

# INSTALLATION INSTRUCTIONS



# UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

**ZFi** FUEL MANAGEMENT

**ZFi TC** FUEL + QS + TRACTION CONTROL

**HONDA CB500F | CB500X | CBR500R 2013  
F392 | T392**

## 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).

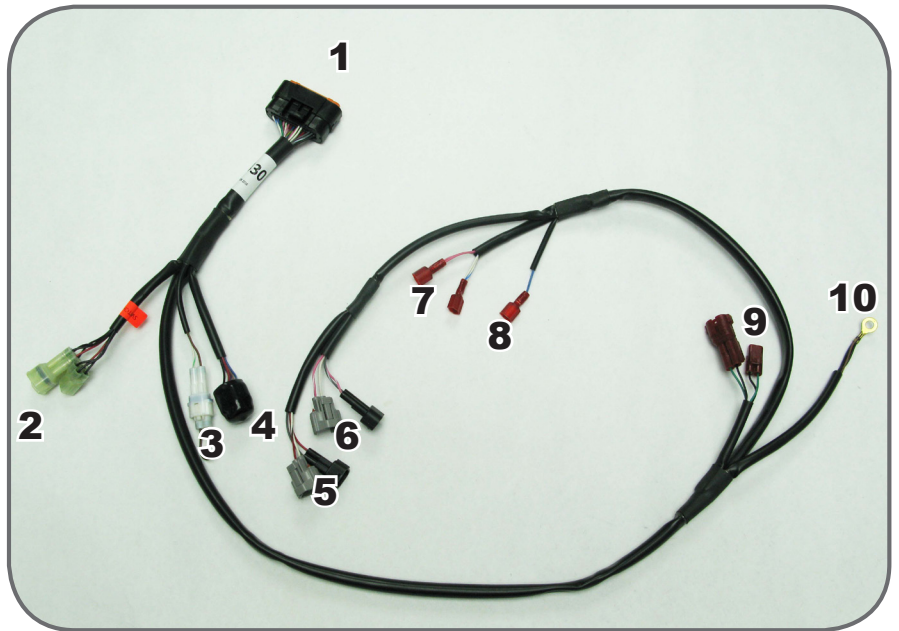
# 2>IDENTIFY

## INCLUDED PARTS

1. Z-Fi TC control unit
2. Fuel harness
3. Coil harness (For Z-Fi TC only)
4. Shift Switch and mounting hardware (For Z-FiTC only)
5. USB cable
6. Scotchlok (3)
7. Zip ties
8. Velcro

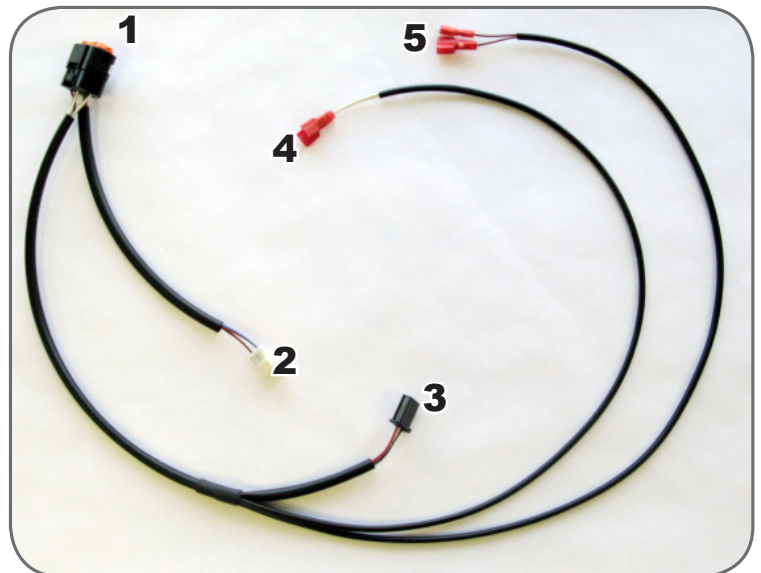
## FUEL HARNESS

1. Main
2. Power
3. Map Select
4. ZAFM
5. Injector 2
6. Injector 1
7. Speed
8. TPS
9. CKPS
10. Ground



## COIL HARNESS

1. Main
2. Left Coil (1)
3. Shift Switch
4. TC Adjust Switch
5. Right Coil
- Connectors (2)

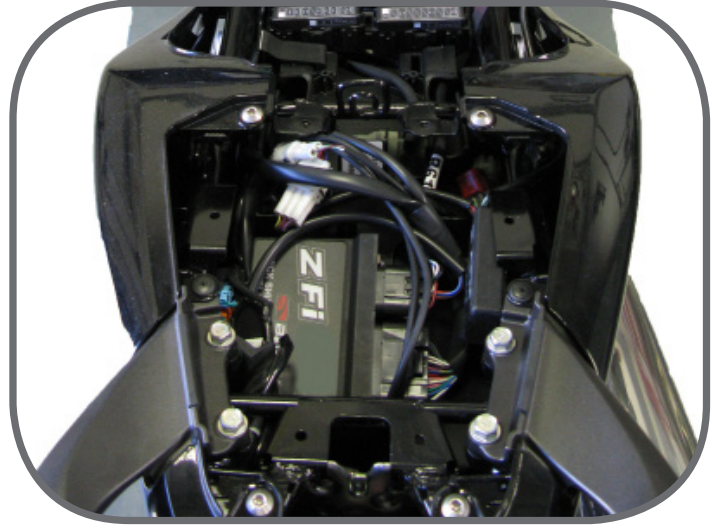


# 3>REMOVE

1. Seat
2. Fuel tank
3. Side panels

# 4>SECURE

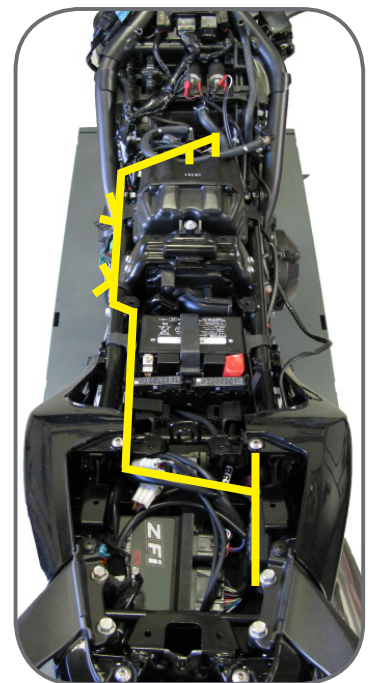
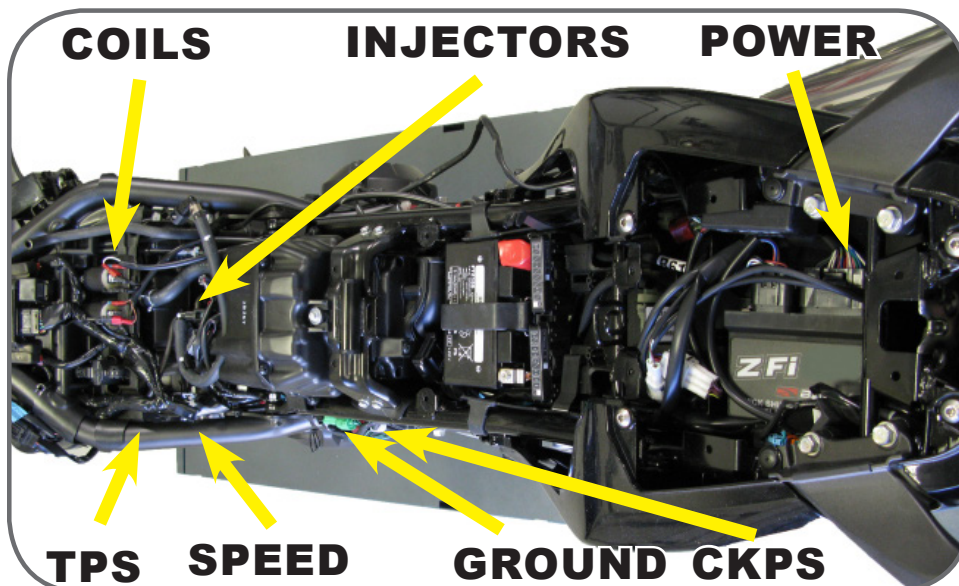
1. Place the Bazzaz control unit in the tail section of the motorcycle, using the supplied Velcro if necessary.



# 5>CONNECT

## 5.1

1. Connect the main connector of the Bazzaz fuel harness to the control unit.
2. Begin routing the fuel harness down the left side of the subframe.

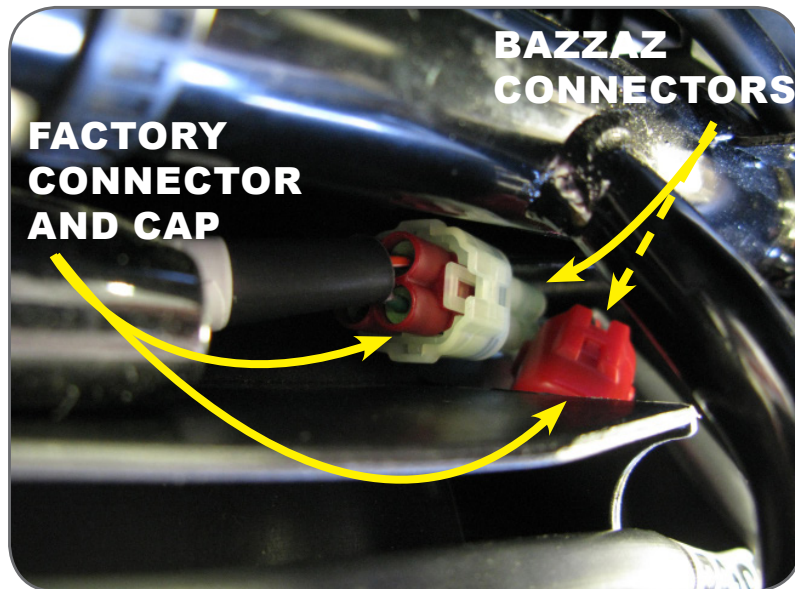




# 5>CONNECT (CONT.)

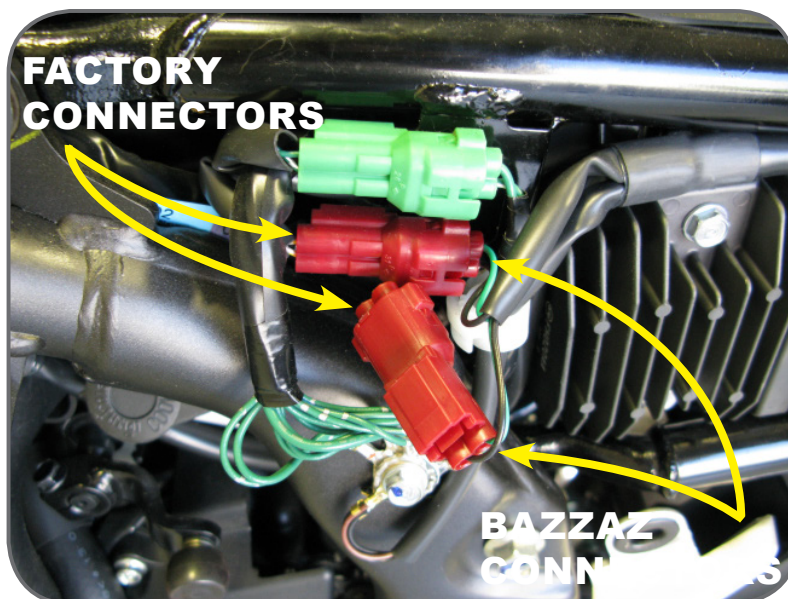
## 5.2

1. Locate the red factory diagnostic connector, found in the right side of the tail fairing.
2. Remove the cap of the diagnostic connector.
3. Connect the mating Bazzaz power connectors in-line with the factory connector and cap.



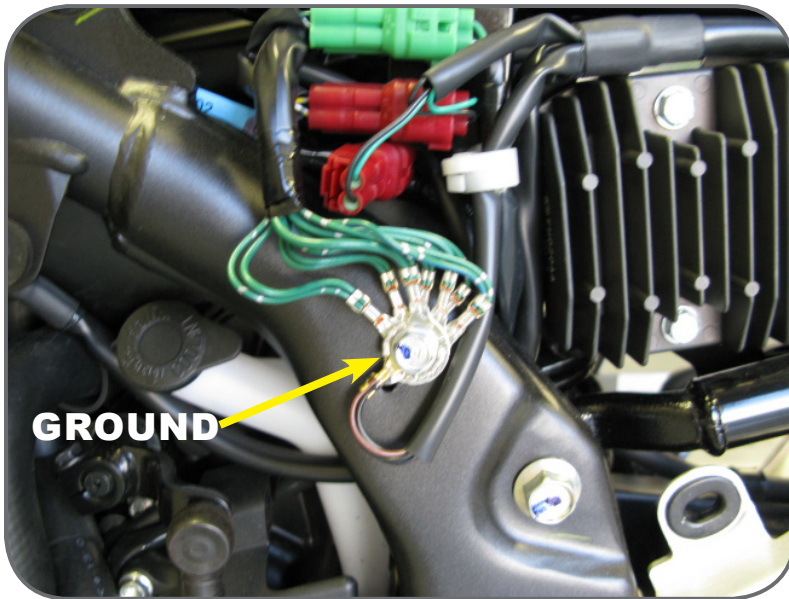
## 5.3

1. Continue routing the Bazzaz fuel harness to the outside of the motorcycle and over the top of the regulator/rectifier.
2. Disconnect the red factory Crank Position Sensor (CKPS) connectors.
3. Connect the mating Bazzaz CKPS connectors in-line with the factory connectors.



# 6>GROUND

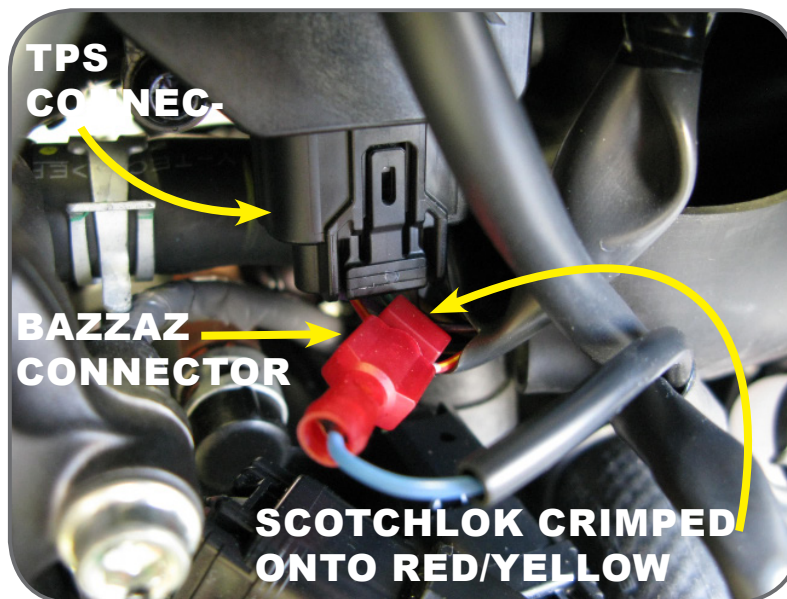
1. Secure the Bazzaz ground Lug with the factory ground lugs.



# 7>CONNECT

## 7.1

1. Route the remainder of the harness between the frame and coolant reservoir, just next to the throttle bodies.
2. Locate the Throttle Position Sensor (TPS) and connector.
3. Trim the sheathing back on the TPS connector to expose and gain access to the wires.
4. Crimp a supplied Scotchlok onto the exposed red/yellow wire.
5. Insert the Bazzaz TPS connector into the Scotchlok.

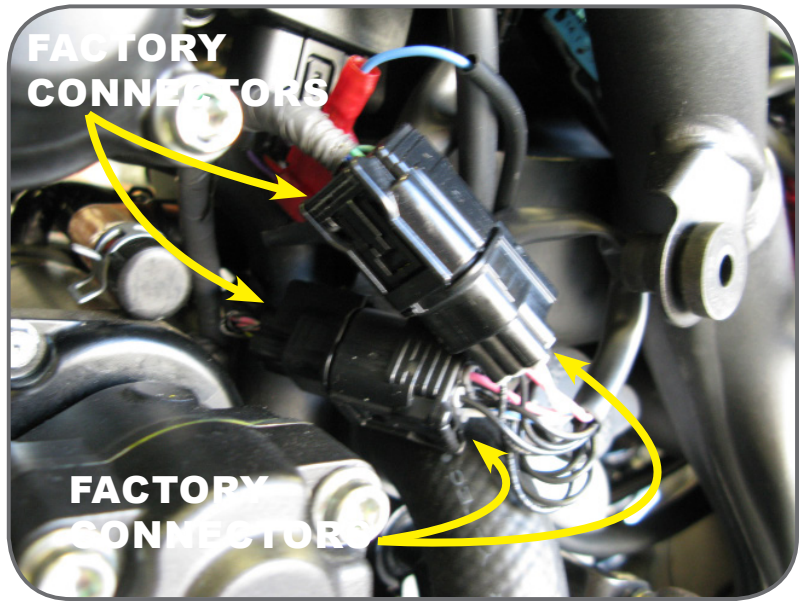




# 7>CONNECT (CONT.)

## 7.2

1. Locate the factory speed connector, found behind the radiator hose behind the starter motor.
2. Pull the connector out from behind the hose.
3. Begin to separate the Pink/Green wire and use the supplied scotchlok to crimp onto the Pink/Green wire.
4. Connect the Bazzaz speed connector.

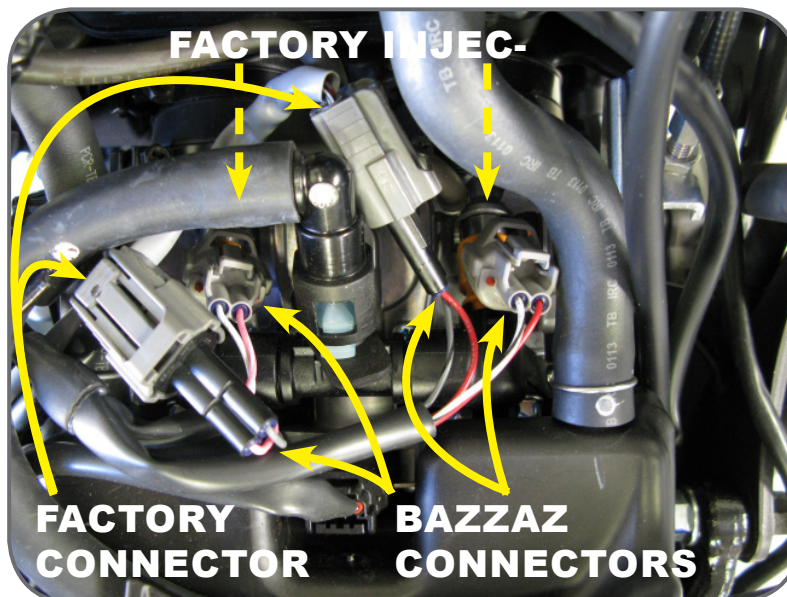


## 7.3

1. Within the same connector as step 7.2, separate the factory lite green wire and use the supplied scotchlok to crimp onto the lite green wire.
2. Connect the Bazzaz neutral connector.

## 7.4

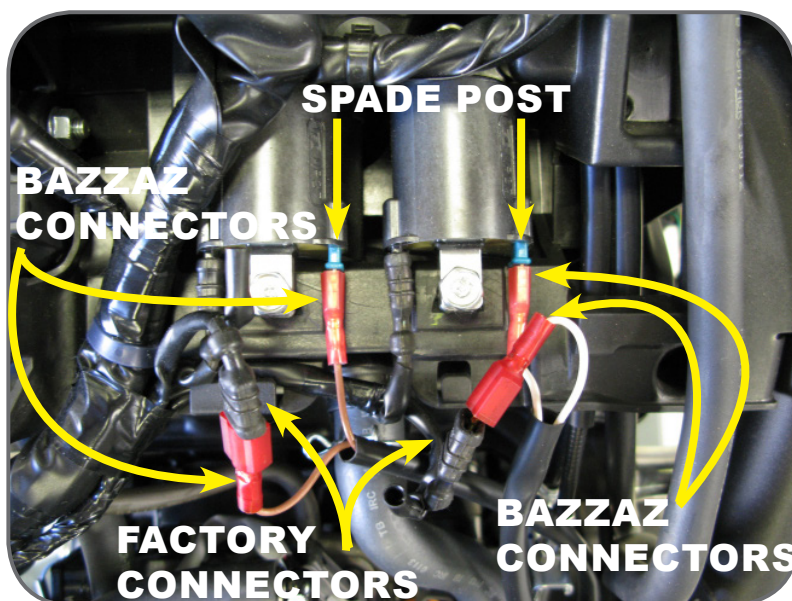
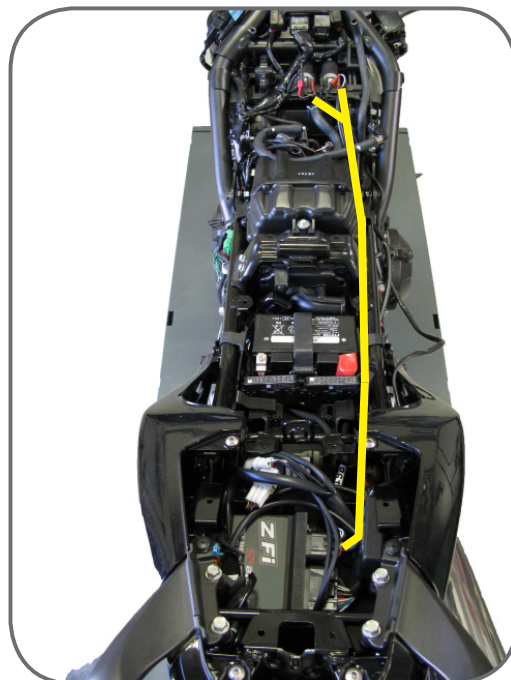
1. Route the last section of the Bazzaz fuel harness up to the top of the throttle bodies, where the injectors are located.
2. From left to right, disconnect the factory injector connectors from each injector.
3. Connect the Bazzaz injector connectors in-line with the factory connectors and injectors.



# 8>CONNECT

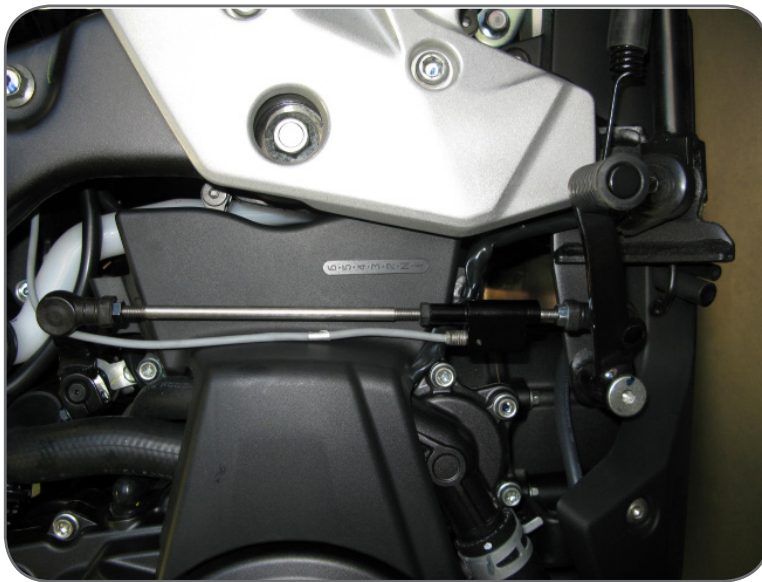
## 8.1

1. Connect the main connector of the Bazzaz coil harness to the control unit.
2. Route the coil harness along the right side of the frame, to the front of the motorcycle where the two coil packs are located.
3. Starting with the coil pack on the right, disconnect the coil connector from the spade post that is on the right side of the coil pack (the spade post that the connector disconnects from has a green collar).
4. Connect the Bazzaz right coil connectors in-line with the factory coil connector and spade post.
5. Now with the coil pack on the left, disconnect the coil connector from the spade post that is on the right side of the coil pack (the spade post that the connector disconnects from has a green collar).
6. Connect the Bazzaz left coil connectors in-line with the factory coil connector and spade post.



# 9>QUICKSHIFT

1. Remove the factory shift rod from the motorcycle's shift linkage.
2. Install the supplied shift switch onto the lower linkage.
3. Install the supplied replacement shift rod between the upper linkage and shift switch.
4. Adjust the foot pedal to preferred height and secure components by tightening the 10mm nuts.
5. Route the Bazzaz shift switch connector to the mating connector of the Bazzaz coil harness and plug in-line.



# 10>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).**



# 11>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

# 11>CHECK (CONT.)



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)

# 12>REINSTALL

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

# 13>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).

# 14>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**

## ZAFM 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:

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**THE SMARTEST PERFORMANCE TUNING TECHNOLOGY**



Proudly made in the  
**United States**

**F392 | T392**