



INSTALLATION INSTRUCTIONS

www.trqautoparts.com

www.youtube.com/trqautoparts

ATTENTION: Refer to the appropriate shop manual for your vehicle to obtain specific service procedures for this part. If you do not have a service manual or lack the skill to install this part, it is recommended that you seek the services of a qualified technician. Pay special attention to all cautions and warnings included in the shop manual. Read and follow all instructions carefully.

***A scan tool capable of erasing DTC code will be necessary to perform this relearn procedure**

Various Nissan and Infiniti Models

The following conditions MUST be met for the vehicle to properly relearn the electronic throttle body.

1. No diagnostic trouble codes (DTC) present
2. Battery voltage: More than 12.9 V (At idle)
3. Engine coolant at operating temperature: 70-95 °C or 158-203 °F
4. Transmission at operating temperature
 - i. A 10 minute drive should heat the transmission up to operating temperature
5. Steering wheel needs to be in the neutral position (i.e. front wheels pointing straight)
6. No electrical load
 - i. Turn off climate control fan, radio, headlamps, and any other electrical components that may be on. On vehicles equipped with daytime light systems, set lighting switch to the 1st position to light only small lamps.
7. The vehicle's idle speed must be steady and remain between 500-1500 RPM. The engine cannot be surging and cannot stall.
 - i. If this condition is not met, see the "Troubleshooting" section at the end of these instructions.

PROCEDURE

Perform all (3) procedures in the order below to complete the Idle Relearn Procedure. A stop watch MUST be used. If idle is erratic after performing all (3) procedures listed below, see troubleshooting section at the end of these instructions.

Procedure 1

- A. Make sure that accelerator pedal is fully released.
- B. Turn ignition switch ON (without starting the vehicle) and wait at least 2 seconds.
- C. Turn ignition switch OFF and wait at least 10 seconds.

- D. Turn ignition switch ON (without starting the vehicle) and wait at least 2 seconds.
- E. Turn ignition switch OFF and wait at least 10 seconds.
 - i. You should be able to hear the throttle body operating during the 10 second ignition OFF cycles.

Procedure 2

- A. Make sure that accelerator pedal is fully released.
- B. Turn ignition switch ON (without starting the vehicle).
- C. Turn ignition switch OFF wait at least 10 seconds.
 - i. You should be able to hear the throttle body operating during the 10 second ignition OFF cycle.

Procedure 3

- A. Confirm the accelerator pedal is fully released; turn ignition switch ON (without starting the vehicle) and wait 3 seconds.
- B. Repeat the following procedure quickly five times within 5 seconds.
 - i. Fully depress the accelerator pedal.
 - ii. Fully release the accelerator pedal.
- C. Wait exactly 7 seconds, fully depress the accelerator pedal for approximately 20 seconds until the malfunction indicator light (MIL) stops blinking and remains ON.
- D. Within 3 seconds of the MIL remaining on, fully release the accelerator pedal and start the vehicle.
- E. Let it idle for at least 30 seconds.
- F. If idle is stable and below 850 RPM, the relearn procedure was successful.

TROUBLESHOOTING

For erratic/surging idle per **Nissan technical service bulletin NTB05-067**:

*Before beginning this procedure, check engine for vacuum leaks. Hoses, intake manifold & ducting between intake manifold and MAFS are all common areas.

- A. Start engine.
- B. It may be necessary to unplug multiple fuel injectors before the idle has stabilized. (For 4-cylinder engines, up to 2 injectors can be disconnected one at a time. For 6 and 8-cylinder engines, up to 3 injectors can be disconnected one at a time. It is best that 3 disconnected injectors (particularly on V6 engines) not all be on the same engine bank.
- C. Once the idle settles, turn off engine.
- D. Re-perform the Idle Relearn Procedure (Procedures 1-3 above).
- E. Start engine to make sure idle is still stable.
- F. Reconnect fuel injectors and allow engine to idle for 30 seconds.
- G. If idle is stable and below 850 RPM, the relearn procedure was successful.