

# INSTALLATION INSTRUCTIONS



# UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

**QS4 USB**

**STAND-ALONE QUICKSHIFT**

**KAWASAKI NINJA 400 / Z400 | 2018-2019  
Q451**

## 1>READ

### WARNINGS > INSTALLING



- We strongly suggest that an experienced technician install this product.
- Read through all instructions before beginning installation.
- This document is intended for use by qualified technicians.
- This is not a replacement for the factory Engine Control Unit (ECU).
- Refer to a factory service manual for more specific stock component identification/location information and removal/assembly procedures.

### WARNINGS > USING



- 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 public lands.

### GETTING HELP



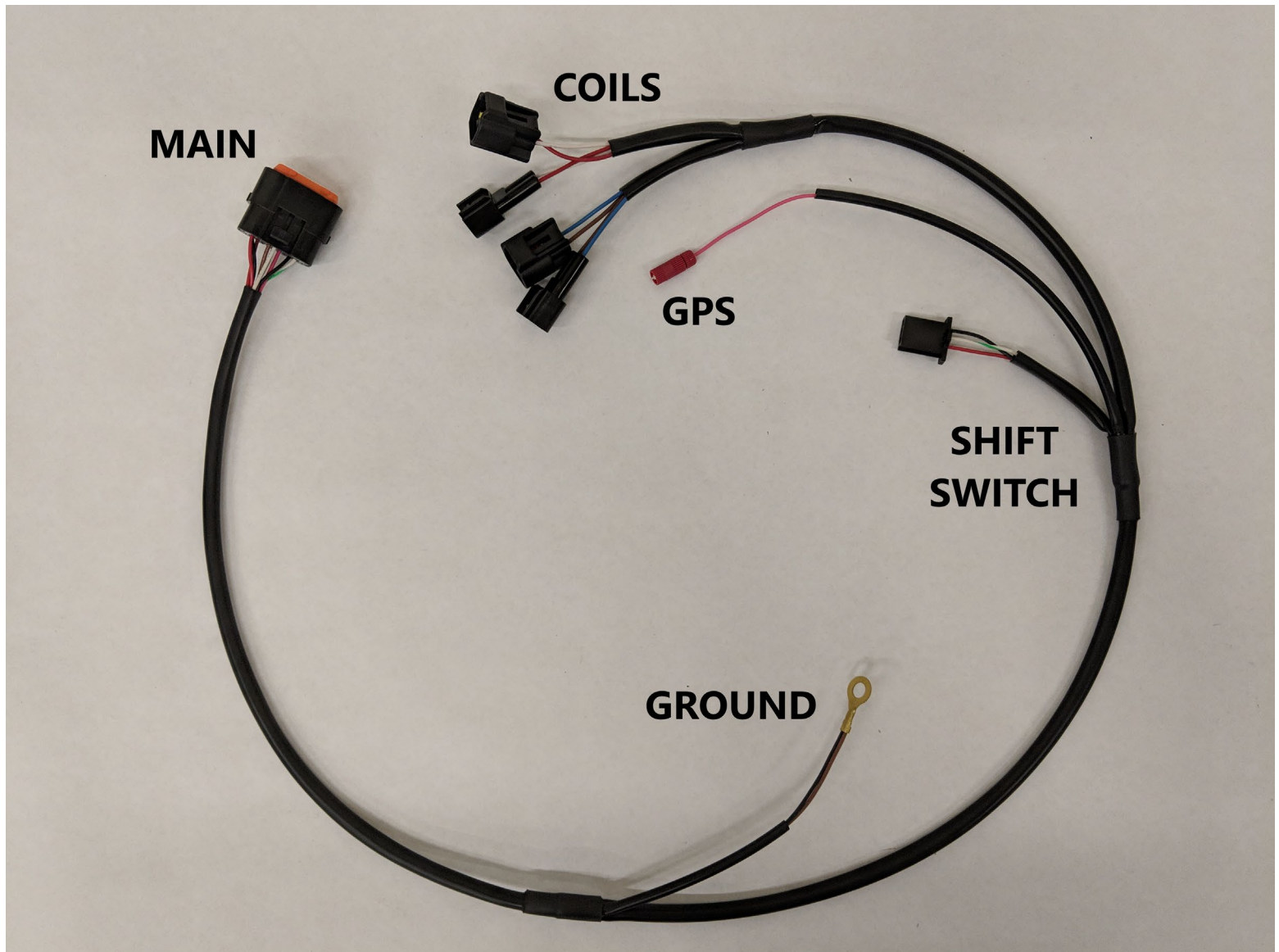
- Factory support is available in the US at 909-597-8300.
- For fastest support outside of the US, find your local importer at [bazzaz.net](http://bazzaz.net).

# 2>IDENTIFY

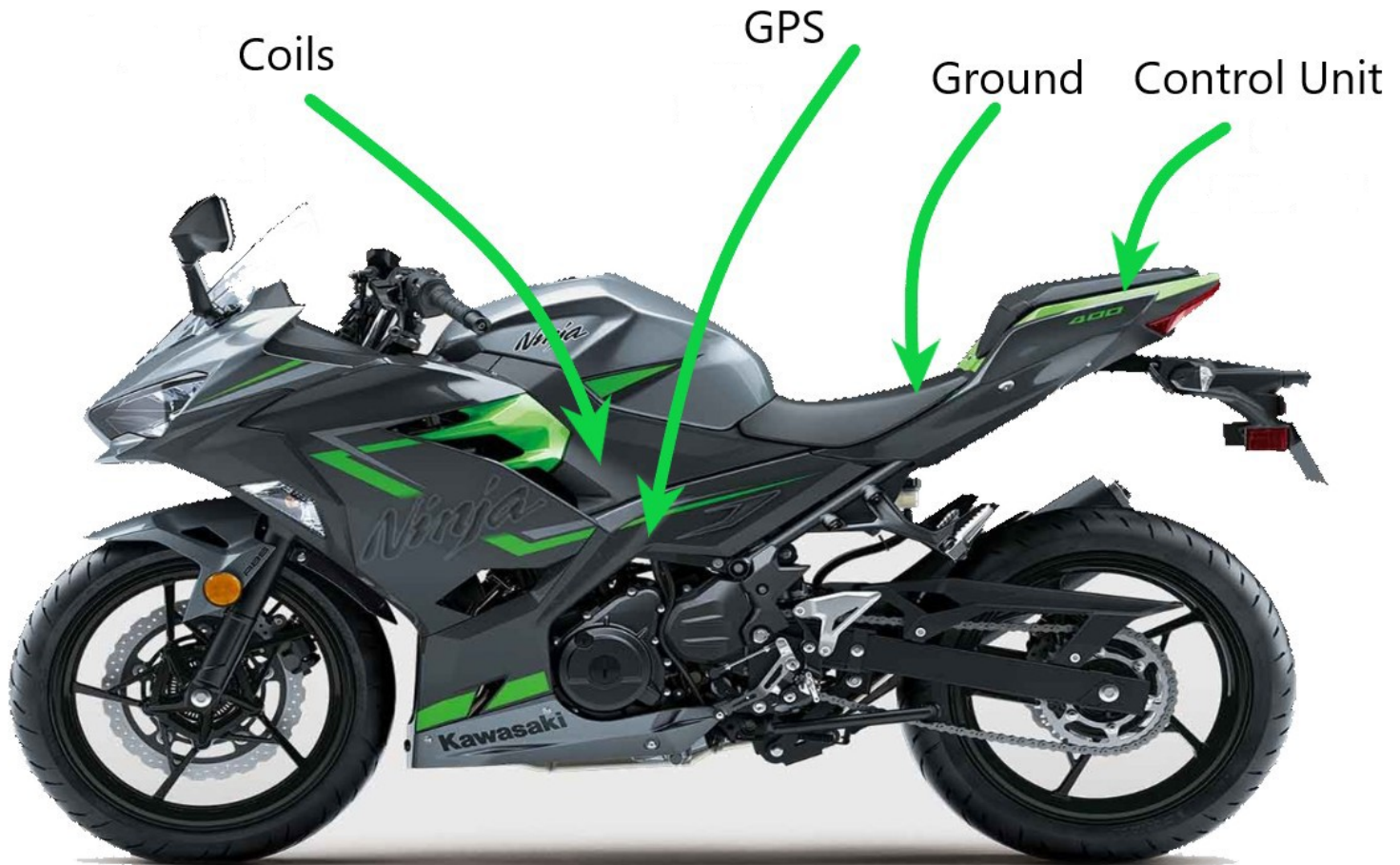
## INCLUDED PARTS

1. QS4 USB control unit
2. QS4 USB Harness
3. Universal Strain Gauge Shift Switch
4. USB cable
5. Zip ties
6. Velcro

## QS4 USB HARNESS



## 2>IDENTIFY (CONT.)

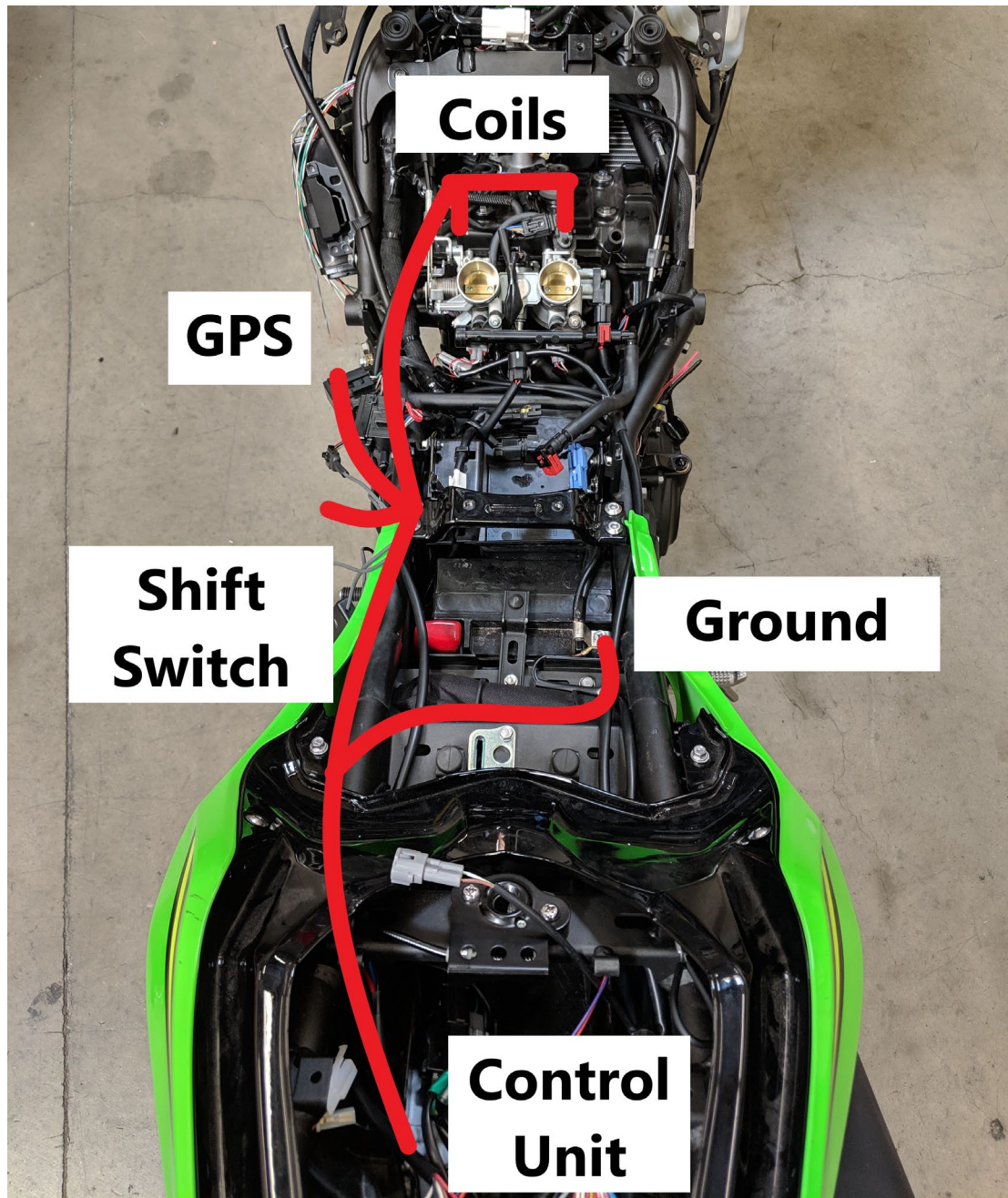


## 3>REMOVE

1. Seat
2. Left side panels
3. Right side panels
4. Fuel tank
5. Air Box



# 4>ROUTE



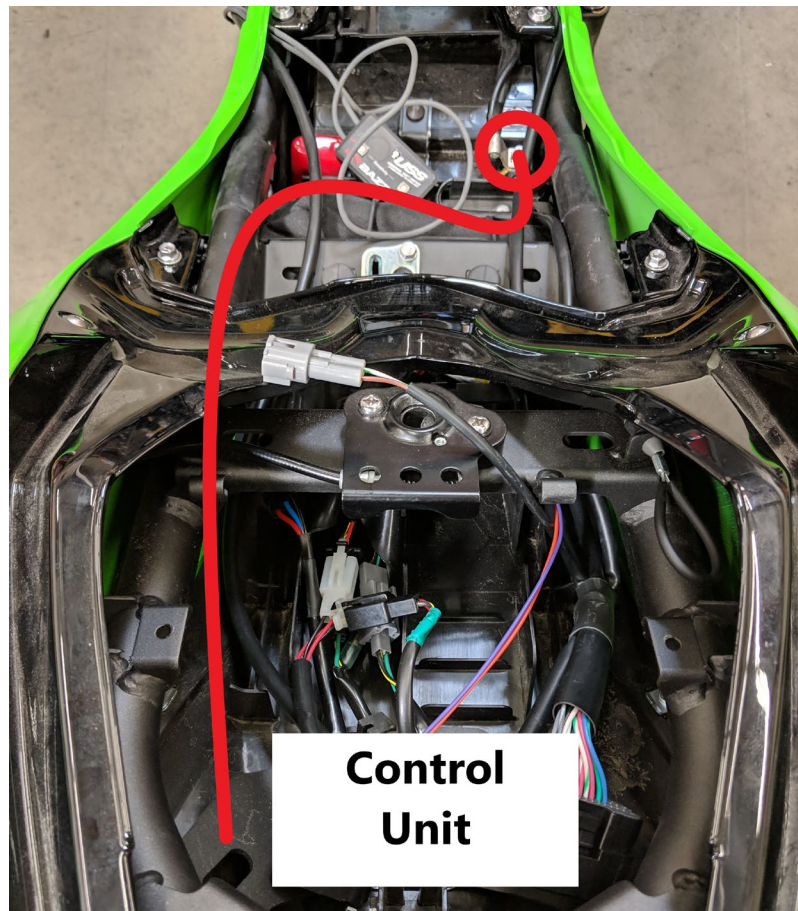
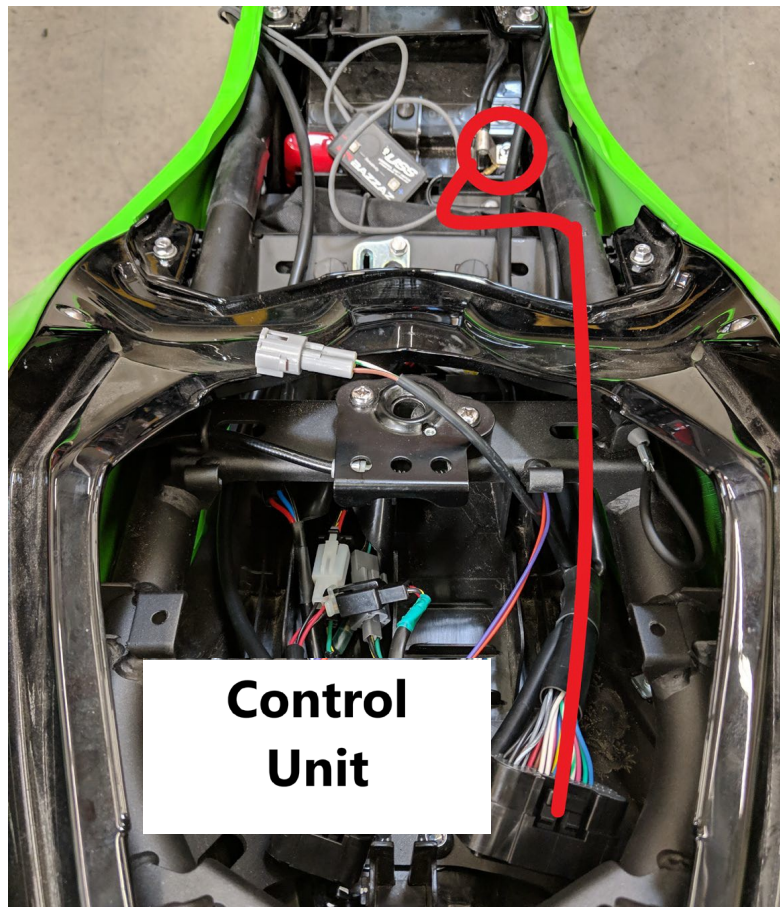
## QS4 USB HARNESS

1. Begin routing the Bazzaz QS4 USB harness along the left side or the right side of the fuel tank towards the coils.
2. Route the remaining connections i.e the Shift Switch and the GPS towards where the seat was located.
3. Route the Ground connection towards the negative terminal of the battery
4. Place the main connector where the control unit would be installed near the rear seat section.

# 5>GROUND

1. Locate the negative terminal on the battery under the seat section.
2. Remove the factory 10mm bolt.
3. Connect the Bazzaz ground lug with the negative terminal.
4. Replace factory bolt.

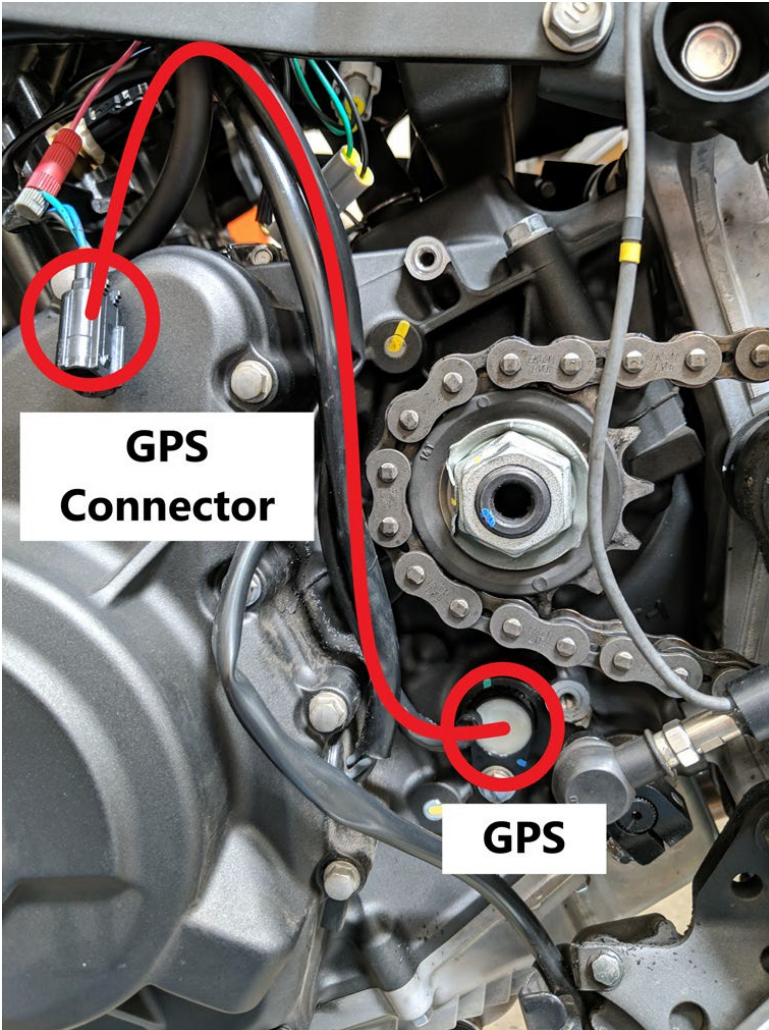
## OR





# 6>CONNECT (CONT.)

1. Locate the factory 3-Pin Gear Position Connector, which has a **BLUE**, **LIGHT GREEN** and a **GREY** wire.
2. To locate the connector, follow the wires from the Gear Position Sensor under the sprocket cover and follow to the rubber boot where the CKPS connector was located.



3. Use a POSI-TAP to tap onto the GPS Signal wire which is the middle **LIGHT GREEN** wire.
4. The instructions on how to use the POSI-TAP are below.

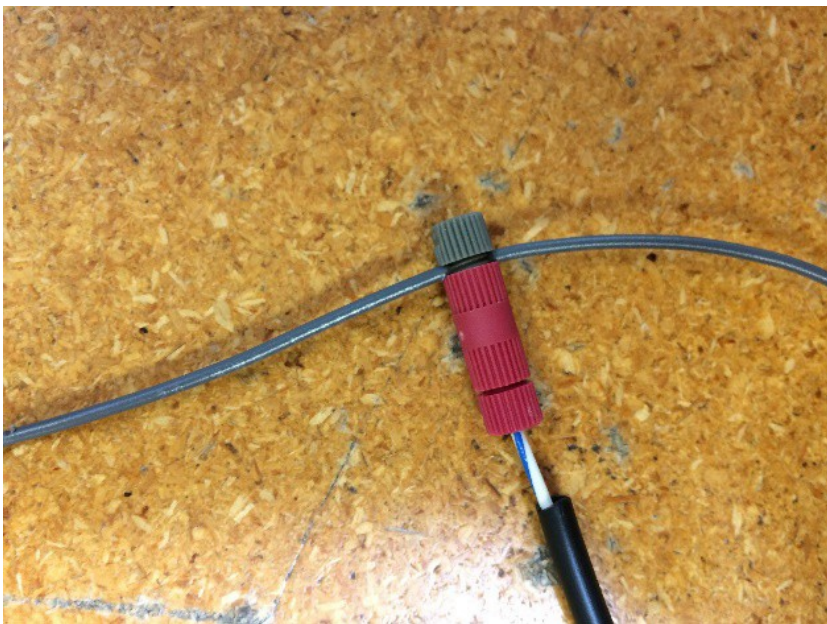


# Posi-Tap Installation Guide

**Step 1:** un-screw GREY/BLACK locking tab    **Step 2:** Slide grey locking tab over desired wire to “tap” into



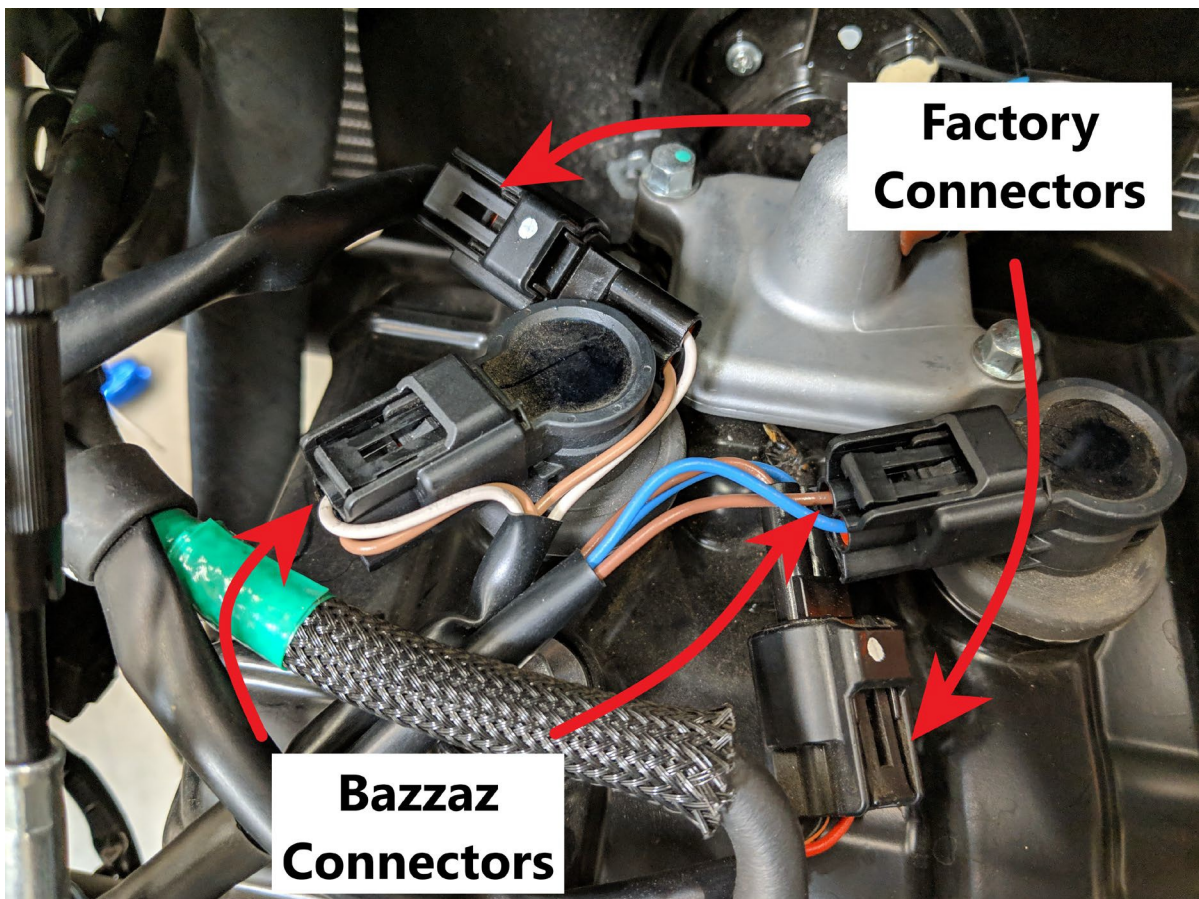
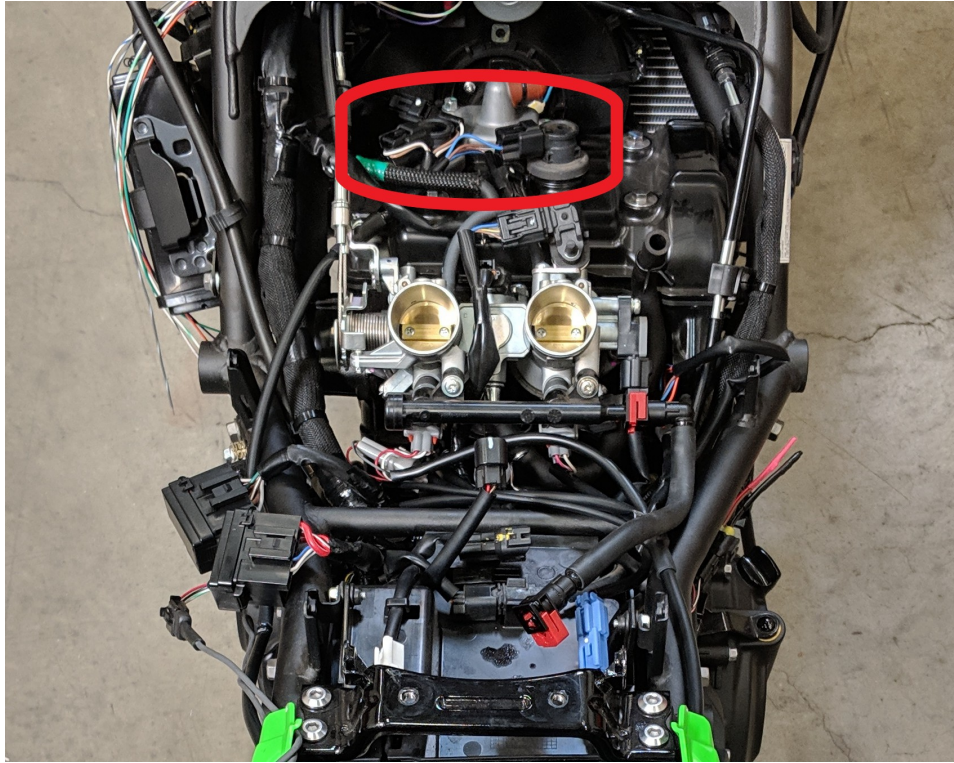
**Step 3:** Re-Apply grey locking tab to the mating red connector. Firmly, finger tighten.





# 7>CONNECT

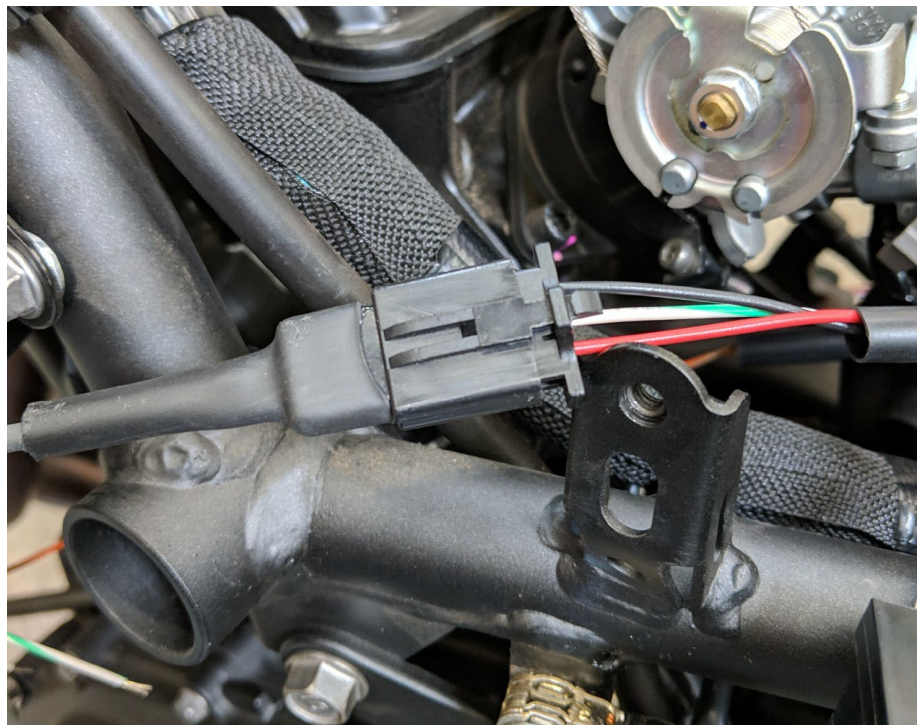
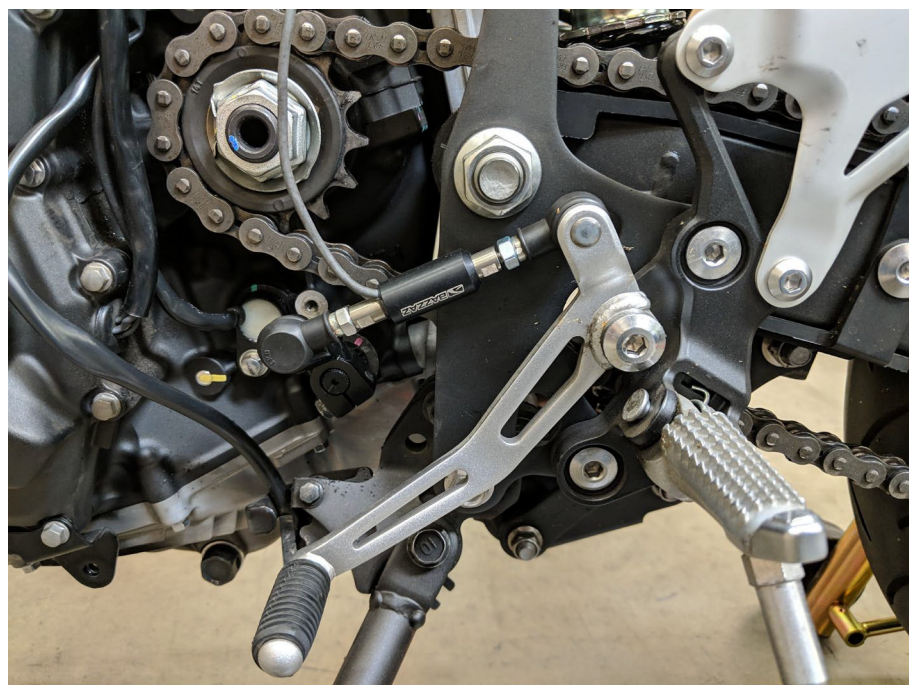
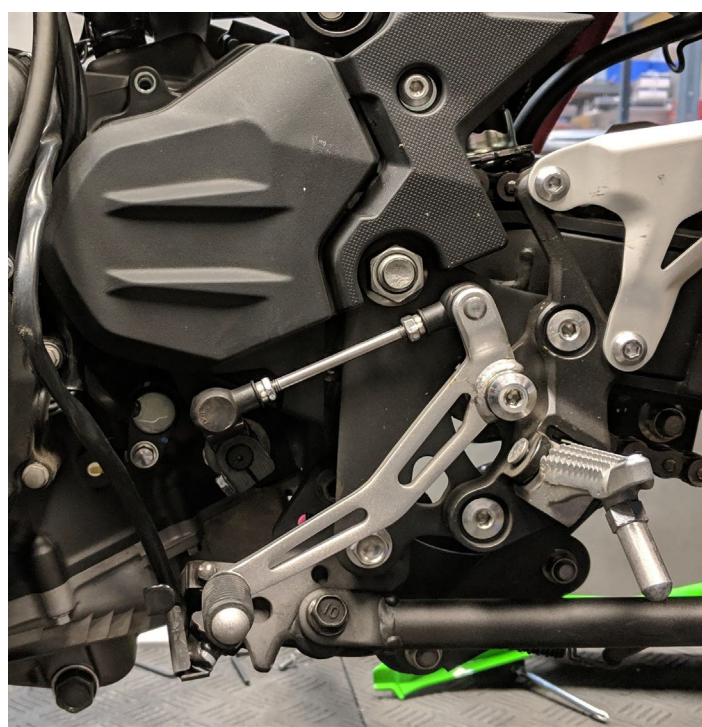
1. Connect the main connector of the Bazzaz QS4 USB harness to the control unit.
2. Route the Bazzaz coil harness along the right side or left side of the Fuel Tank.
3. Disconnect the factory coil connector from the coil.
4. Connect the Bazzaz coil connectors in-line with the factory coil connector .





# 8>CONNECT

1. There is no Shift Rod provided with this kit. The instructions below are for **STOCK SET-UP ONLY**. If after-market rearsets are installed, please contact us.
2. For the Stock setup use the left and right threads provided along with the USS to adjust the length accordingly.
3. Route the Bazzaz shift switch connector to the mating connector of the Bazzaz coil harness and plug in-line.



# 9>SECURE



Use the supplied cable ties to secure the harness neatly along the routing path **free of any moving or hot components (which could cause damage or failure of the system).**



# 10>CHECK



1. In order to check that the system is installed correctly, download the Bazzaz Z-Fi Mapper software at [bazzaz.net](http://bazzaz.net).
2. Plug the USB cable into the control unit and computer.
3. Locate and open the Z-Fi Mapper software.
4. Check that the pre-programmed map matches the model of your bike on the fuel map page within the software. You can switch from map 1 to map 2 by unplugging the map select jumper on the Bazzaz fuel harness. Map 1 will be pre-programmed; depending on your model, there may be a pre-programmed map in the map 2 slot. If map 2 is blank, stock ECU settings are used. Make sure that the jumper is left plugged in or unplugged, depending on which map you choose.
5. Start the vehicle and begin to check that the following inputs read correctly on the fuel map page.
  - RPM - Make sure that the RPM is reading near what the vehicle is idling at.
  - GPS - The vehicle should read neutral (or whichever gear it is in). For motorcycles that use a Gear Position Sensor, the bike does not need to be running to do this. For motorcycles that use a speed sensor, the wheel must be spinning to read gear properly. This can be checked on a dynamometer or by using a rear stand. Use caution when testing componentry.
  - TPS - When throttle is applied, the TPS should read accordingly. Fly-by-wire models must be running to check TPS. Normal cable operated throttles can be checked with just the key on, not running.

## **Also use software to:**

- View and/or make adjustments to fuel maps
- Activate Z-AFM self mapper (sold separately)
- Save and load new fuel maps
- Re-calibrate throttle position sensor after throttle modifications
- View diagnostics for troubleshooting
- Change quickshift settings
- Make traction control adjustments





If any problem is found, please carefully follow through the installation steps again.



If problem still persists, please contact Bazzaz tech support

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- For fastest support outside of the US, find your local importer at [bazzaz.net](http://bazzaz.net)

## 11>REINSTALL

After it is determined that everything is correct, reinstall the components removed in step 3.

## 12>NEXT LEVEL

**\*\*Accessories purchased separately.**

### SHIFT LIGHT (Sold Separately)

Illuminates white to identify pre-determined, optimal shift points.

Used to improve forward drive and momentum for faster drag passes and lap times.

Comes pre-programmed with suggested values that can be easily adjusted as desired.

\*For use with the QS4 USB stand-alone quick shift only.



**\$129.99**



**THE SMARTEST PERFORMANCE TUNING TECHNOLOGY**



Proudly made in the  
**United States**

**Q451**