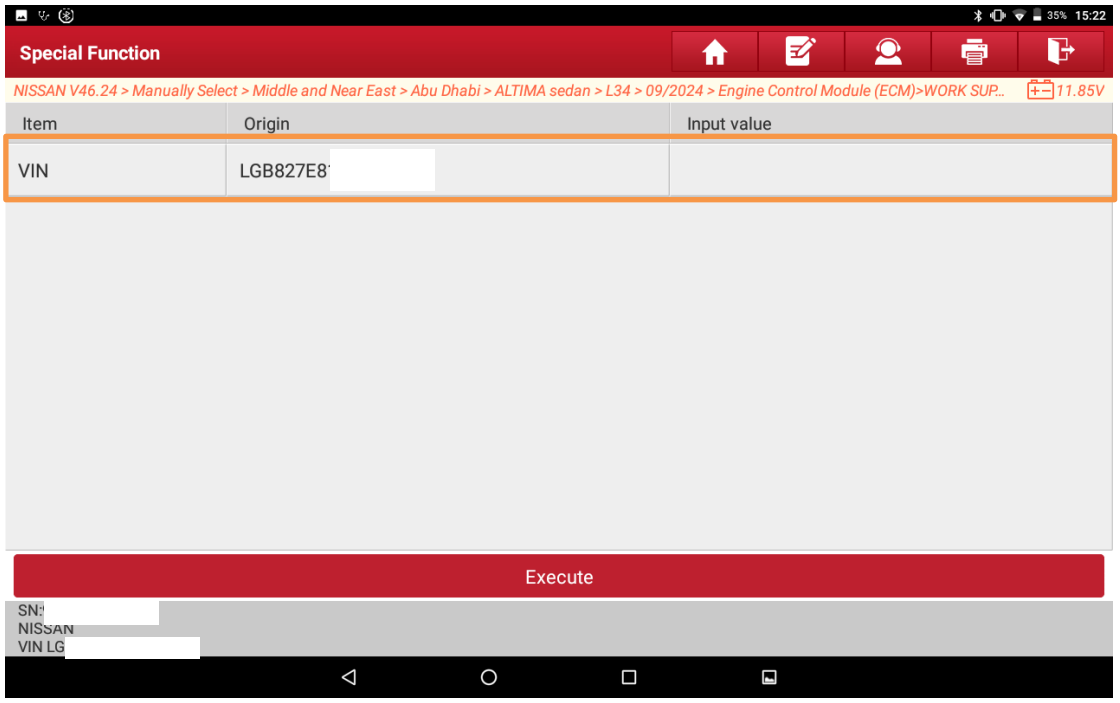


Figure 12

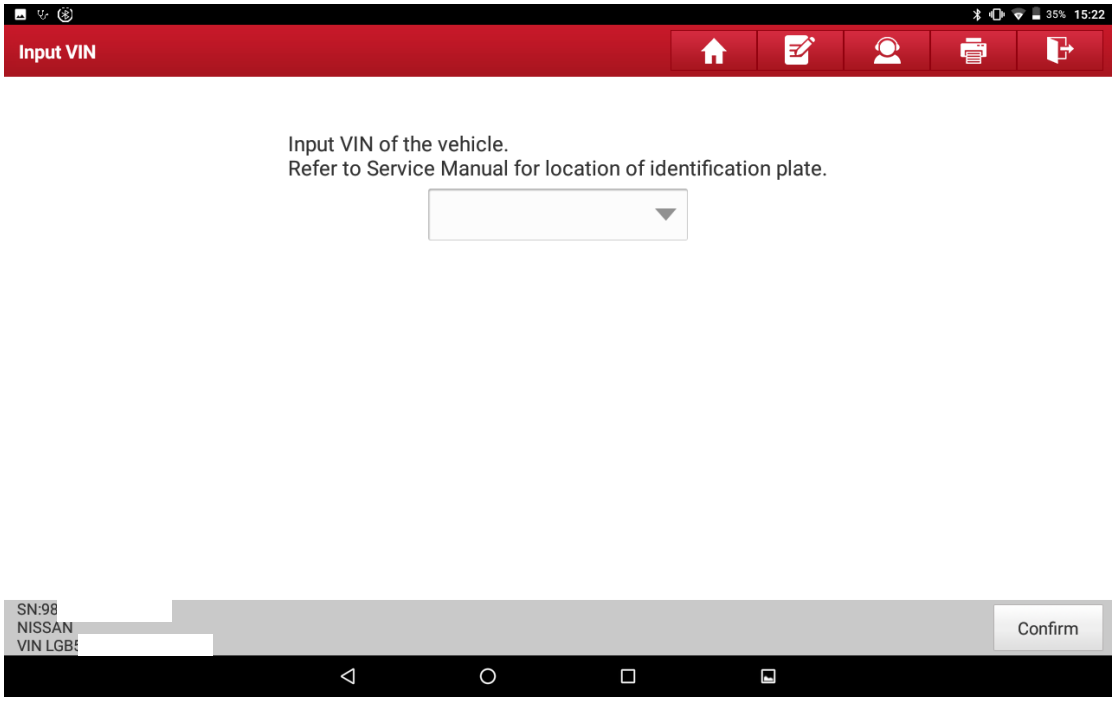


Figure 13

9. Click the input box and enter the VIN. After entering the information, confirm that it matches the vehicle's actual VIN. Once confirmed, click "Confirm" (Figure 14).

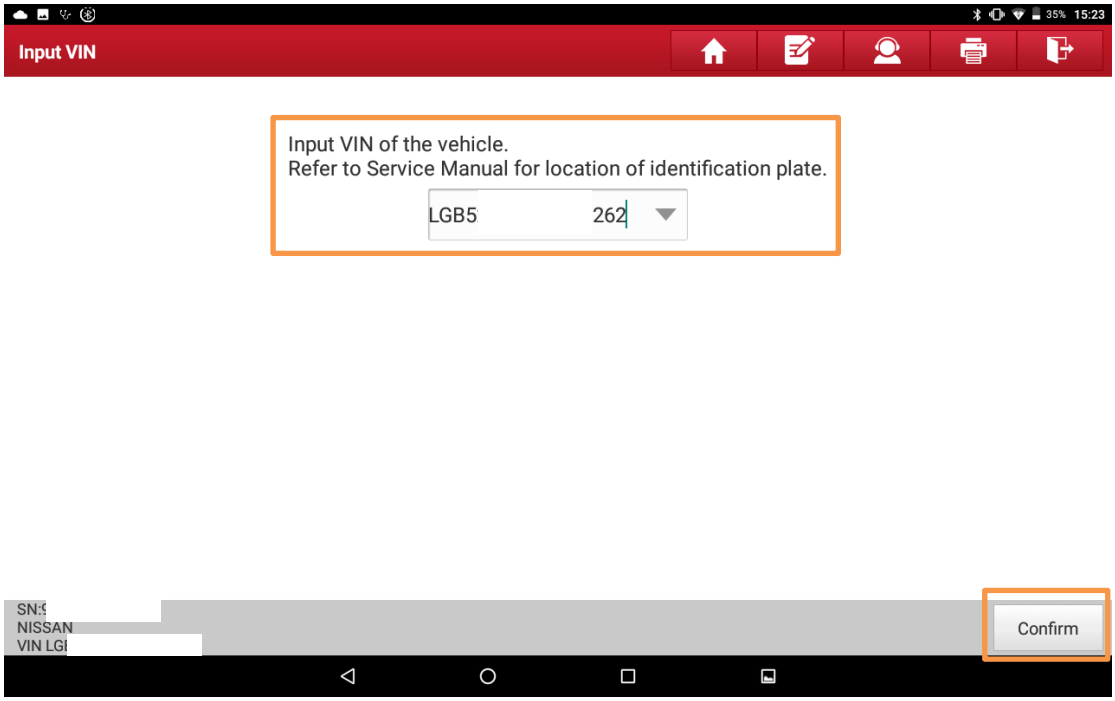


Figure 14

10. Click "Execute" to perform the VIN registration/writing function (Figure 15).

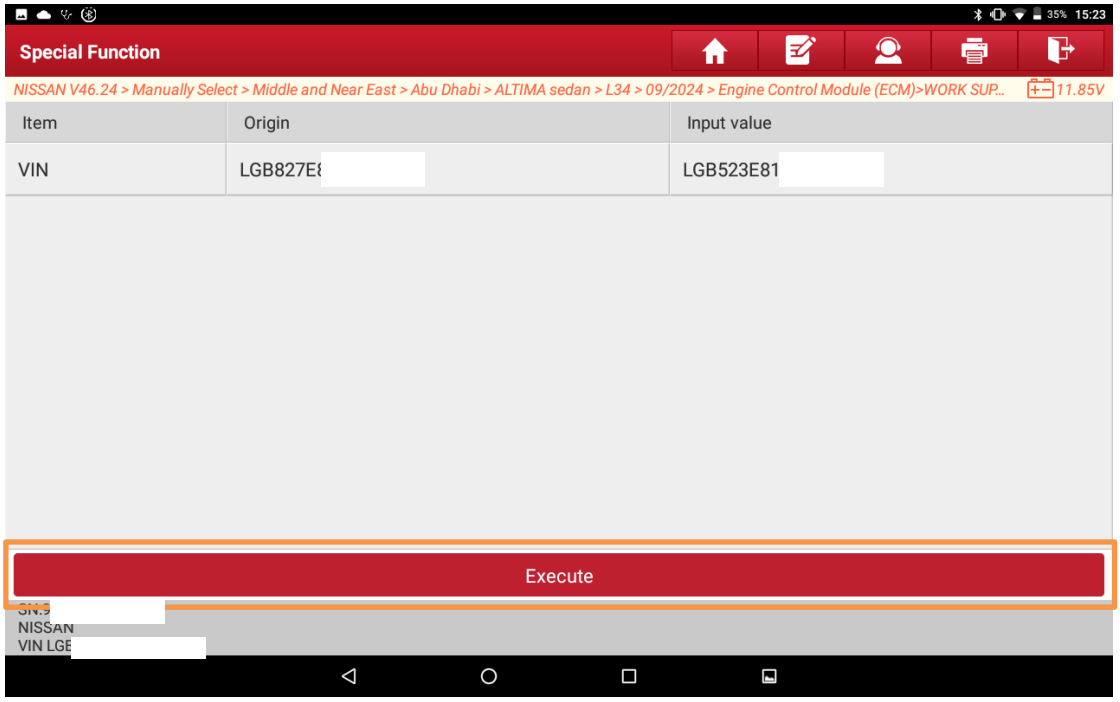


Figure 15

11. Once VIN registration is completed, a pop-up window will indicate that the function has finished. Click "OK" (Figure 16) to return to the [WORK SUPPORT] menu interface for the ECM (Engine Control Module).

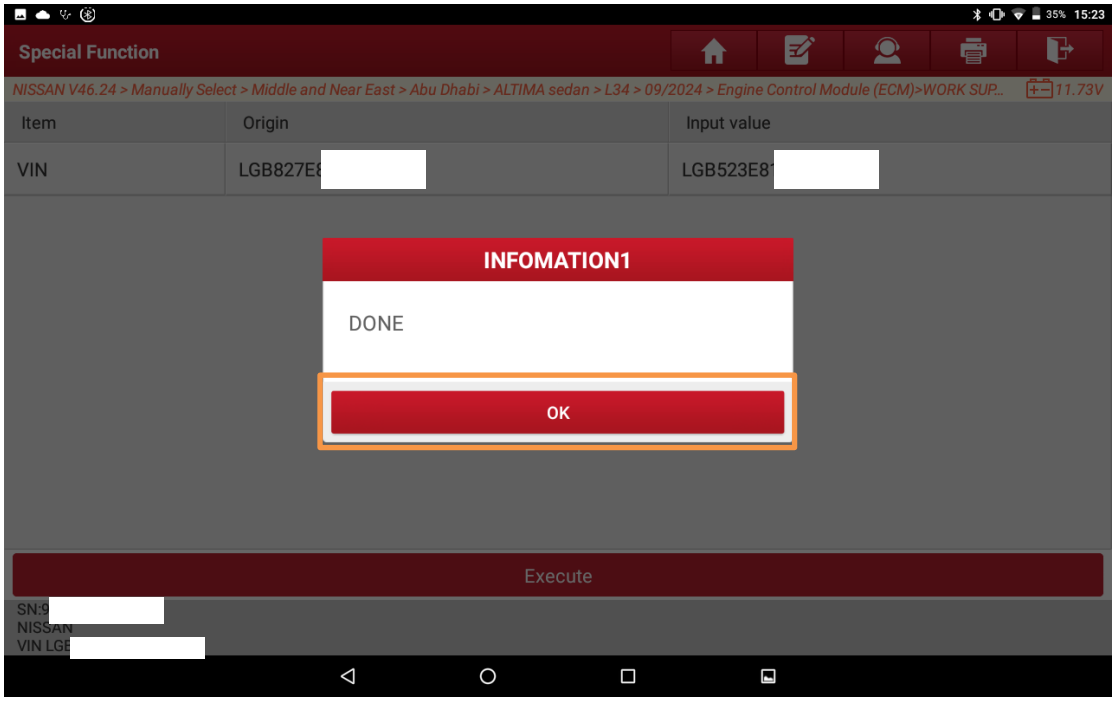


Figure 16

12. On the [WORK SUPPORT] menu interface for the ECM (Engine Control Module), choose [VIN Registration] again and click "OK" to re-enter the VIN registration interface. Check whether the original VIN value matches the VIN entered during the previous step. If they match, proceed to the next step; otherwise, return to step 8 and repeat the VIN registration function (Figure 17).

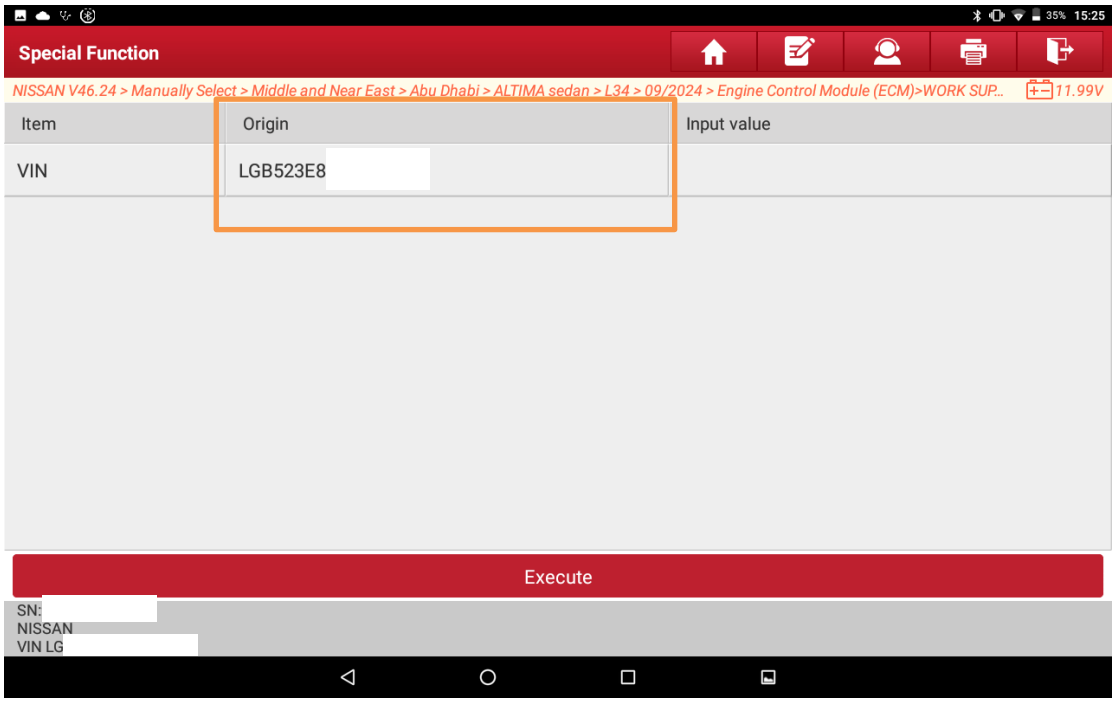


Figure 17

13. Return to the ECM menu interface, choose [Clear Fault Code], click "Yes", and then click "OK" to clear the DTC information (Figure 18).

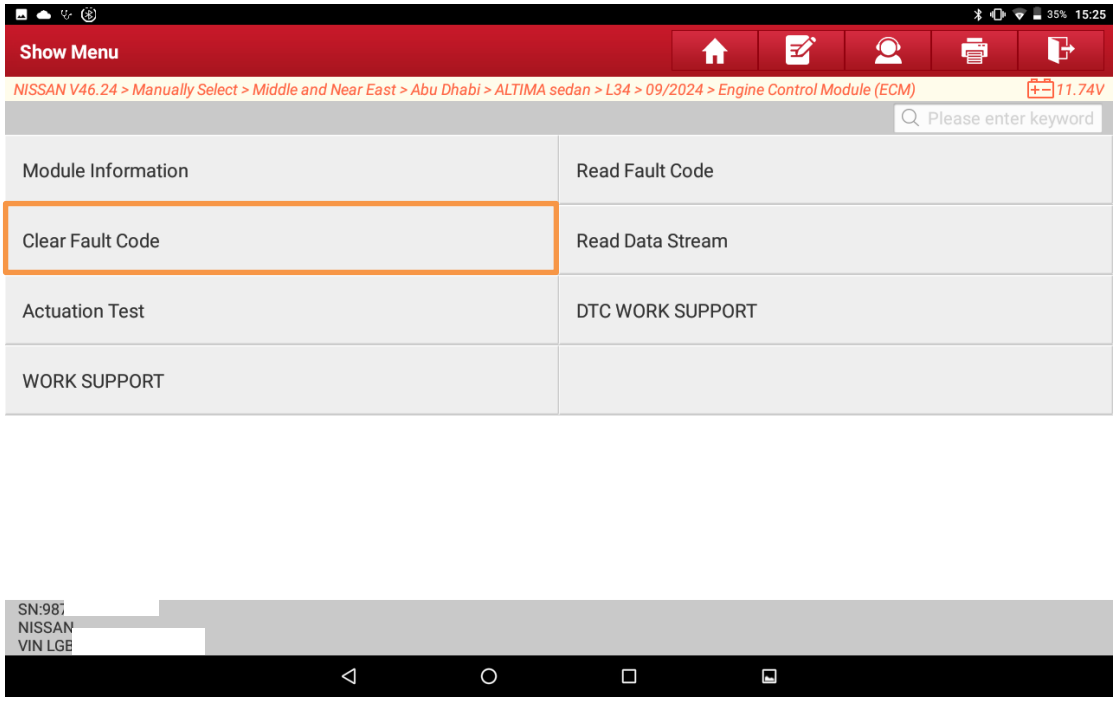


Figure 18

14. On the ECM menu interface, choose [Read Fault Code] (Figure 19) to read the ECM DTC information. No DTC is displayed (Figure 20), indicating that VIN registration is successful. The VIN registration special function operations are now completed.

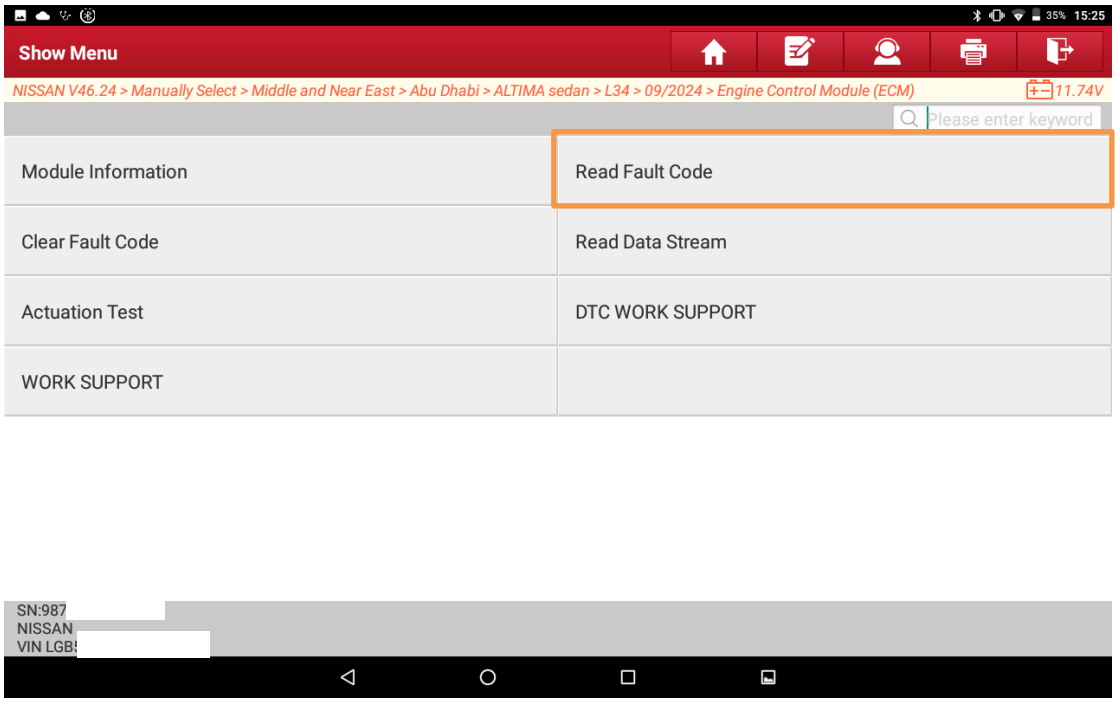
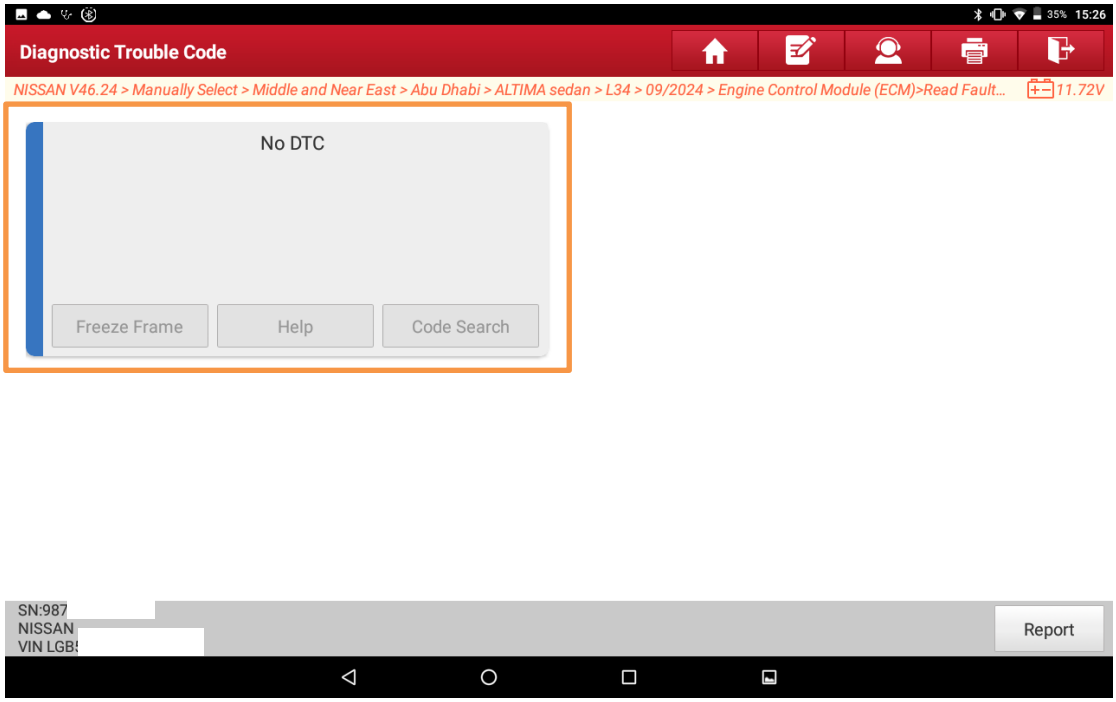


Figure 19



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