

Nissan Patrol 2022 Front Camera Calibration

Function Description:

Execution Background:

1. Front camera replaced
2. Front camera ECU module replaced
3. Front windshield replaced
4. Chassis adjusted
5. Level sensor replaced
6. Related DTCs present

Attention:

1. Park the vehicle on a level surface with no load, and center the steering wheel.
2. Close all doors.
3. Ensure that the vehicle tire pressures are normal.
4. Keep headlights OFF.
5. Keep the ignition switch ON.
6. Keep the front camera lens clean and unobstructed.
7. Ensure sufficient lighting; no reflective or shiny objects around the target.

Requirements:

Equipment/Product Requirements: X-431 PAD 3 and later products

Software Requirements: Nissan V44.70, Dongfeng Nissan V44.70, Infiniti V44.70 or later version

Tested Model: PATROL 2022

Procedure:

1. On an X-431 PAD 5, click [Local Diagnose], and then choose [NISSAN] to enter the Nissan model menu interface. See Figure 1.

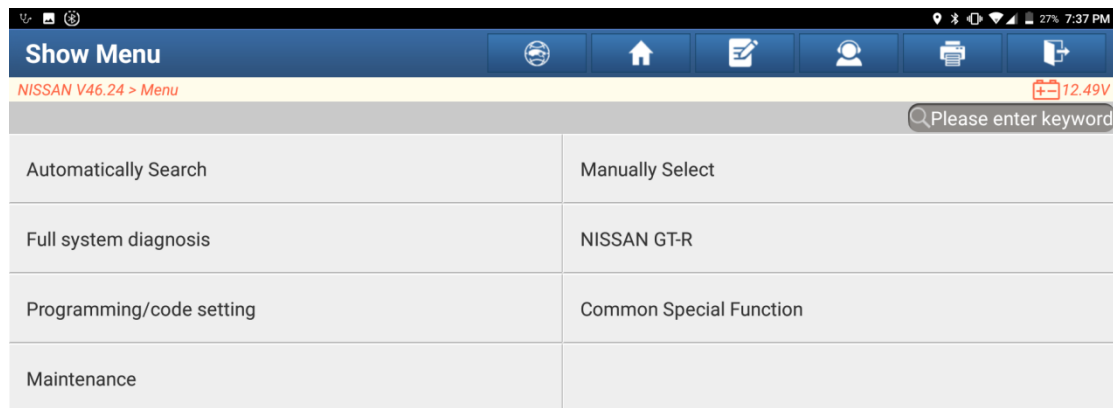


Figure 1

2. Click [Manually Select], and choose [Far East] > [Bangladesh] > [PATROL] > [Y61] > [01/2022] to enter the vehicle model system interface. See Figure 2.

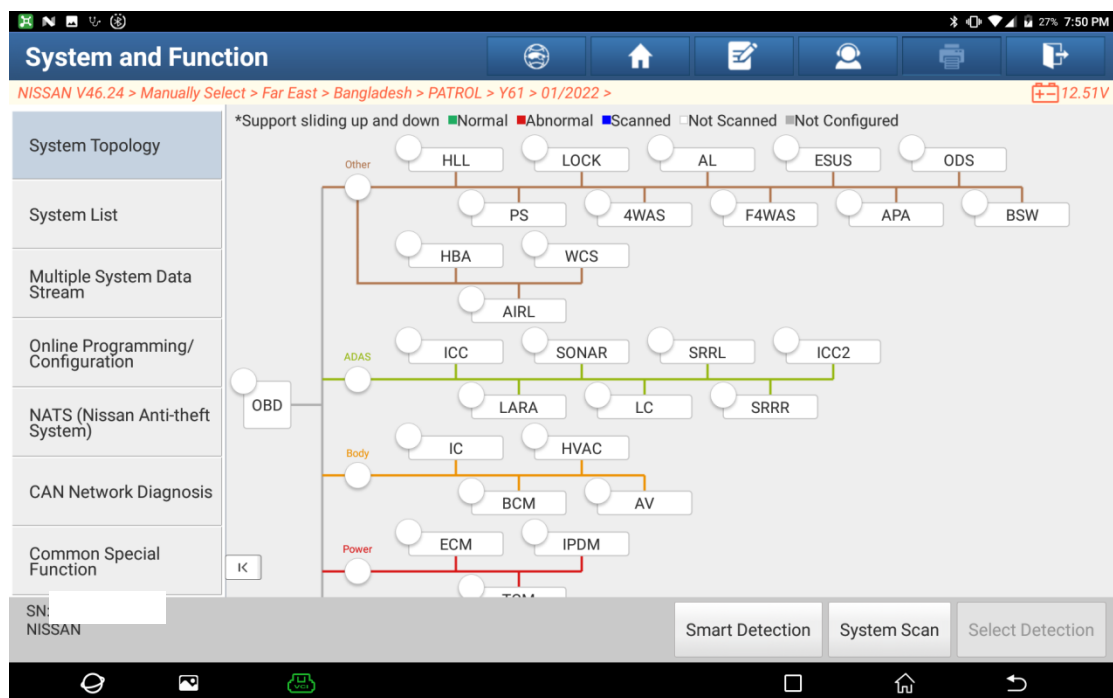


Figure 2

- In the vehicle model system interface, click [Smart Detection]. After the detection is completed, click [LC] in the system topological graph to display the DTC information. See Figure 3.

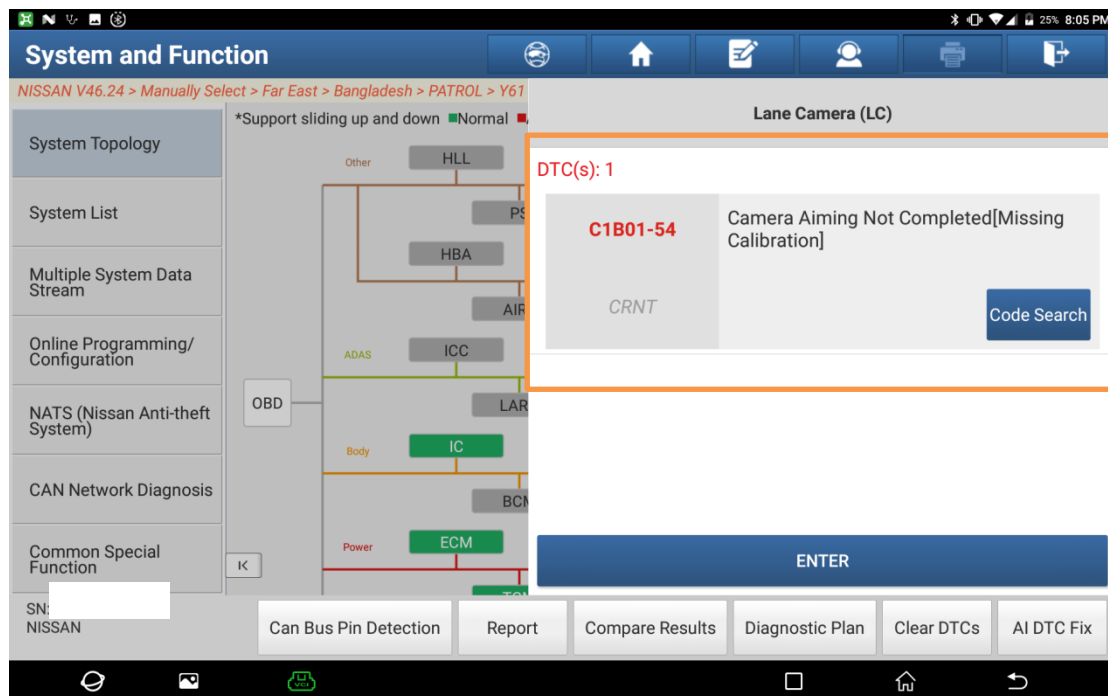


Figure 3

- Click [ENTER] to display the menu interface for [LC (Lane Camera)]. See Figure 4.

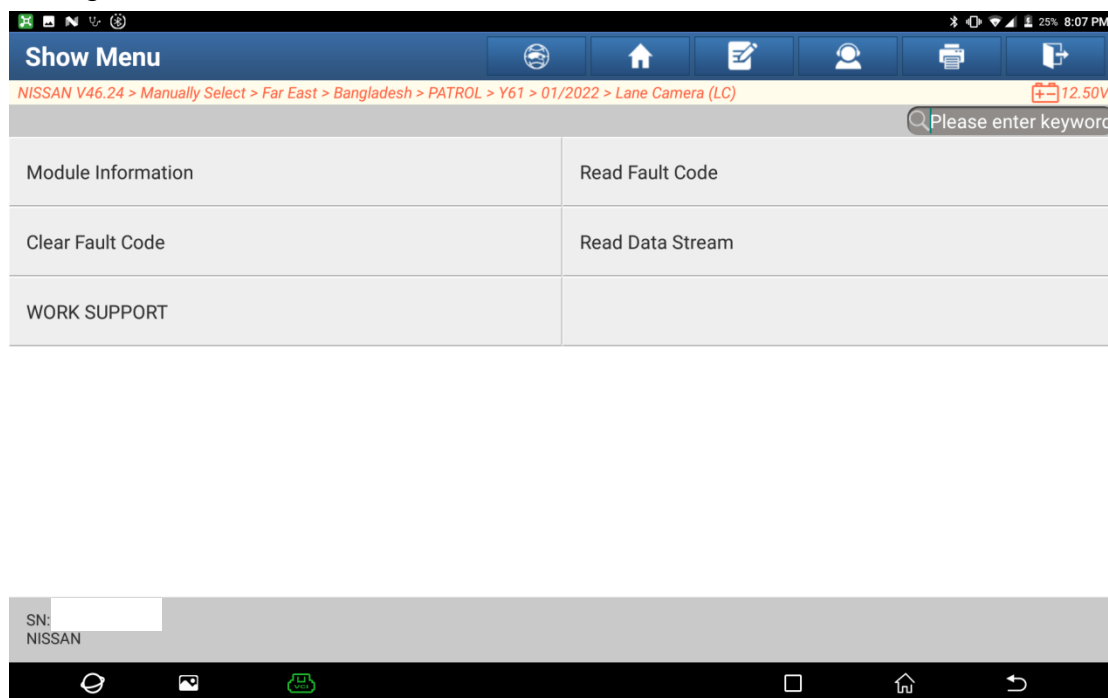


Figure 4

5. Click [WORK SUPPORT] to enter the interface. See Figure 5.

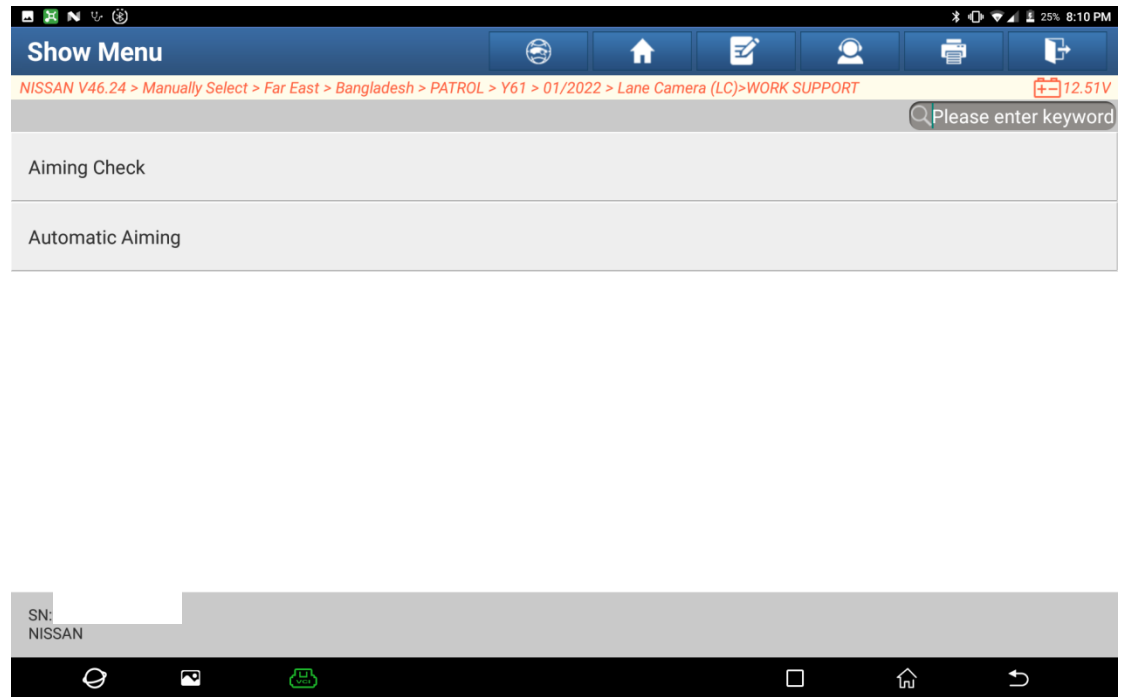


Figure 5

6. Click [Automatic Aiming] to enter the interface. See Figure 6.

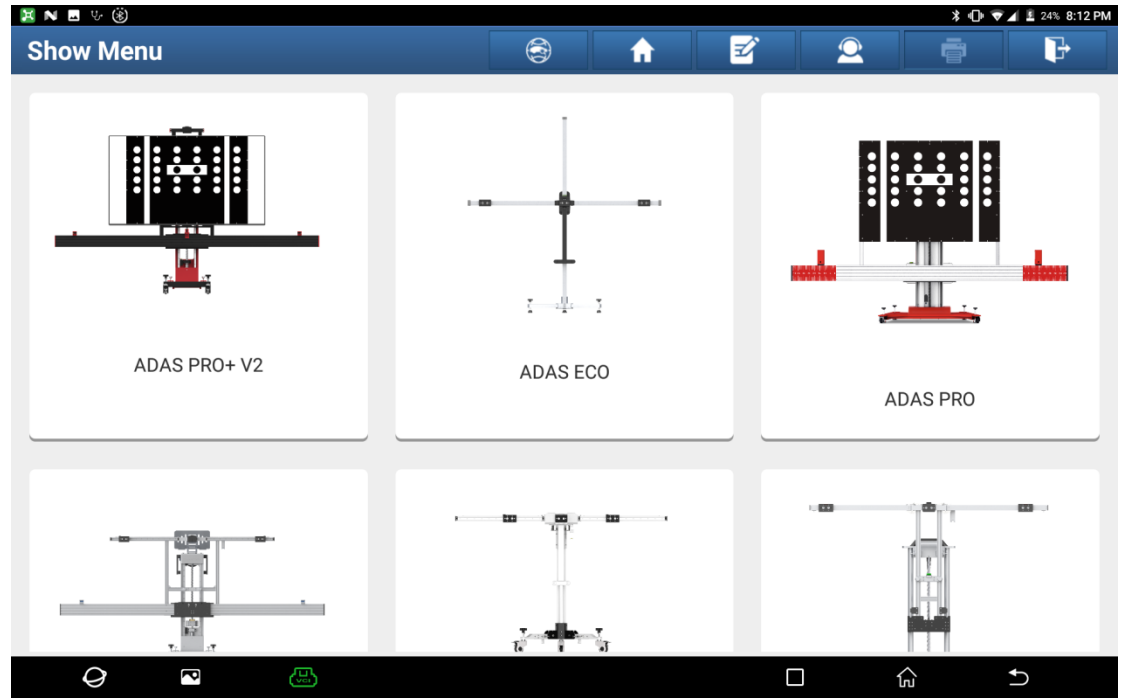


Figure 6

7. Based on the actual target type, click the corresponding target menu. This document uses the "ADAS PRO PLUS" target as an example. Click the [ADAS PRO PLUS] menu to enter the interface. See Figure 7.

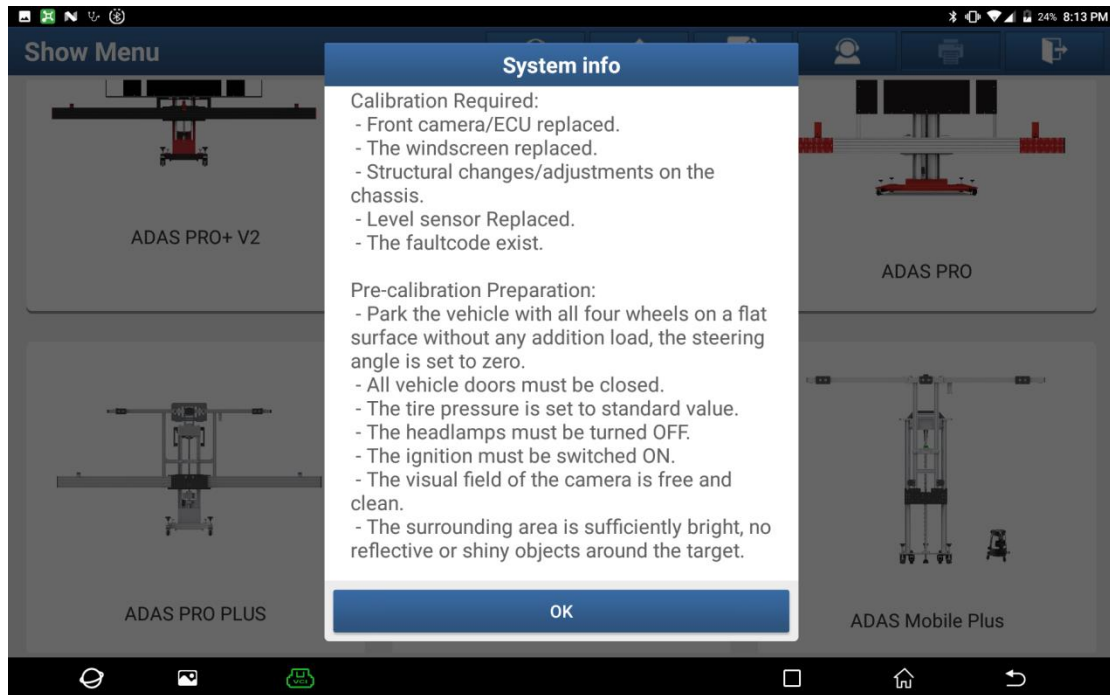


Figure 7

8. Review the information displayed in the [System Info] pop-up window (Figure 7) to understand the requirements for front camera calibration. Prepare the vehicle accordingly. Once ready, click [OK] to enter the interface. See Figure 8.

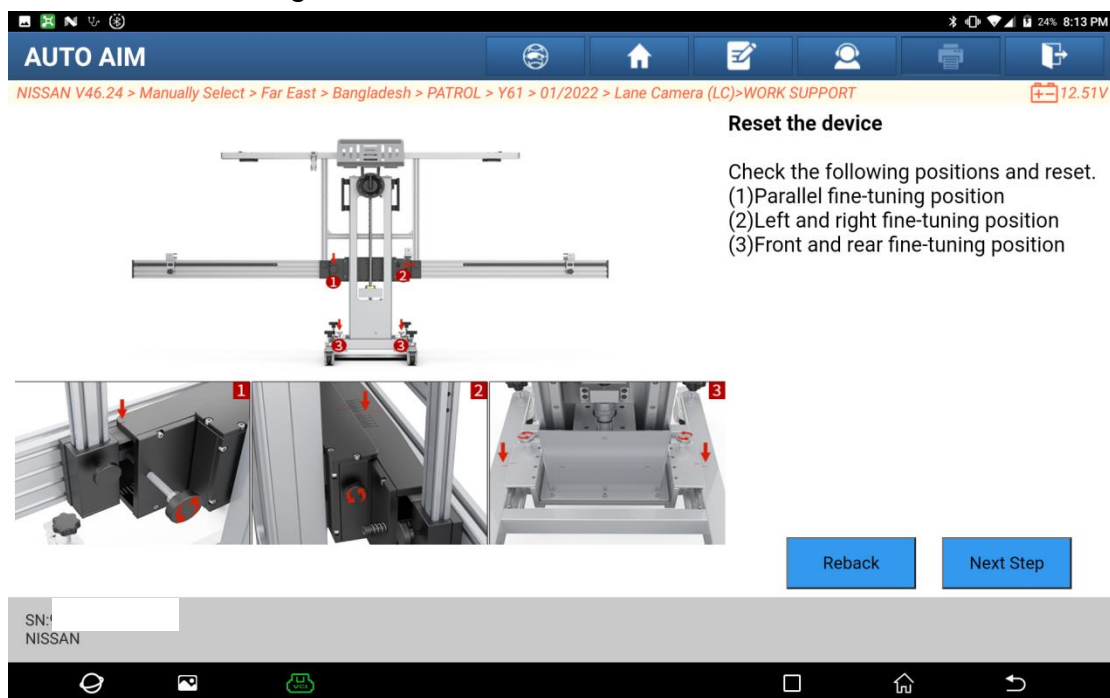


Figure 8

- According to the instructions in Figure 8, reset the calibration equipment. After resetting, click the [Next Step] button to enter the interface. See Figure 9.

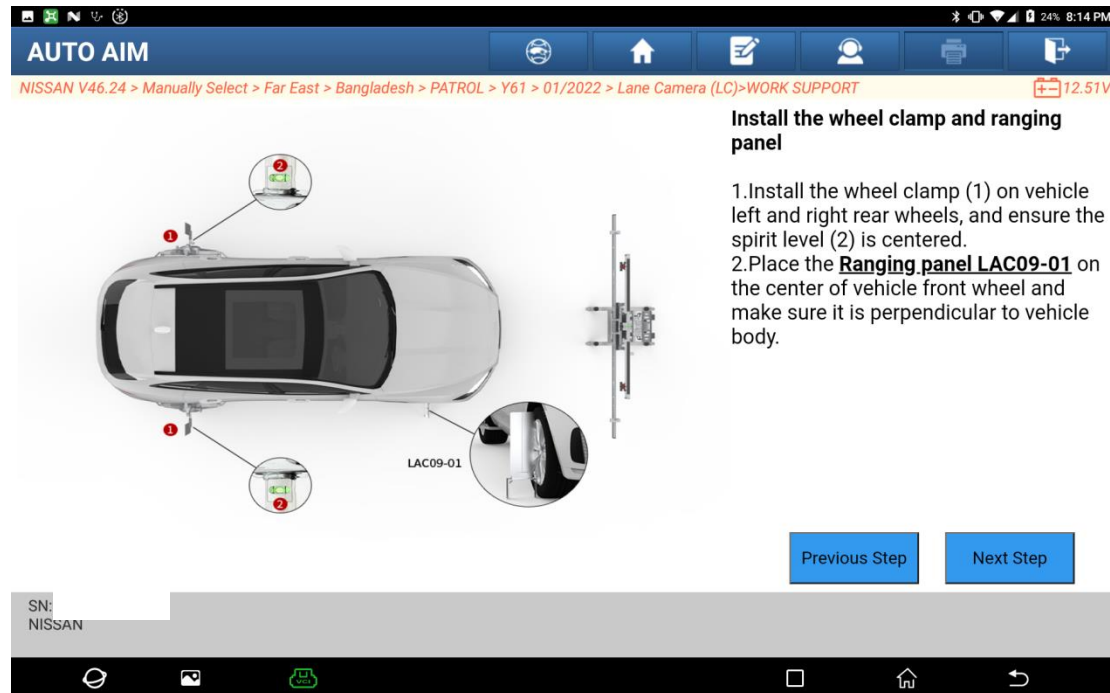


Figure 9

- According to the instructions in Figure 9, install the wheel clamp and ranging panel. After installation, click the [Next Step] button to enter the interface. See Figure 10.

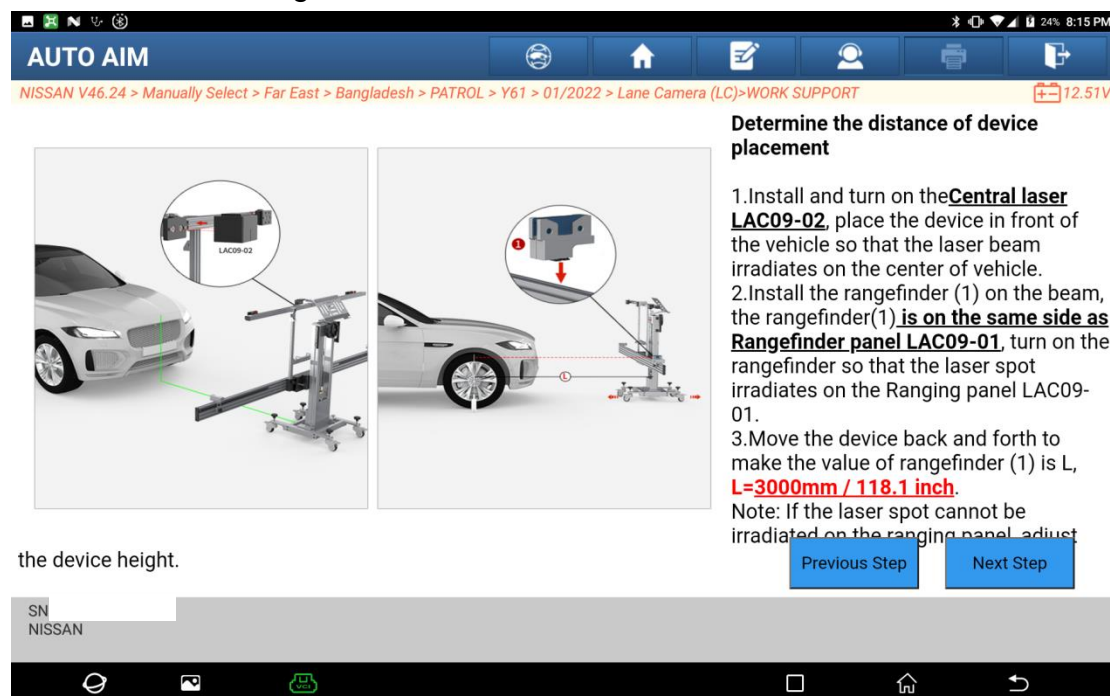


Figure 10

11. According to the instructions in Figure 10, install and position the center laser LAC09-02 and the rangefinder. Turn on the center laser LAC09-02 and the rangefinder, and adjust the rangefinder value as required. After completing the operations, click the [Next Step] button to enter the interface. See Figure 11.

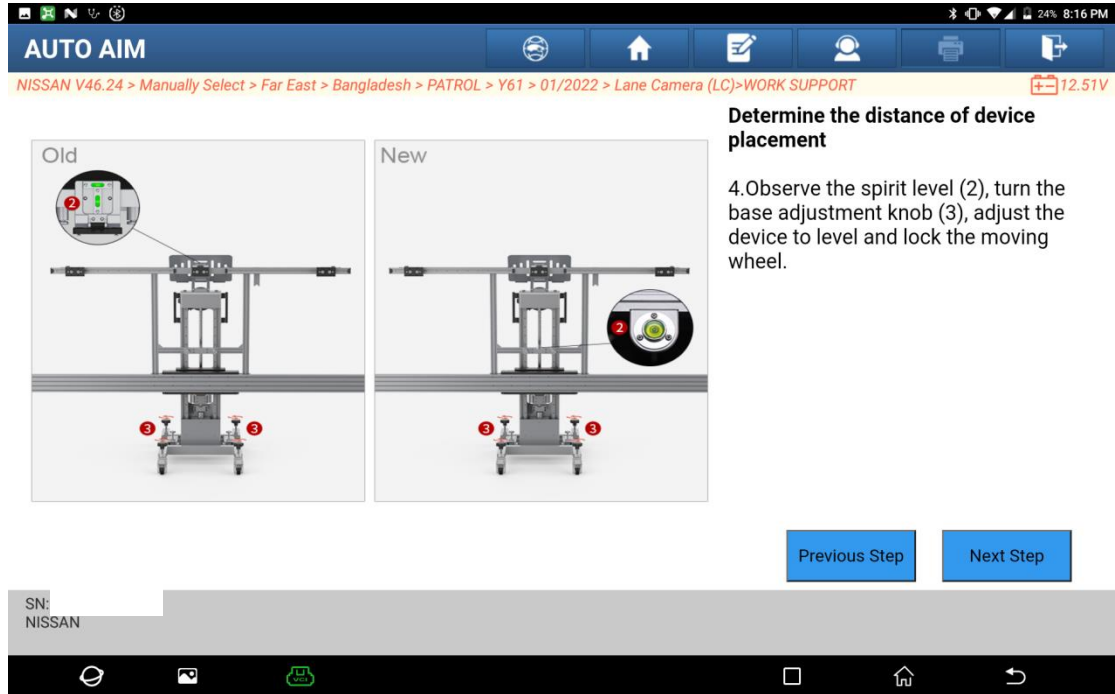


Figure 11

12. According to the instructions in Figure 11, adjust the equipment to a level position. After adjustment, click the [Next Step] button to enter the interface. See Figure 12.

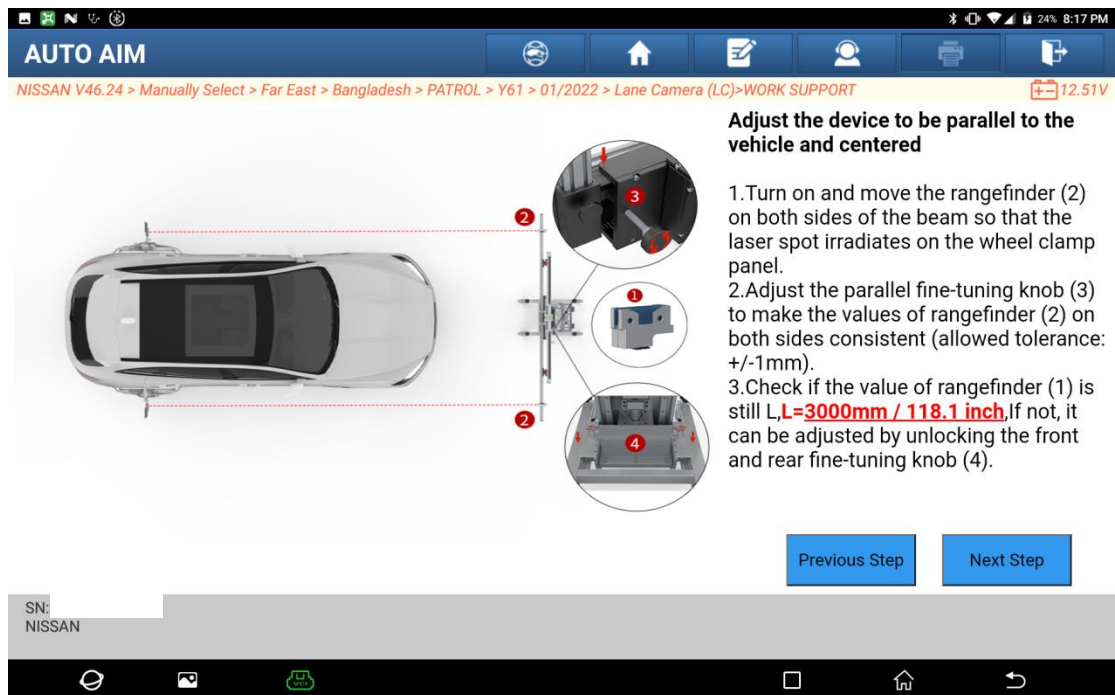


Figure 12

13. According to the instructions in Figure 12, adjust the equipment to be parallel and centered with the vehicle. After adjustment, click the [Next Step] button to enter the interface. See Figure 13.

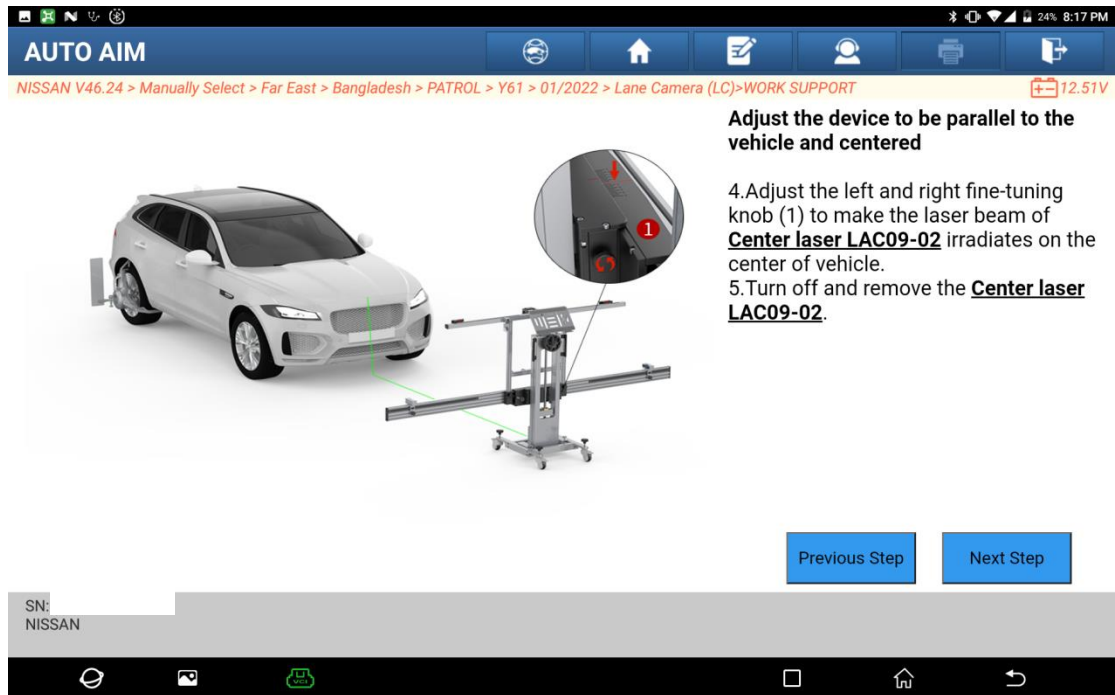


Figure 13

14. According to the instructions in Figure 13, continue the adjustment operations to make the equipment parallel and centered with the vehicle. After completing the operations, click the [Next Step] button to enter the interface. See Figure 14.

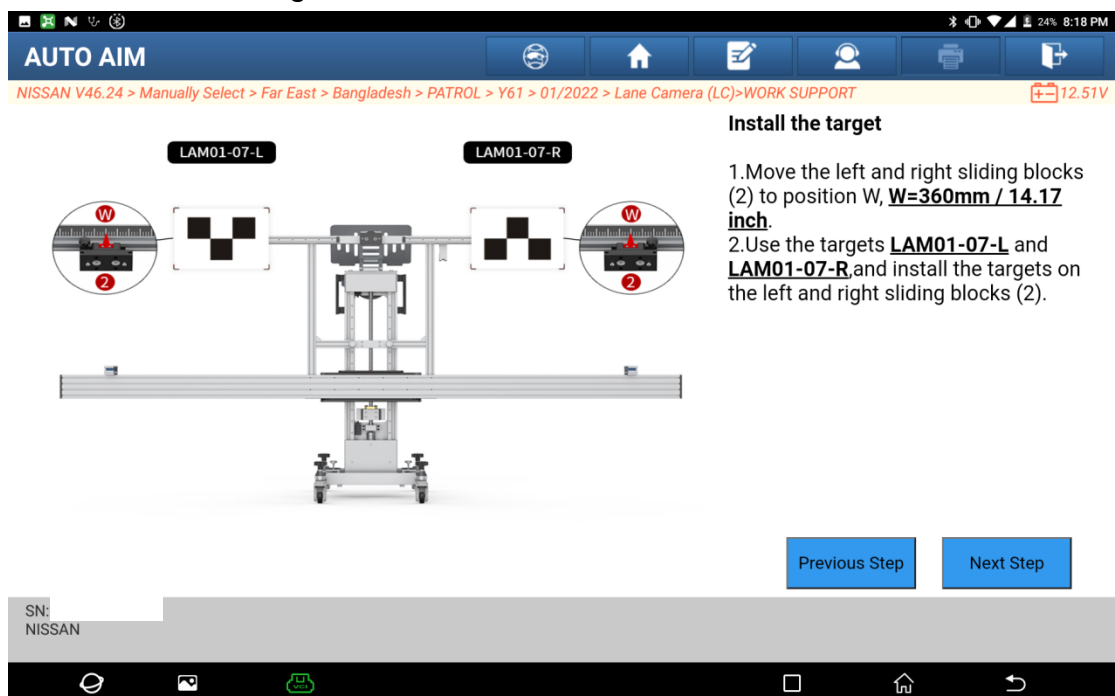


Figure 14

15. According to the instructions in Figure 14, install the target. After installation, click the [Next Step] button to enter the interface. See Figure 15.

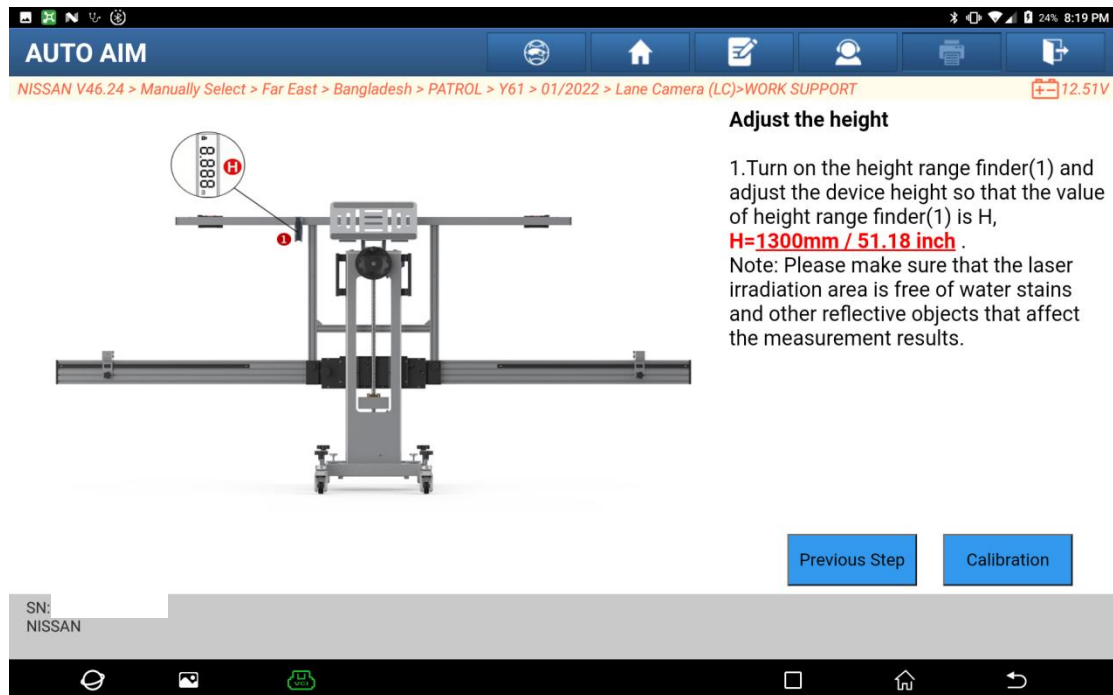


Figure 15

16. According to the instructions in Figure 15, adjust the equipment height. After adjustment, click the [Calibration] button to enter the interface. See Figure 16.



Figure 16

17. In the interface of Figure 16, click each item field and enter the corresponding data according to the prompts. After entering all data, click the [Start] button to begin calibration and enter the interface. See Figure 17.

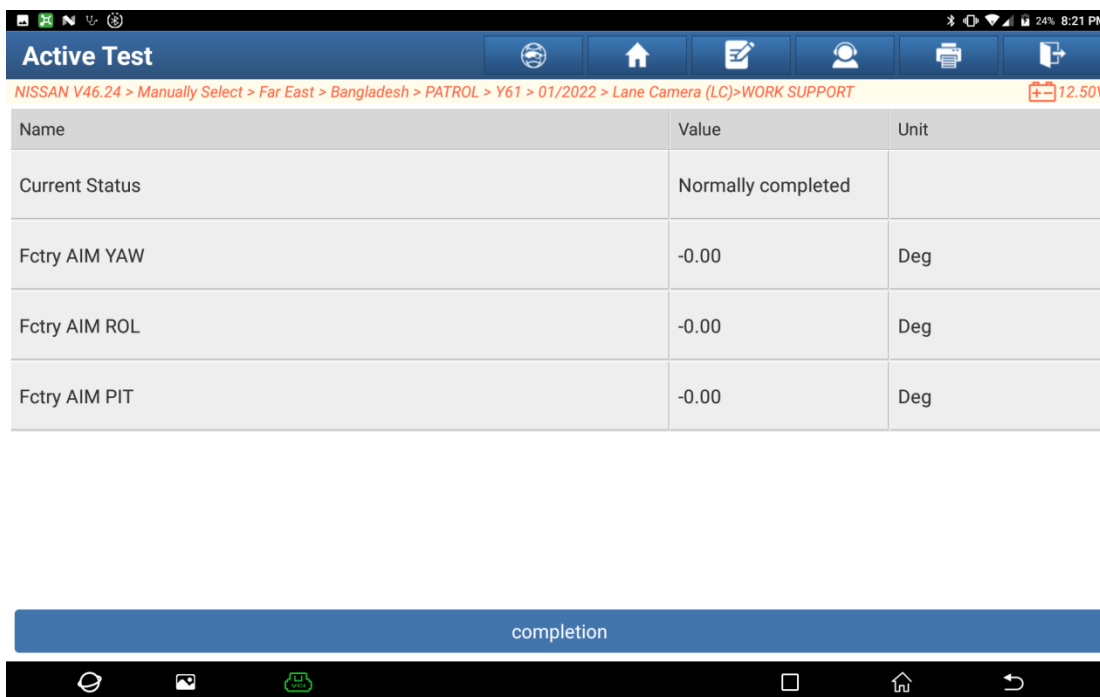


Figure 17

18. After the calibration is completed as shown in Figure 17, click the [Completion] button to enter the interface. See Figure 18.

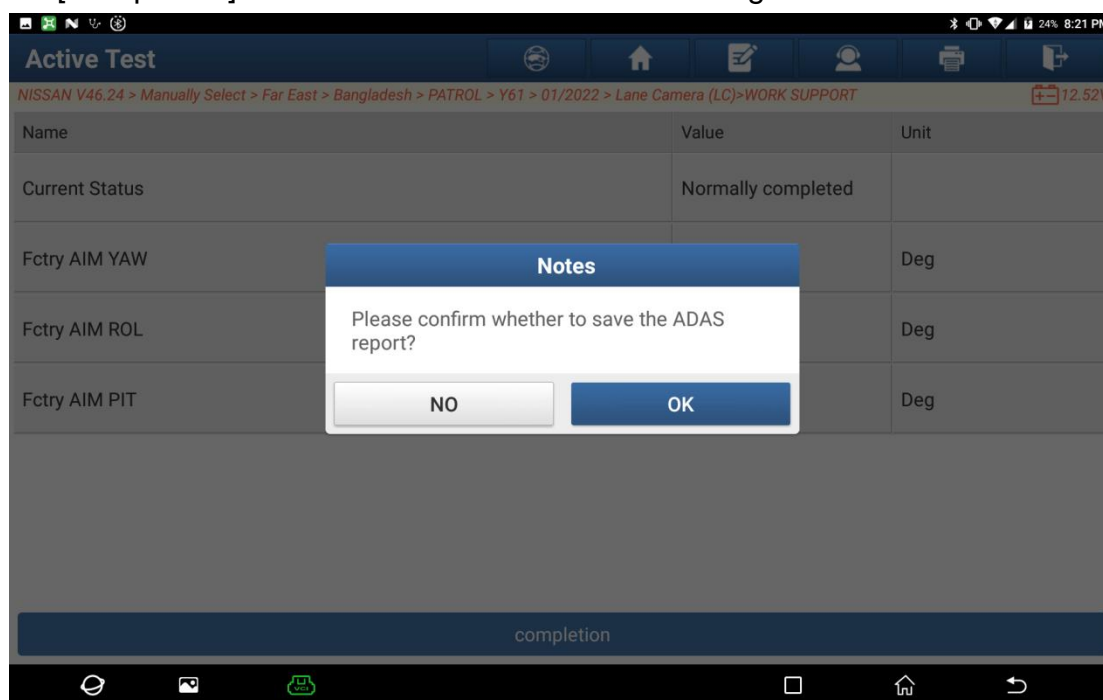


Figure 18

19. Choose whether to save the ADAS report based on user needs. If you need to save the ADAS report, click [OK]; otherwise, click [NO]. After making the selection, return to the interface. See Figure 19.

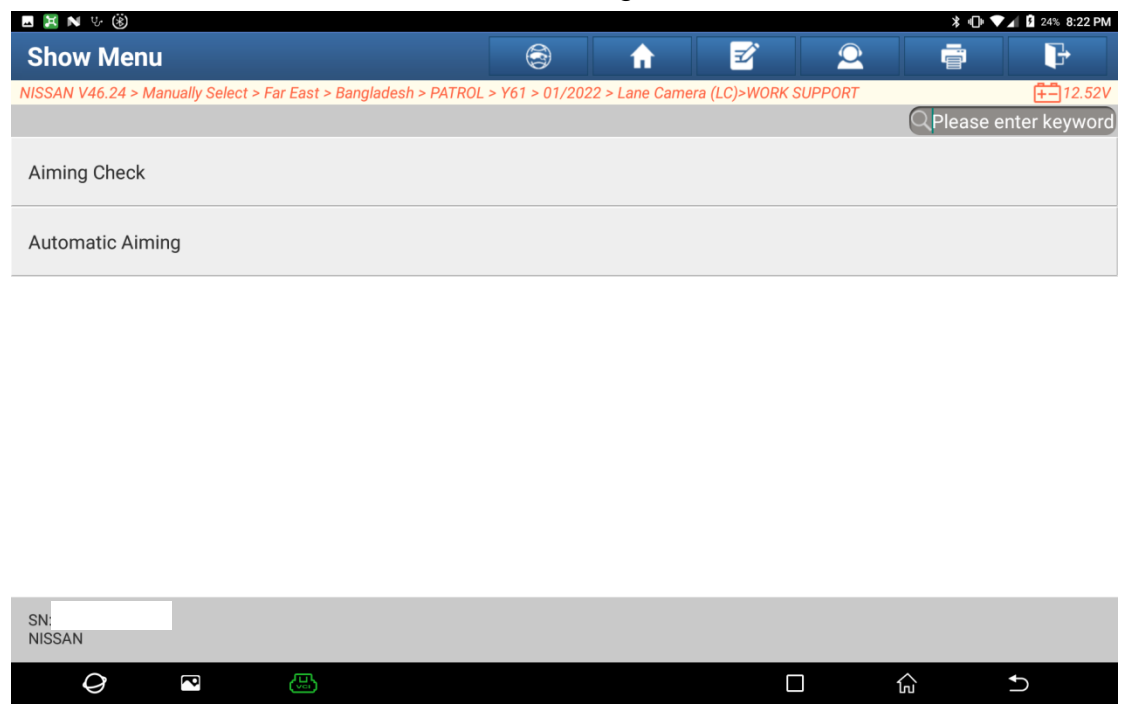


Figure 19

20. Return to the previous menu and click [Read Fault Code]. See Figure 20.

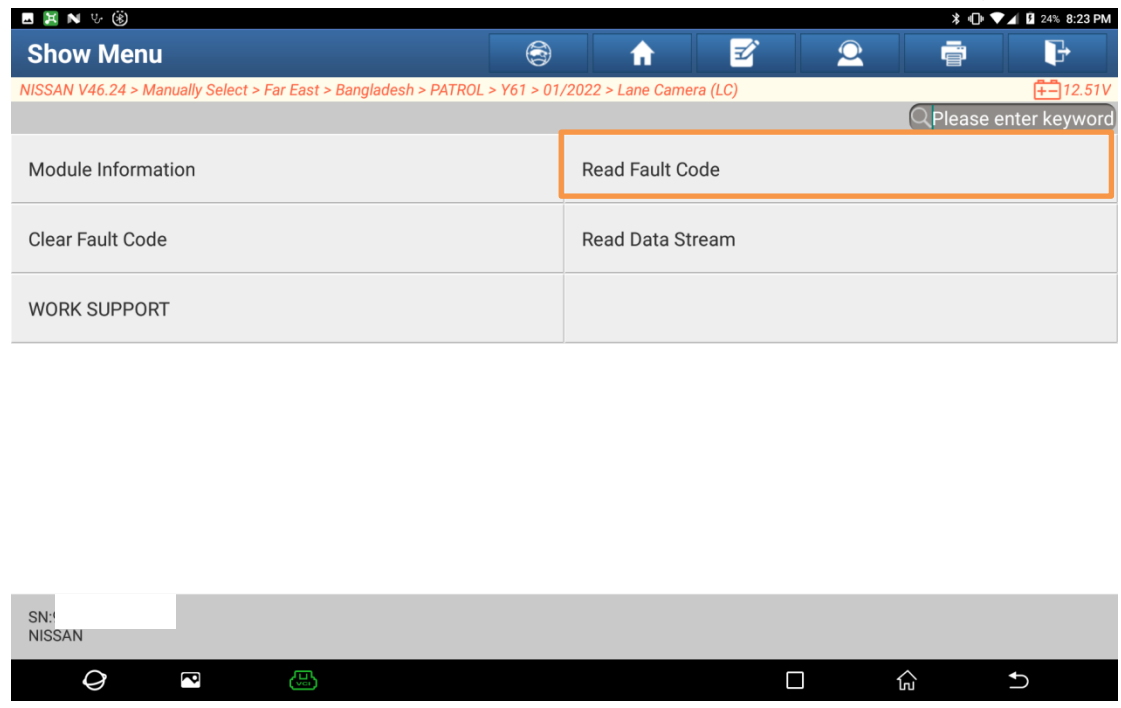


Figure 20

21. The display shows no DTCs. See Figure 21. The vehicle front camera calibration is now completed.

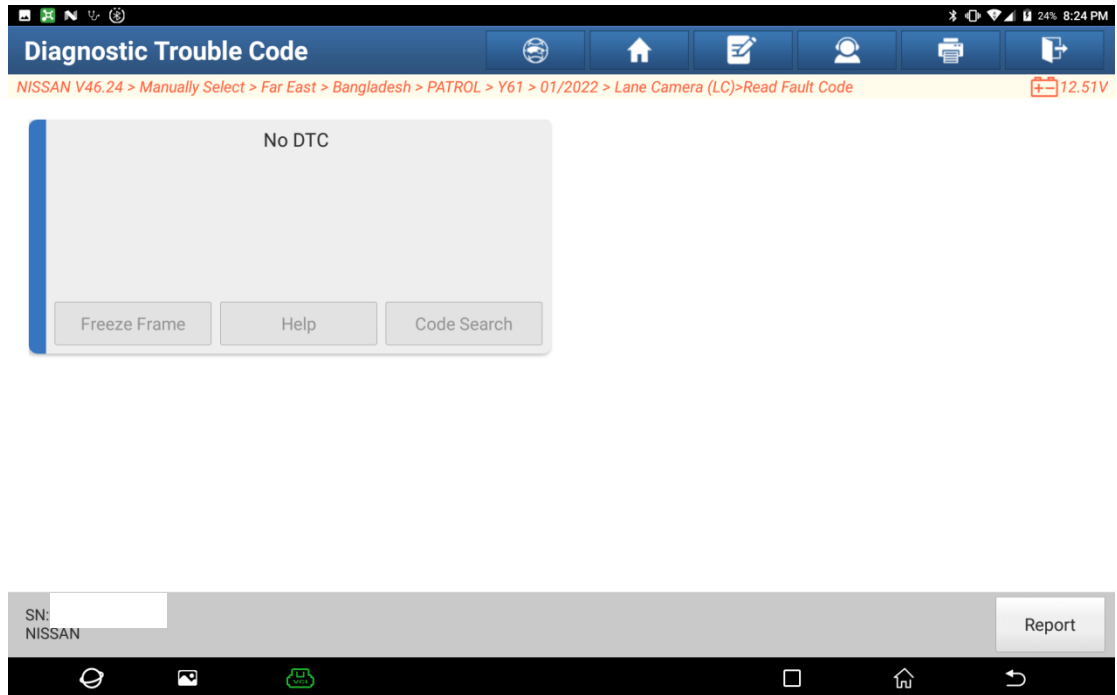


Figure 21

Statement:

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