NISSAN ALTIMA L34 2024 Idle Air Quantity Learning

Tested Model: NISSAN ALTIMA L34 2024

Function Description:

This function allows the ECM to learn the position of the IACV-ACC to maintain the engine idle speed. Be sure to execute this mode after replacing the IACV-AAC valve, throttle body, ECM, or when the idle speed or ignition timing is out of the specified range. For details, refer to the service manual.

Execution Conditions:

Before performing this function, confirm that all the following conditions are met. Even for a moment, if any of the conditions are not met, the adjustment process will not be completed.

- Engine speed: >0 and <1200 rpm
- Engine coolant temperature: 70-100 degrees Celsius (158-194 degrees Fahrenheit)
- Vehicle speed: Stopped
- Battery voltage: Greater than 12V (at idle)
- Neutral/Parking gear: On
- Electrical load switches: Off (A/C, headlights, rear window defogger)
- For vehicles equipped with daytime running lights, set the light switch to gear 1, with only the small lights on
- Cooling fan motor: Not running
- Steering wheel: Center position (straight ahead position)

Procedure:

1. On an X431-PAD 5, choose [Local Diagnosis], and then choose [Nissan] to enter the menu (as shown in Figure 1).
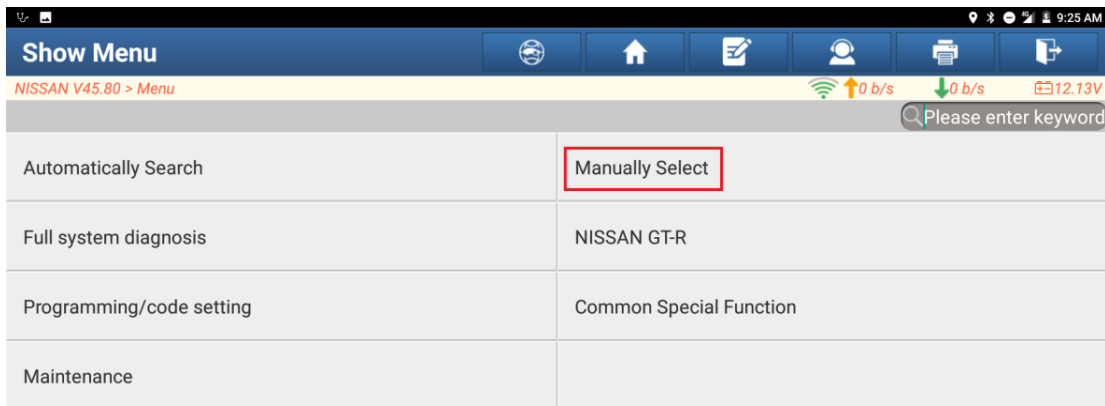

Figure 1

2. Choose [Manually Select -> North America -> American Samoa -> ALTIMA -> L34 -> 2024-] in sequence to enter the full vehicle systems, and click [Smart Detection] to scan the full vehicle systems (as shown in Figure 2).
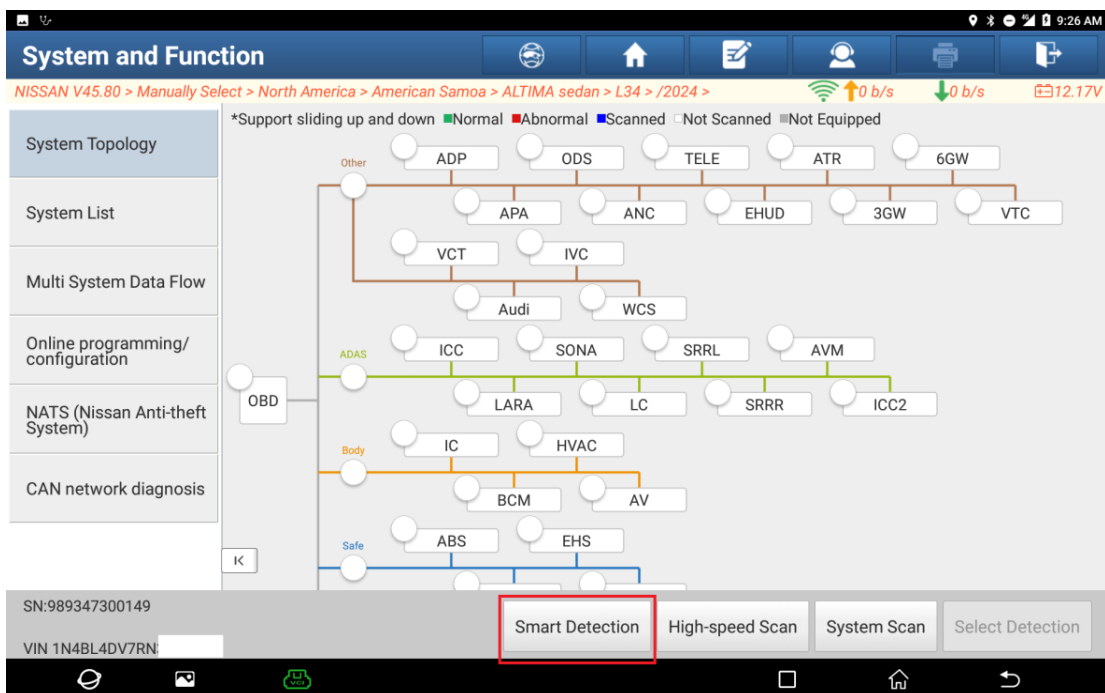

Figure 2

3. Choose [System List] and then choose [Engine Control Module (ECM)] (as shown in Figure 3).

Figure 3

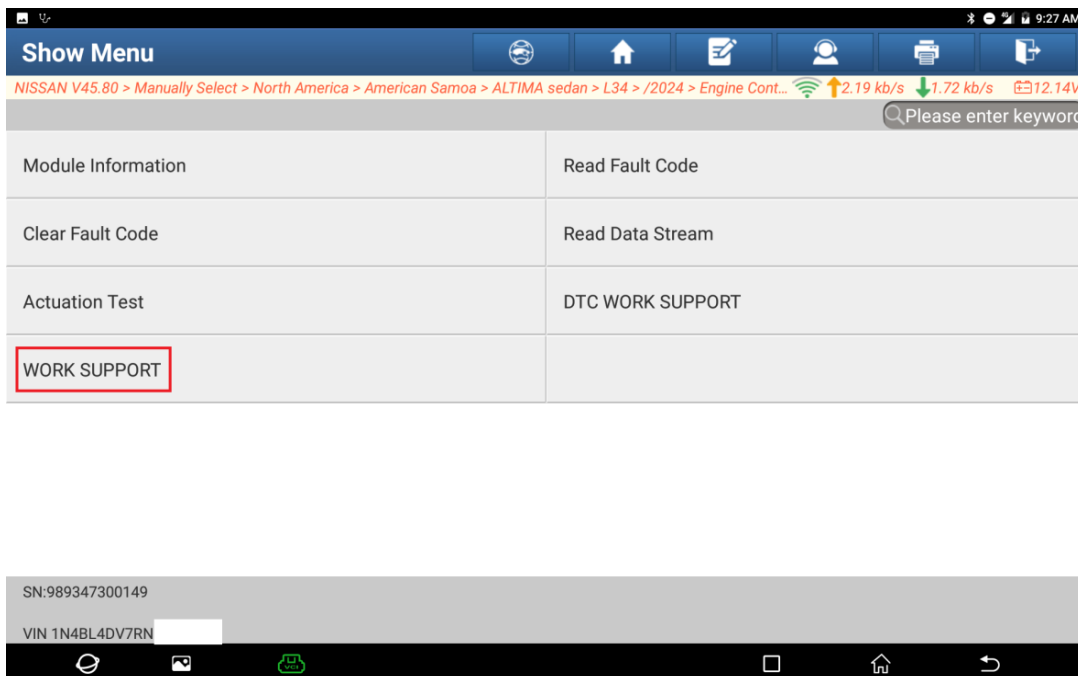4. Choose [WORK SUPPORT] (as shown in Figure 4).

Figure 4

5. Choose [Idle Air Quantity Learning] (as shown in Figure 5).
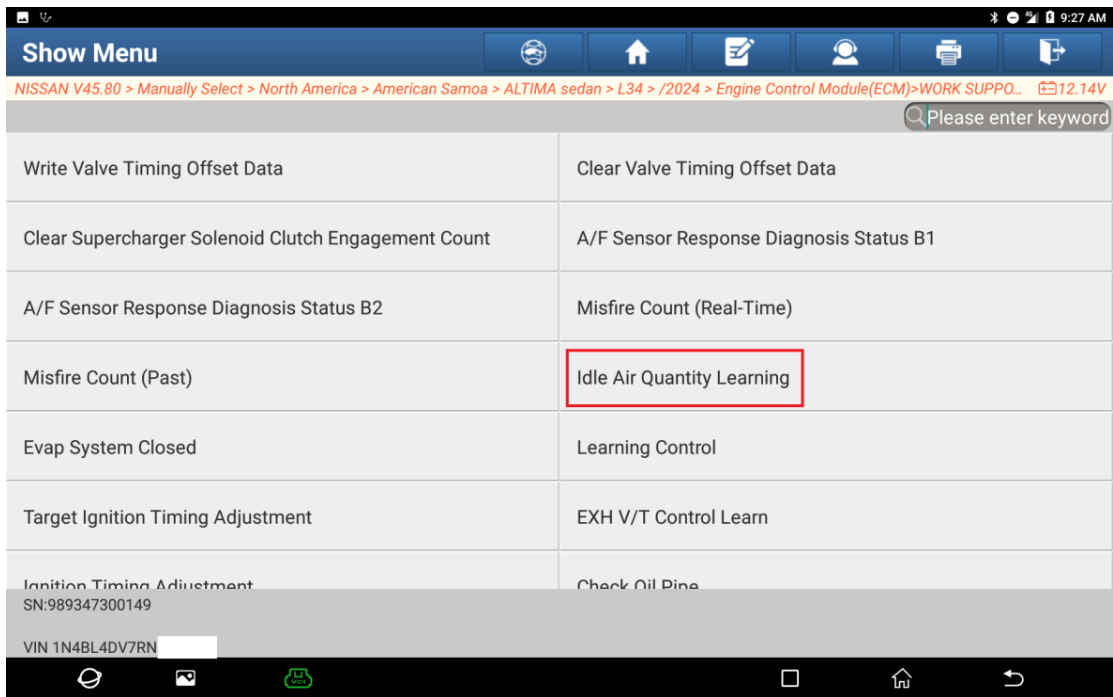

Figure 5

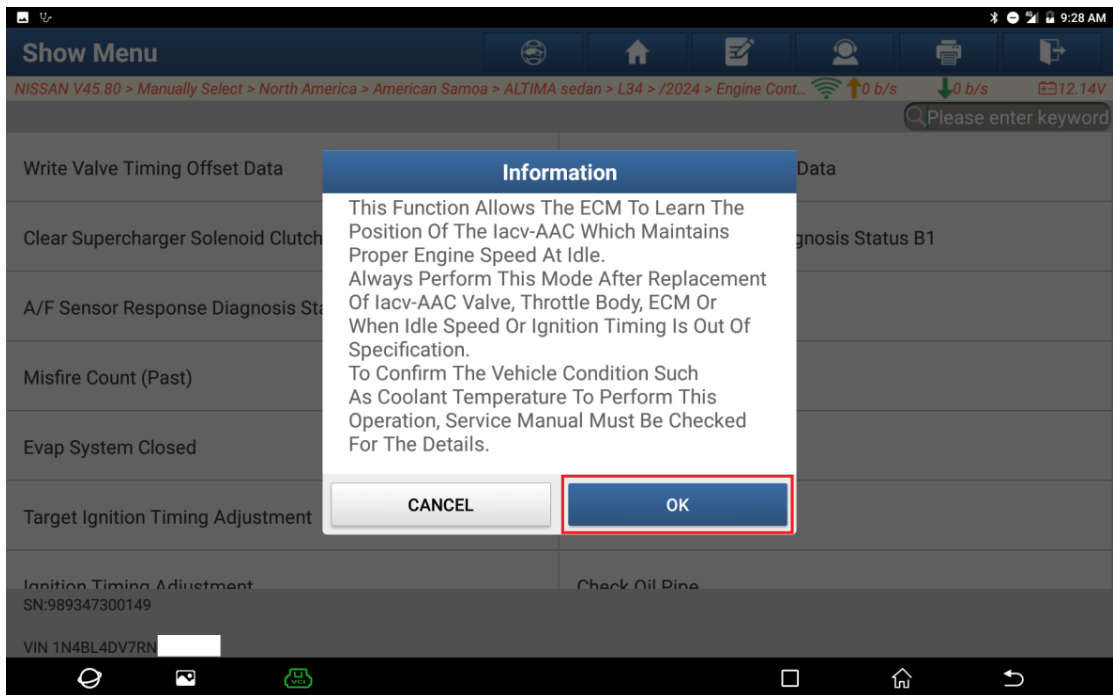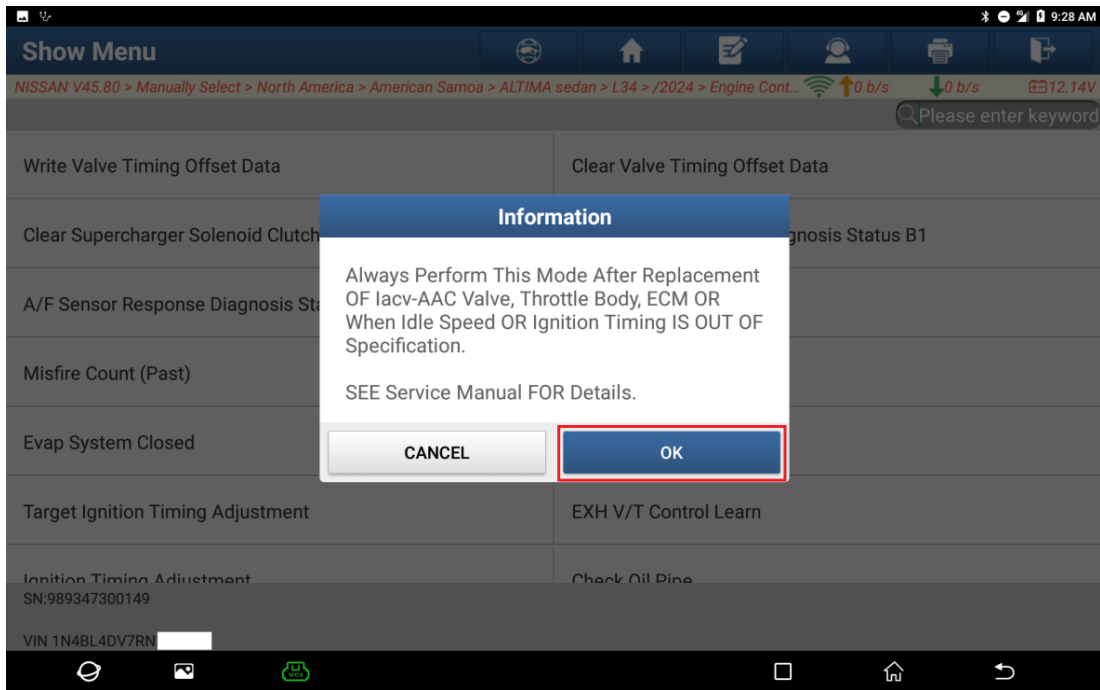6. Confirm the prompt information and click OK to enter the next step.

Figure 6

Figure 7

7.   Click [Start] to learn (as shown in Figure 8).
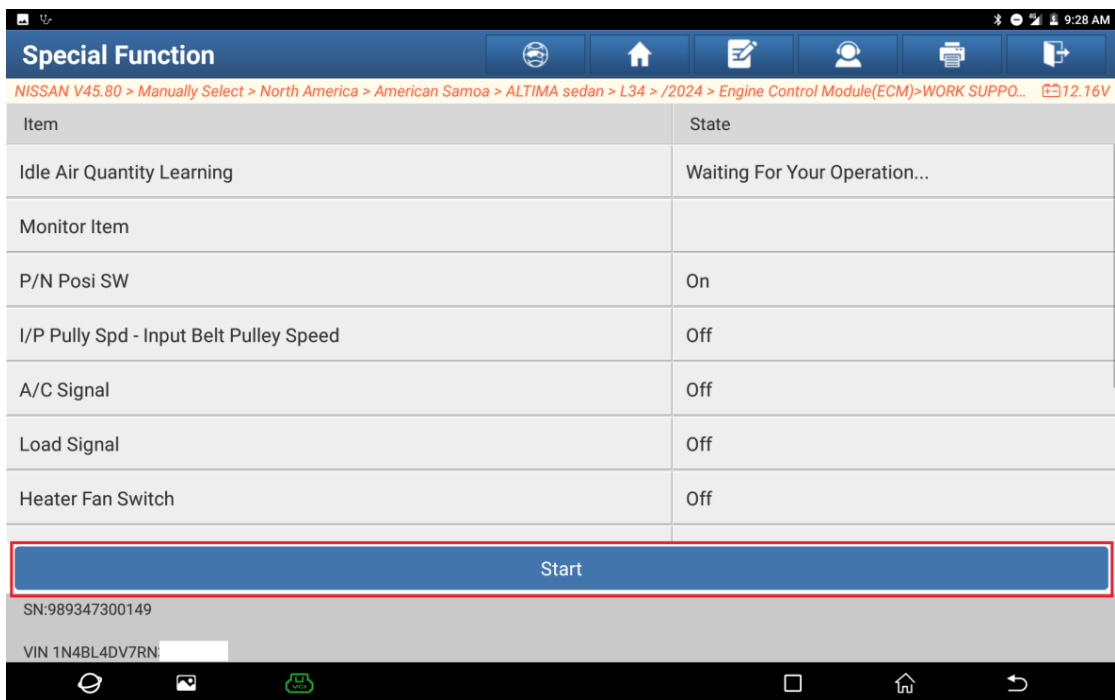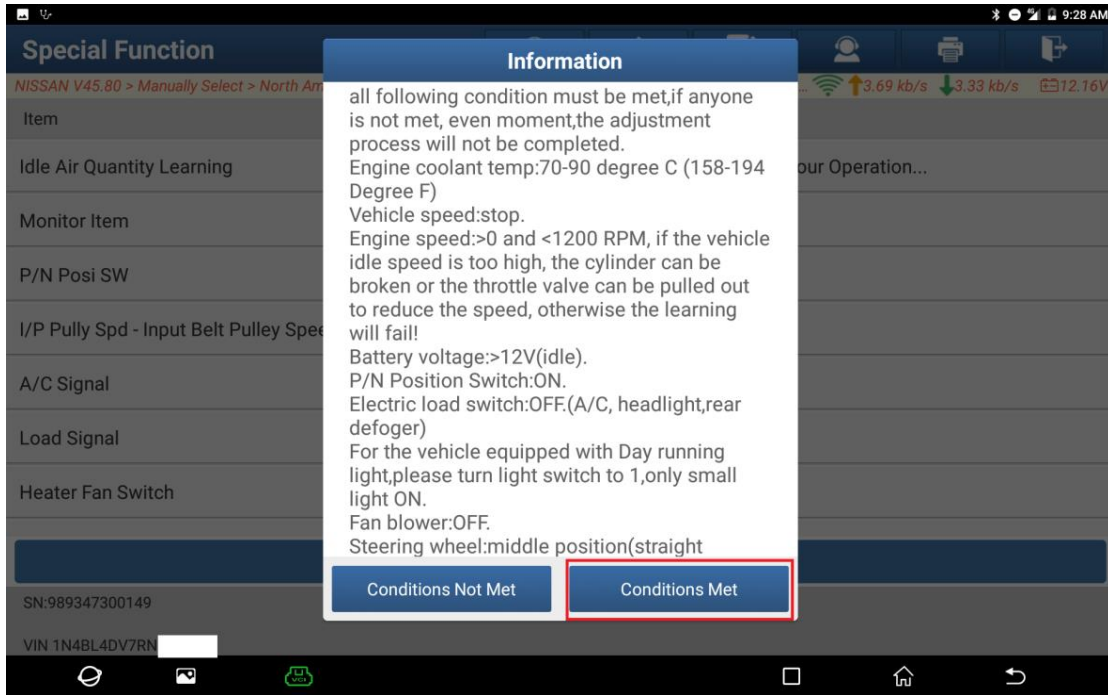

Figure 8

8. The matching precautions are displayed. Choose [Conditions Met] to display the data before learning (as shown in Figure 8).

9. The idle air quantity learning status value is displayed as "Completed", and the learning is completed (as shown in Figure 10).

Statement:

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