



Nissan Frontier, Pathfinder, and Xterra MY05-08; 4.0L Unichip Flux PnP Installation Instructions and Warranty Information

2340061.2, 16 Jan 2009

Tools Required

10mm combination wrench, 10mm socket, 3/8-inch ratchet drive, 6-inch ratchet extension, and a Small Flashlight

Notes: (1) These instructions are for the Flux Bluetooth PDA kit which contains different components from the non-Flux kit, part number 2340061. If you received these instructions with the non-Flux kit, disregard the FR installation section and connect the non-Flux kit provided mechanical switch loom to the PnP's Comm connector.

Installation Procedures

1. Locate the car's battery in the engine compartment on the passenger's side and disconnect first the negative terminal and then the positive terminal

2. Expose the ECU

- a. (Photo 1) Locate the black plastic cover over the ECU on the passenger side bulkhead near the firewall. Gently pull on the cover to remove it and set it aside.

- b. (Photo 2) Disconnect the two OEM plugs from the ECU. First press the locking tab and then rotate the lever back; the lever must rotate fully to disconnect the plug.

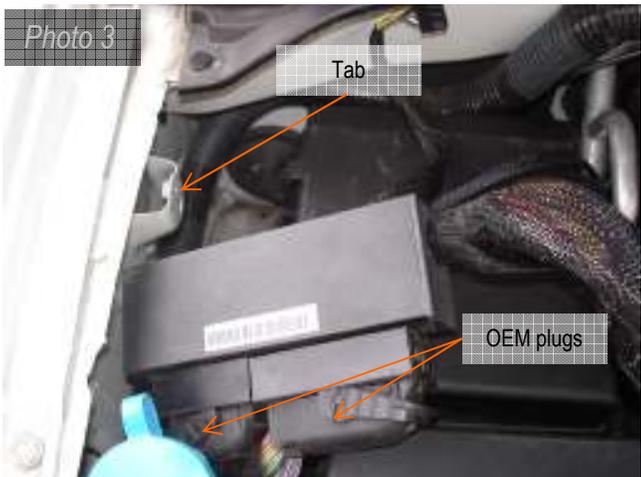
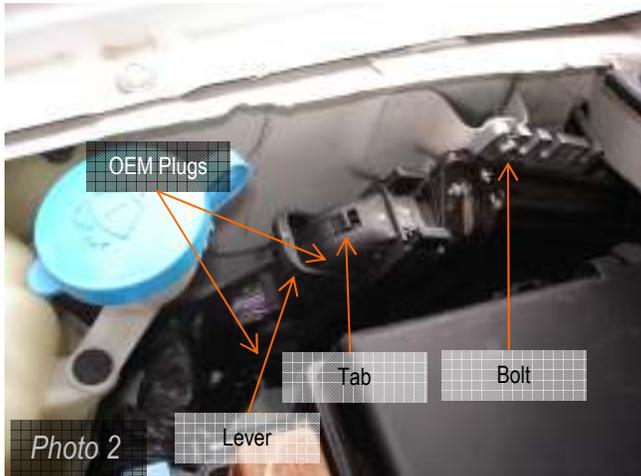
Note: The lever in the photo is already unlocked and rotated about half-way back

- c. Using the 10mm socket, remove the upper and lower bolt securing the ECU to the bulkhead.

Note: The lower bolt is in the same position relative to the bracket but is a blind removal.

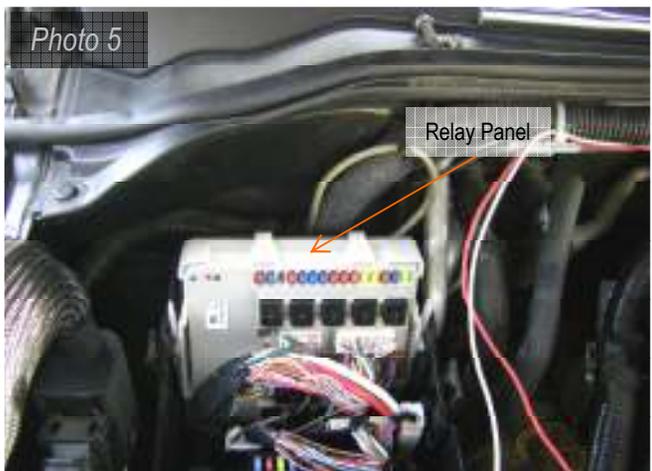
3. Install the PnP Harness

- a. With the PnP's flat side facing the engine, connect both of the OEM plugs into the PnP case connectors and lock them in place.
- b. With the connectors facing the vehicle's front, lower the PnP Harness case into the slot formerly occupied by the OEM ECU.
- c. Using the kit provided red zip tie, secure the PnP's main wire bundle to the bulkhead at the OEM ECU's upper mounting tab.



4. Install the Unichip Computer

- a. (Photo 4) Locate the fuse box next to the original ECM mounting position.
- b. Press the release tabs and remove the fuse box cover.
- c. (Photo 5) Locate the white relay panel inside the fuse box.
- d. Press the release tabs on both sides of the relay panel and slide it up and out of the fuse box.
- e. Carefully lay the relay panel to the side.
- f. Remove the one side of the protective plastic from the short Velcro strips and firmly press the strip onto the back side of the Unichip Computer.
- g. Verify the inside of the fuse box is free from dirt and oils.
- h. Remove the remaining protective plastic strip from the Velcro on the Unichip computer and position the Computer with the 24-pin Molex connector facing in towards the engine against the rear of the fuse box
- i. Firmly press the Unichip Computer in place.
- j. Insert the PnP Harness' 24-pin Molex Plug into the Unichip Computer.



5. (Photo 9) Install the Flux Receiver (FR)

- a. Remove the one side of the protective plastic from the final kit supplied Velcro strip and attach it to the FR on the same side as the locking tabs on its Molex connectors (same side as the green LED).
- b. Remove the other protective plastic from the Velcro on the FR and attach the FR with the FR's connectors facing the same direction as the Unichip's connectors.
- c. Connect the FR adapter harness 10-pin plug labeled *Comm* into the PnP loom connector labeled *Comm*.
- d. Connect the FR adapter harness 6-pin plug labeled *Unichip* into the corresponding Unichip connector.
- e. Connect the FR adapter harness 22-pin plug labeled *Receiver* into the FR.
- f. Reinstall the white relay panel.
- g. Reinstall the fuse box cover.

6. Remount the OEM ECU

- a. Ensure the bracket side of the OEM ECU is free from dirt or grease.
- b. (Photo 7) Remove one side of the protective plastic from each of the long kit provided Velcro strips and press them firmly onto the bracket side of the OEM ECU as shown.
- c. Ensure the top of the large plastic relay box containing the Unichip Computer is free from dirt or grease.
- d. Remove the remaining protective plastic from the ECU and position it onto the top of the electrical relay box with the connectors facing the vehicle's front.
- e. Connect the PnP's main Plug into the OEM ECU's connectors and lock it into place.



Photo 7

7. Reconnect the battery negative terminal.



Photo 8

Flux Operations

Refer to the User Guide on the CD provided in the kit for set up and normal operations with the FR. Before making any changes through the FR and your PDA, your Unichip will be operating in Map 1 which is a low octane calibration suitable to 87-octane fuel. Unless otherwise requested, your Flux kit is programmed with the following mapping...

Map 1	87-Octane
Map 2	89-Octane
Map 3	92 Octane
Map 4	Valet Mode
Map 5	Immobilizser Mode

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.

