



# Scion xB MY08-10 Unichip PnP Installation Instructions and Warranty Information

2620021.0, 20 April 2009

## Tools Required

10mm combination wrench

Notes: (1) The OEM and PnP plugs in this installation are locking units with rotating levers securing them in place. The levers can be broken if they are forced, so if force is required to rotate or lock them is required remove the plug and reinstall it. Each lever has a release button under the end of the lever that must be pushed to release it.

## Installation Procedures

1. Using the 10mm wrench, disconnect the car's battery at the negative terminal in the engine compartment.

2. Install the PnP Harness

- (Photo 1) Locate the ECU in the engine compartment next to the airbox beside the driver's side wheel arch.
- Press the release tab on the end of each plug's locking lever. Press the release button and rotate the locking lever to release both the large and small plugs.
- (Photo 2) Remove the protective plastic strip from one side of the large kit provided Velcro strip and firmly press it onto the larger flat side of the PnP Harness' case.
- Remove the remaining protective plastic strip for the kit provided Velcro strip on the PnP Harness case and position the PnP harness on the fuse box cover with the smaller connector towards the front of the vehicle and the edge of the PnP Harness Connectors right above the edge of the fuse box.
- Insert the PnP's large Plug into the corresponding ECU connectors and rotate the locking lever down to secure the Plug. Repeat with the small PnP Plug.

Note: Ensure the Plug is fully seated before rotating the locking lever. Failure to do so may result in a loose connection that appears secure and can create a "Christmas Tree" dash display.

- (Photo 3) Connect the OEM plugs into the corresponding PnP Harness Connectors and rotate the locking levers down to secure the plugs.



### 3. Install the Unichip Computer

- a. Remove the protective plastic strip from one side of the short kit provided Velcro strip and attach the strip to the back of the Unichip Computer.
- b. Position the Unichip Computer onto the fuse box cover outboard of the PnP Harness case with the Molex connectors facing away from the PnP Harness.
- c. Connect the PnP Plug labeled "Unichip" into the corresponding Connector on the Unichip Computer.



Photo 4

### 4. Route the Accessory Cable

- a. The accessory loom can be routed as desired, or alternatively, the Map A/B switch can be permanently mounted or connected to an unused OEM switch. If you choose to leave the switch in the engine compartment, ensure it and all of the other PnP parts remain clear of all hot and rotating components in the engine bay.

### 5. Test start the engine

- a. To verify all connections are correct and secure, reconnect the battery and test start the engine.

*Note: If you need to work on any electrical connections, disconnect the battery again before doing so*

### 6. Reconnect the battery negative terminal.

### 7. Accessory Cable Functionality

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

- a. The normal position for the **Map A/B** switch is off ( 0 ) and unless you desire to run Map B it should remain in there. To change the switch, turn off the ignition key before actuating the switch.
- b. With the ignition key off and removed, selecting the on ( 1 ) position on the **Map A/B** switch selects timing Map B. Using Map B will result in a CEL on approximately thirty percent of vehicles; the CEL result from that particular vehicle's increased sensitivity to detonation. If Map B produces a CEL in your vehicle, select reselect Map A and use the ECU power switch to clear the CEL as outlined below.

*Note: (1) More is not always better... adding more timing can actually reduce power in a particular vehicle if that vehicle is sensitive to detonation. If the stock ECU detects detonation, it will reduce timing to protect the engine; if you're truck doesn't seem to be making 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.