

Nissan PATHFINDER R53 ID Registration

Tested Model: Nissan PATHFINDER R53 2025

Function Description:

1. This function is used to register the unique identification code (ID) of tire pressure sensors into the TPMS (Tire Pressure Monitoring System). (Note: The TPMS of some vehicle models is integrated in the BCM (Body Control Module)). It establishes the correspondence between tire pressure sensor IDs and tire mounting positions, so that the TPMS can correctly identify each tire position and tire pressure information.
2. After replacing tire pressure sensors, use this function to register the IDs of new sensors into the TPMS to update the tire pressure sensor information stored in the vehicle.
3. When tire positions are changed and the correspondence between tire pressure sensor IDs and actual tire mounting positions is altered, this function can be used to re-register each sensor ID to ensure that tire pressure information matches actual tire positions.
4. If the TPMS is integrated in the BCM, this function shall be performed to re-register all tire pressure sensor IDs after BCM replacement.
5. When the diagnostic tool reads fault codes related to tire pressure sensors, this function can be used to re-register tire pressure sensor IDs to troubleshoot cases where IDs are not registered correctly.

Supported Equipment: Launch PRO or PAD series comprehensive diagnostic equipment

Attention:

1. Before performing ID registration, confirm that the vehicle is parked, the ignition switch is set to the ON position, and the tire pressure sensors to be registered are correctly installed and compatible with vehicle configuration. It is recommended to connect an external stabilized power supply to maintain stable battery voltage.
2. When obtaining or entering tire pressure sensor IDs, verify ID accuracy. Perform registration sequentially following tire positions prompted by diagnostic software to ensure correct mapping between sensor IDs and

actual tire mounting positions.

3. During ID registration, do not turn off the ignition switch, disconnect the diagnostic tool, cut off vehicle power, or move the vehicle. Otherwise, registration may be interrupted or yield abnormal results.
4. If function execution fails, check tire pressure sensor installation status, ID information, vehicle power supply, and diagnostic communication.
Re-run the ID registration function after eliminating relevant abnormalities.

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).

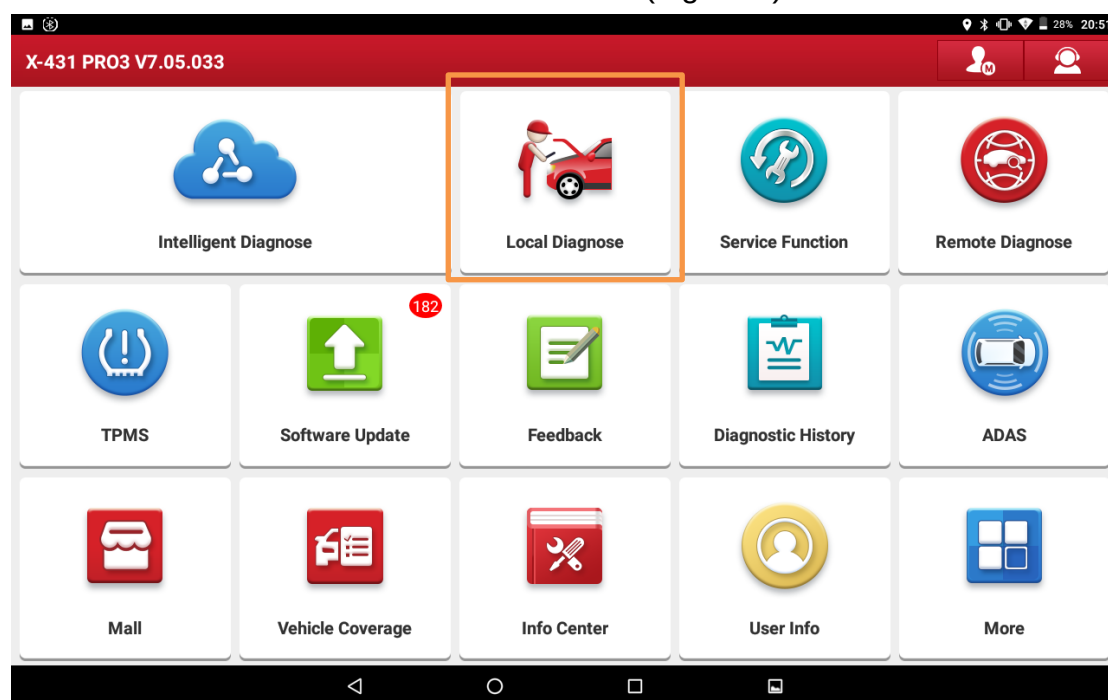


Figure 1

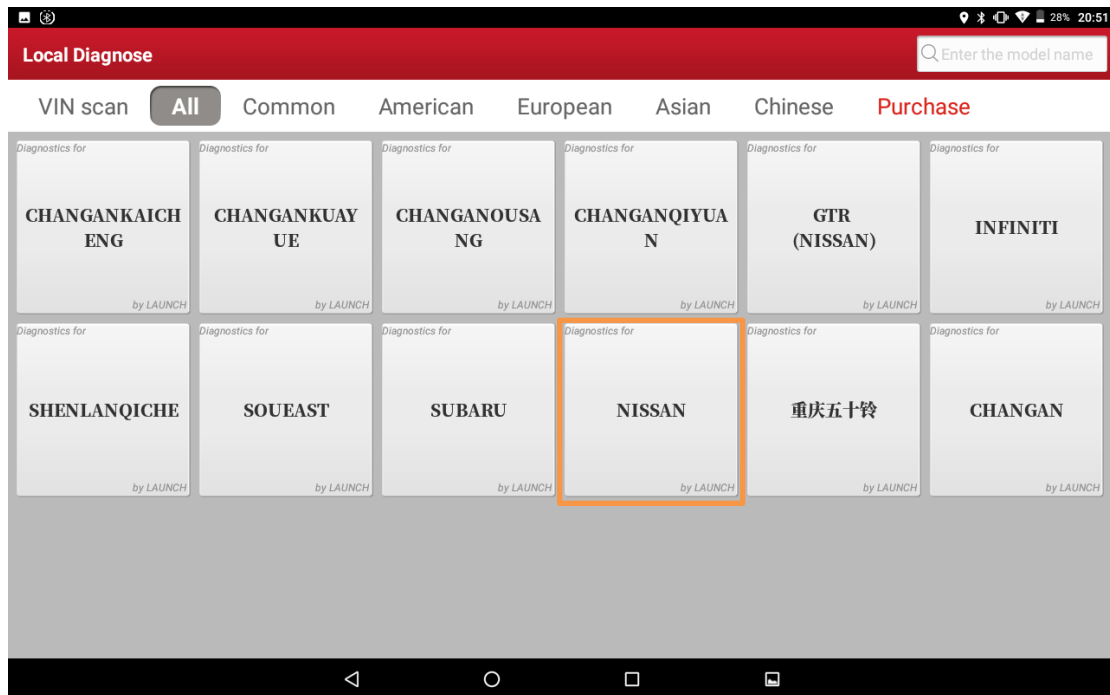


Figure 2

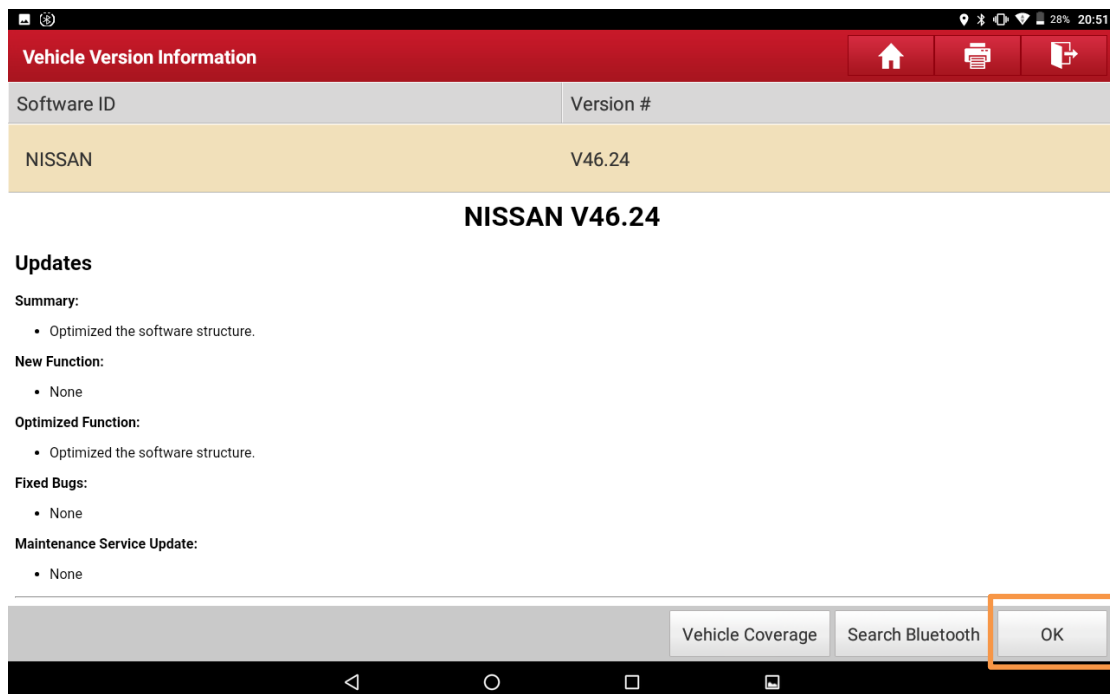


Figure 3

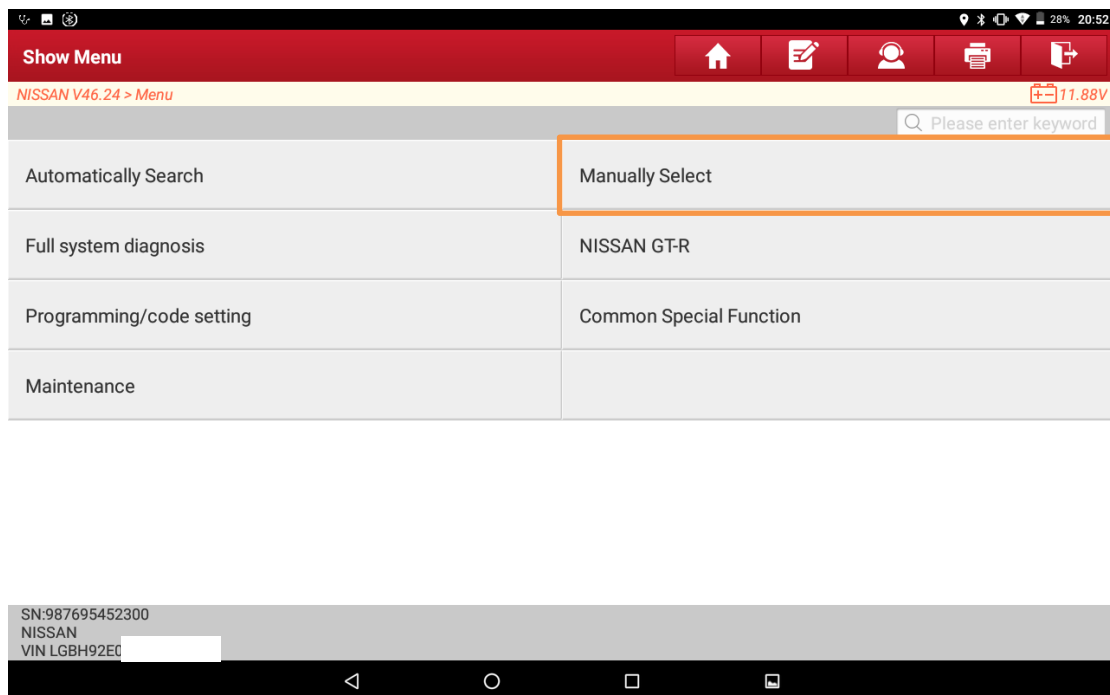


Figure 4

- Click [Manually Select], and choose [Middle and Near East] > [Kuwait] > [PATHFINDER] > [R53] > [02/2025] to enter the vehicle model system interface (Figure 5).

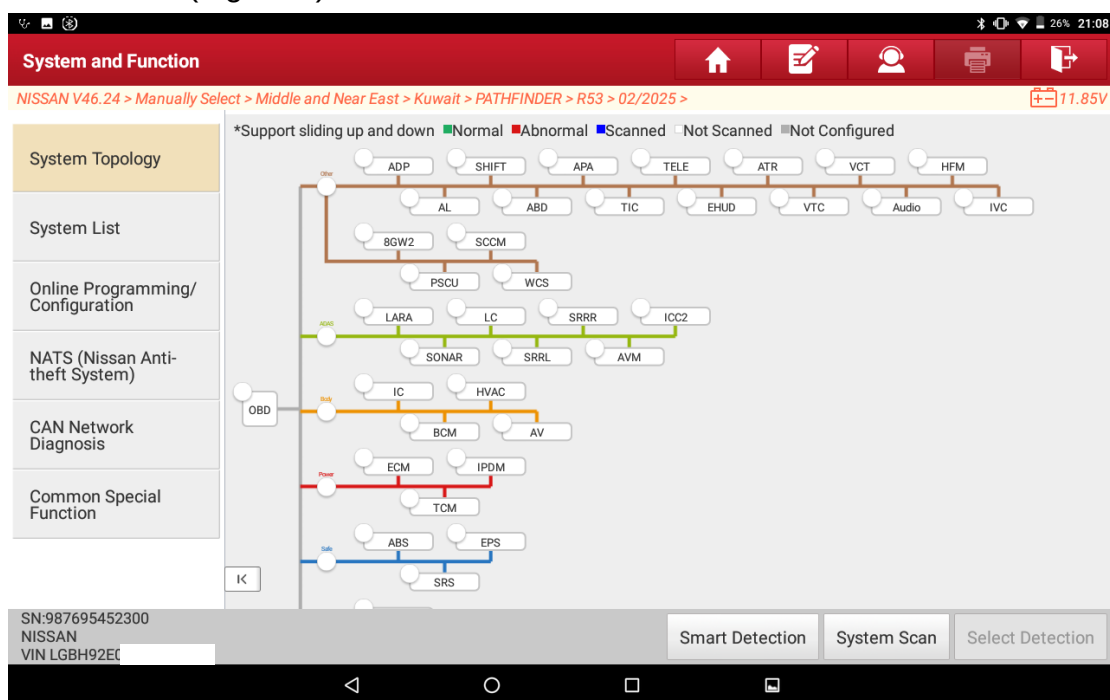


Figure 5

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

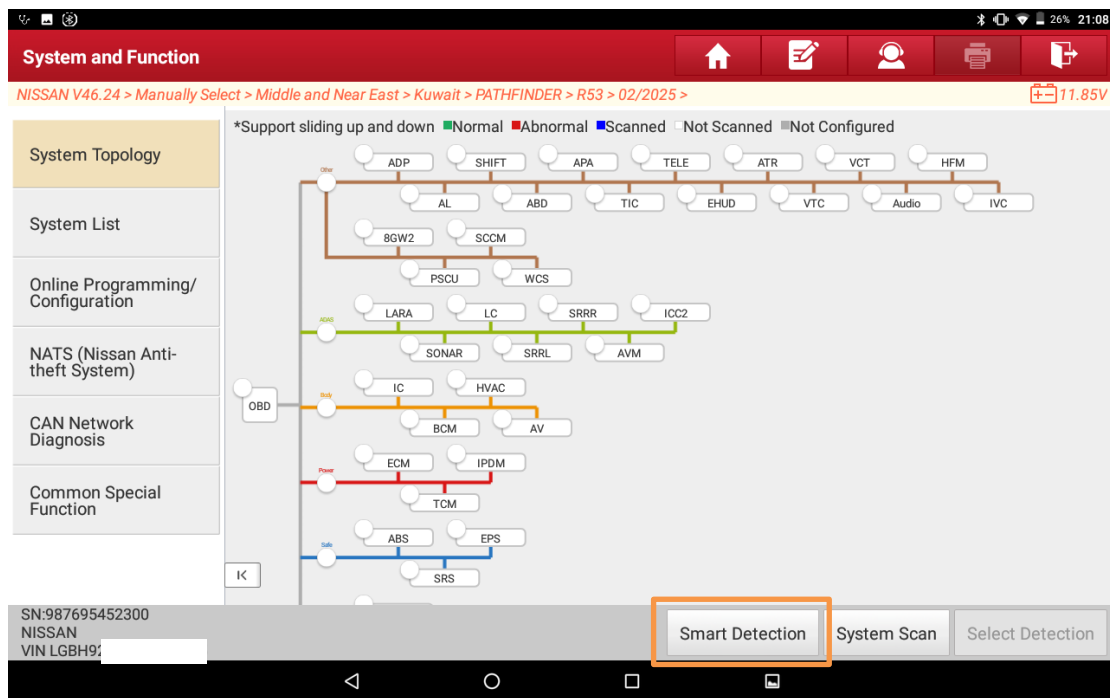


Figure 6

4. After the detection is completed, click [BCM] on the system topology (Figure 7) to display BCM DTC information (Figure 8 and Figure 9). If the diagnostic tool retrieves fault codes related to tire pressure sensors (as shown in Figures 8 and 9), first rule out peripheral issues such as sensor hardware, power supply, communication, and related wiring faults. If the relevant fault codes persist after ruling out these issues, the cause may be an incorrectly registered tire pressure sensor ID or abnormal registration data. In this case, perform the ID registration function to re-register the tire pressure sensor IDs. Click "ENTER" to enter the BCM (Body Control Module) menu interface.

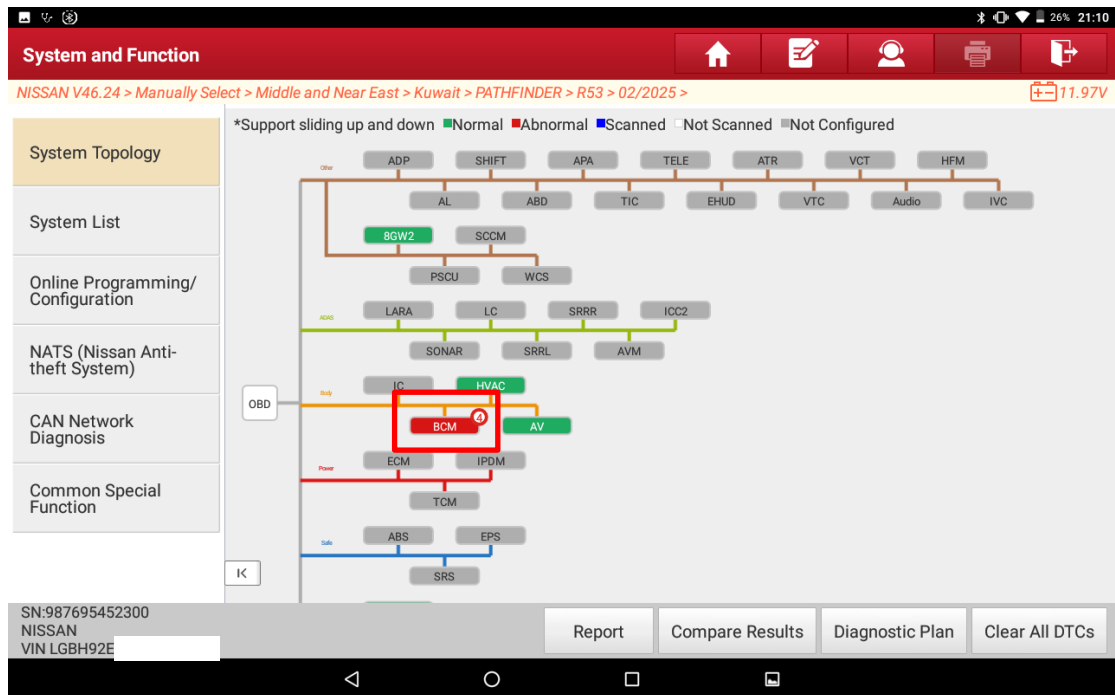


Figure 7

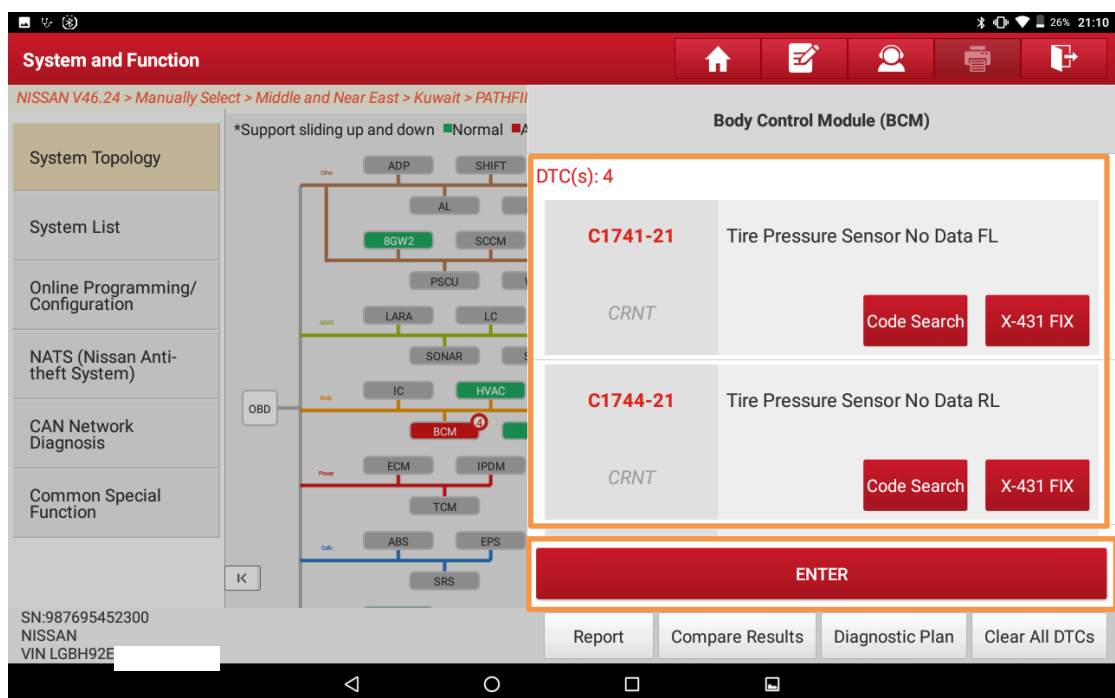


Figure 8

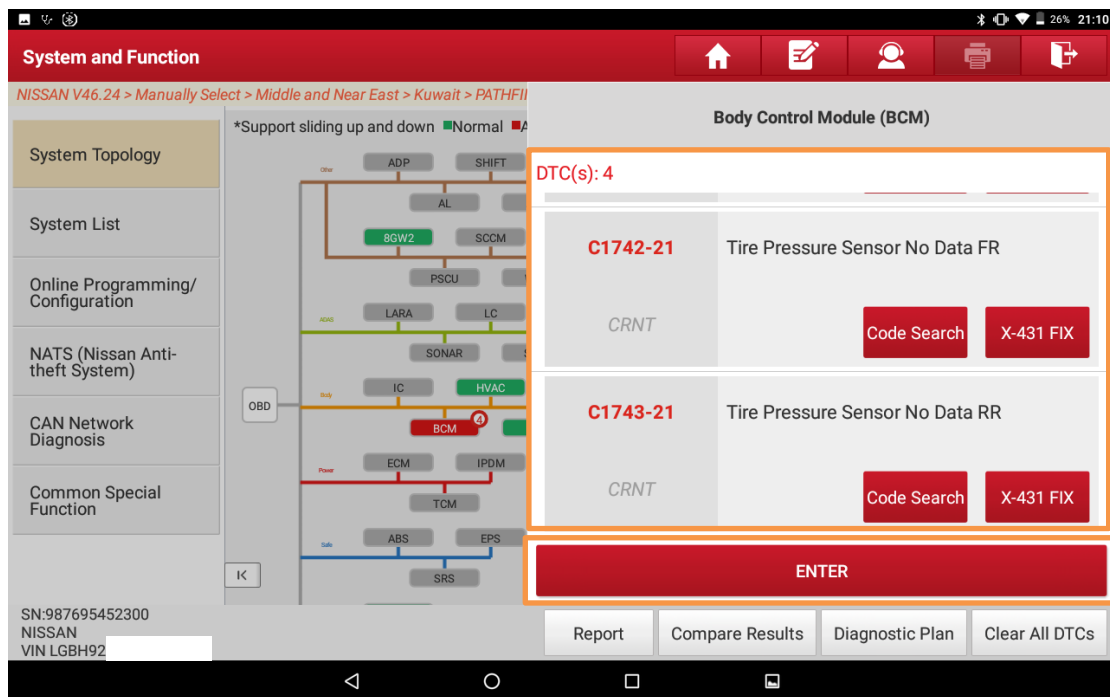


Figure 9

5. On the BCM menu interface, choose [WORK SUPPORT] to enter the [WORK SUPPORT] menu interface of the BCM (Figure 10).

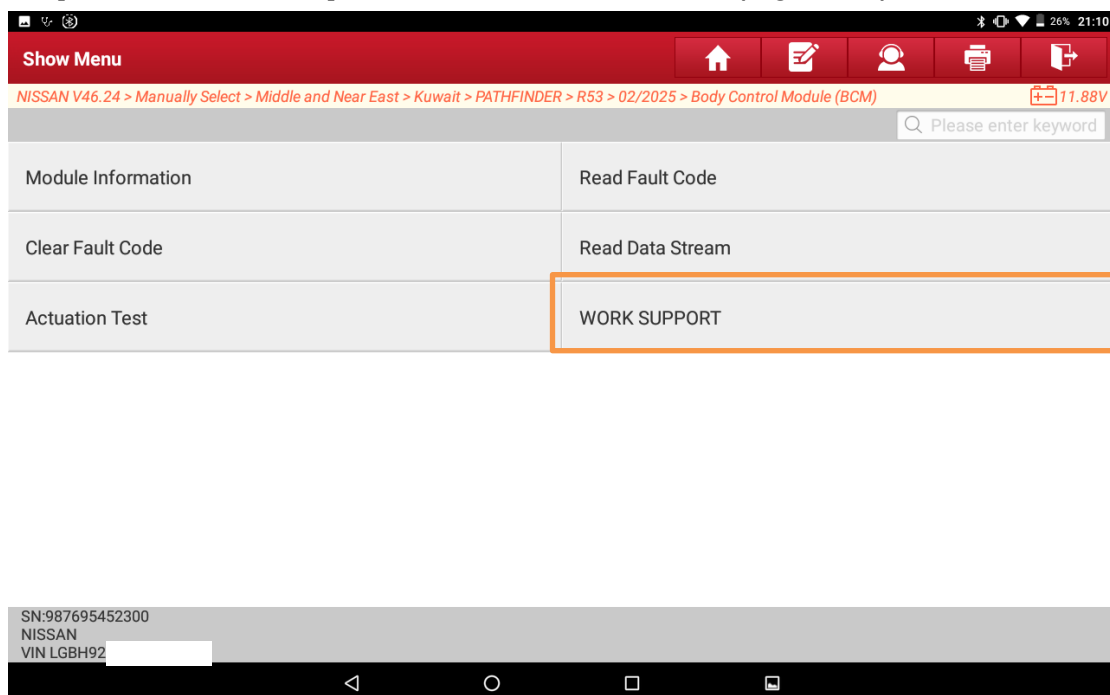


Figure 10

6. On the [WORK SUPPORT] menu interface, choose [ID Regist] (Figure 11) to enter the ID registration function interface. The IDs of the four tire pressure sensors prior to registration will be displayed.

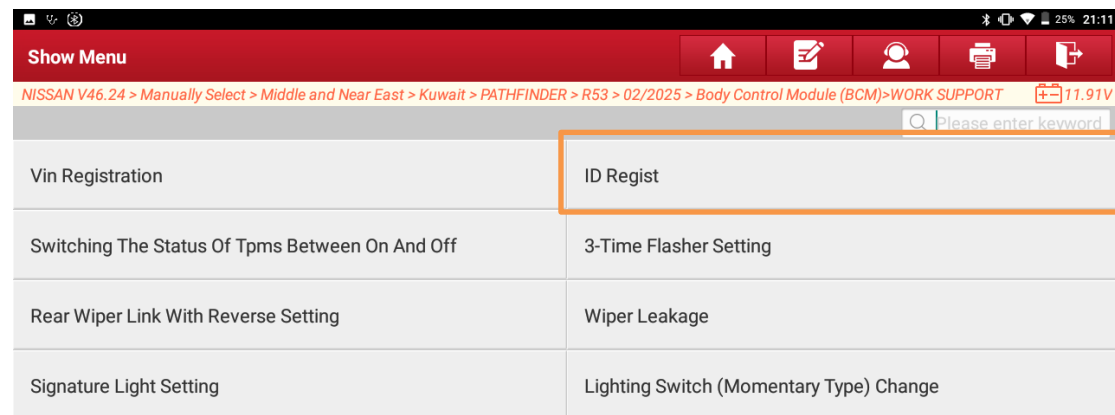
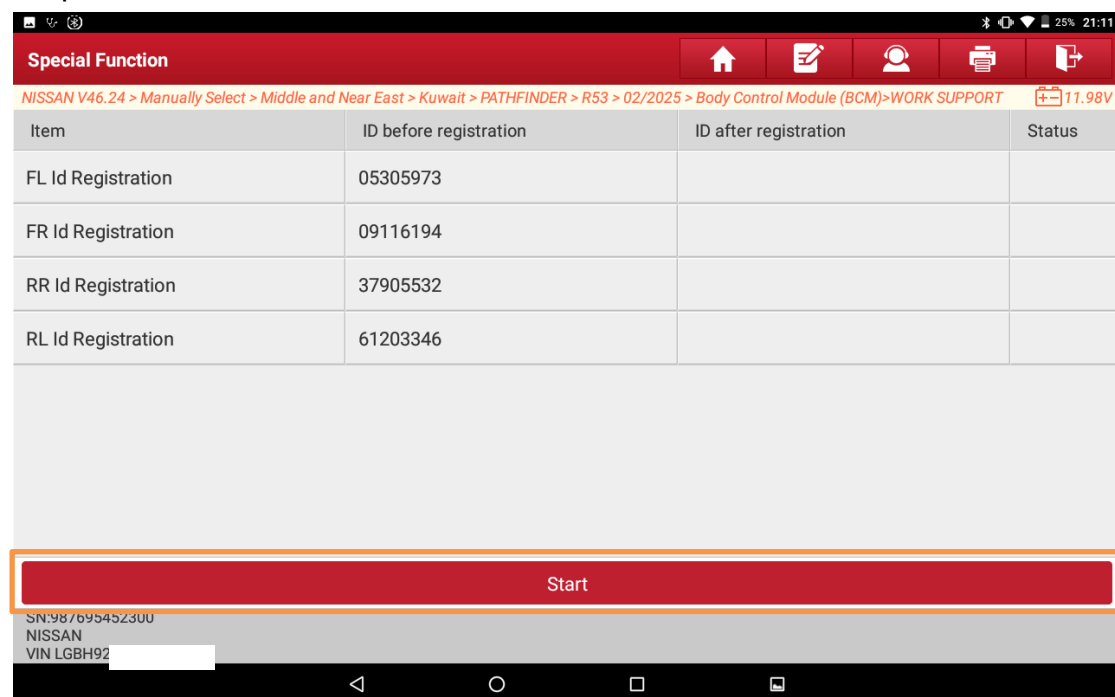


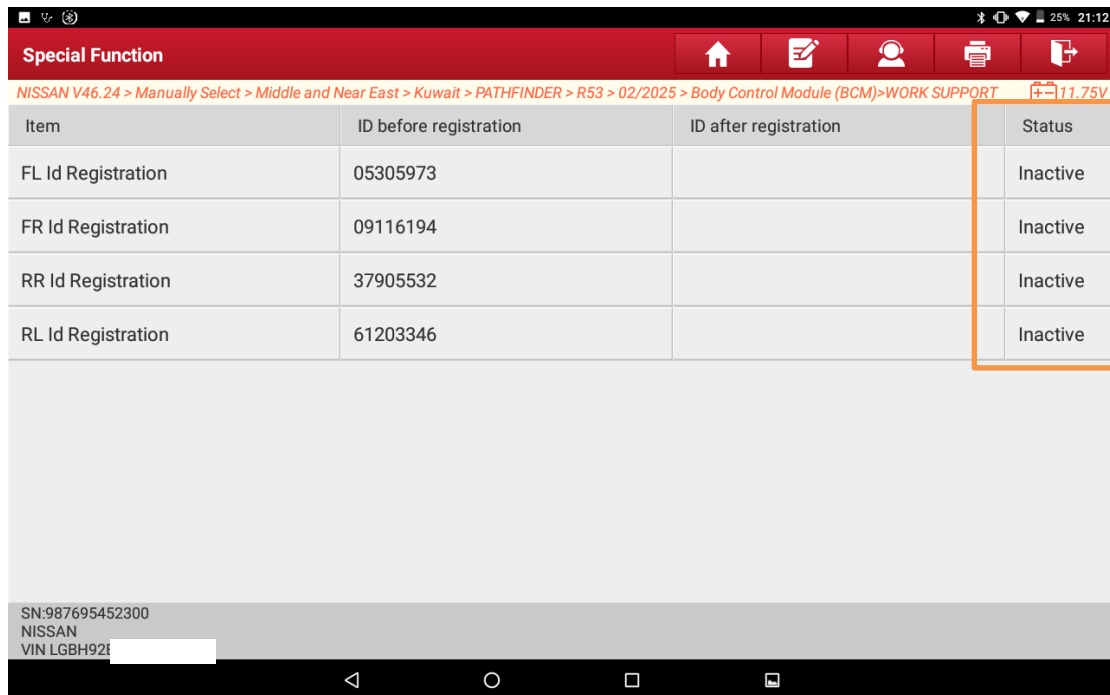
Figure 11

7. On the ID registration function interface, click "Start" as shown in Figure 12. A prompt pop-up window will appear as shown in Figure 13. Carefully read the on-screen prompts. After clicking the "Start" button, use a professional ID registration tool (as shown in Figure 14) to register the IDs of the four tire pressure sensors. Then, click "OK" to start function execution.



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8. Before ID registration execution, the status of each ID on the interface shows "Inactive", as shown in Figure 15.

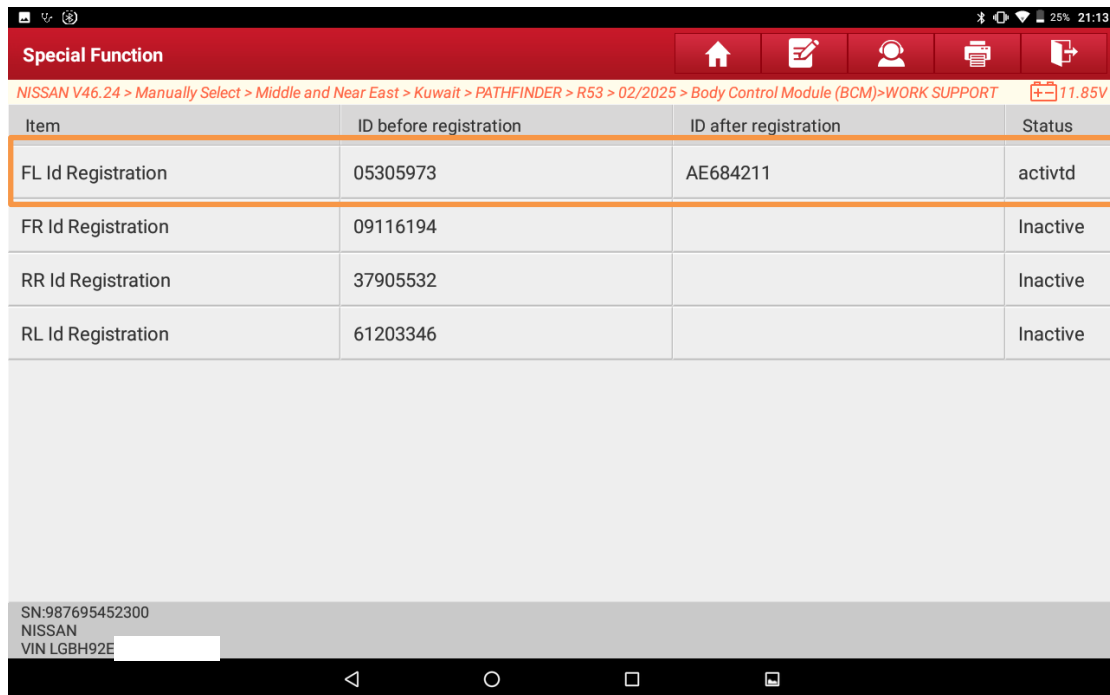


The screenshot shows a mobile application interface titled "Special Function". At the top, there is a navigation bar with icons for Home, Settings, Help, Print, and Share. Below the navigation bar, a breadcrumb trail reads: "NISSAN V46.24 > Manually Select > Middle and Near East > Kuwait > PATHFINDER > R53 > 02/2025 > Body Control Module (BCM)>WORK SUPPORT". A battery icon shows 25% charge and the time is 21:12. The main content area contains a table with four columns: "Item", "ID before registration", "ID after registration", and "Status". The table lists four items: "FL Id Registration", "FR Id Registration", "RR Id Registration", and "RL Id Registration". Each item has a corresponding ID before registration (05305973, 09116194, 37905532, and 61203346 respectively) and an empty "ID after registration" field. The "Status" column for all items is "Inactive". An orange box highlights the "Status" column. At the bottom of the screen, there is a grey bar displaying "SN:987695452300", "NISSAN", and "VIN LGBH92".

Item	ID before registration	ID after registration	Status
FL Id Registration	05305973		Inactive
FR Id Registration	09116194		Inactive
RR Id Registration	37905532		Inactive
RL Id Registration	61203346		Inactive

Figure 15

9. Using the professional TPMS ID registration tool, activate the IDs sequentially in the order of [Front Left -> Front Right -> Rear Right -> Rear Left]. Upon each successful activation, the status of the tire pressure sensor ID changes from "Inactive" to "Activated", and the diagnostic tool reads the registered ID in real-time, displaying it on the function interface. Use the TPMS ID registration tool to activate the FL wheel ID. The diagnostic tool interface changes as shown in Figure 16.



Special Function

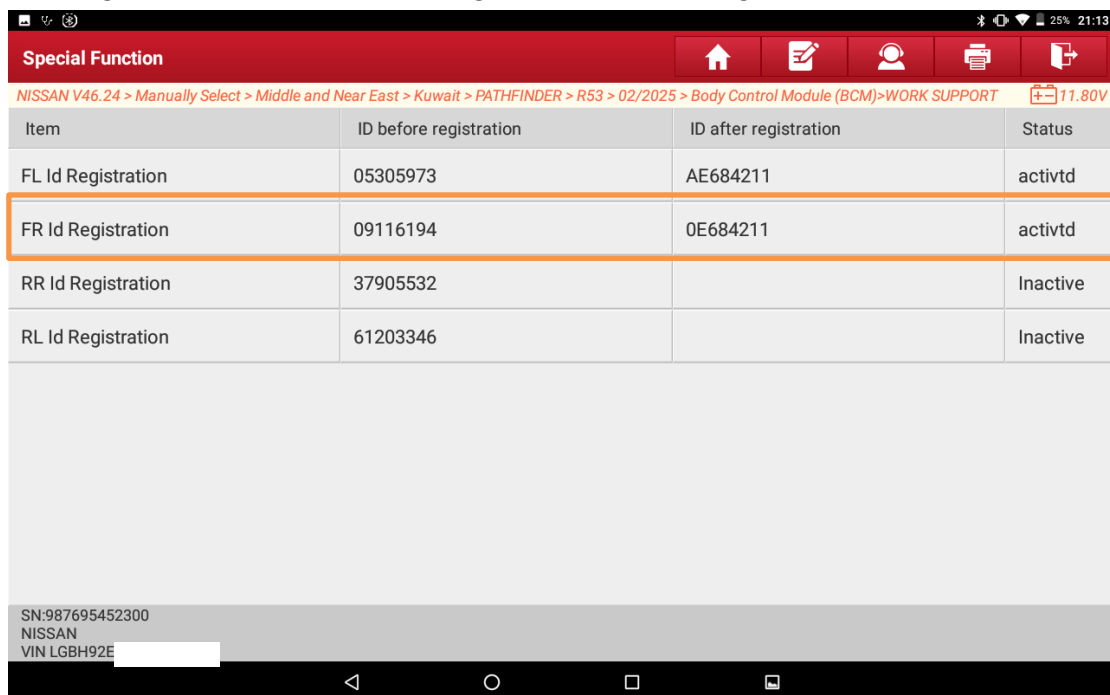
NISSAN V46.24 > Manually Select > Middle and Near East > Kuwait > PATHFINDER > R53 > 02/2025 > Body Control Module (BCM)>WORK SUPPORT 11.85V

Item	ID before registration	ID after registration	Status
FL Id Registration	05305973	AE684211	activtd
FR Id Registration	09116194		Inactive
RR Id Registration	37905532		Inactive
RL Id Registration	61203346		Inactive

SN:987695452300
NISSAN
VIN LGBH92E

Figure 16

10. Use the TPMS ID registration tool to activate the FR wheel ID. The diagnostic tool interface changes as shown in Figure 17.



Special Function

NISSAN V46.24 > Manually Select > Middle and Near East > Kuwait > PATHFINDER > R53 > 02/2025 > Body Control Module (BCM)>WORK SUPPORT 11.80V

Item	ID before registration	ID after registration	Status
FL Id Registration	05305973	AE684211	activtd
FR Id Registration	09116194	0E684211	activtd
RR Id Registration	37905532		Inactive
RL Id Registration	61203346		Inactive

SN:987695452300
NISSAN
VIN LGBH92E

Figure 17

11. Use the TPMS ID registration tool to activate the RR wheel ID. The diagnostic tool interface changes as shown in Figure 18.

Item	ID before registration	ID after registration	Status
FL Id Registration	05305973	AE684211	activtd
FR Id Registration	09116194	0E684211	activtd
RR Id Registration	37905532	0E084211	activtd
RL Id Registration	61203346		Inactive

SN:987695452300
NISSAN
VIN LGBH92E [redacted]

Figure 18

12. Use the TPMS ID registration tool to activate the RL wheel ID. At this point, all tire pressure sensor IDs have been activated; the status bars for all four IDs show "Registered", and the registered ID for each tire pressure sensor is visible on the interface, as shown in Figure 19.

Item	ID before registration	ID after registration	Status
FL Id Registration	05305973	AE684211	Registered
FR Id Registration	09116194	0E684211	Registered
RR Id Registration	37905532	0E084211	Registered
RL Id Registration	61203346	0E084247	Registered

Stop

SN:987695452300
NISSAN
VIN LGBH92E [redacted]

Figure 19

13. After confirming that all tire pressure sensor IDs are registered and that the registered IDs correspond exactly to the IDs printed on the sensor hardware, click "Stop" (Figure 20) to return to the [WORK SUPPORT] menu interface of the BCM.

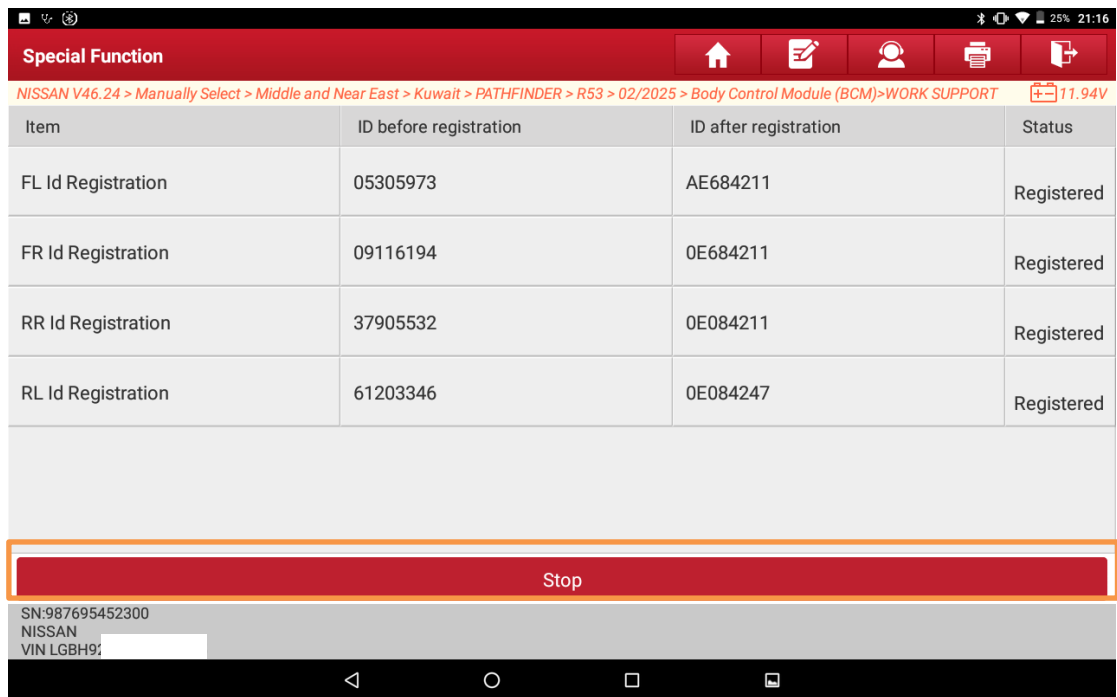


Figure 20

14. Return to the BCM menu interface, choose [Clear Fault Code], click "Yes", and then click "OK" to clear the DTC information (Figure 21).

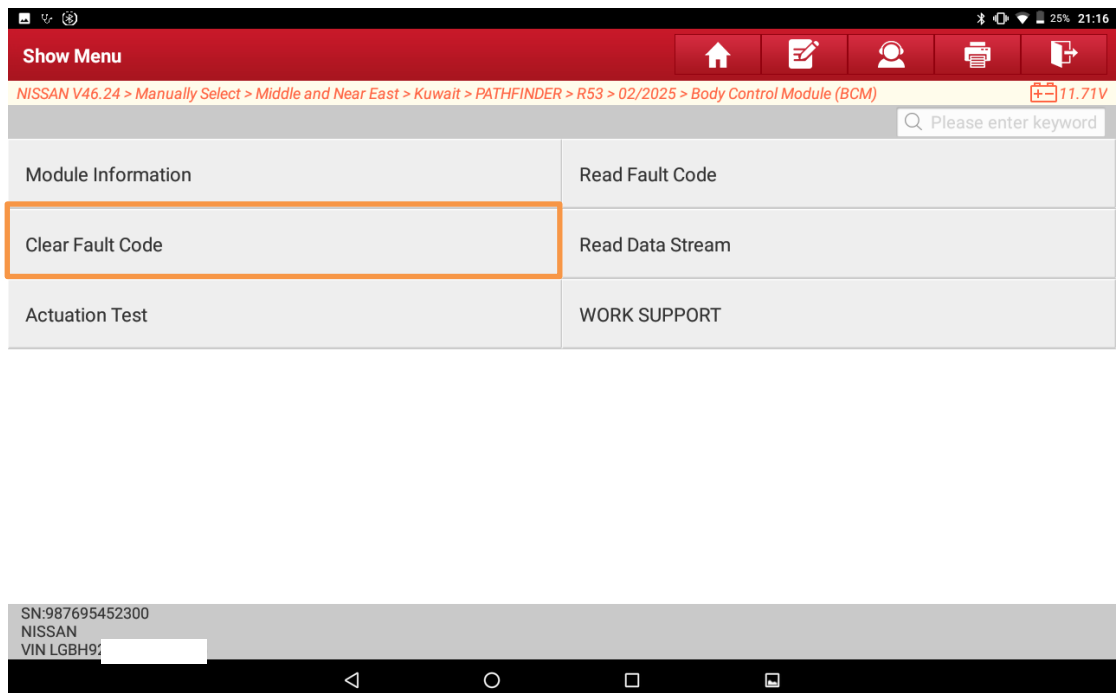


Figure 21

- On the BCM menu interface, choose [Read Fault Code] (Figure 22) to read the BCM DTC information. No DTC is displayed (Figure 23), indicating that ID registration is successful. The ID registration special function operations are now completed.

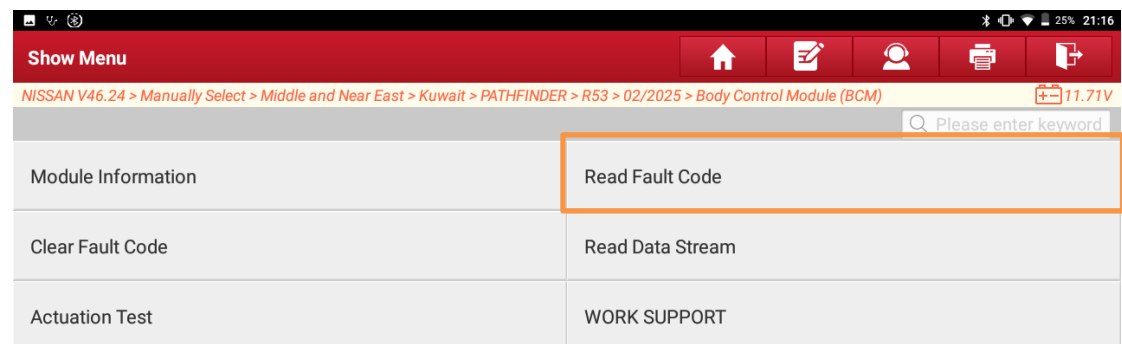


Figure 22

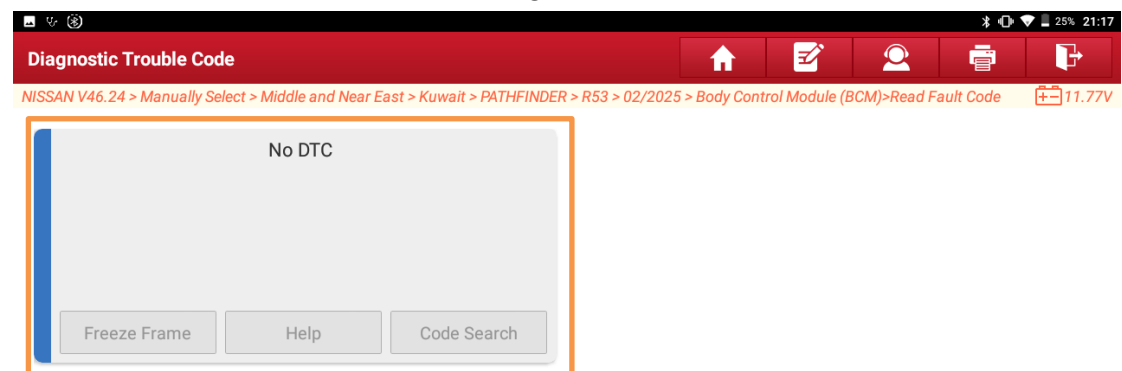


Figure 23

Statement:

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