



Kawasaki Ninja 650 2012-2013 Kawasaki ER6N 2012-2013

Z-Fi QS (Quickshift) / Z-Fi TC (Traction Control) Installation Instructions
Part #s S446S, S446R, T446S, T446R

In order to fit the Bazzaz quickshift on this application, aftermarket rearsets must be used



Parts List:

Z-Fi QS/TC Control Unit

Fuel Harness

Coil Harness

Shift Switch

Scotchlok (2)

Cable Ties

USB Cable

Swingarm Stickers

Download Z-Fi Mapper Software at bazzaz.net

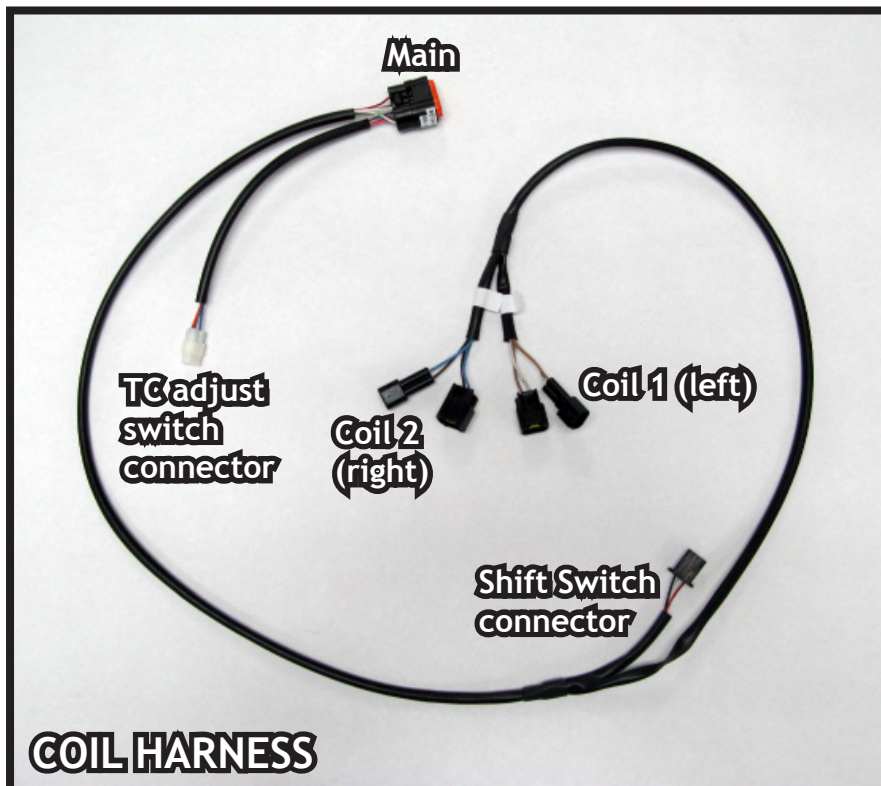
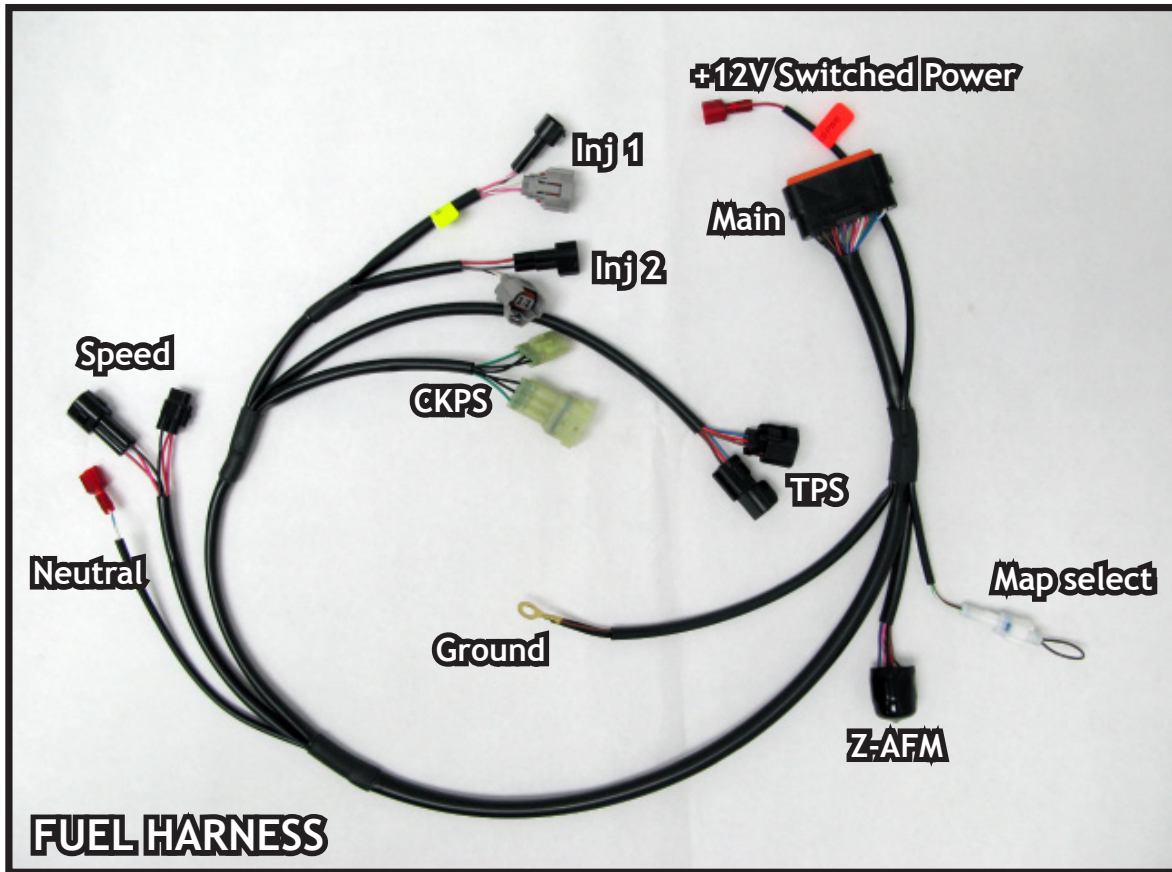
Software instructions available at bazzaz.net

USE ONLY IN RACE OR OTHER CLOSED COURSE APPLICATIONS AND NEVER ON PUBLIC ROADS

Z-Fi products are not certified by the California Air Resource Board (CARB) for use on CA highways

Contact Bazzaz tech support at 909-597-8300 for questions

BAZZAZ HARNESS CONNECTOR IDENTIFICATION

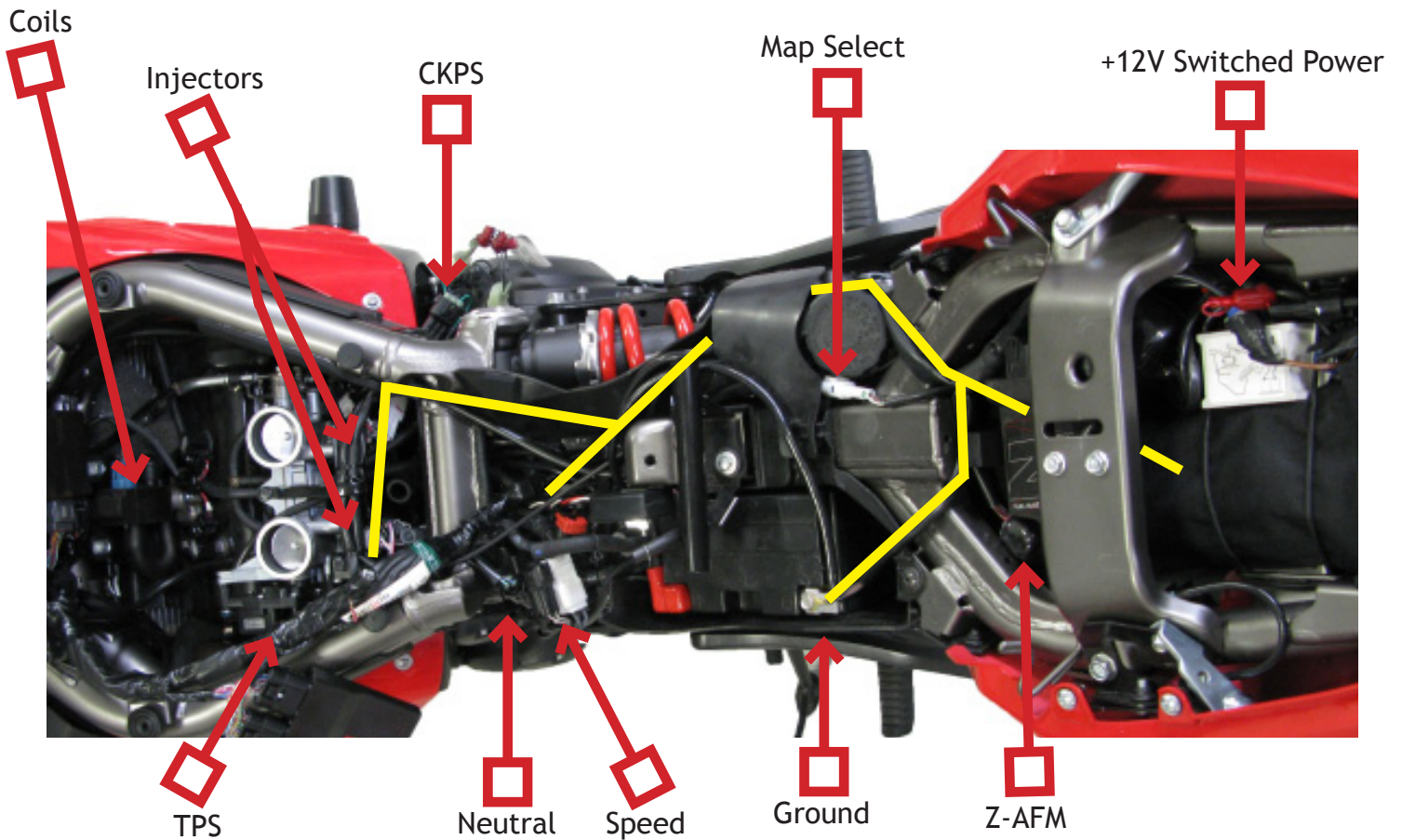


Read through all instructions before beginning installation. This is not a replacement for the ECU. This document is intended for use by qualified technicians. Refer to a factory service manual for more specific stock component identification and location information.

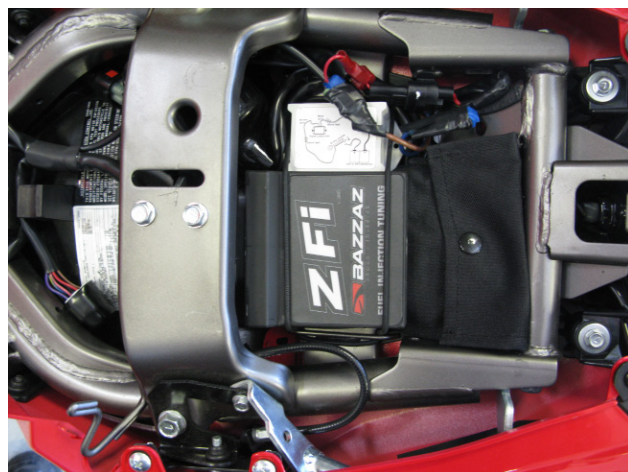
WE STRONGLY SUGGEST THAT AN EXPERIENCED TECHNICIAN INSTALL THIS BAZZAZ PRODUCT

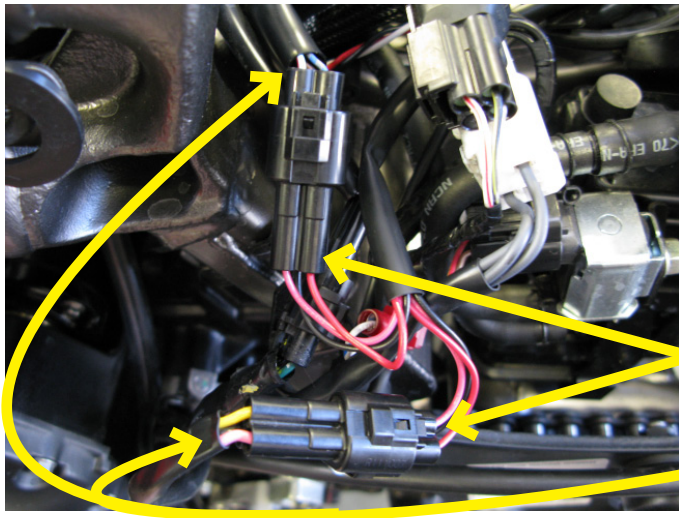
1. Begin the installation by removing the rider and passenger seat, fuel tank, and air box.

Fuel harness routing shown in yellow; stock component identification and location shown for reference.



2. Mount the **CONTROL UNIT** on top of the tool kit using the tool kit straps. Connect the main connector of the Bazzaz **FUEL HARNESS** to the control unit.





3. Route the harness down the right side of the bike towards the engine. Locate the factory three-pin, black speed connectors which can be found near the factory fuel pump connector (on the left side of the bike). Disconnect the factory speed connectors and connect the Bazzaz **SPEED** connectors in-line with the factory connectors.

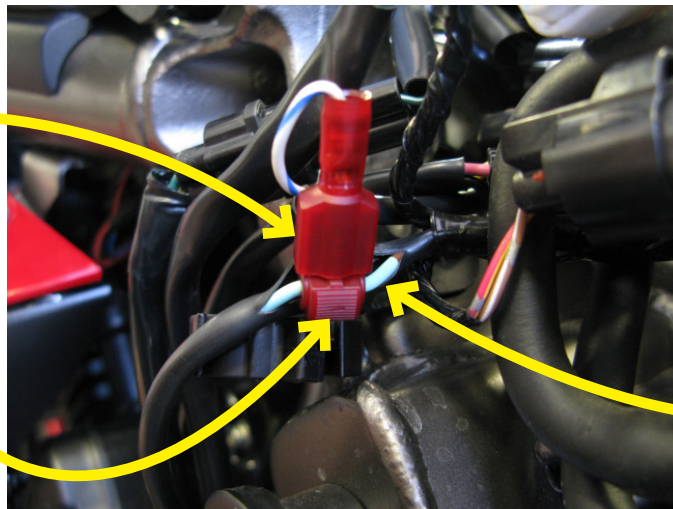
Bazzaz speed connectors

Factory speed connectors

4. Locate the factory neutral sensor wire (light green), which can be found by removing the front sprocket cover (wire is beneath the front sprocket). Begin to trace the wire up to where it joins in with the main harness near the factory speed connector. You will need to cut back a small portion of the main harness sheathing to expose the light green wire. Once exposed, use a supplied scotchlok and crimp onto the **light green** wire. Now insert the Bazzaz **NEUTRAL** connector into the scotchlok.

Bazzaz neutral connector

Scotchlok crimped onto the **light green** neutral sensor wire

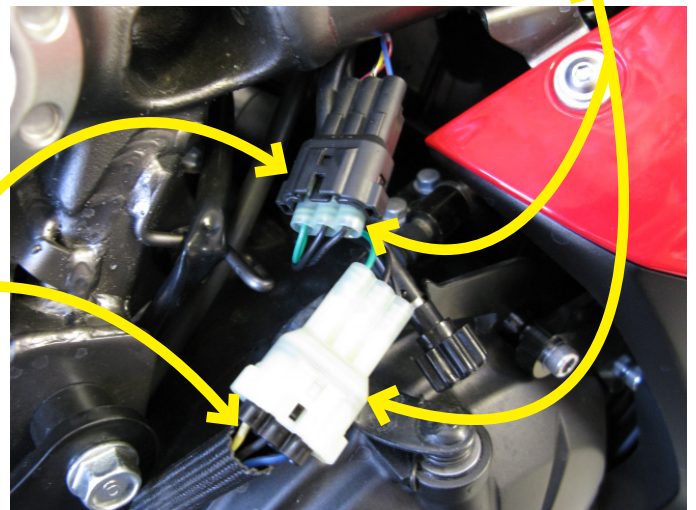


Factory neutral sensor wire

5. Continue to route the remaining harness towards the engine. Locate the factory Crank Position Sensor (CKPS) connectors which can be found on the right side of the bike, near the idle adjustment knob. Disconnect the factory CKPS connectors and connect the Bazzaz **CKPS** connectors in-line with the factory connectors.

Bazzaz CKPS connectors

Factory CKPS connectors

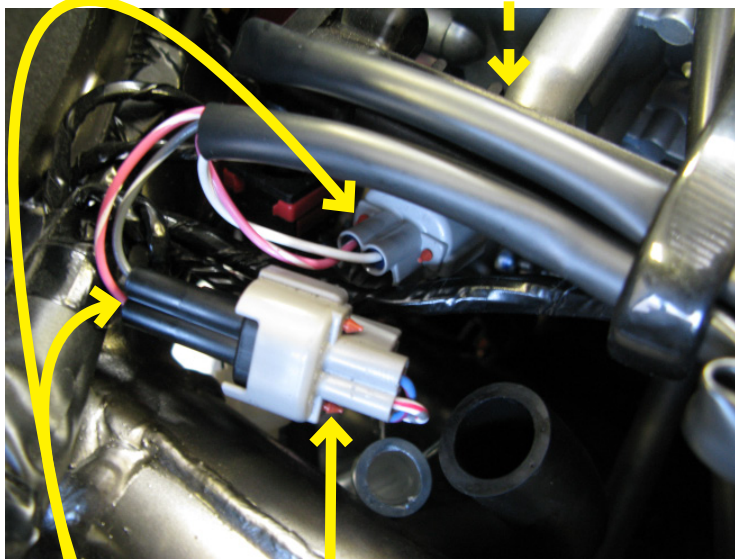



6. Route the Bazzaz injector connectors to the factory injectors which can be found directly beneath the factory fuel rail.


Disconnect the factory injector connectors from the left and right injectors. Plug the Bazzaz **INJECTOR** connectors in-line with the respective factory injector and connector. The Bazzaz injector connector with the pink/white wire will go to the left injector (injector/cylinder #1).


The Bazzaz connectors are labeled “left” and “right”.

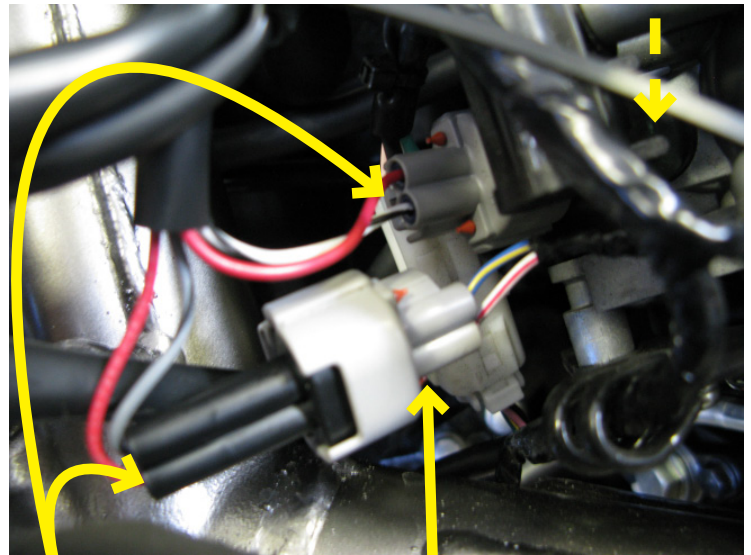
Injector #1 (hidden in photo) 




 Bazzaz injector connectors

 Factory injector connector

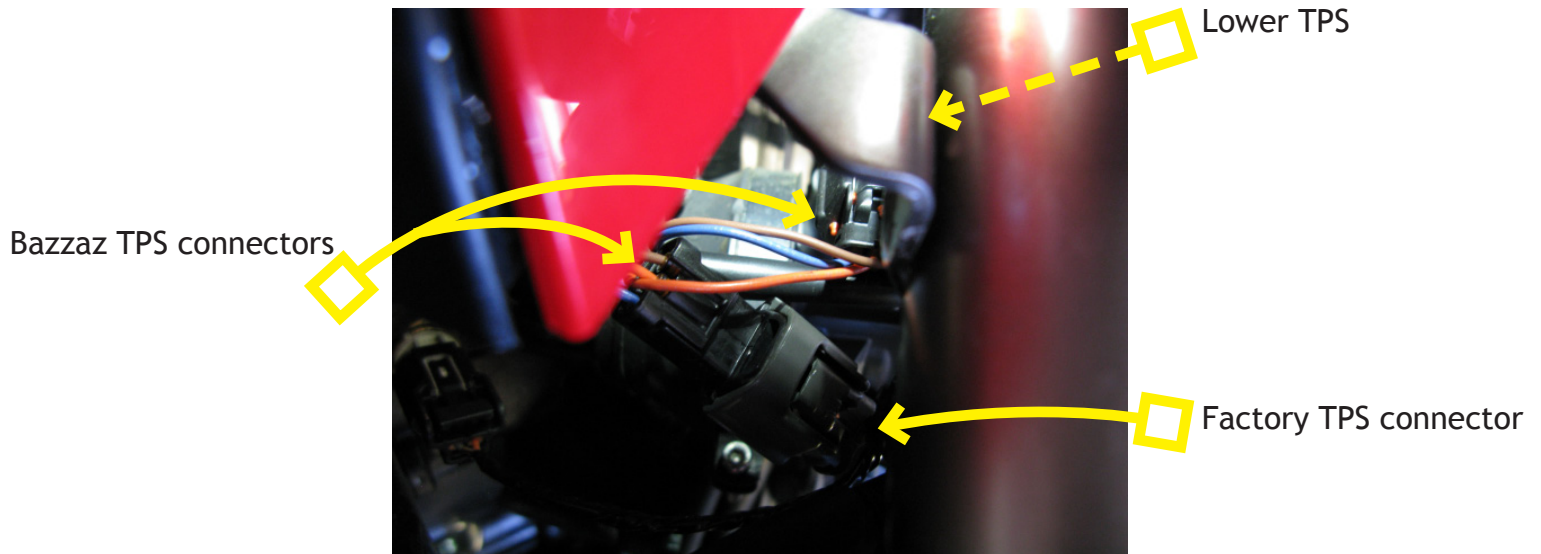
Injector #2 (hidden in photo) 



 Bazzaz injector connectors

 Factory injector connector

7. Now, locate the lower factory Throttle Position Sensor (TPS) which can be found directly on the left side of the throttle bodies. Disconnect the factory TPS connector from the sensor and connect the Bazzaz TPS connectors in-line with the factory sensor and connector.



Bazzaz TPS connectors 

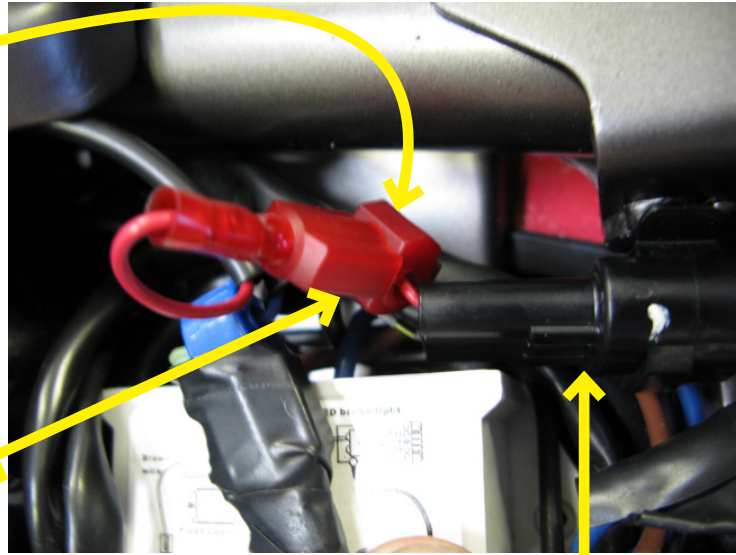
 Lower TPS

 Factory TPS connector

8. Locate the factory tail light connector which can be found in the tail section, underneath the passenger seat. Cut back the sheathing of the connector to expose the red wire of the factory tail light connector. Now crimp a supplied Scotchlok onto the exposed **red** wire and insert the Bazzaz + 12V SWITCHED POWER connector into the Scotchlok.

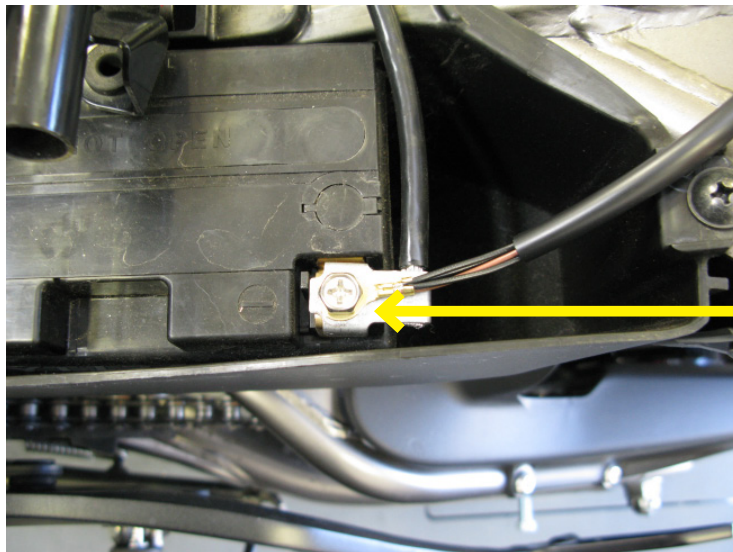
Scotchlok crimped onto the **red** wire of the factory tail light connector

Bazzaz +12V switched power connector



Factory tail light connector

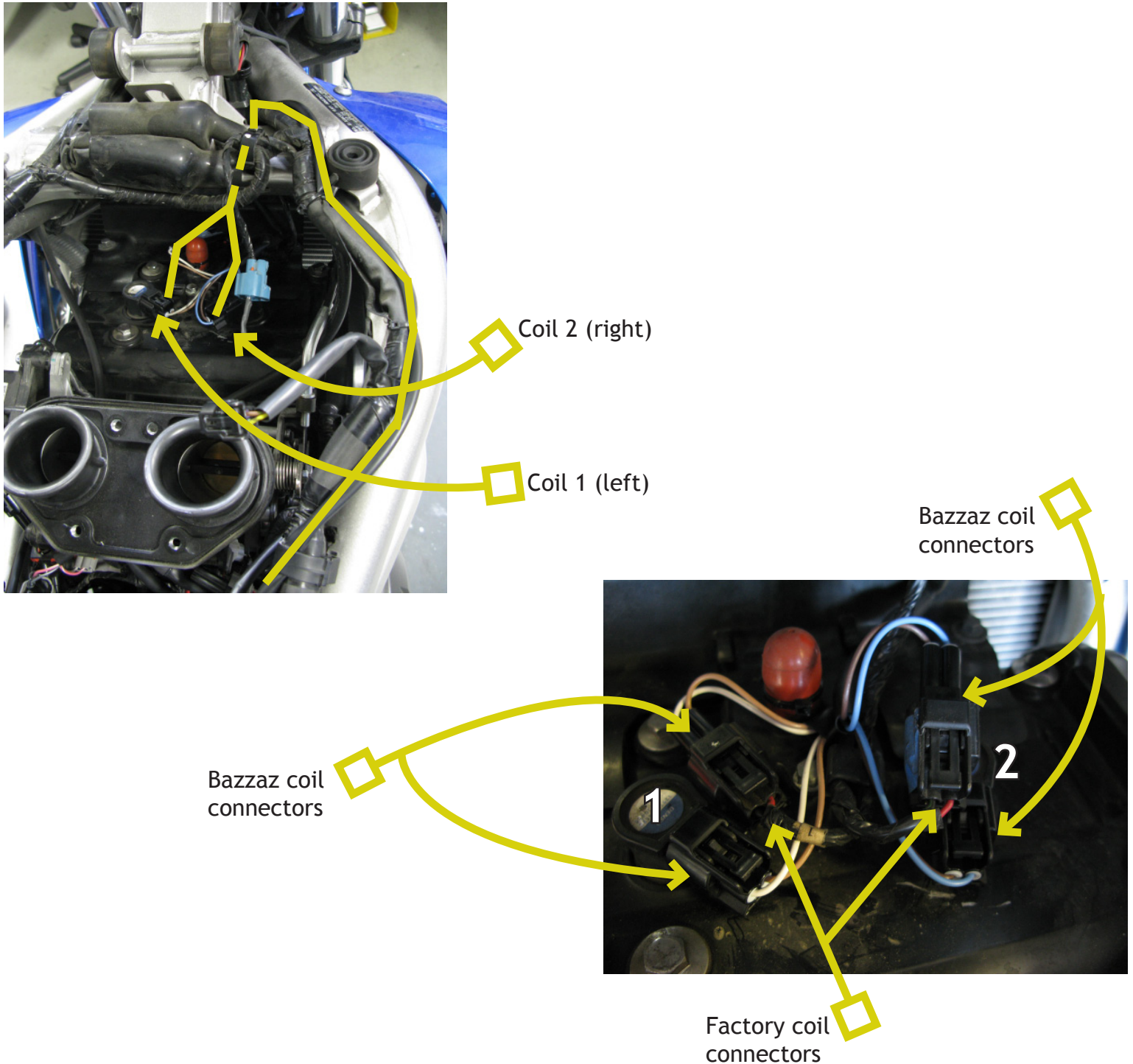
9. Next, Install the Bazzaz **GROUND LUG** to the negative side of the battery.



Bazzaz ground

10. Now, connect the main connector of the Bazzaz **COIL HARNESS** to the control unit and begin to route the coil harness along the right side of the bike, up to the valve cover. Disconnect the factory coil connectors from each coil and plug the Bazzaz **COIL** connectors (right to left) in-line with the factory coil and coil connector. The Bazzaz coil connectors with the blue and brown wires will go to coil #2 (right coil).

The Bazzaz connectors are labeled “right” and “left”.

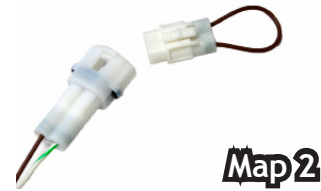


11. In order to install the quickshifter, aftermarket rearsets must be used. Install the **SHIFT SWITCH** (installation of shift switch will vary depending on brand of rearsets), and then route the shift switch connector to the mating connector on the Bazzaz coil harness and connect.

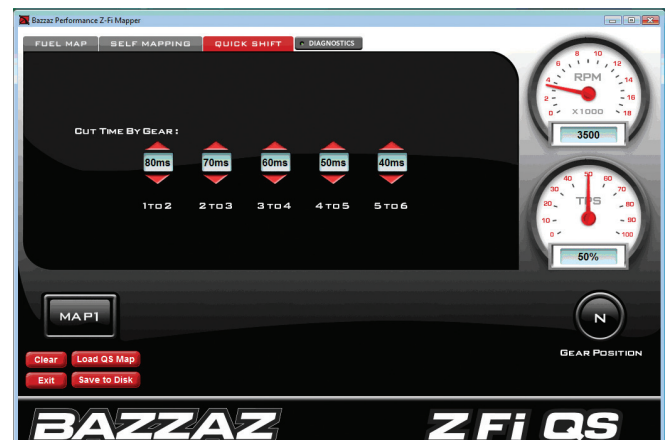
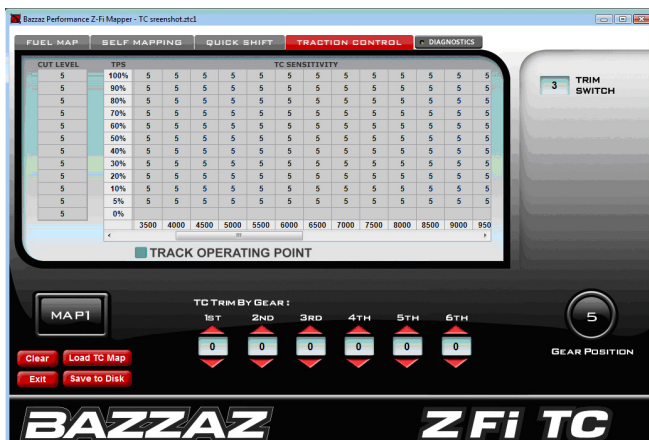
To complete the installation, use the supplied cable ties to secure the harnesses neatly along the routing path free of any moving or hot components (which could cause damage or failure of the system). If any problem is found, please carefully follow through the installation steps again. If problem still persists, please call **Bazzaz tech support at (909) 597-8300**. After it is determined that everything is correct, reinstall the components removed in step one and the installation will be complete.

The Bazzaz control unit is capable of storing two maps. These maps can be selected by connecting or disconnecting the map select jumper on the fuel harness (or you can switch maps on the fly with the handle bar mounted map select switch, sold separately). When the map select jumper is connected, the control unit is operating using map 1. When the map select jumper is disconnected, the control unit is operating using map 2.

The control unit is pre-programmed from the factory with an enhanced map for the Ninja 650 in the map 1 position. The map 2 position is using the stock ECU map. You are able to load and unload maps as needed via the Z-Fi Mapper software.



Don't forget to download the Z-Fi Mapper software from www.bazzaz.net (under the software tab) so that you can adjust your fuel map, QS or TC settings (depending on the product you purchased). You will also need access to the Z-Fi Mapper software if you will be using the Z-AFM self-mapping kit.



Accessories you may be interested in to ENHANCE your Bazzaz experience

Z-AFM™ | Tuning Technology (for use with all Bazzaz fuel control units)

Quickly collect data to build ideal, self-made fuel maps while riding. [Part No. 127062]



Map Select Switch (for use with the Z-Fi, Z-Fi MX, Z-Fi QS and Z-Fi TC)

The Bazzaz Map Select Switch is a handlebar-mounted switch for convenient toggling between two maps held on the Bazzaz unit. For example, rider can toggle between a fuel efficient map, rain map, or a full power map. [Part No. 127078]



Traction Control / Map Select Switch (for use with Z-Fi TC only)

The Bazzaz TC Adjust Switch is a handlebar-mounted switch for easy, on the fly, traction control adjustments and map switching. Quickly adjust traction control settings (a great way to learn TC), or switch off, using a 10-point dial. Also toggle between two maps held on the Bazzaz unit (e.g. rain map, fuel economy map, etc.) on the fly. [Part No. 127079]



Traction Control Active Light (for use with Z-Fi TC)

TC Active Light illuminates when traction control is engaged. Helpful in determining when and where traction control is being actuated. [Part No.M842]

