

INSTALLATION INSTRUCTIONS



UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

ZFI TC FUEL + QS + TRACTION CONTROL

**YAMAHA YZF R6 | 2017-2020 [US VERSION]
T7411**

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.

2>IDENTIFY

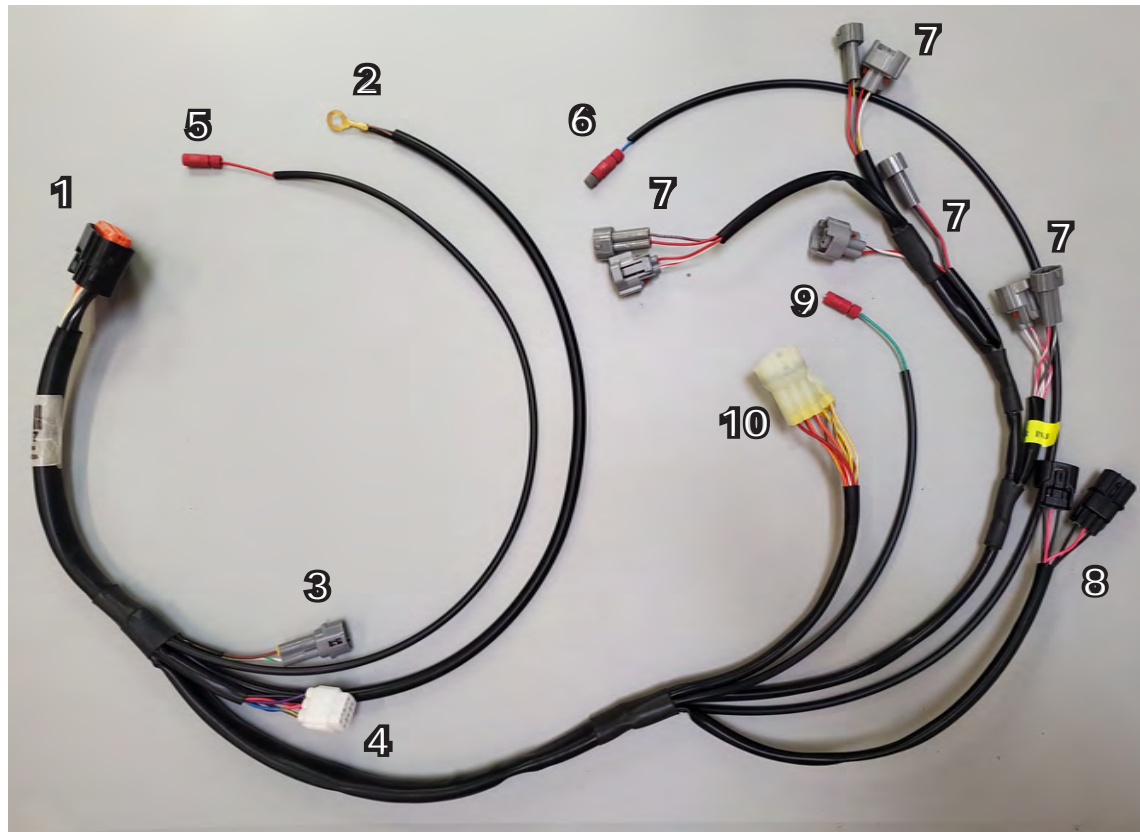
INCLUDED PARTS

1. Z-Fi TC control unit
2. Fuel harness
3. Coil harness
4. O2 Stabilizer
5. Shift Switch
6. Shift Rod
7. USB cable
8. Zip Ties
9. Swingarm stickers
10. Velcro
11. Download Bazzaz software from bazzaz.net/index.php/software-overview

**Please note Map 1 consists of YZF R6 Slip-on Map
Map 2 consists of YZF R6 Full System Map**

FUEL HARNESS

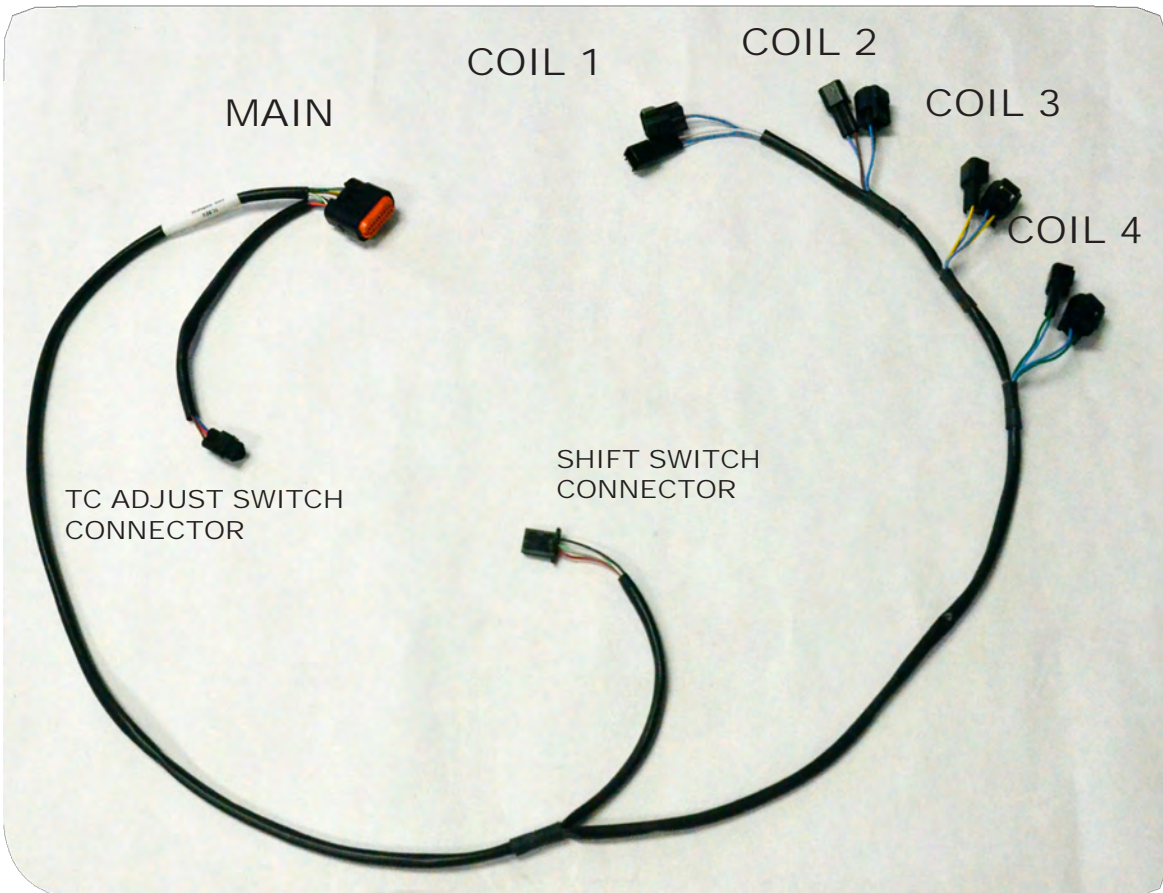
1. Main
2. Ground
3. Map Select
4. ZAFM
5. +12v Switch Power
6. TPS-Throttle
Position Sensor
7. Lower Injectors
8. GPS-Gear Position
Sensor
9. CKPS-Crankcase
Position Sensor
10. Upper Injectors



2>IDENTIFY

INCLUDED PARTS

COIL HARNESS



POSI-TAP

Step 1:

un-screw grey 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



3>REMOVE

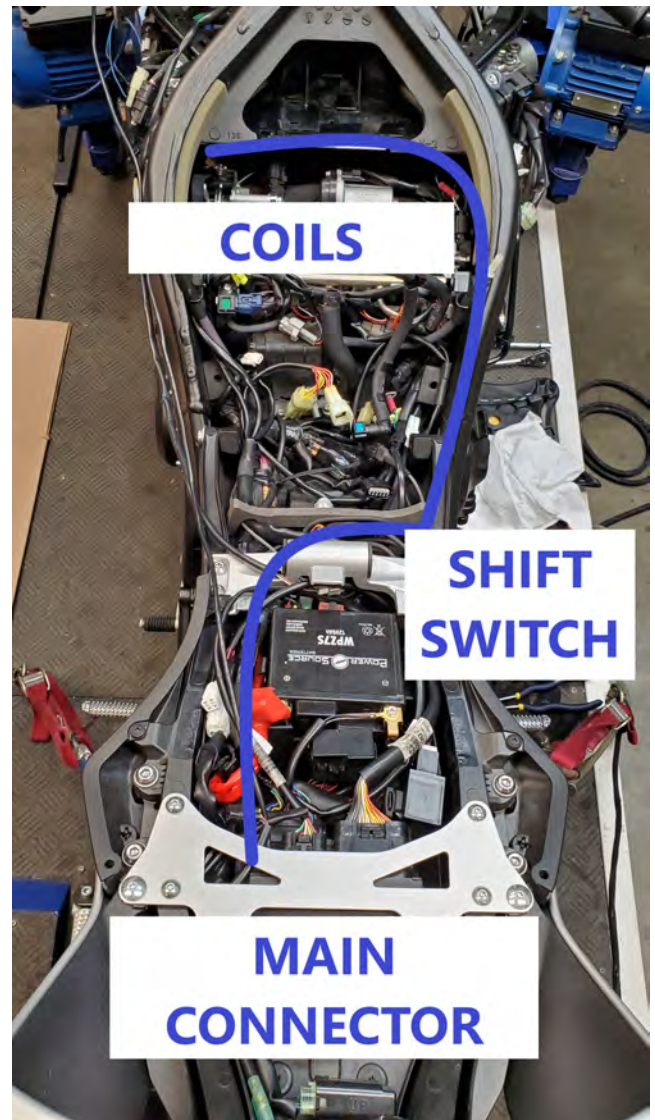
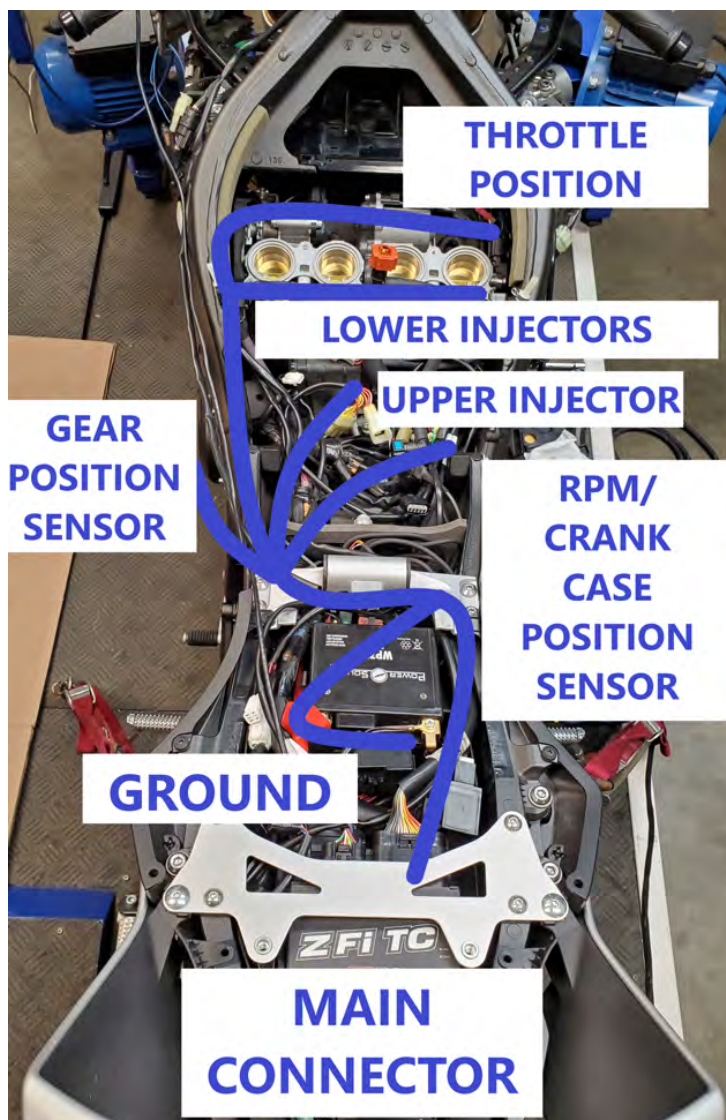
1. Rider and passenger seat
2. Fuel tank
3. Air box
4. Left Fairing

4>CONNECT

4.1

1. Connect the Bazzaz fuel harness to the control unit and begin routing the harness as shown in the picture.
2. The servo motor can be un-installed to free space and weight. This will cause an FI light to come on which can be eliminated by using a servo eliminator. You can purchase the servo eliminator separately here : Part No. E742

<https://bazzaz.net/product/exup-exhaust-valve-eliminator/>

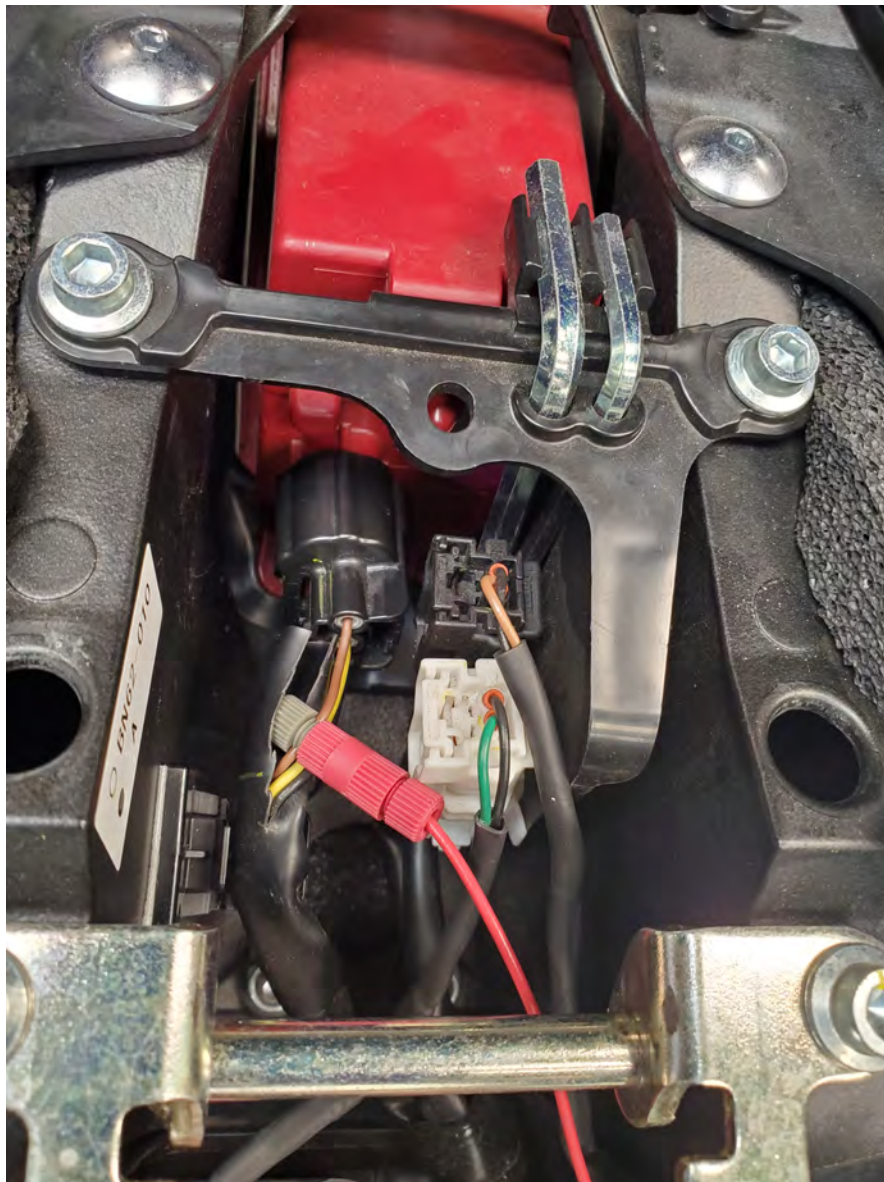


4>ROUTE (CONT.)

1. Route the remaining connections towards the injectors.
2. Let the fuel harness hang in position.
3. Start routing the coil harness as shown in the picture and then continue towards the coils from the right hand side of the bike.

5>CONNECT

1. Locate the factory black 3-pin tail light connector, located on the tail section.
2. Locate the factory +12V SW wire which is a **Brown** wire.
3. Use the provided Posi-tap to connect to the wire.
4. Refer to instructions on how to use the Posi-taps.



6>GROUND

1. Connect the ground lug to 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.



7>CONNECT

7.1

1. Locate the factory 2-pin CKPS connector which has a **Light Grey** wire and a **Dark Grey** wire.
2. Use the provided Posi-tap to connect to the the **Dark Grey** wire.(Wire location #1)
3. Refer to instructions on how to use the Posi-taps.



7>CONNECT (CONT.)

7.2

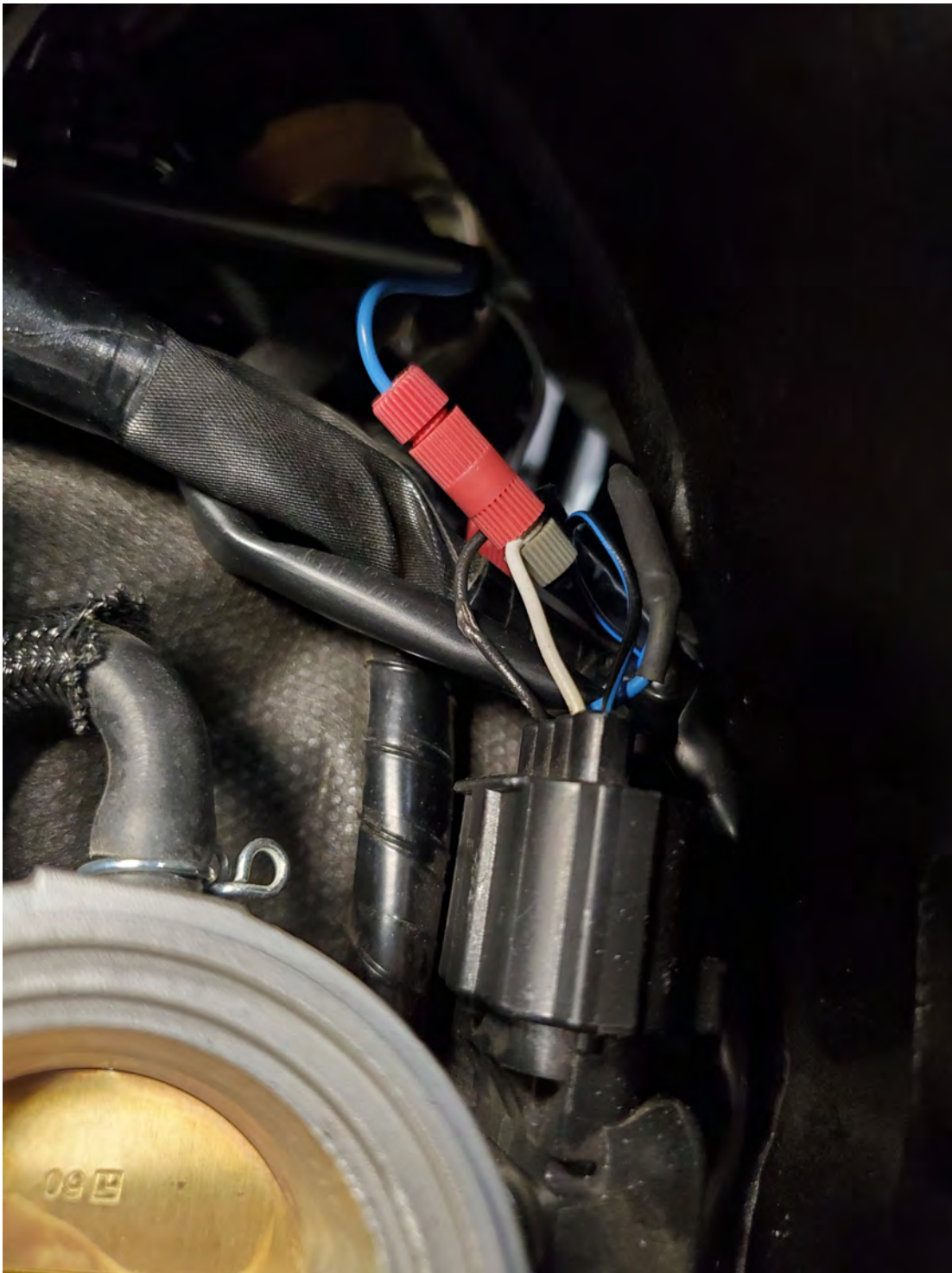
1. Locate the factory 3-Pin Gear Position Connector.
2. The connector is located right above the front sprocket cover.
3. Connect the Bazzaz connectors in-line with the factory connectors.



7>CONNECT (CONT.)

7.3

1. Locate the factory black four-pin TPS connector, located on the right side of the throttle body, which has a **BLACK, BLUE, WHITE** and **BLUE/BLACK** wire.
2. Locate the factory TPS signal wire which is the **WHITE** wire.(Wire location #2)
3. Use the provided Posi-tap to connect to the wire.
4. Refer to instructions on how to use the Posi-taps.



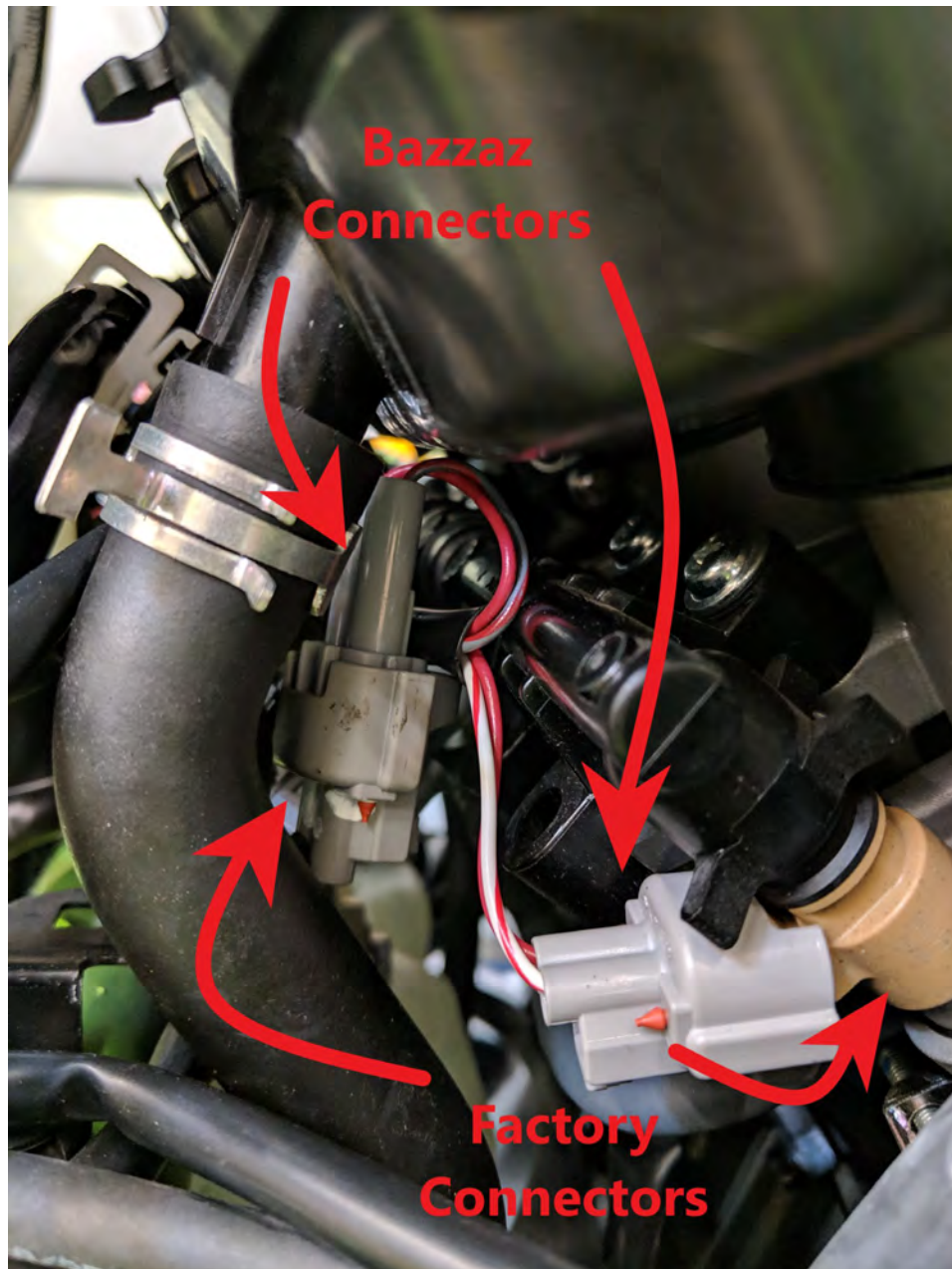
8>INJECTOR

8.1

LOWER INJECTORS

1. Locate the factory grey two-pin injector connector found on the throttle body, under the Air Box.
2. Disconnect the factory injector connector from the injector.
3. Install the Bazzaz injector connectors in-line with the factory connectors.

PLEASE NOTE THE HARNESS LENGTH IS DESIGNED ACCORDING TO THE DISTANCE OF THE 4 INJECTORS. MAKE SURE THE ORDER IS FOLLOWED ACCORDING TO THEIR LENGTH.

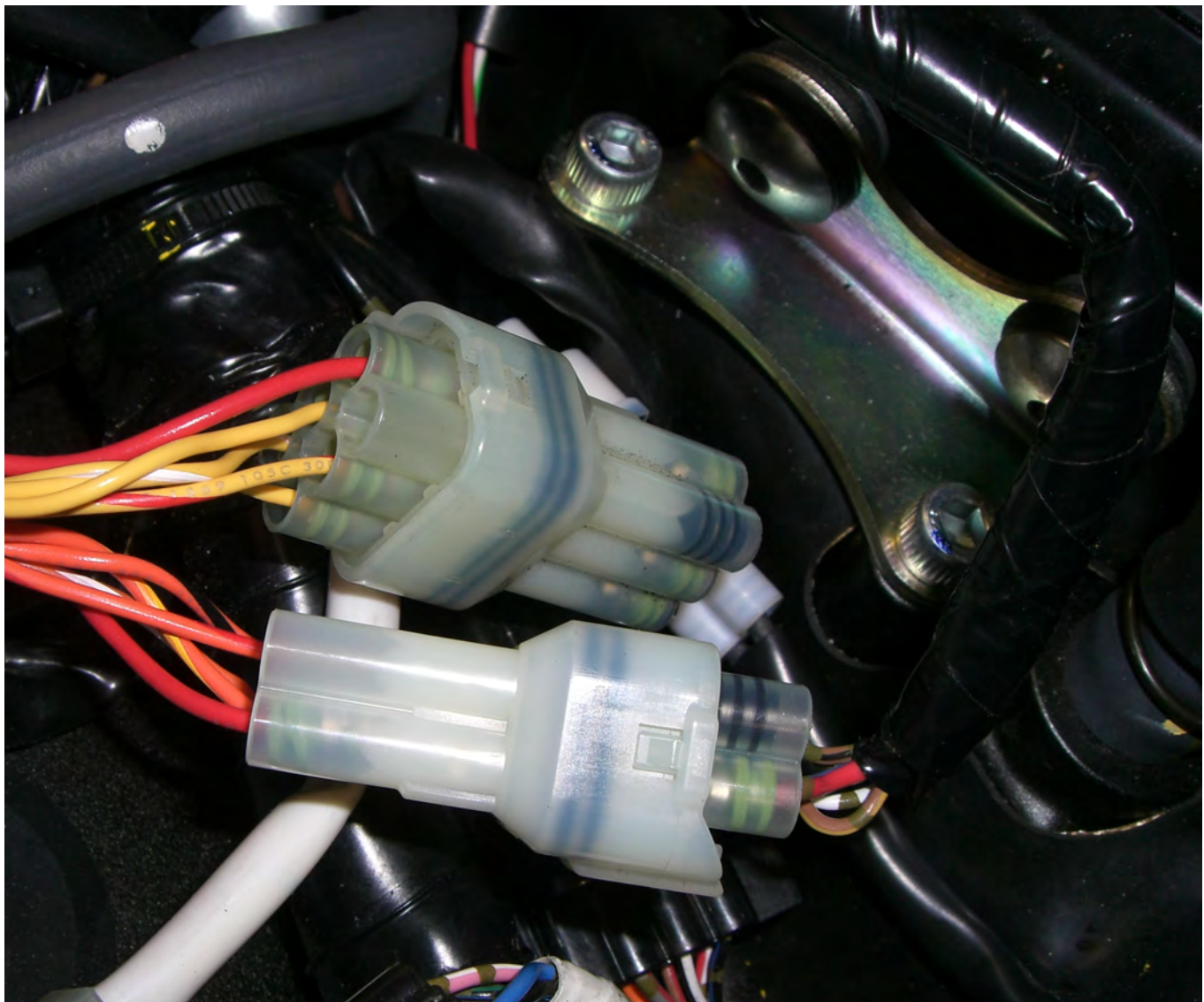


8>INJECTOR

8.1

UPPER INJECTORS

1. Locate the factory six-pin upper injector connector found on the upper body of the Air Box.
2. Disconnect the factory injector connector from the injector.
3. Install the Bazzaz injector connectors in-line with the factory connectors.



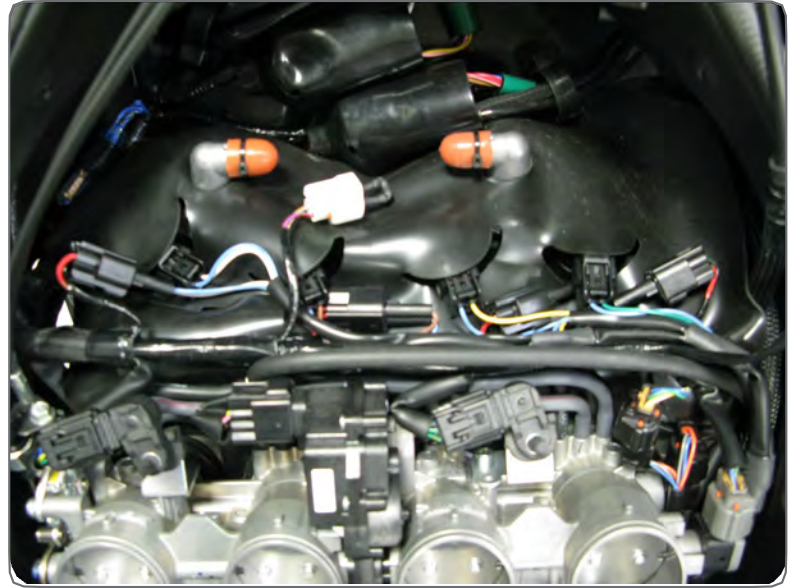
9>O2 STABILIZER

1. Find the stock O2 sensor, unplug the connector from the stock OEM harness. The sensor can be removed completely and install a bung plug on them or stow it away neatly on the bike using zip ties.
2. The stock OEM harness would be a 4-pin connector with **RED/BLUE, PINK/BLACK, GREY/GREEN & BLACK/BLUE** wires.
3. Connect the O2 stabilizer to the OEM harness



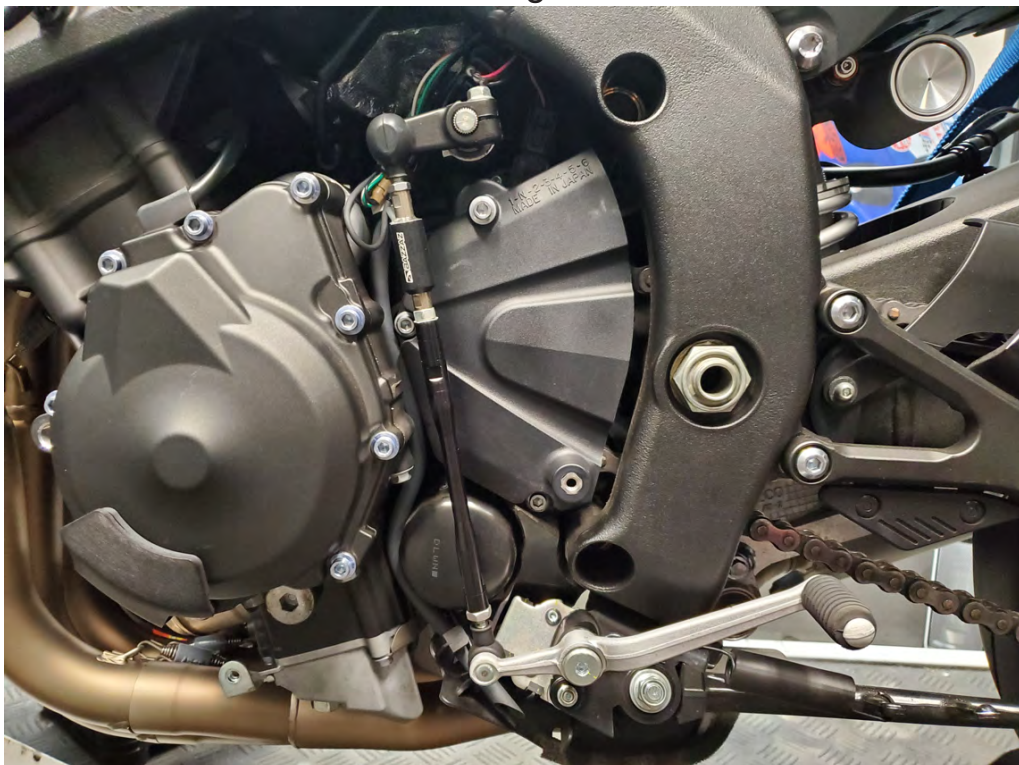
10 > COILS

1. From right to left, disconnect the factory coil connectors from each stick coil
2. .Connect the Bazzaz coil connectors in-line between each factory stick coil and connector.



11 > QUICKSHIFT

1. Measure and note your shift pedal height so 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. Use the grooves on the rod to cut and adjust the length of the rod.
4. Next begin to install the Bazzaz shift rod.
5. Ensure to retighten all lock nuts on the shift linkage



12>CHECK

1. In order to check that the system is installed correctly, download the Bazzaz Z-Fi Mapper software at 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.
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13>REINSTALL

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

14>USE

MAPS

The Bazzaz controller is capable of storing two maps.

Map 1 consists of YZF R6 Slip-on Map

Map 2 consists of YZF R6 Full System Map

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).



MAP 1



MAP 2

15>NEXT LEVEL

**Accessories purchased separately.

MAP SELECT/ TC ADJUST SWITCH

Switch maps on the fly with this handlebar-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 handlebar-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



THE SMARTEST PERFORMANCE TUNING TECHNOLOGY



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