

Instructions for Injector Code Input

Tested Model: Nissan NP300 NAVARA 2024

Function Description:

1. This function writes injector codes into the ECM (Engine Control Module), enabling the ECU to identify and precisely control injectors of all cylinders.
2. This function must be performed to register new injector codes to the ECM after replacing one or more injectors.
3. All injector codes shall be re-entered via this function after ECM replacement, reprogramming, or reset.
4. Run this function for calibration when the diagnostic tool retrieves DTCs related to injector calibration data.

Attention:

1. Engine status: Ignition ON, engine OFF
2. Battery voltage: Ensure sufficient battery voltage (minimum 12V recommended) and maintain stable voltage throughout programming.
3. Distinguish easily confused characters such as 0 and O, 1 and I, 8 and B when entering codes. Ensure that the codes stored in the ECM are identical to those marked on the injectors.

Procedure:

1. On an X431 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).

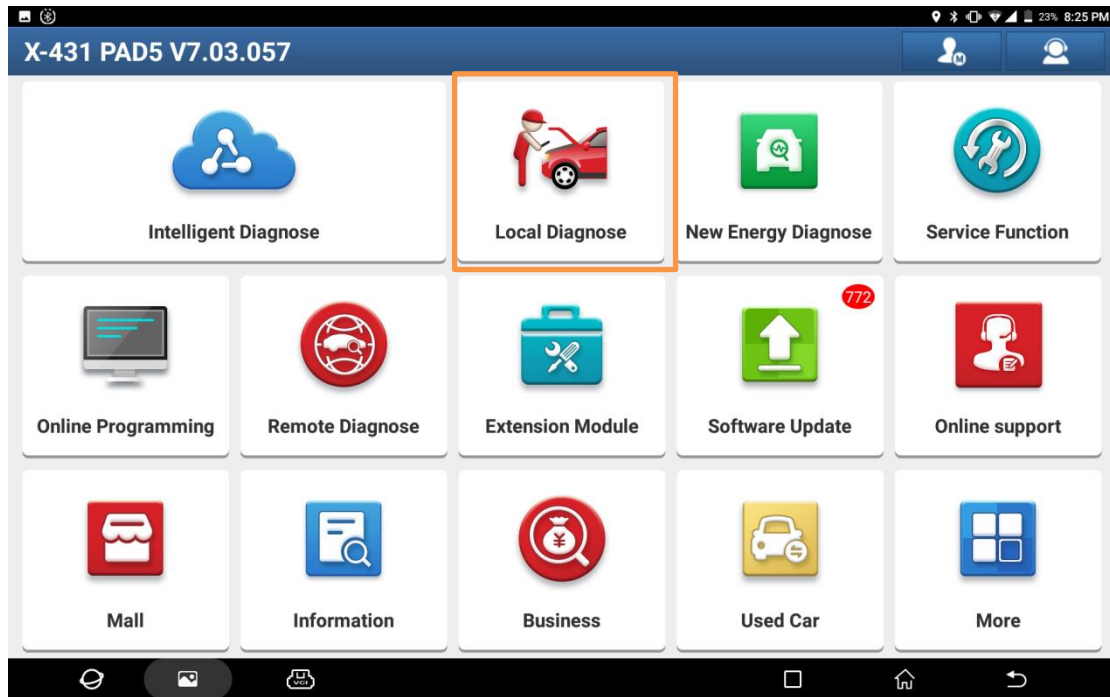


Figure 1

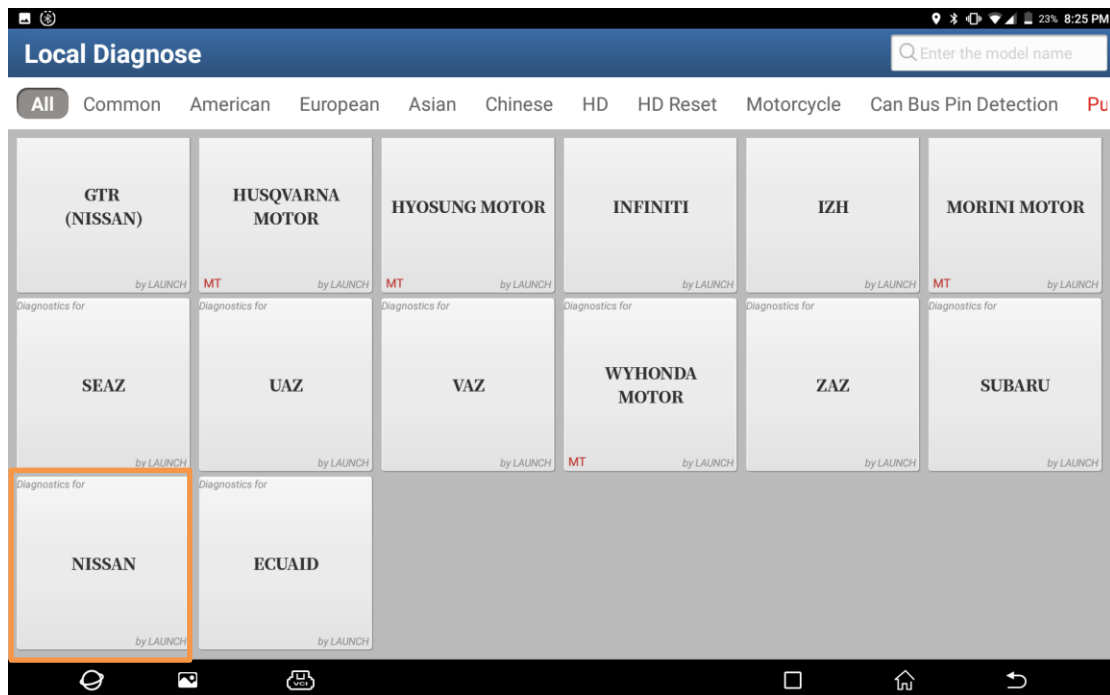


Figure 2

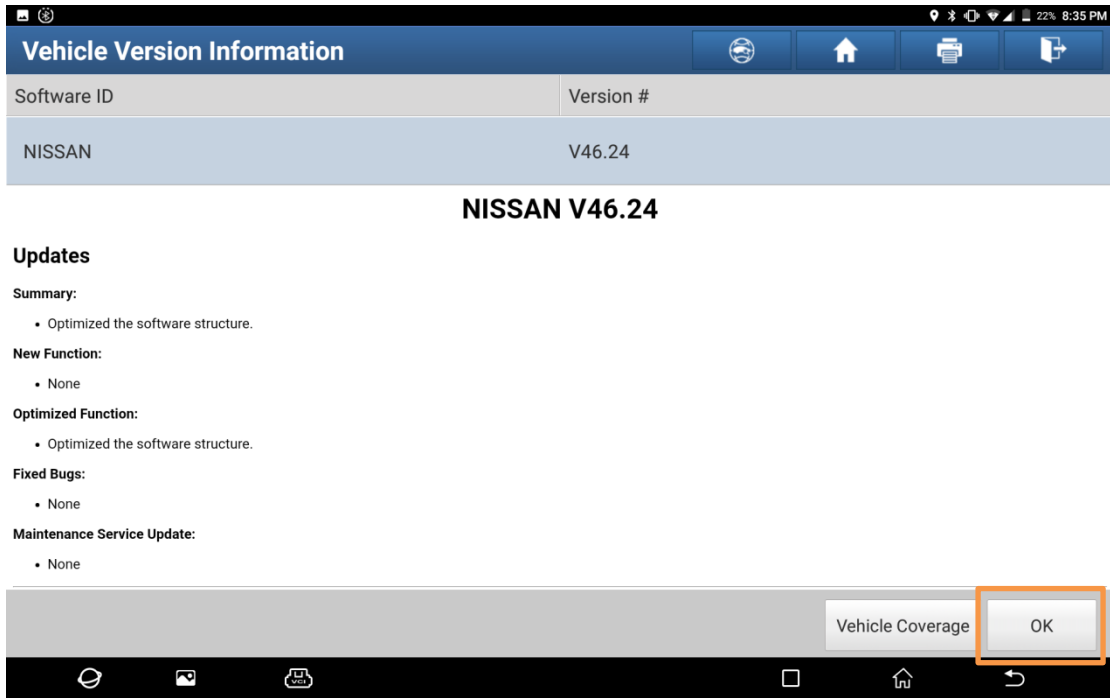


Figure 3

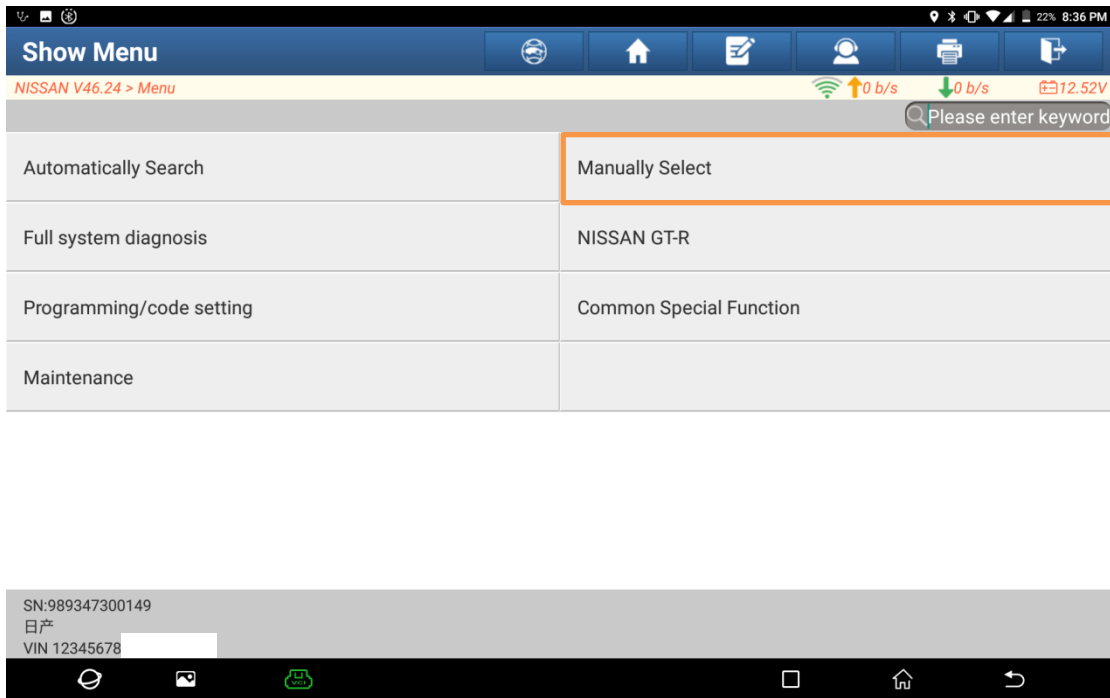


Figure 4

- Click [Manually Select], and then choose [Oceania] > [New Caledonia] > [NP300 NAVARA] > [D23] > [02/2024] to enter the system interface for this vehicle model (Figure 5).

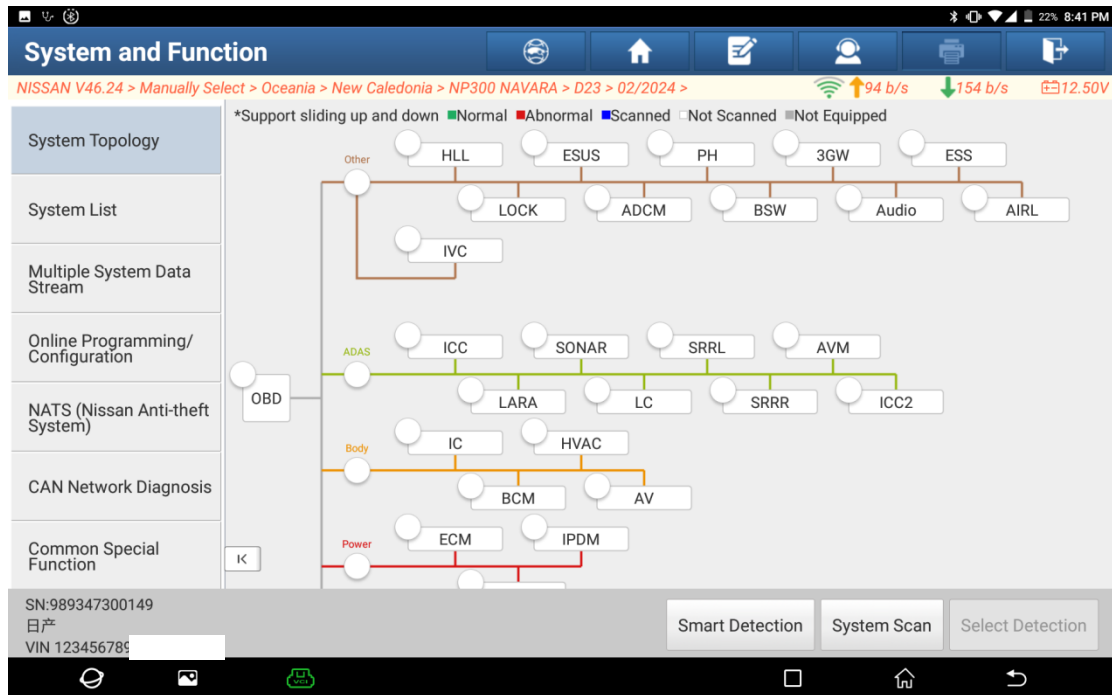


Figure 5

- On the vehicle model system interface (Figure 6), click [System Scan].

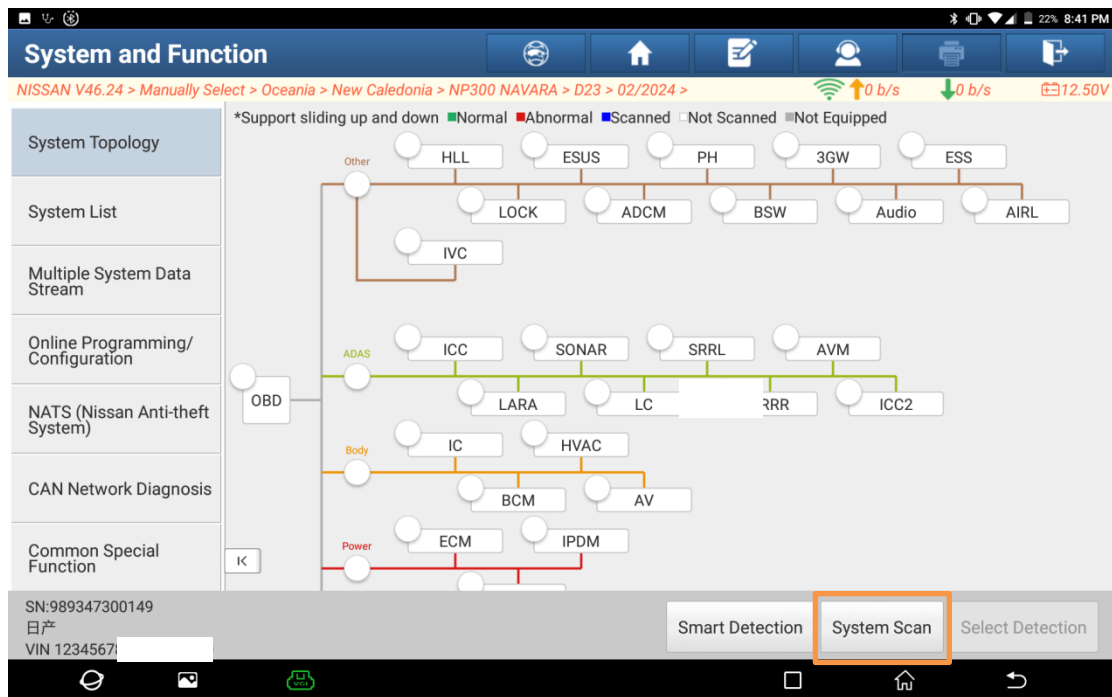


Figure 6

- 4. After the scan is completed, click [ECM] on the system topological graph (Figure 7) to display ECM DTC information (Figure 8 and Figure 9).

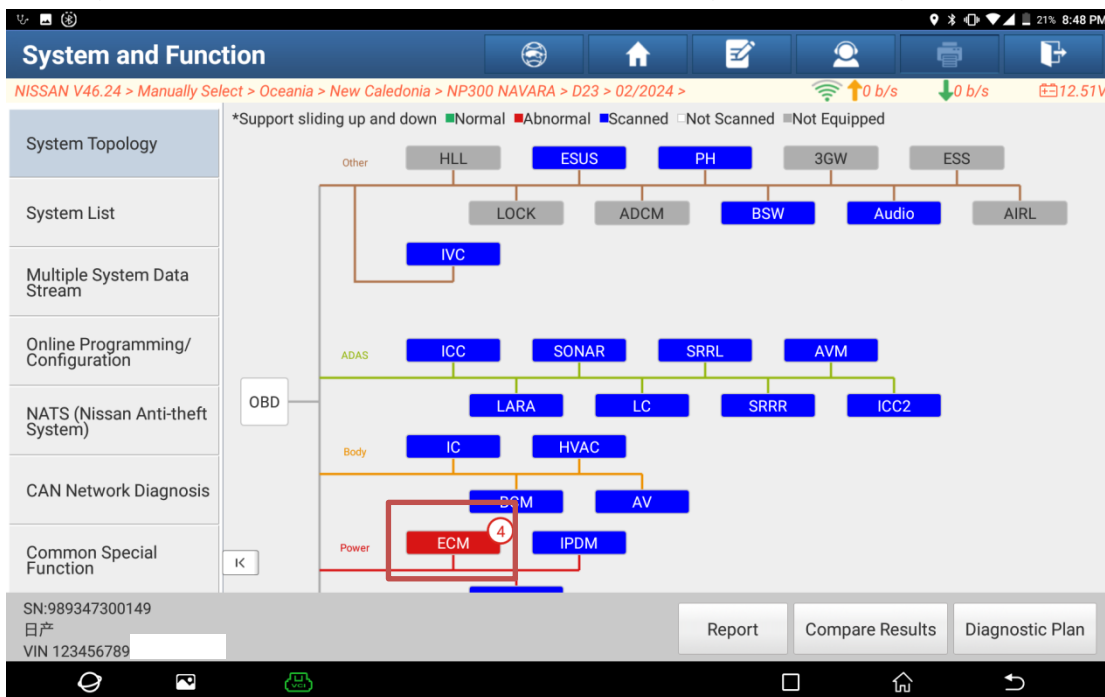


Figure 7

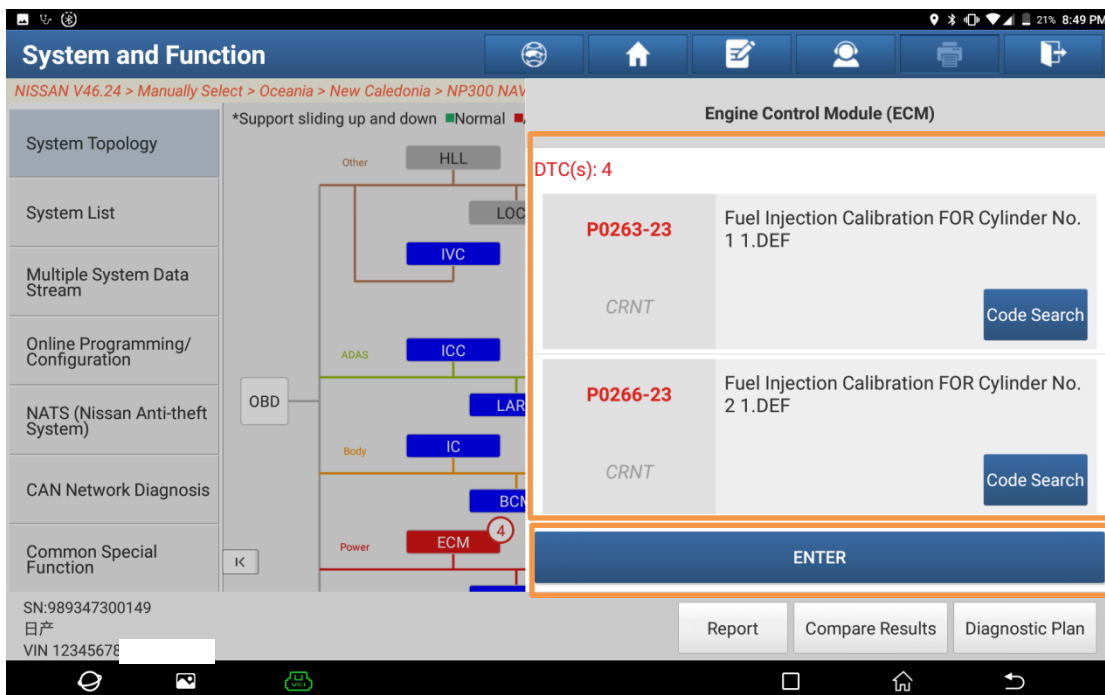


Figure 8

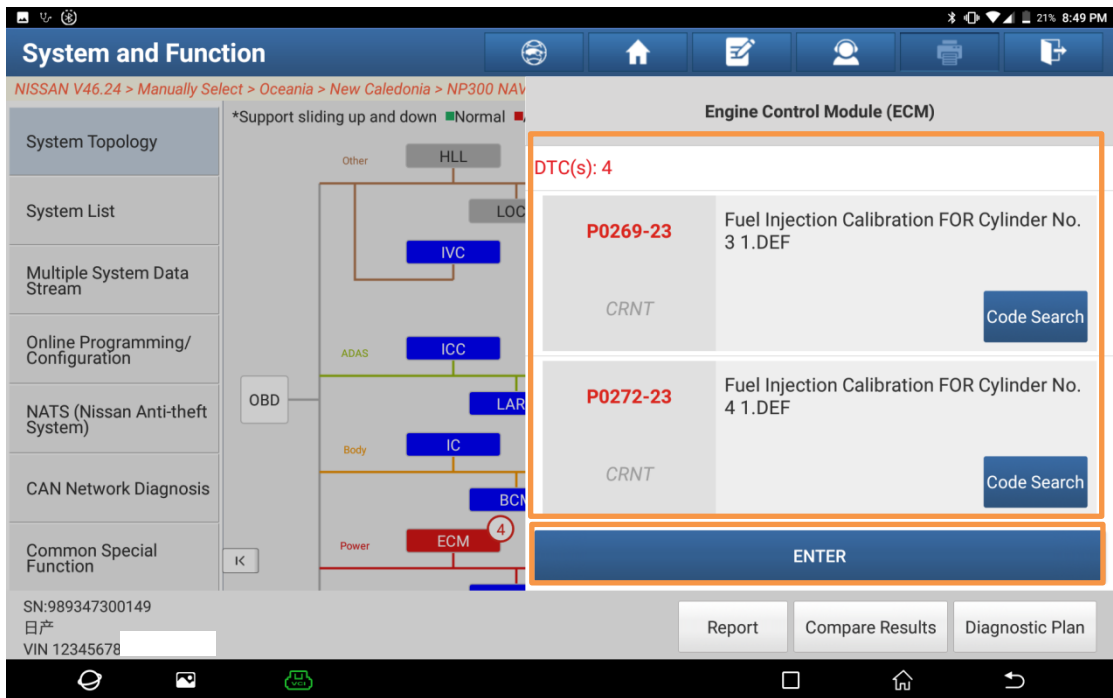


Figure 9

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

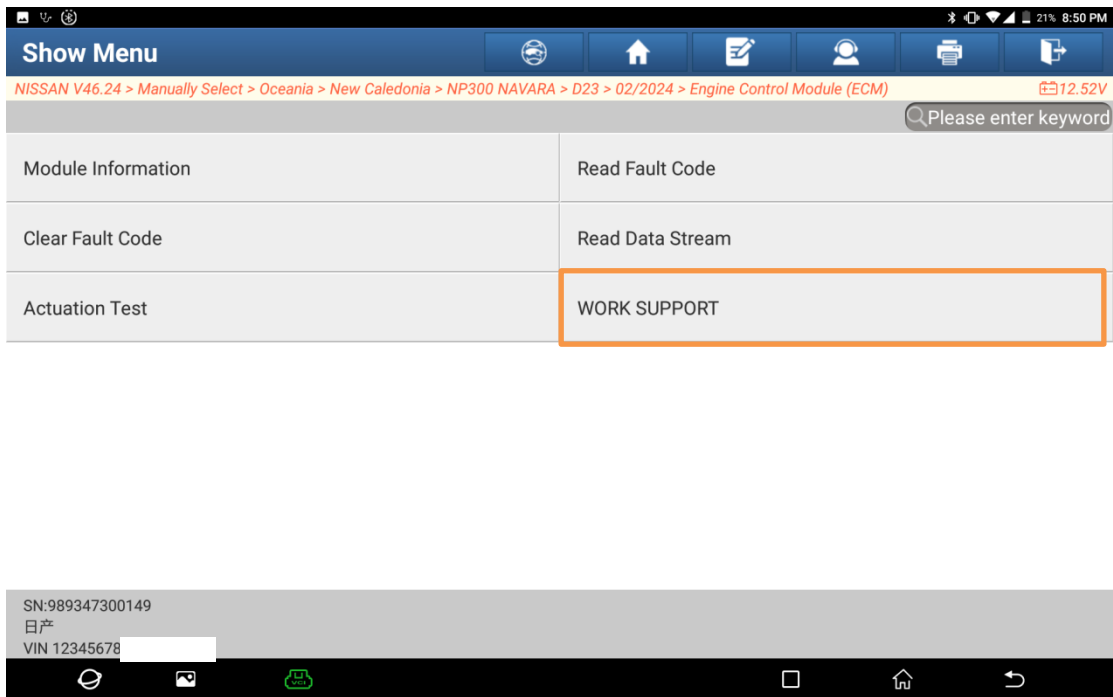


Figure 10

- Click [WORK SUPPORT] to enter the [WORK SUPPORT] menu interface (Figure 11).

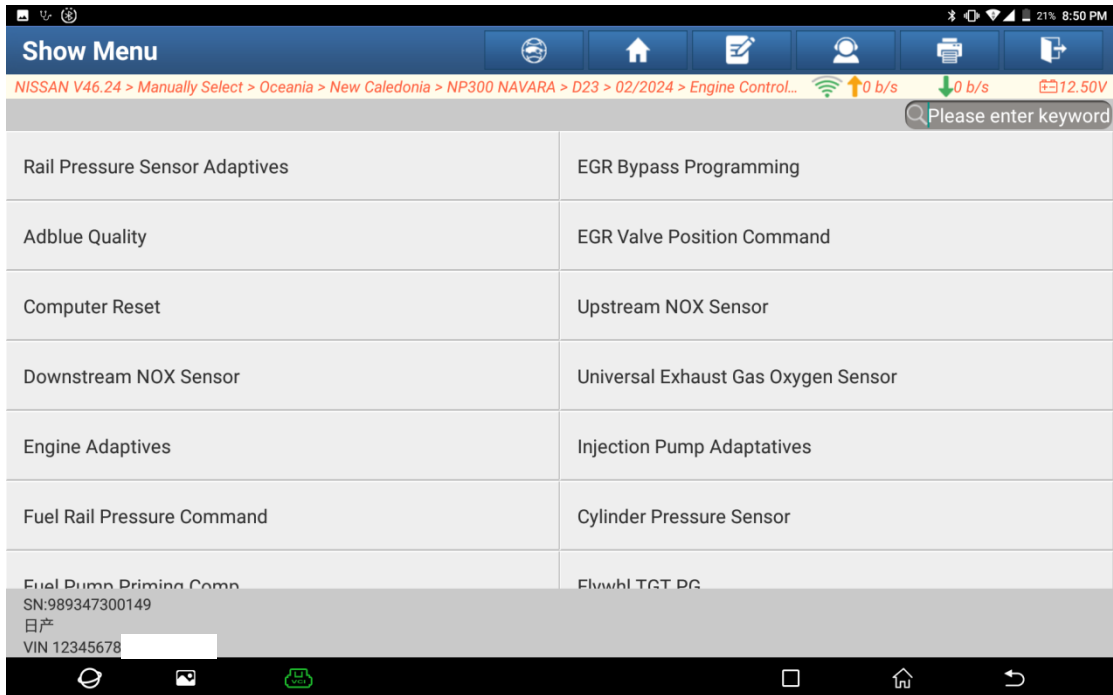


Figure 11

- On the [WORK SUPPORT] menu interface, click [Input Injector Code] (Figure 12).

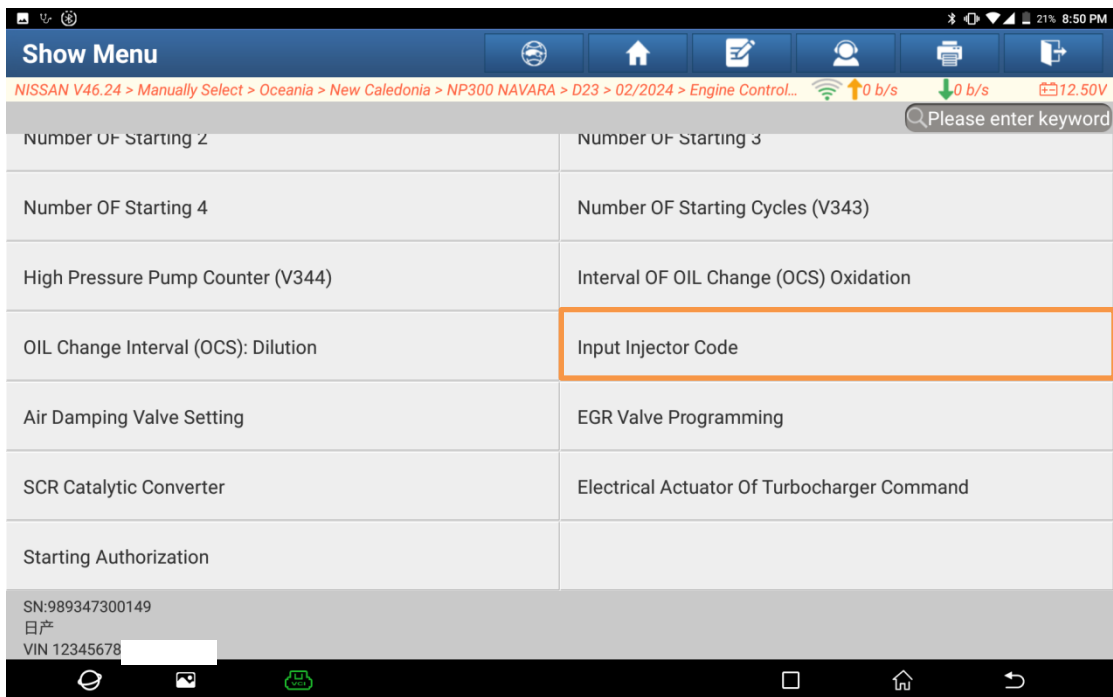


Figure 12

- Read the pop-up prompts carefully (Figure 13). Ensure that the ignition switch is turned on and the engine is stopped, and then click [OK] to enter the interface shown in Figure 14.

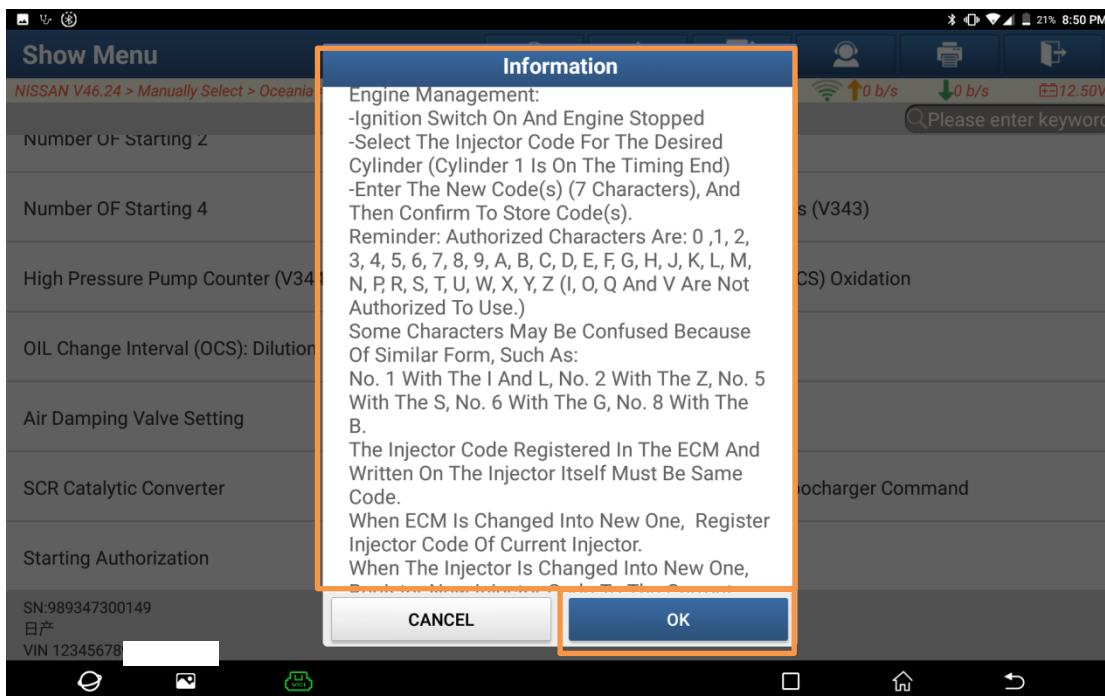


Figure 13

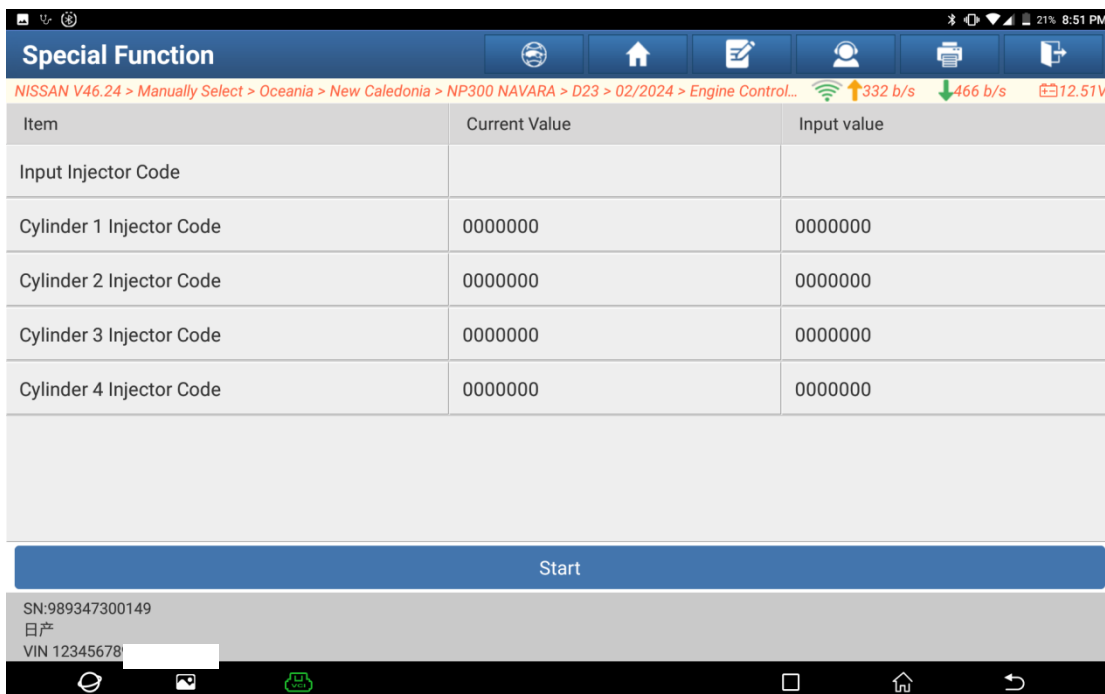


Figure 14

- 9. Click on the injector code field for the cylinder you need to calibrate. A pop-up window for entering the injector code will appear, as shown in Figure 15. Enter the injector code in the input box (7 characters total. Note that the characters I, O, Q, and V cannot be used. Also, distinguish easily confused characters such as 0 and O, 1 and I, 8 and B). After entering the code, click [OK], as shown in Figure 16.

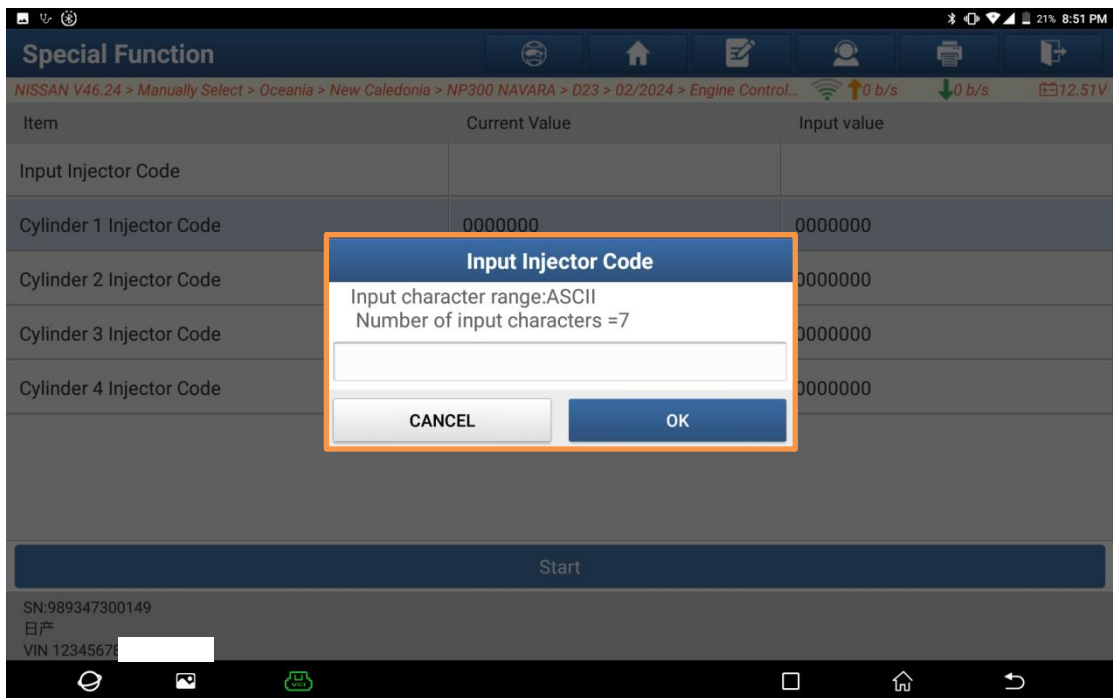


Figure 15

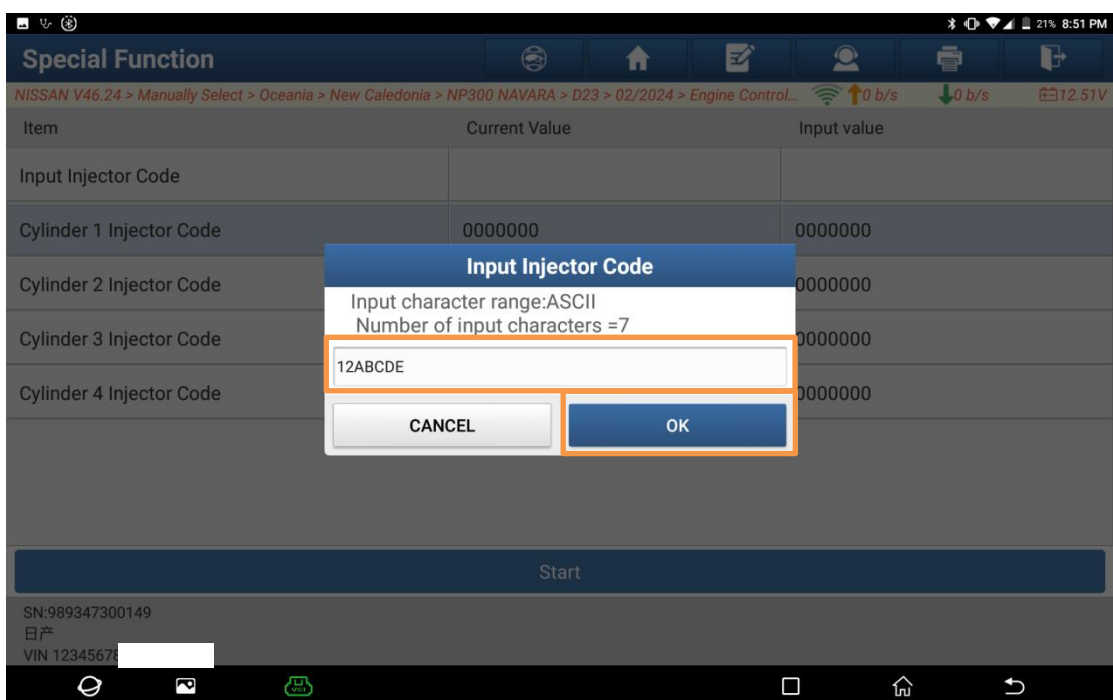


Figure 16

10. After entering all injector codes and confirming that the entered codes match those engraved on the injectors, click [Start] as shown in Figure 17 to write the codes.

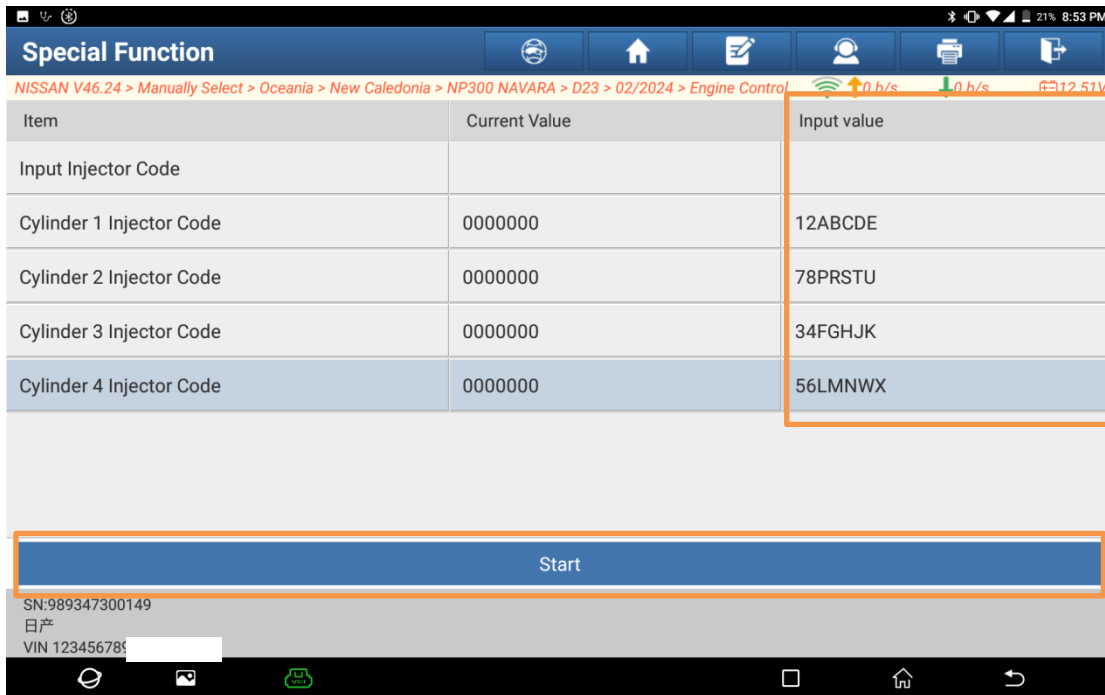


Figure 17

11. After the program execution is completed, if a pop-up window indicates that the writing fails, as shown in Figure 18, the writing operation is unsuccessful. Click [OK]. Then, according to the pop-up prompts, turn off the ignition and wait for 2 minutes to allow the computer to enter standby mode. Then, restart from Step 9.

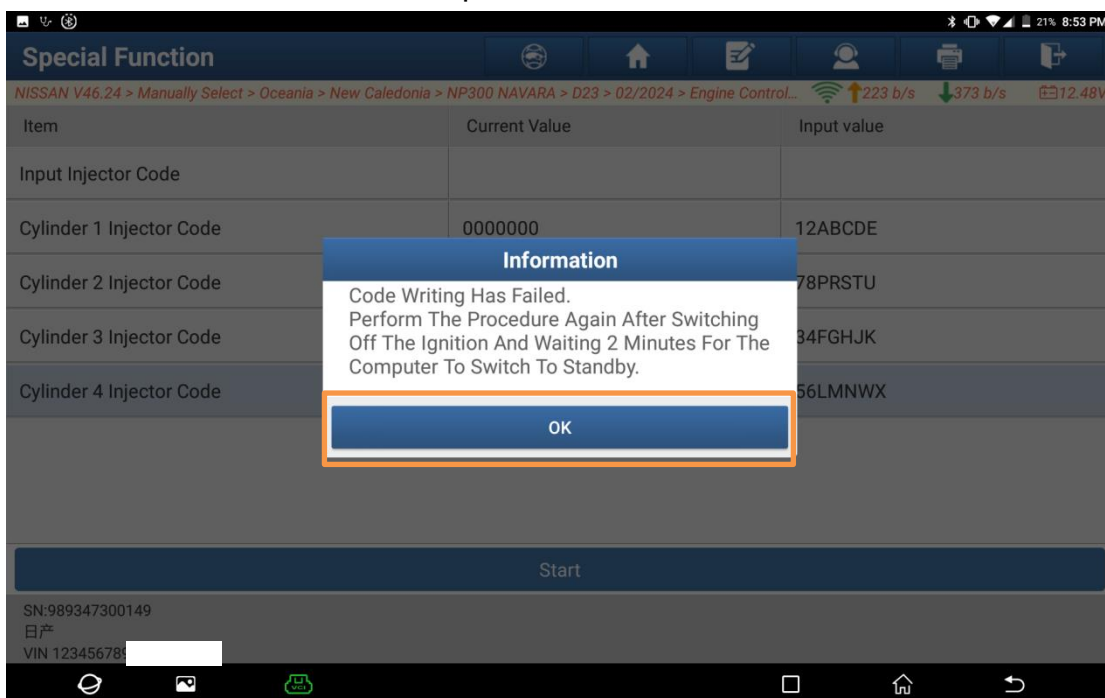


Figure 18

12. If the current status in the [Input Injector Code] item shows "Command Completed," and the [Current Value] displayed in each cylinder injector code field matches the code engraved on the corresponding injector (Figure 19), the operation is successful.

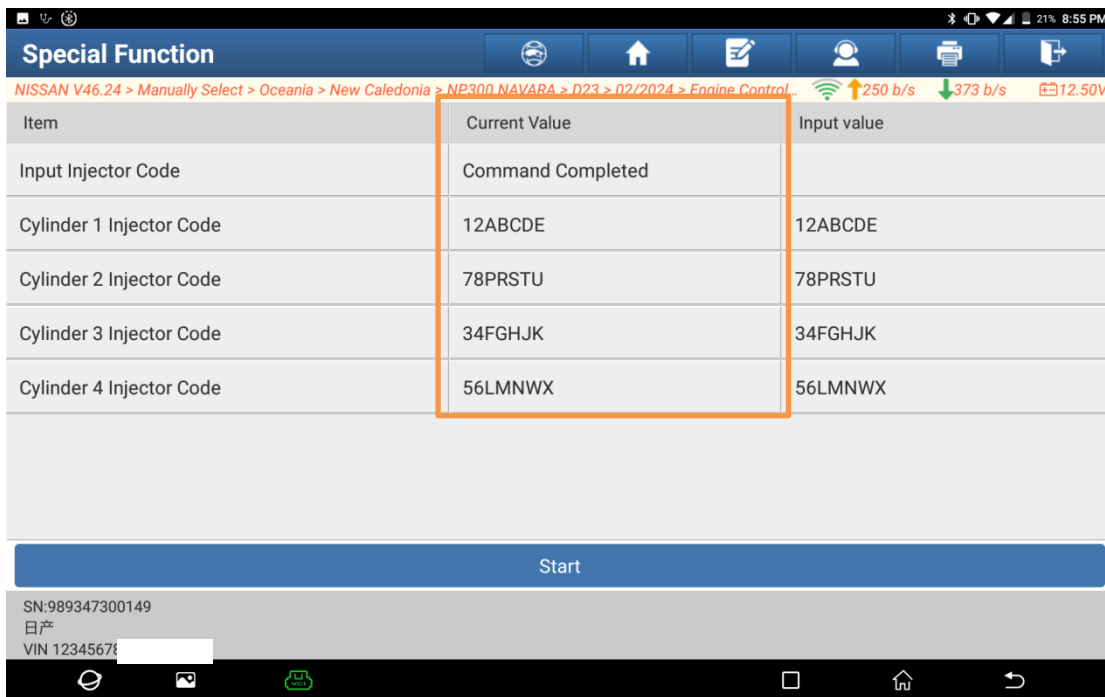


Figure 19

13. Return to the ECM menu interface, click [Clear Fault Code], click [Yes], and then click [OK] to clear the DTC information (Figure 20).

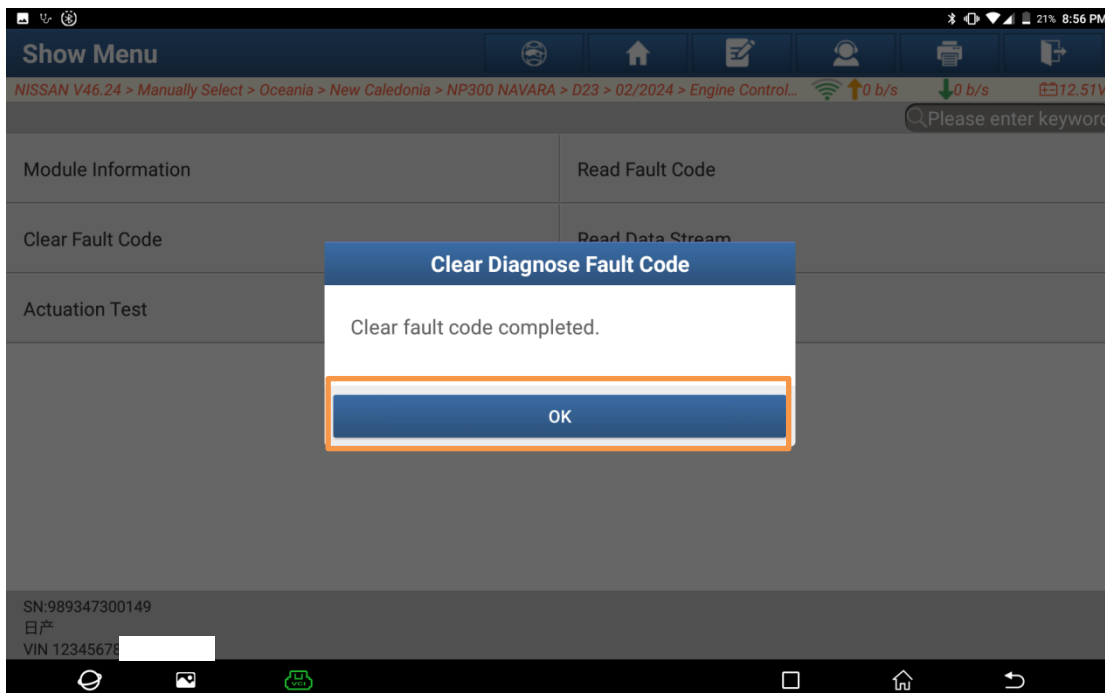


Figure 20

14. On the ECM menu interface, click [Read Fault Code] (Figure 21) to read the ECM DTC information. No DTC is displayed (Figure 22), indicating that the injector codes are successfully written. The special function operations for inputting injector codes are now completed.

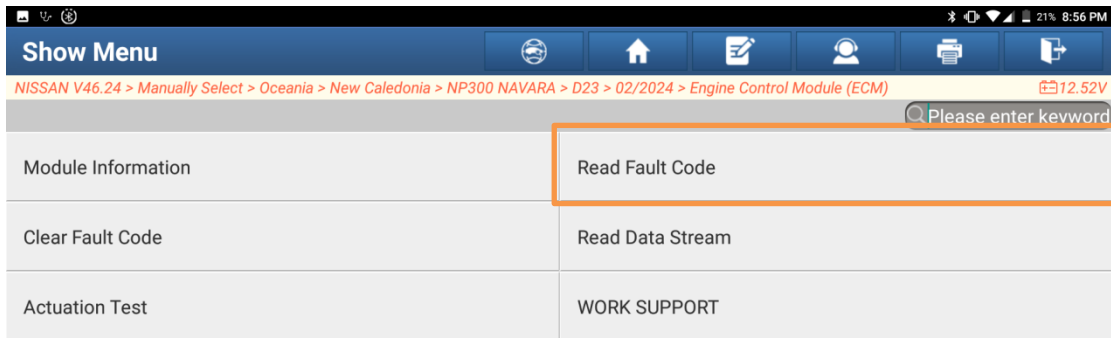


Figure 21

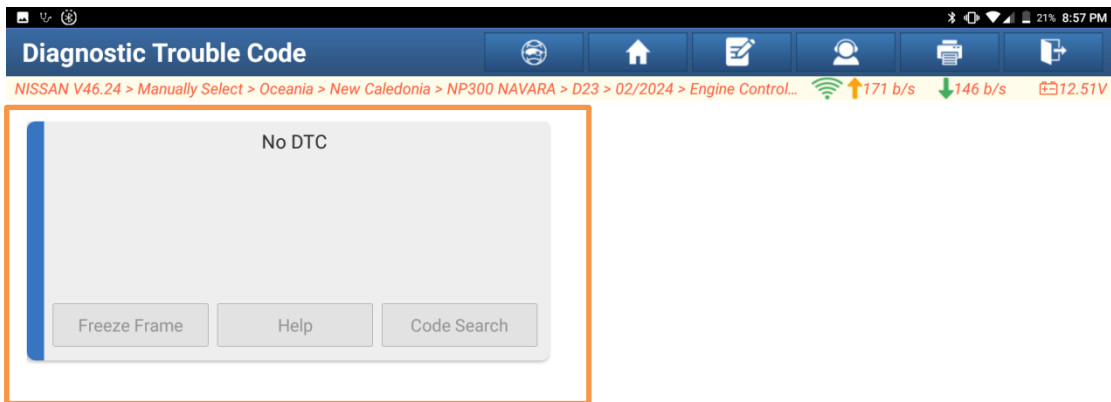


Figure 22

Statement:

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