



Toyota Tacoma 3.4L MY97-04, 4Runner 3.4L MY99-02 Unichip PnP Installation Instructions and Warranty Information

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Tools Required

10mm wrench, 10 mm socket and ratchet, Medium Phillips screwdriver, Small flashlight

Notes: (1) All plugs in this installation are locking units keyed to only fit into the correct connector. Each ECU connector has a small release tab which must be depressed to remove the plug and which should audibly "click" when inserted correctly – both into the ECU and PnP harness.

(2) If a plug is difficult to remove, try pushing it back in and then pull it back out. DO NOT FORCE THE PLUGS OUT OR IN.

(3) 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.

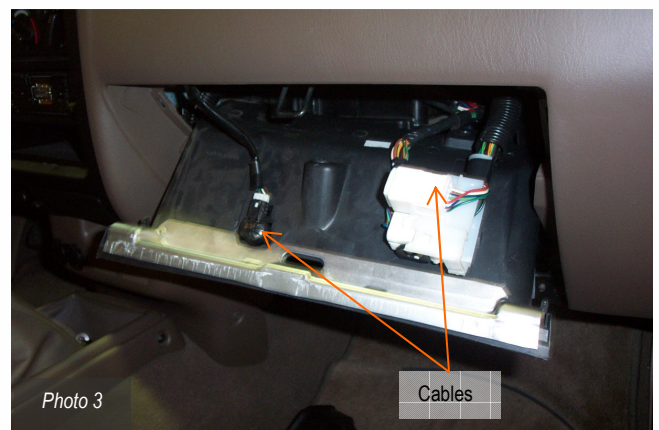
1. **Disconnect the truck's battery.** Using a 10mm wrench, disconnect the truck's battery at the negative terminal in the engine compartment.
2. **Expose the ECU behind the passenger's side glove compartment.**
 - i. (Photo 1) Using the Phillips head screwdriver, remove the glove box by removing the two screws along the lower edge.

Note: The glove box rests on top of the rail it's fastened to and will not fall

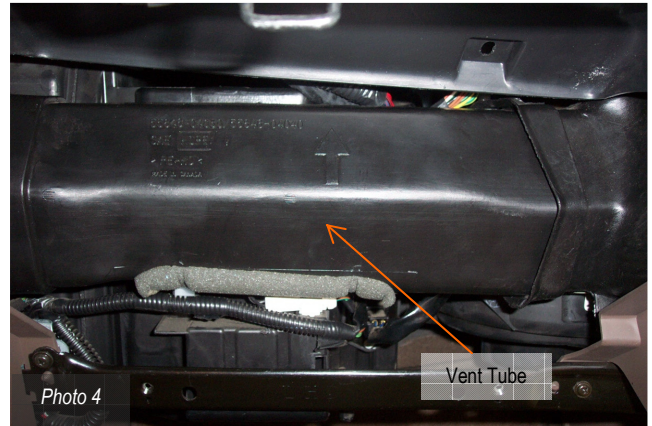
- ii. Release the glove box latch and open it until it reaches the stop tabs.
- iii. Grab each side of the glove box and gently twist it to release the stop tabs and remove it.

- iv. (Photo 3) Using the 10mm socket, remove the three bolts securing the panel above the glove box opening.

Note: The panel contains a light and juncture box each of which are connected via power cables. Gently lower the panel to avoid damaging the power cables.

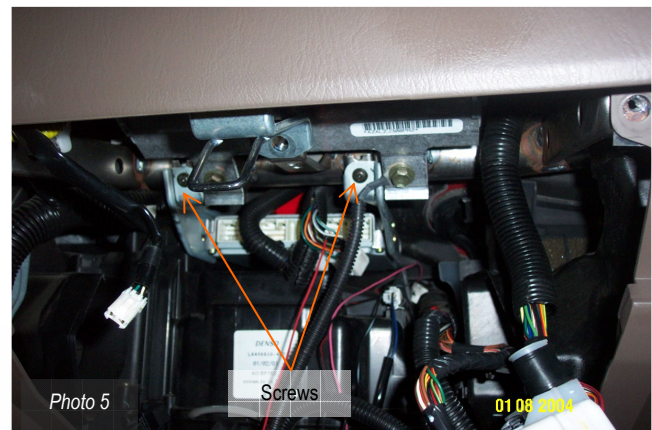


- v. Disconnect the power cables and remove the panel.
- vi. (Photo 4) Remove the air vent tube by sliding it towards the driver's side to release it; pull the right side of the tube out and remove it.



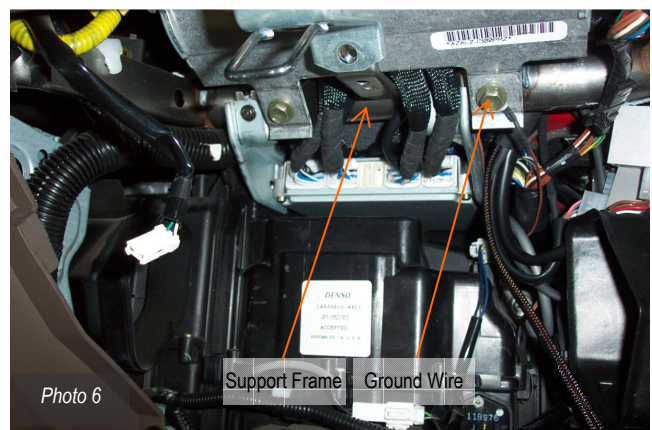
3. (Photo 5) Install the Unichip PnP harness

- i. Disconnect the OEM Plugs from the OEM ECU.
- ii. Locate the Machine Screws securing the ECU bracket. Remove the two screws located on the bracket securing the ECU using the Phillips Screwdriver.
- iii. Gently lower the ECU being careful not to pull on the plugs or wiring harness.
- iv. Remove the protective plastic from one piece of kit supplied Velcro strip and apply the strip to the large, flat side of the PnP harness case.
- v. Position the PnP harness case on top of the OEM ECU and position the plugs directly above the corresponding OEM ECU Plugs. Remove the other protective plastic strip from the Velcro strip and press the case firmly into place.
- vi. Insert the OEM Plugs into the PnP case connectors.



Note: The Plugs are keyed such that they will only fit into the correct connector. DO NOT FORCE THE PLUGS. If the Plug doesn't want to fit, it's probably not the correct connector.

- vii. Install the PnP Plugs into the OEM ECU starting with **Plug 1** and working from left to right.
- viii. (Photo 6) Reposition the OEM ECU and reinstall the mounting screws using the Philips Screw Driver.

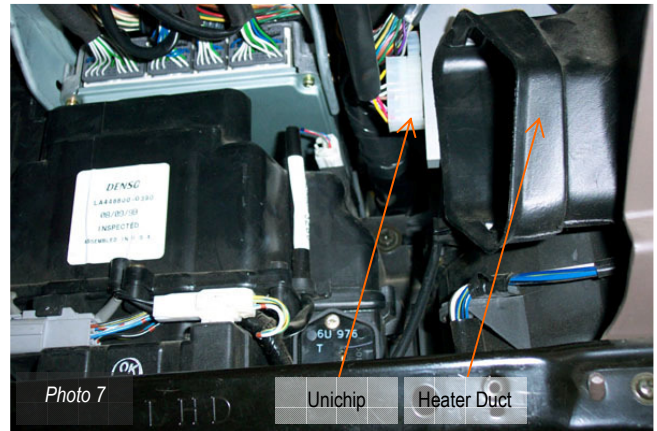


4. (Photo 7) Install the Unichip computer

- i. Connect the PnP loom labeled **Unichip** to the Unichip's 24-pin Molex connector.
- ii. Remove the protective plastic from the Velcro strip and press the Unichip to the back side of the heater duct.

6. Replace the vent tube.

7. Replace the glove box.



8. 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); to change it, 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.

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.