



Nissan Murano MY03+ Unichip PnP Installation Instructions and Warranty Information

v1.1, 2 May 2007

Tools Required

10mm combination wrench, and a Small Flashlight

Note: These instructions are for the basic kit which does not include the Flux Blue Tooth PDA unit. The kit can be upgraded at a later date; if you subsequently purchase the Flux update kit, follow the installation instructions included with it.

Installation Procedures

1. Locate the car's battery in the engine compartment on the driver's side.
2. Expose the ECU

- a. Open the passenger side door and slide the passenger seat completely to the rear
- b. (Photo 1) Locate the trim panel underneath the dashboard. Remove the three Phillips screws securing the box's lower edge.

Note: The right most screw has a decorative cover.

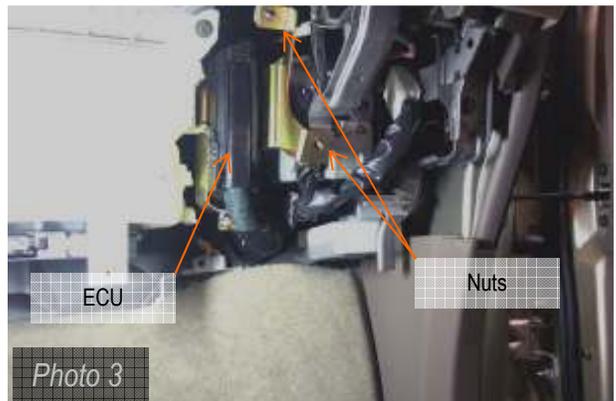


- c. (Photo 2) Open the glove compartment and remove the four phillips screws securing it.
- d. Pull out the glove box by gently pulling out first the driver's side and then the passenger's side.
- e. Disconnect the courtesy light and remove the entire glove box assembly.



3. Remove the ECU

- a. Remove the 10mm nuts securing the ECU mounting bracket.
- b. Disconnect the harness from the ECU.
- c. Remove the ECU.



4. (Photo 4) Install the Unichip computer
 - a. Remove the plastic protective strip from the small kit supplied Velcro strip and attach it to the back side of the Unichip.
 - b. Pull back the carpet just behind where the OEM ECU was mounted and position the Unichip computer as shown; firmly press the Unichip computer in place.



Photo 4

5. (Photo 5) Install the PnP Harness Plug.
 - a. Remove the plastic strip from one side of one of the kit supplied Velcro strips and apply it to the larger, flat side of the PnP case.
 - b. Remove the other protective strip and position the PnP harness case on the back side of the OEM ECU bracket as shown.
 - c. Place the remaining Velcro strip on the back of the Unichip Computer.
 - d. (Photo 6) Remove the remaining protective strip from the Unichip Velcro and press it firmly onto the inboard side of the OEM ECU just above the plug.
 - e. Connect the Unichip Molex plug into the Unichip Computer's 24-pin connector.



Photo 5

Note: (1) Nothing connects into the Unichip Computer's 6-pin connector. (2) If desired, now is a good time to reconnect the car's battery and start the car to verify the connections are correct.

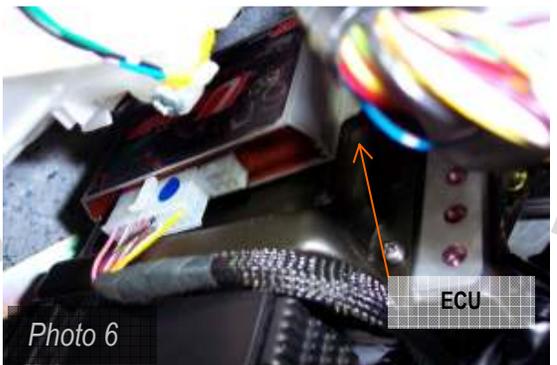


Photo 6

6. Install the Accessory Cable.
 - a. Plug the accessory cable Molex plug into the PnP's Comm connector.
 - i. If desired, you can coil up the accessory cable and lay it beneath the passenger side floor mat in such a position that it will not be stepped on.
 - ii. Alternatively, you can permanently mount the switches wherever desired; if desired, you can disconnect the leads and attach them to a different style switch to better match the interior.
7. Replace the plastic kick panel.
8. Replace the trim panel underneath the glove compartment.
9. Reconnect the battery negative terminal.

Accessory Cable Functionality

Switch	Mode	Function	Notes
Map A/B	1 (LED on)	More aggressive ignition timing	Unless otherwise specified, for higher octane fuel
	0 (LED off)	Less aggressive ignition timing	Unless otherwise specified Default operational setting

- i. The normal position for the **Map A/B** switch is off (0), and unless you desire to run Map B it should remain there. To change the switch, turn off the ignition key before actuating the switch.
- ii. With the ignition key off and removed, **Map A/B** switch's on (1) position selects timing Map B, which can be verified by illumination of the red LED when the vehicle is started. Using Map B may result in a CEL on some vehicles; the CEL results from that particular vehicle's increased sensitivity to detonation. If Map B produces a CEL in your vehicle, reselect Map A and start the engine five times as outlined below.

Note: (1) More is not always better... adding more timing can actually reduce power if your particular vehicle is sensitive to detonation. If the stock ECU detects detonation, it reduces timing to protect the engine. If you're truck doesn't seem to make more power than stock and you're running Map B, switch back to Map A and you will feel the power increase. This condition can and does occur even without a CEL.

Unichip Warranty Information

For 90 days following the original owner's purchase of a Unichip, Unichip of North America (UNA) warrants no other ECU product generates more power from a specific gasoline engine than a properly functioning, custom tuned Unichip in the specific vehicle for which it is tuned. If another ECU product generates more power from that engine within 90 days of the original owner's purchase of the Unichip, the original owner can contact their Unichip dealer for a refund of all Unichip parts, Unichip installation charges, and Unichip custom tuning. Shipping, testing, dynamometer costs and the cost of removing any UNA parts are specifically not covered by this warranty and will not be refunded to the owner.

To claim a refund, owners must provide dynamometer proof another ECU product produced more power when installed on the specific vehicle and that vehicle and all of its parts were in an identical condition other than the ECU enhancement. Three repeatable dynamometer tests must be performed using the Unichip and three repeatable tests using the other ECU product. The average of the three tests performed on each product shall constitute that product's score for determining power. The same technician, using the same dynamometer in an identical condition with the same settings, must perform all test runs. All environmental conditions including ambient and IAT temperature and pressure altitude and the vehicle's cooling system temperatures and drive train temperatures must also be identical for all six runs. IAT and Coolant temperature data logged information for each run is required. The vehicle must also use the same fuel for all six tests. UNA reserves the rights to, at UNA's exclusive discretion, re-tune the Unichip involved in a performance warranty claim at no cost to the customer making the claim or to provide a warranty refund; if after a retune, the Unichip still makes less power than another product, the owner will receive a refund IAW this warranty statement.

All UNA parts, including Unichip piggyback computers, driver modules, and harnesses also carry a limited warranty against manufacturer's defect. This warranty is valid for the original owner only, for one year from the date of purchase regardless of the installation date. UNA only warrants Unichip products sold by an authorized UNA reseller. If a UNA product is found defective, the original purchaser may contact the reseller from whom they purchased the product for a replacement component at no cost. Shipping, testing, dynamometer costs, and the cost of removing any UNA parts are specifically not covered by this warranty and will not be refunded to the owner.

The above warranties are expressly made in lieu of any and all other warranties, express or implied, including any warranty on the engineering or design of the goods as well as the implied warranties of merchantability and fitness for a particular purpose.

Any and all warranties on the Unichip are void if: 1) the custom installation or custom tuning of the Unichip was performed by anyone other than a UNA qualified dealer or tuner, 2) anyone other than a qualified UNA tuner or dealer alters or modifies or attempts to alter or modify any of the electronic data within the Unichip or 3) the UNA product is used for anything other than its intended purpose or is physically or electrically damaged.

For all warranty claims, the product return shipping date stamp must be within the appropriate time limitation from the time of purchase. Additionally, proof of purchase in the form of either a properly completed warranty card or a sales receipt indicating both the date of sale and owners name is required and is the owner's responsibility. Customers with hard-wire installations are responsible for providing proof of when and where the installation was performed. Warranty claims will be denied if the customer cannot provide proof of purchase.

UNA is not liable for incidental, consequential, or punitive damages attributable directly or indirectly to the Unichip or UNA's actions or inactions with respect to the Unichip. UNA is also specifically not responsible or liable for damage of any kind: 1) to a vehicle into which UNA products are installed or 2) resulting from the use of a vehicle equipped with any UNA products.

UNA believes high performance driving should be confined to appropriate venues such as racetracks or organized closed course events such as Autocross competitions, and does not sanction or participate in any street racing or other illicit driving activity.