

Kawasaki Ninja 650 2012-2013 Kawasaki ER6N 2012-2013

Z-Fi Installation Instructions Part # F446

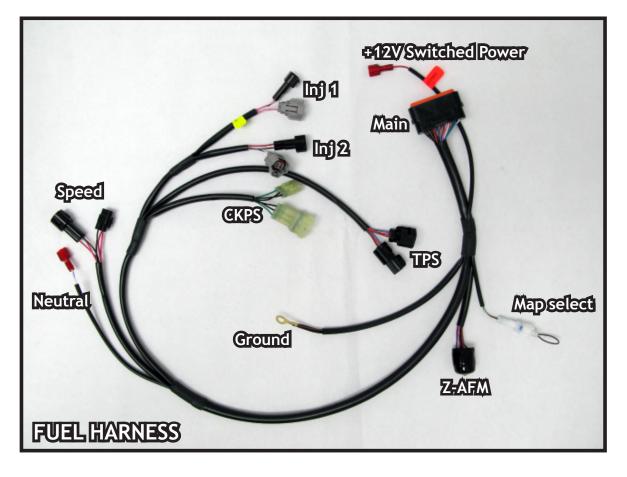


Parts List: Z-Fi Control Unit Fuel Harness Scotchlok (2) Cable Ties USB Cable Swingarm Stickers Download Z-Fi Mapper Software at bazzaz.net Software instructions available at bazzaz.net

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

BAZZAZ HARNESS CONNECTOR IDENTIFICATION

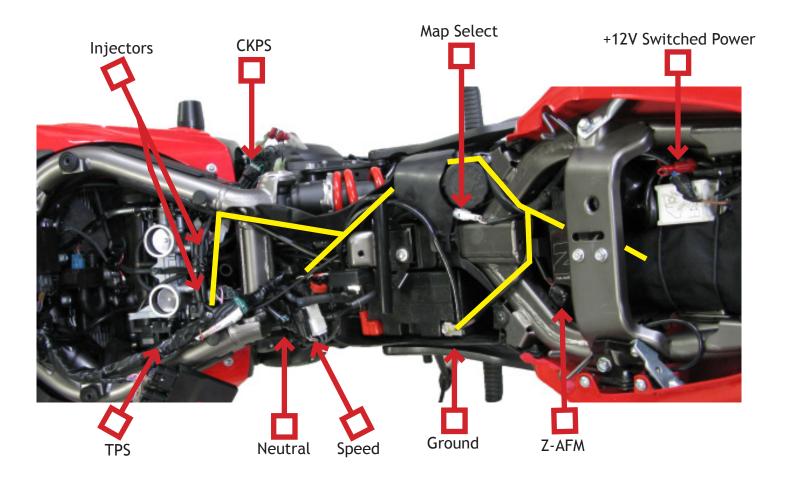


Read through all instructions before beginning installation. This is not a replacement for the ECU. This document is intended for use by qualified technicians. Refer to a factory service manual for more specific stock component identification and location information.

WE STRONGLY SUGGEST THAT AN EXPERIENCED TECHNICIAN INSTALL THIS BAZZAZ PRODUCT

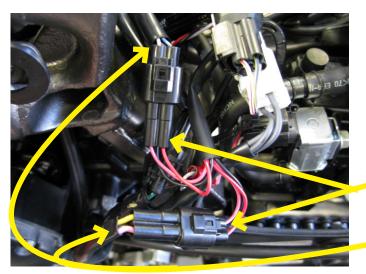
1. Begin the installation by removing the rider and passenger seat, fuel tank, and air box.

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 skotchlok and crimp onto the light green wire. Now insert the Bazzaz **NEUTRAL** connector into the scothclok.

Bazzaz neutral connector

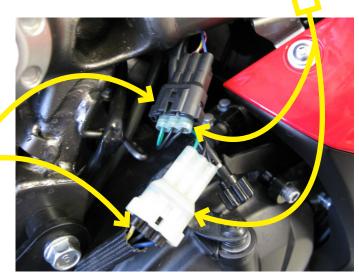
Scotchlok crimped onto the **light green** neutral sensor wire

Factory neutral sensor wire

Bazzaz CKPS connectors

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.

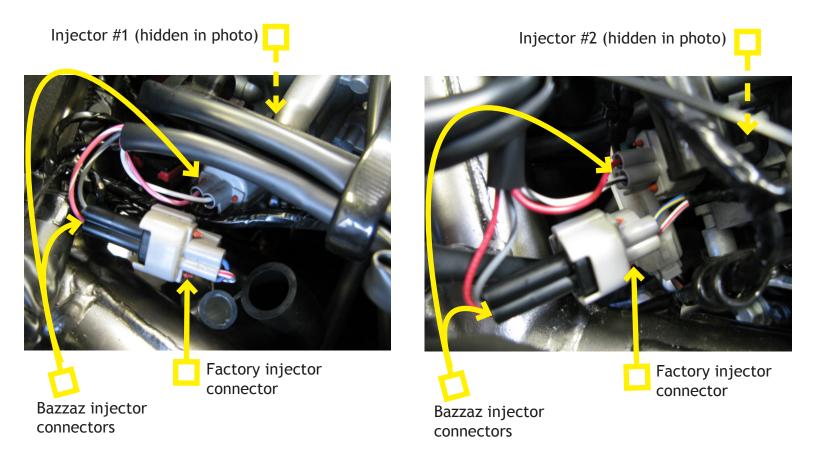
Factory CKPS connectors



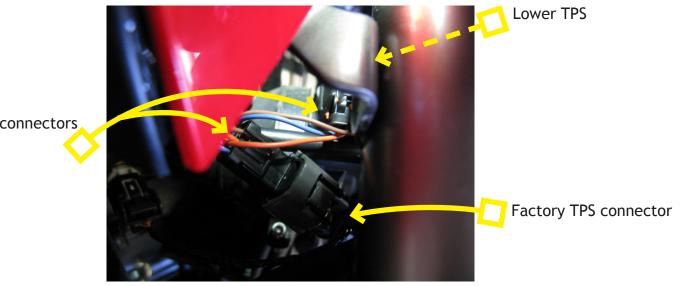
6. Route the Bazzaz injector connectors to the factory injectors which can be found directly beneath the factory fuel rail.

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".

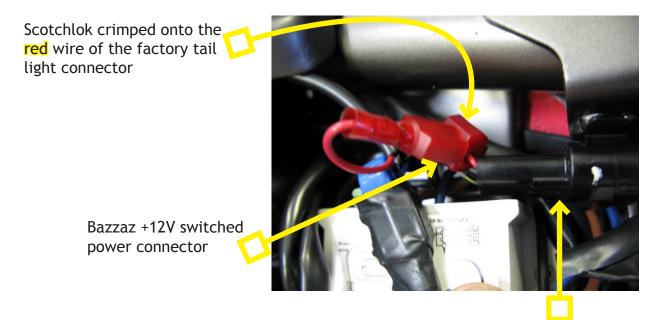


7. Now, locate the lower factory Throttle Position Sensor (TPS) which can be found directly on the left side of the throttle bodies. Disconnect the factory TPS connector from the sensor and connect the Bazzaz **TPS** connectors in-line with the factory sensor and connector.



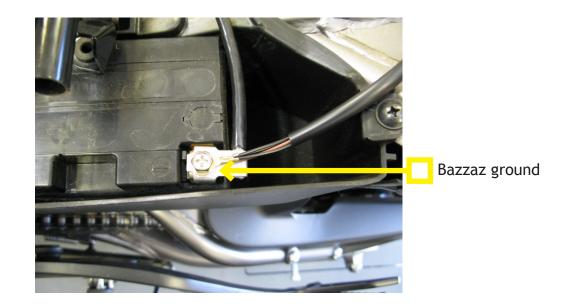
Bazzaz TPS connectors

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.



Factory tail light connector

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



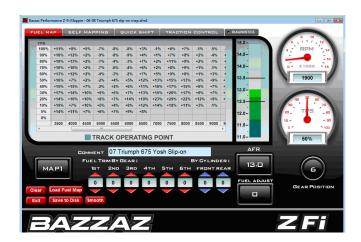
To complete the installation, use the supplied cable ties to secure the harnesses neatly along the routing path free of any moving or hot components (which could cause damage or failure of the system). If any problem is found, please carefully follow through the installation steps again. If problem still 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 **bazzaz.net** (under the software tab) if you wish to adjust your fuel map. 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]

