

## 【X431 PRO actual measurement】2010 Nissan BLUEBIRD SYLPHY Idle Speed Learning Method

Measured models: Nissan BLUEBIRD SYLPHY, 2010, VIN=LGBH12E02AY1\*\*\*\*\*

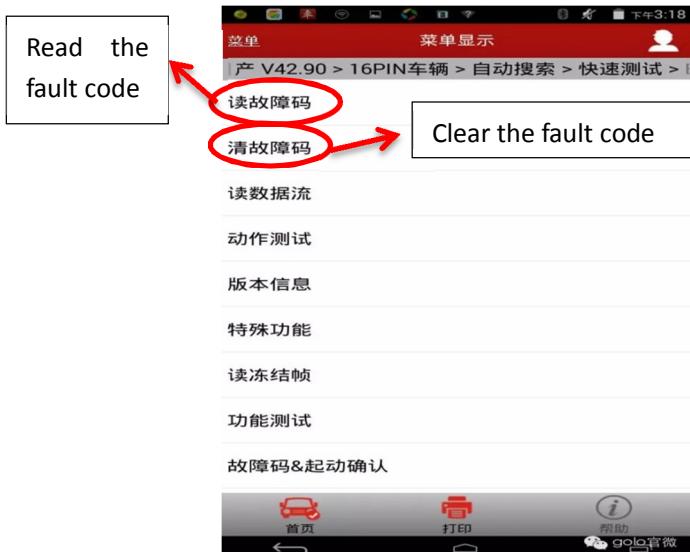
Fault phenomenon: After cleaning the throttle, idle at 1700rpm, need to do throttle learning.

Steps:

1. Turn on the ignition.
2. Select Nissan V42.90 or later.
3. Select 16PIN vehicle.
4. Select automatic search.
5. Choose quick test.
6. Select ECM (engine control module), as shown in Figure 2.



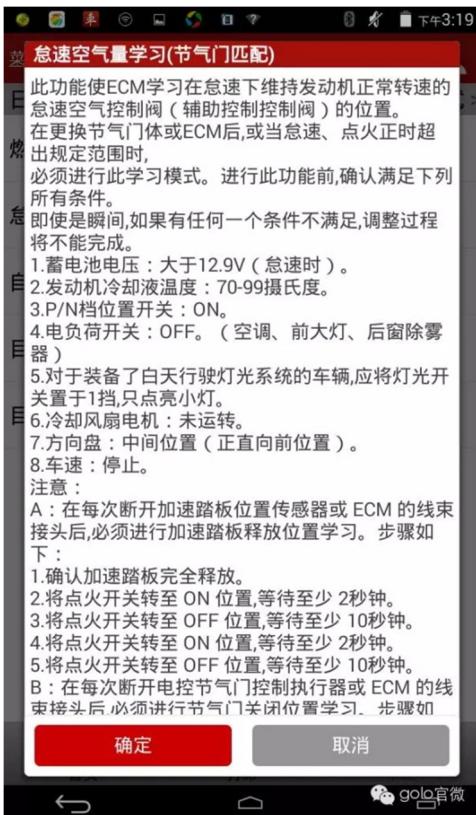
7. Select to read the fault code, clear the fault code, and then select work support, as shown in Figure 3



8. Select adaptive control, clear the learning value, and then select idle air flow learning (throttle match), as shown in Figure 4.



9. Prompt matching notes, as shown in Figure 5.

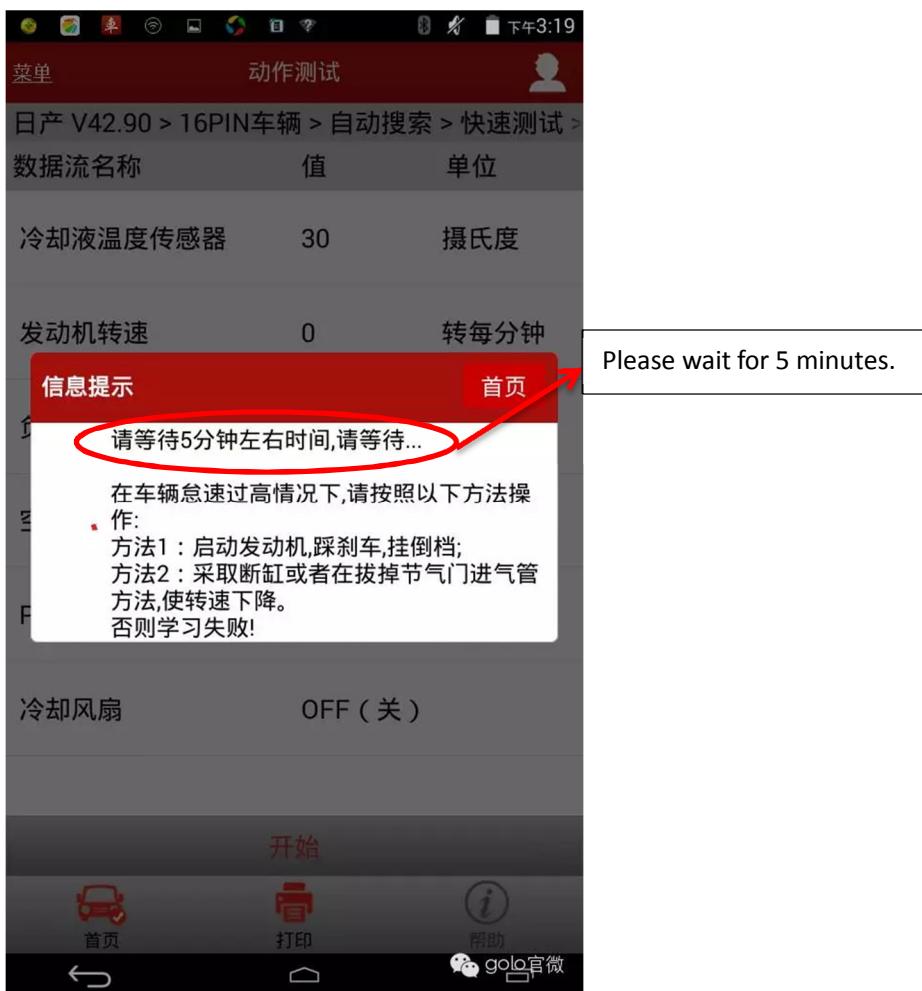


10. After the point is determined, the data before learning is displayed, as shown in Figure 6.

| 数据流名称     | 值       | 单位   |
|-----------|---------|------|
| 冷却液温度传感器  | 30      | 摄氏度  |
| 发动机转速     | 0       | 转每分钟 |
| 负荷信号      | OFF (关) |      |
| 空调信号      | OFF (关) |      |
| P/N 档位置开关 | ON (开)  |      |
| 冷却风扇      | OFF (关) |      |



11. Start the engine, idling, then select "start" button, the prompt "Please wait for 5 minutes ...", as shown in Figure 7.



12. Hold on the brakes and hang the reverse gear. The engine speed starts to decrease from 1700rpm and keeps at 1000rpm. It takes about 10 seconds and slowly drops to around 800rpm.
13. Idle the engine steady at 800rpm, hold it for about 10 seconds, shut down the engine, then exit the diagnostic software.
14. Restart the engine, idle at 800rpm, indicating that idle learning is normal. Test drive verification, everything is OK.

Note:

1. Different models, there are some differences in the operating menu.
2. According to actual experience, the engine may stall when the reverse gear is engaged. This is normal. After the X431PRO Series exits the software, restarting the engine at idle speed will be normal.
3. The water temperature is better below 80 degrees Celsius. If the water temperature is too high, please use the tap water tank to cool it.