

# INSTALLATION INSTRUCTIONS



# UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

**ZFI** FUEL MANAGEMENT

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

**YAMAHA YZF R3A | 2015  
F748 | T748**

## 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).

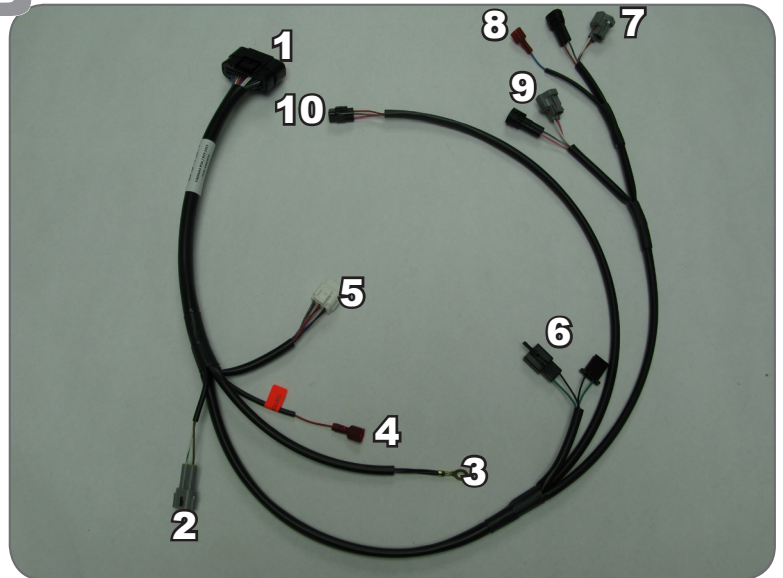
# 2>IDENTIFY

## 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. Scotchlok (4)
6. USB cable
7. Swingarm stickers
8. Velcro
9. Download Bazzaz software from [bazzaz.net/index.php/software-overview](http://bazzaz.net/index.php/software-overview)

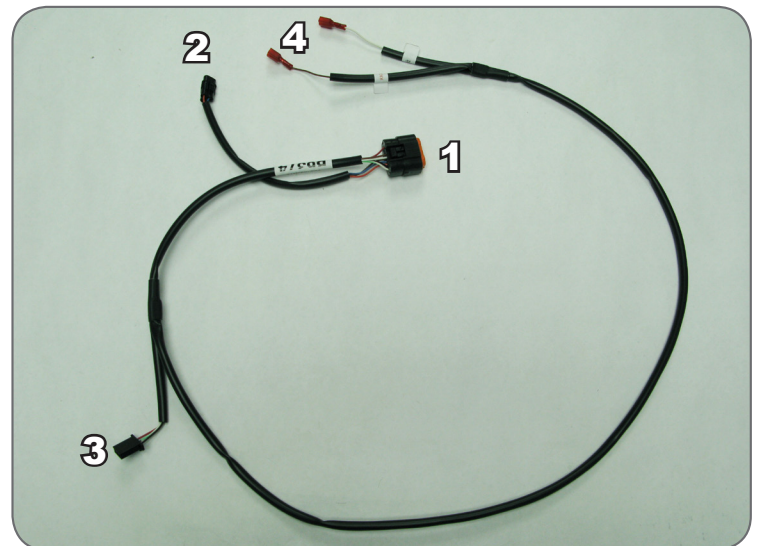
## FUEL HARNESS

1. Main
2. +12v SW Power
3. Z-AFM
4. Map Select
5. Ground
6. CKPS
7. TPS
8. Left Injector
9. Right Injector
10. Speed



## COIL HARNESS (Z-FI TC ONLY)

1. Main
2. TC Adjust Switch
3. Shift Switch
4. Coils



# 3>REMOVE

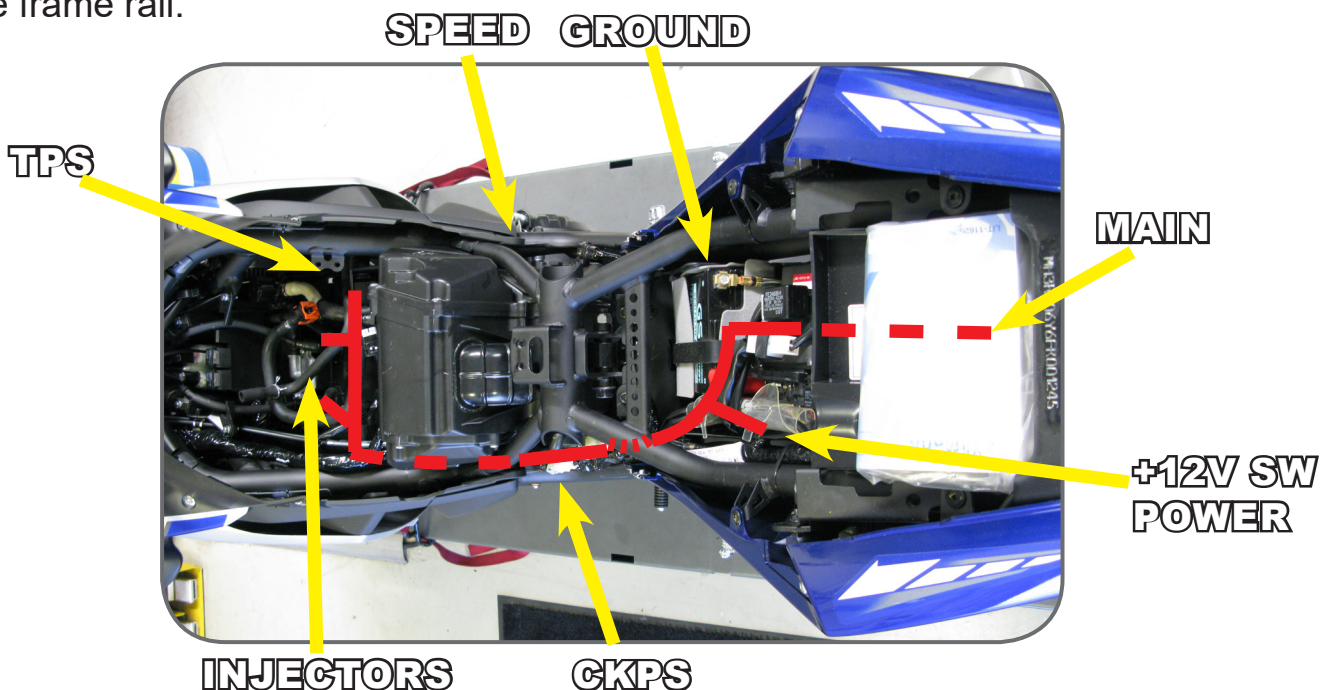
1. Rider seat
2. Passenger Seat
3. Right and left black side fairing
4. Fuel Tank
5. Fuel Tank Cover

# 4>SECURE

1. Mount the Bazzaz control unit using the supplied Velcro in the tail section of the bike.



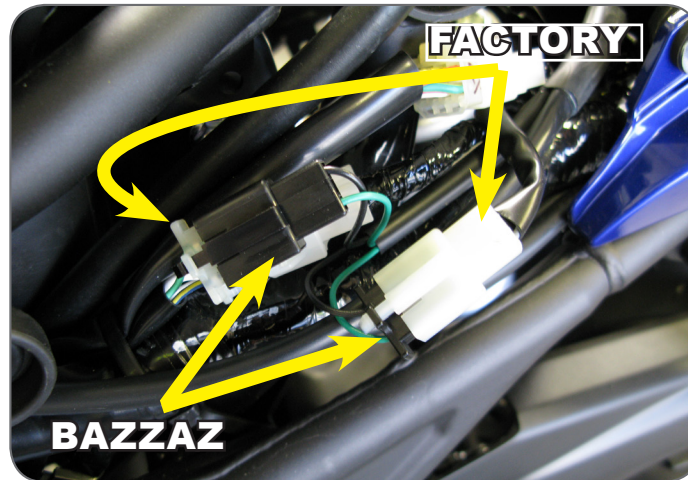
2. Route the Bazzaz harness beneath the plastic tray and connect the Bazzaz fuel harness to the control unit. Begin to route the harness towards the motor along the side frame rail.



# 5>CONNECT

## 5.1

1. Locate the factory CKPS connector, which can be found on the left hand side of the bike secured to the main harness.
2. Disconnect the factory CKPS connectors, and install the Bazzaz CKPS connectors inline.



## 5.2

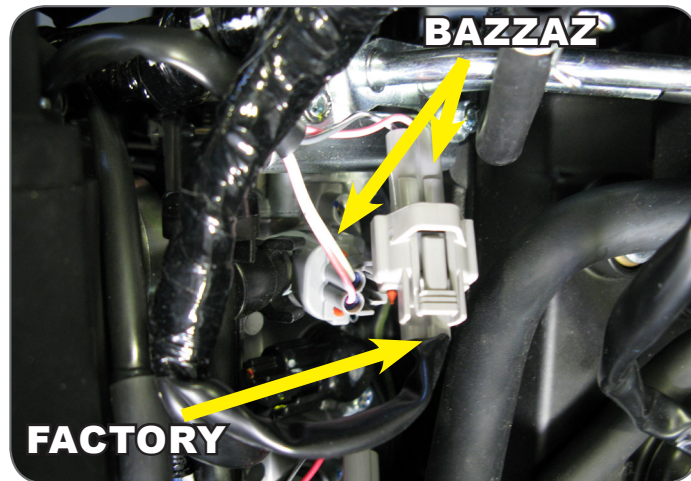
1. Route the Bazzaz speed sensor connector beneath the factory airbox and to the right hand side of the bike. The factory speed sensor connector can be found to the right of the of the starter motor.
2. Separate the factory brown wire and use the supplied scotchlok to crimp onto the factory brown wire.
3. Connect the Bazzaz speed amplifier and connect the Bazzaz speed connector to the speed amplifier.



# 5>CONNECT (CONT.)

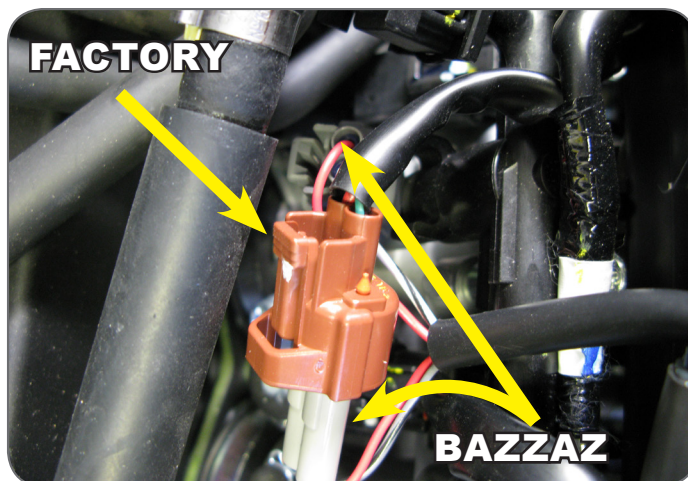
## 5.3

1. Continue to route the harness along the left hand side of the bike towards the front of the airbox.
2. Locate the factory grey injector connector.
3. Disconnect the factory injector connector, and install the Bazzaz left injector connector inline.



## 5.4

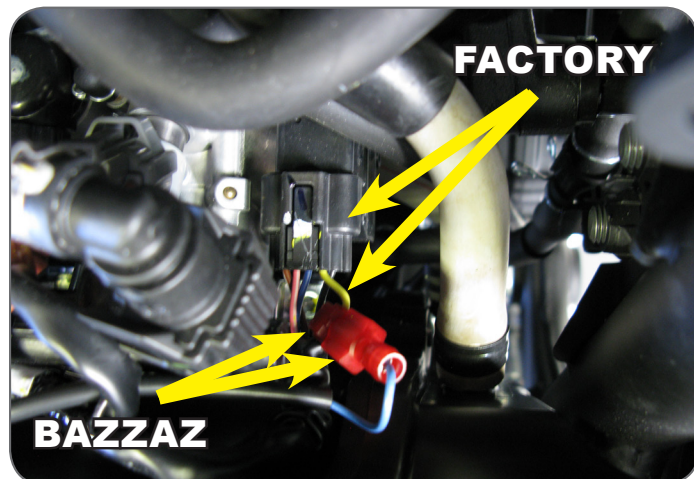
1. Locate the factory brown injector connector.
2. Disconnect the factory injector connector, and install the Bazzaz right injector connector inline.



# 5>CONNECT (CONT.)

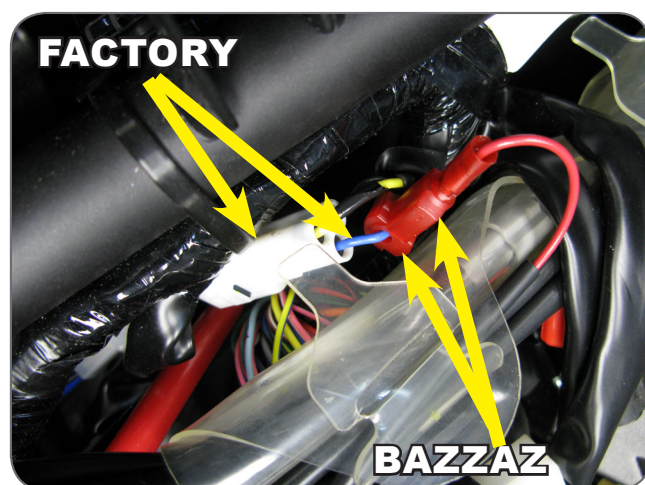
## 5.5

1. Locate the factory TPS connector, which can be found on the far right hand side of the throttle bodies.
2. Separate the factory yellow wire, and use the supplied scotchlok to crimp onto the factory yellow wire.
3. Connect the Bazzaz TPS connector.



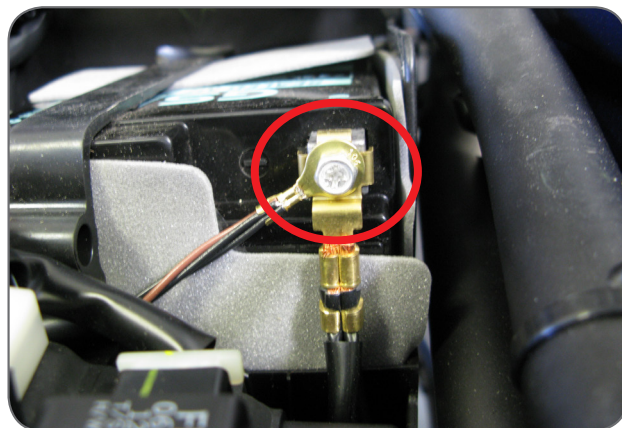
## 5.6

1. Locate the Bazzaz 12v SW power connector, and begin to route it towards the white factory three pin connector, which can be found on the left hand side of the bike.
2. Separate the factory blue wire, and use the supplied scotchlok to crimp onto the blue wire.
3. Connect the Bazzaz 12v SW power connector.



## 5.7

1. Locate the Bazzaz ground lug, and connect it to the negative battery terminal.



**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>SECURE**

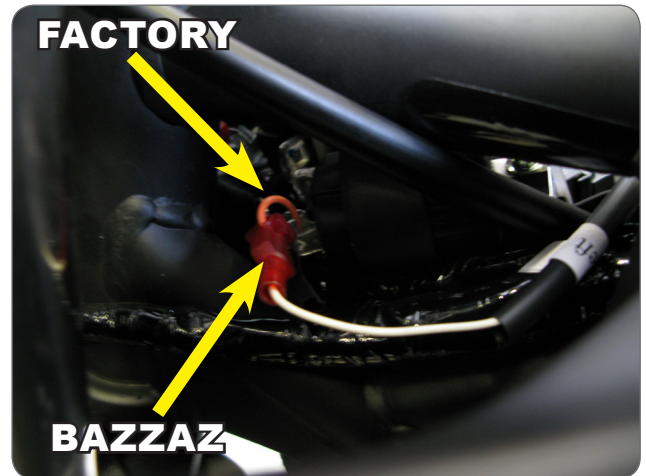


# 6>CONNECT

## 6.1

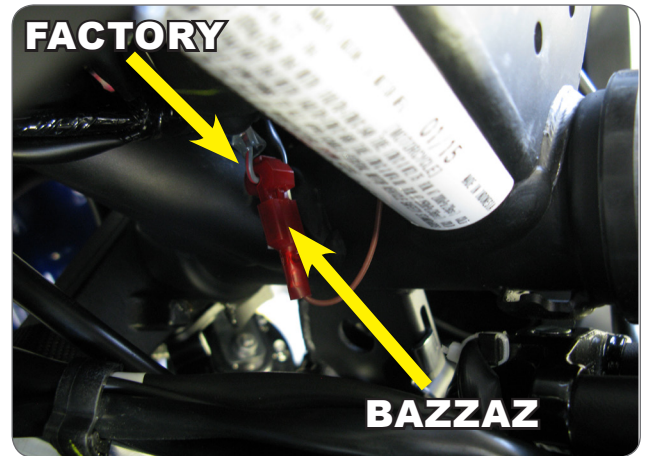
1. Connect the Bazzaz coil harness to the Bazzaz control unit, and begin to route the harness along the Bazzaz fuel harness towards the front of the bike.
2. Locate the factory left coil, and separate the factory orange wire.
3. Use the supplied scotchlok to crimp onto the orange wire, and connect the Bazzaz left coil connector.

(FOR USE WITH Z-FI TC ONLY!)



## 6.2

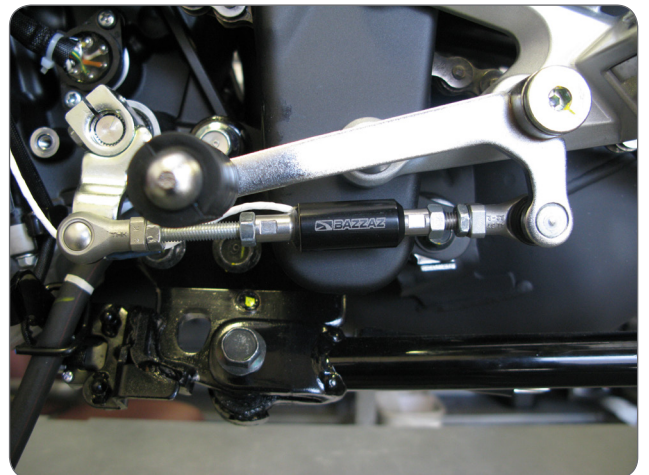
1. Locate the factory right coil connector.
2. Separate the factory red/grey wire, and use the supplied scotchlok to crimp onto the red/grey wire.
3. Connect the Bazzaz right coil connector.



# 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 begin to install the Bazzaz shift switch using one of the supplied allen stud bolts and tighten.
3. Next begin to install the Bazzaz shift rod. The shift rod may need to be cut to get your original shift pedal height
4. Ensure to retighten all lock nuts on the shift linkage



# 8>O2 ELIMINATION

1. Locate the factory O2 sensor connectors, which can be found by tracing the lead from the O2 sensor to just above the front sprocket cover.
2. Disconnect the sensor from the factory harness, and secure it away from any hot or moving parts.

# 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-



## 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)

# 11>REINSTALL

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

# 12>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).

# 13>NEXT LEVEL

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

## MAP SELECT/ TC ADJUST SWITCH

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**

## MAP SELECT SWITCH

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



**79.95**

## Z AFM SELF MAPPER

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**

## TC ACTIVE LIGHT

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



**79.95**

# NOTES:





**THE SMARTEST PERFORMANCE TUNING TECHNOLOGY**



Proudly made in the  
**United States**

**F748 | T748**