



# Toyota Hilux, Toyota Fortuner 2.5L & 3.0L D4D MY05-11, Unichip PnP Installation Instructions and Warranty Information

v1020221.0, 1 Oct 2020

## Tools Required

10mm wrench, 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.

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) Fully open the glove box.
- ii. Gently push in on both sides of the glove box to release the stops located on the rear edge; pull the glove box toward the rear of the truck to release it from the pivot clips.

3. **Install the PnP Harness**

- i. (Photo 2) Locate the OEM ECU mounted vertically in the center of the opening.
- ii. Disconnect the OEM plugs from the ECU.

Note: Each ECU connector has a small release tab which must be depressed to remove the plug. DO NOT FORCE THE PLUGS; if a plug is difficult to remove, try pushing it in and then pulling it back out while depressing the release tab.

- iii. Remove the protective plastic from one side of the long kit supplied Velcro strip and apply it to the smaller flat side of the PnP harness (same side as the looms).
- iv. (Photo 3) Remove the other protective plastic strip from the Velcro on the PnP harness and position the PnP case between the OEM ECU and the heater blower motor with the flat side against the blower motor; firmly press the Velcro against the OEM ECU to secure it in place.

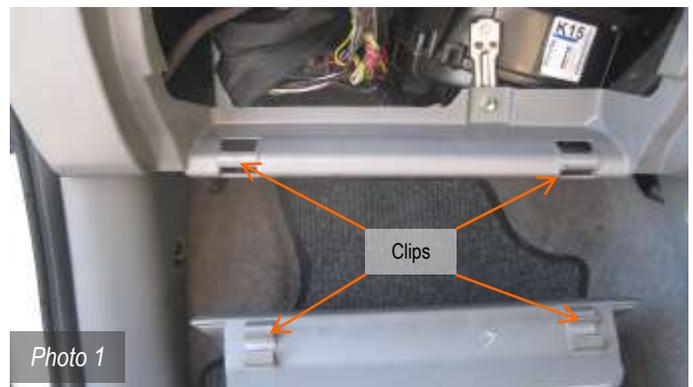


Photo 1

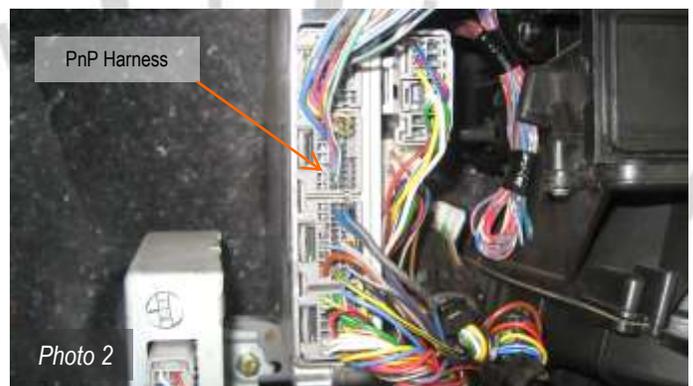


Photo 2



Photo 3

- v. (Photo 4) Plug all four PnP Plugs into the corresponding OEM ECU connectors.

*Each plug is keyed to only fit into the correct connector and which should audibly "click" when inserted correctly – both into the ECU and PnP harness.*

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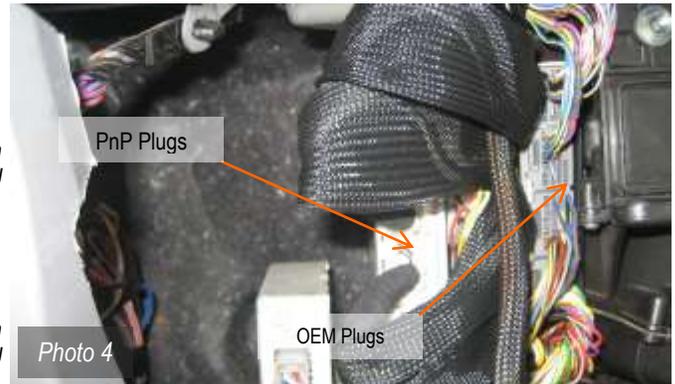


Photo 4

#### 4. Install the Unichip Computer

- i. Attach the remaining kit supplied Velcro strip to the back side of the Unichip Computer.
- ii. Remove the remaining protective plastic from the Velcro on the back of the Unichip Computer.
- iii. (Photo 5) Position the Unichip Computer against the bulkhead at the side of the glove box opening and press it firmly in place.



Photo 5

- iv. Plug the PnP loom's 24-pin Molex Plug labeled Unichip into the Unichip Computer's connector.

#### 5. Replace the glove box.

#### 6. Reconnect and tighten the battery's negative terminal.

**(Photo 6) Special note.** If your D4D hesitates on hard acceleration after installing the Unichip PnP kit, your vehicle's fuel pressure regulator spring on the common rail is weak. It is a factory issue, but is easy to correct. This modification is not required on all vehicles and doing the modification on a vehicle that doesn't need the modification will create a problem, not produce more power.

- 1. CAREFULLY unscrew the regulator. The parts are spring loaded so you may lose some parts if you allow the regulator to pop open. It's advisable to place a white cloth under the plug whilst unscrewing to catch all the parts.
- 2. You will notice 1 (PCV 2) or 2 (PCV 3) shims. If there is only 1 shim, add another identical shim. If there are 2 shims, add a 3<sup>rd</sup> identical shim.
- 3. Re-assemble the regulator.



Photo 6

## **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.