

# INSTALLATION INSTRUCTIONS



# UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

**ZFI** FUEL MANAGEMENT

**ZFI TC** FUEL + QS + TRACTION CONTROL

**YAMAHA YFZ R1 2015**  
**F746 | T746**

## 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 highways.

### 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).

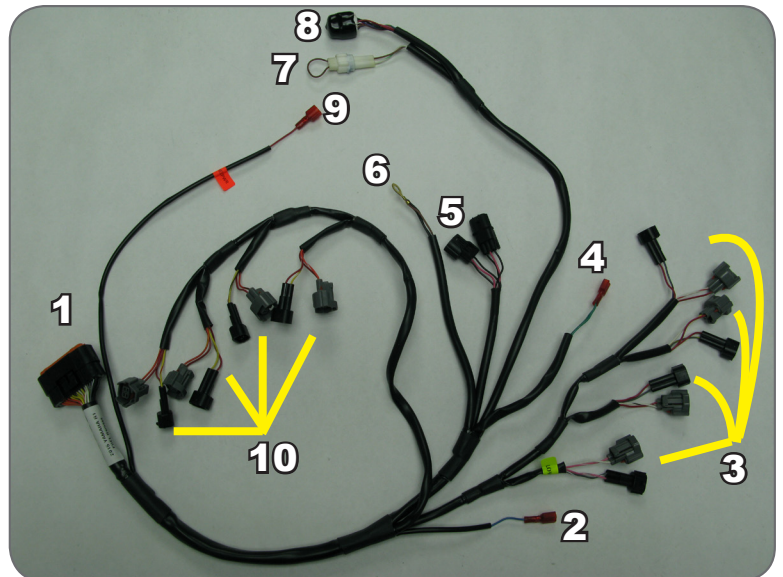
# 2>IDENTIFY

## INCLUDED PARTS

1. Z-Fi/Z-Fi TC control unit
2. Fuel harness
3. Coil harness (For Z-Fi TC only)
4. Shift Switch and mounting hardware (For Z-Fi TC only)
5. USB cable
6. Scotchlok (3)
7. Velcro
8. Download Bazzaz software from [bazzaz.net/index.php/software-overview](http://bazzaz.net/index.php/software-overview)

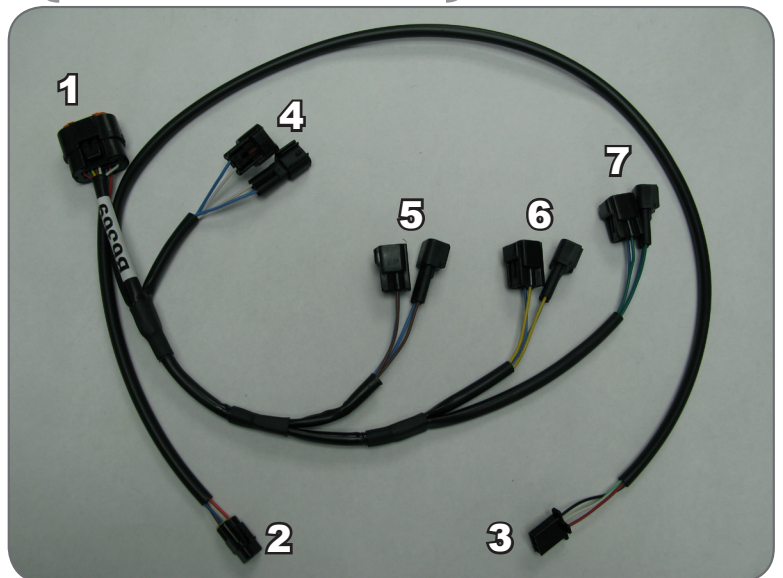
## FUEL HARNESS

1. Main
2. TPS
3. Lower Injectors
4. CKPS
5. GPS
6. Ground
7. Map Select
8. Z-AFM
9. +12v SW Power
10. Upper Injectors



## COIL HARNESS (Z-FI TC ONLY)

1. Main
2. TC Adjust
3. Shift Switch
4. Coil 1
5. Coil 2
6. Coil 3
7. Coil 4

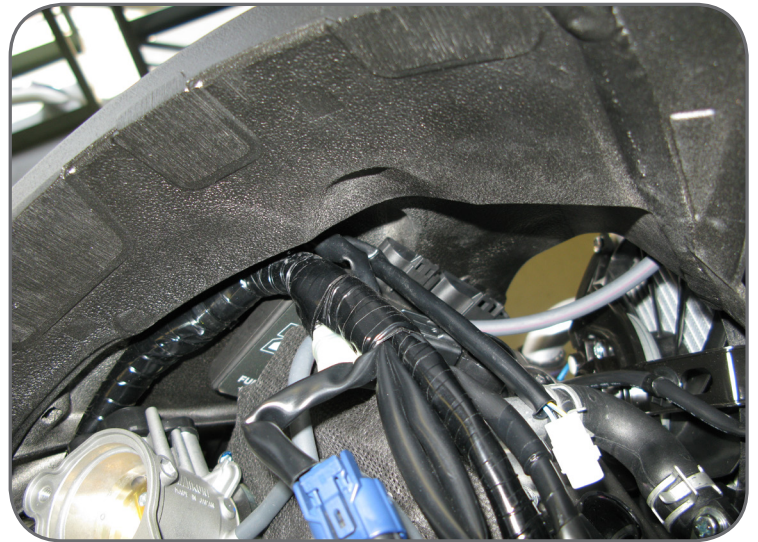


# 3>REMOVE

1. Rider seat
2. Fuel tank
3. Airbox
4. Left side fairing panel

# 4>SECURE

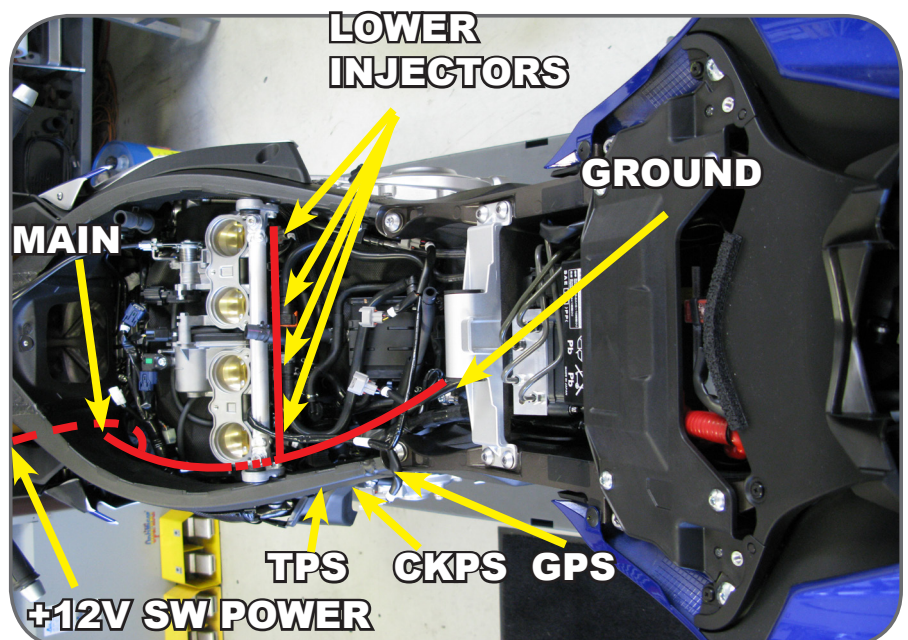
1. Mount the Bazzaz control unit, using the supplied velcro, to the inside of the frame on the left side of the bike near the airbox and valve cover.



# 5>CONNECT

## 5.1

1. Connect the main connector of the Bazzaz fuel harness to the control unit, and begin to route the harness towards the back of the bike along the left side frame rail.

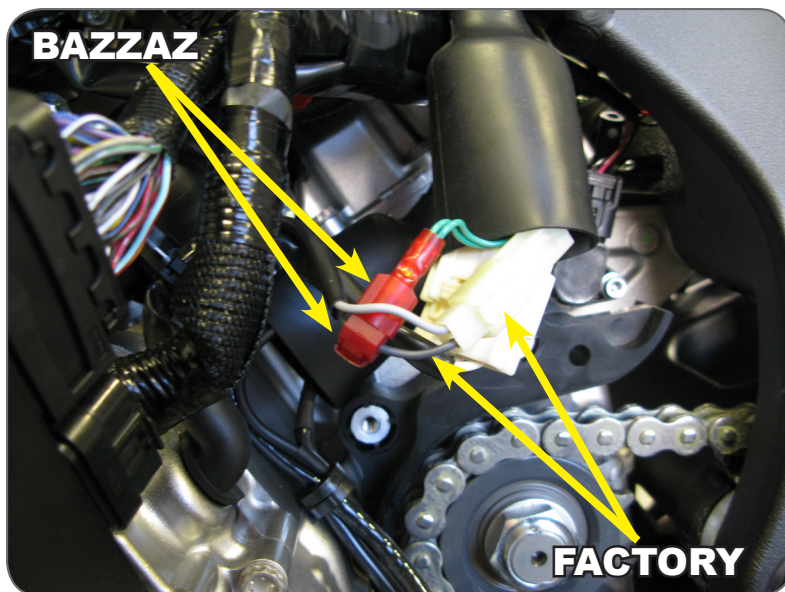
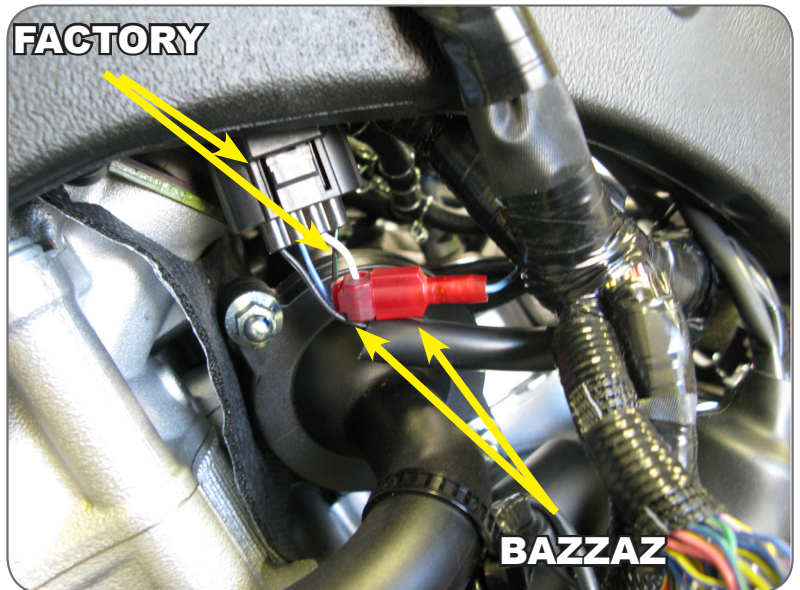




# 5>CONNECT (CONT.)

## 5.2

1. Locate the factory throttle position sensor, which can be found on the left hand side of the throttle bodies.
2. Separate the white wire.
3. Using the supplied scotchlok, crimp onto the white wire.
4. Connect the Bazzaz TPS connector.



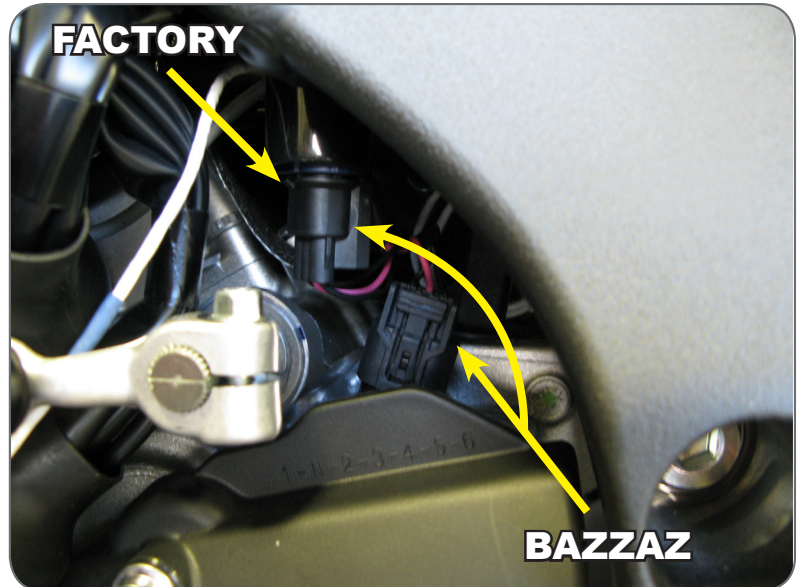
## 5.3

1. Locate the factory two pin CKPS connector which can be found within a black rubber boot on the left hand side of the bike.
2. Once located separate the factory dark grey wire and use the supplied scotchlok to crimp onto the dark grey wire.
3. Connect the Bazzaz CKPS connector.

# 5>CONNECT (CONT.)

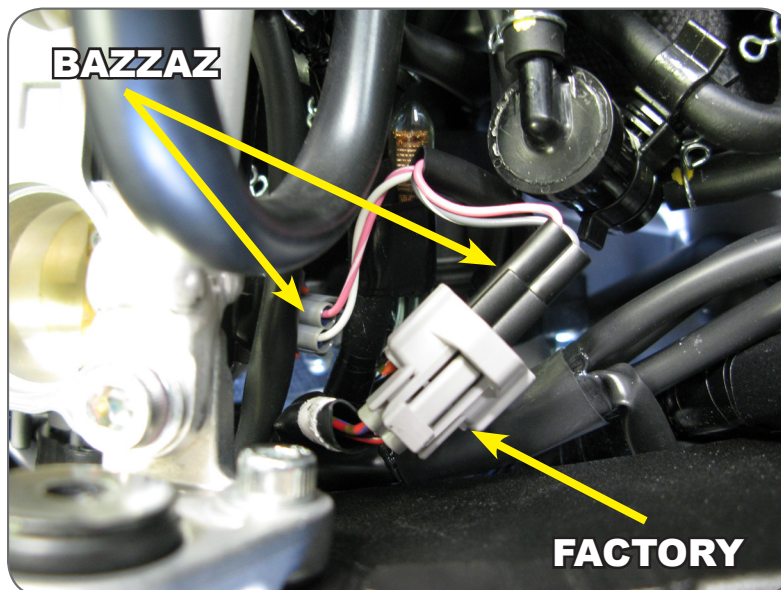
## 5.4

1. Locate the factory blue GPS connector, which can be found on the left hand side of the motor, just above the front sprocket cover.
2. The factory GPS connector will have a black rubber boot over the connector.
3. Disconnect the factory GPS connector, and install the Bazzaz GPS connectors inline.



## 5.5

1. Locate the lower injector #1, which can be found on the left hand side of the throttle body.
2. Disconnect the factory injector connector and install the Bazzaz lower injector #1 connector.
3. Follow this process for the next three lower injectors, working your way from left to right.

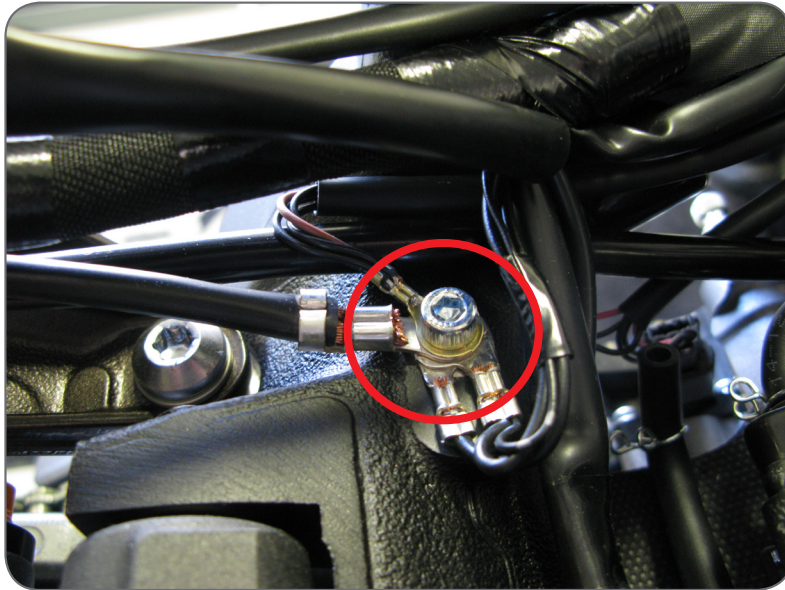




# 5>CONNECT (CONT.)

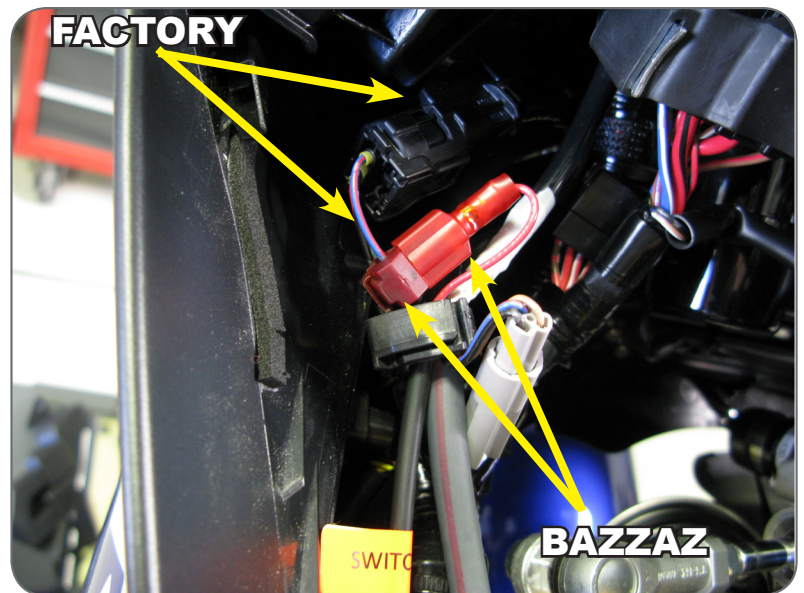
## 5.6

1. Locate the factory common ground, which can be found on the left hand side of the bike, bolted to the frame.
2. Install the Bazzaz ground lug and tighten the factory bolt.



## 5.7

1. Locate the factory left running light connector, which can be found near the front of the bike on the left hand side.
2. Separate the factory blue/red wire, and crimp onto it using the supplied scotchlok.
3. Connect the Bazzaz +12v SW power connector.



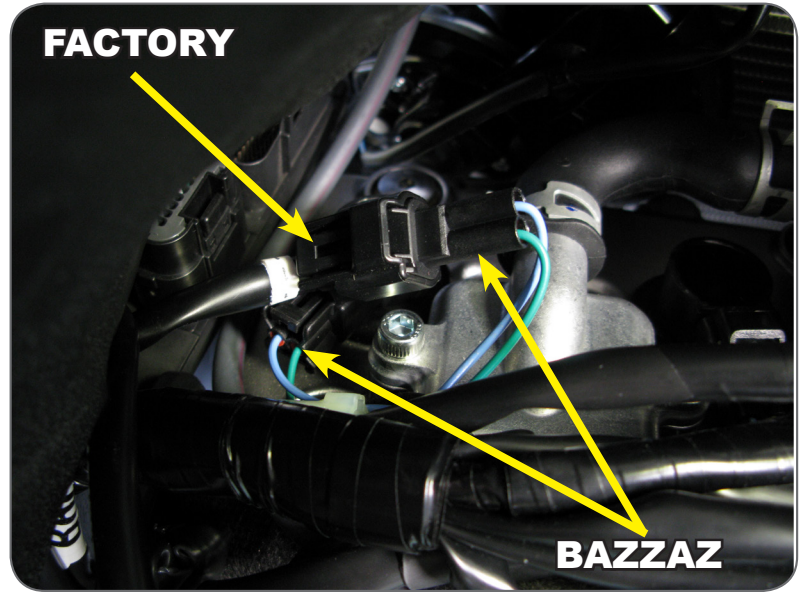
**SECTION 6>CONNECT, AND 7>QUICKSHIFT ARE FOR USE WITH THE BAZZAZ Z-FI TC ONLY!! FOR Z-FI, PLEASE SKIP FORWARD TO SECTION 8>CONNECT.**

# 6>CONNECT

(FOR USE WITH Z-FI TC ONLY!)

## 6.1

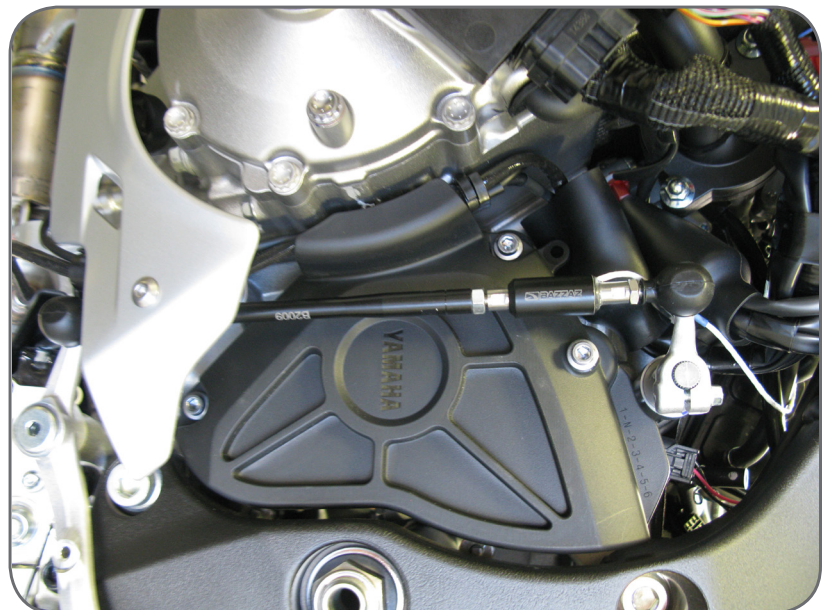
1. Connect the Bazzaz coil harness to the Bazzaz control unit, and begin to route the harness across the top of the valve cover.
2. The remaining shift switch connector can be routed back towards the factory battery, along the left hand side of the bike.
3. Locate the factory coil #1 on the far left hand side of the bike on top of the valve cover.
4. Disconnect the factory coil connector, and install the Bazzaz



# 7>QUICKSHIFT

(FOR USE WITH Z-FI TC ONLY!)

1. Measure and note your shift pedal height, so that you may reposition the shift pedal once complete.
2. Remove the factory shift rod and shift switch (You will need to disconnect the factory ABS connector at the main module when doing so to keep the bike from going into fail safe mode.)
3. Install the Bazzaz shift switch using one of the supplied allen stud bolts and tighten.
4. Next, install the Bazzaz shift rod. (The shift rod may need to be cut to acquire your original shift pedal height.)
5. Retighten all lock nuts on the shift linkage.

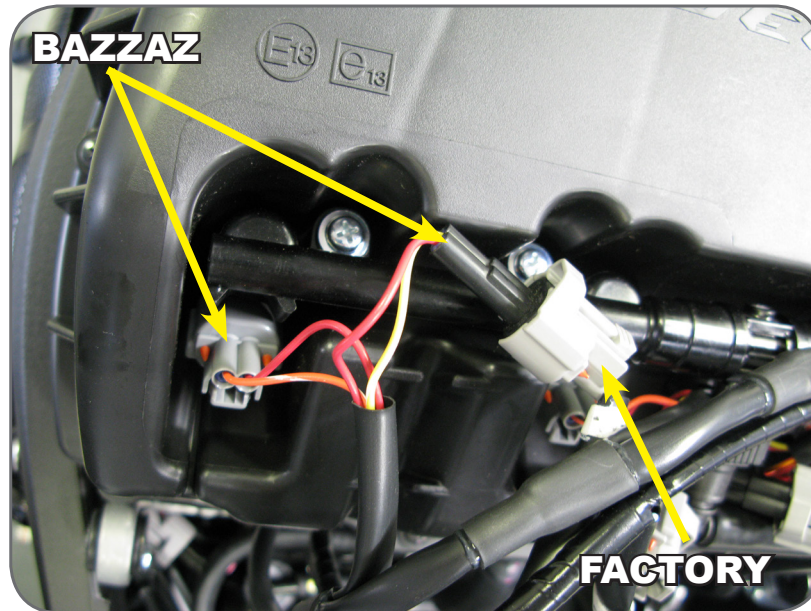




# 8>CONNECT

## 8.1

1. Reinstall the factory airbox to complete the installation of the Bazzaz fuel harness.
2. Once the factory airbox has been reinstalled, route the remaining Bazzaz upper injector lead to the top of the airbox.
3. Install the Bazzaz injector connectors inline working from left to right.



# 9>O2 ELIMINATION

1. Locate the factory O2 sensor connectors, which can be found directly beneath the fuel tank near the charcoal canister (right side O2) and the other can be found within a black rubber boot on the left hand side of the bike near the factory CKPS connector (left side O2).
2. Disconnect both O2 sensor connectors.
3. Secure the sensor leads away from any hot or moving parts.

# 11>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).



# 12>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

- 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)

## 13>REINSTALL

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

## 14>USE



**MAP 1**



**MAP 2**

### MAPS

The Bazzaz controller is capable of storing two maps.

Switch maps by connecting or disconnecting the map select jumper supplied with the kit.

Or use the optional handlebar-mounted switch to switch maps on the fly (sold separately).

## 15>NEXT LEVEL MAP SELECT SWITCH

Purchased separately.

Switch maps on the fly with this handlebar-mounted switch. Weatherproof toggle and easy installation.

**79.95**





# ZAFM SELF MAPPER

Purchased separately.

Build race-level fuel maps for your specific modifications, fuel type, engine, and atmospheric conditions simply while riding.

O2 sensor mounts into exhaust and control box easily plugs in to any Bazzaz Z-Fi product. **299.95**



## MAP SELECT/ TC ADJUST SWITCH

Purchased separately.

Switch maps on the fly with this handle-bar-mounted switch. Quickly adjust traction control settings using a 10-point dial. Weatherproof toggle and easy installation.

**129.95**



## TC ACTIVE LIGHT

Purchased separately.

Illuminates when traction control is engaged. Helpful in determining when and where traction control is being actuated.

**79.95**





**THE SMARTEST PERFORMANCE TUNING TECHNOLOGY**



Proudly made in the  
**United States**

**F746 | T746**