INSTALLATION INSTRUCTIONS

BAZZAZ

UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

Z-Fi TC

FUEL + QUICKSHIFT + TRACTION CONTROL

KTM RC8R TRACK READY
T544S, T544R

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

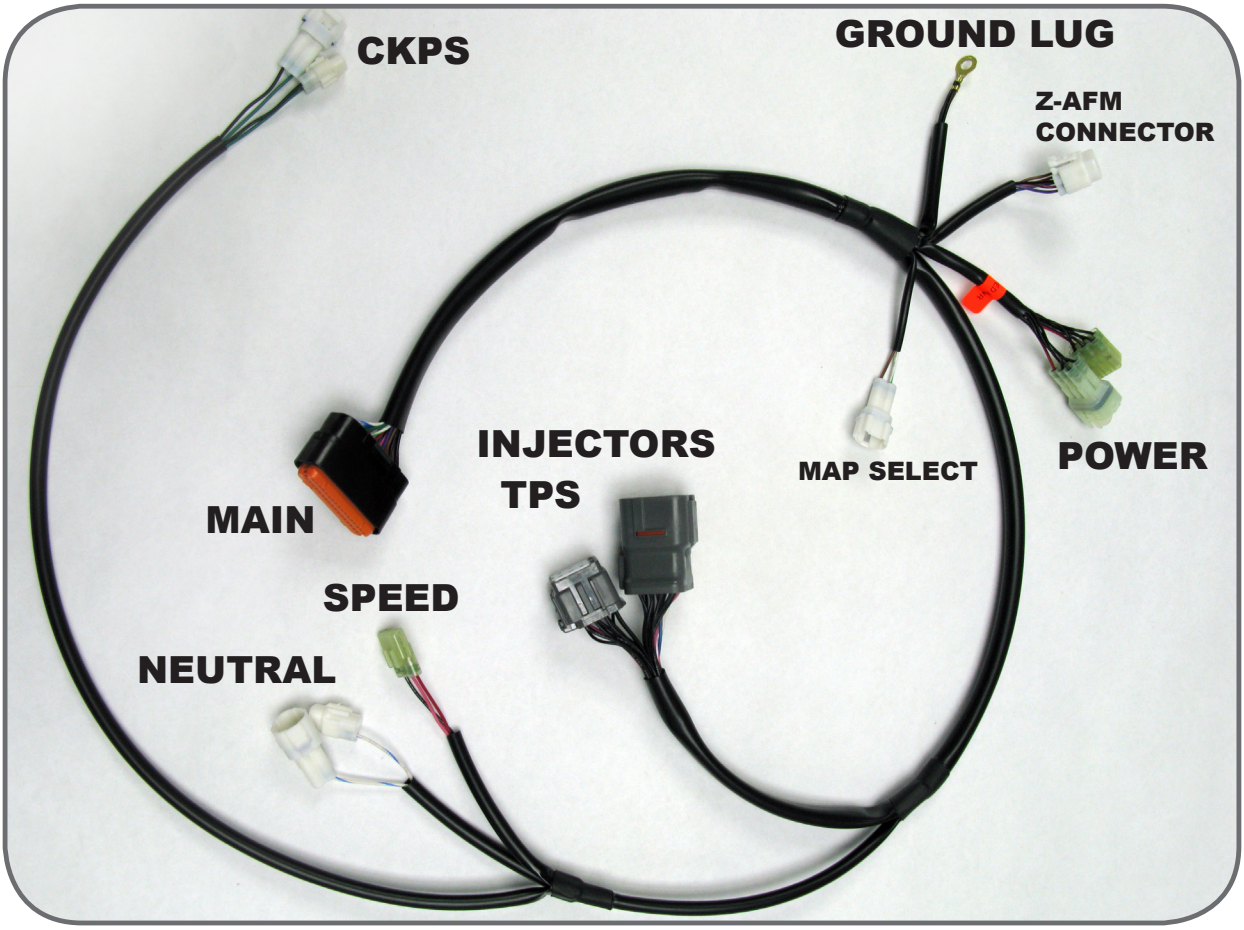
- Factory support is available in the US at 909-597-8300.
- For fastest support outside of the US, find your local importer at bazzaz.net.

2>IDENTIFY

INCLUDED PARTS

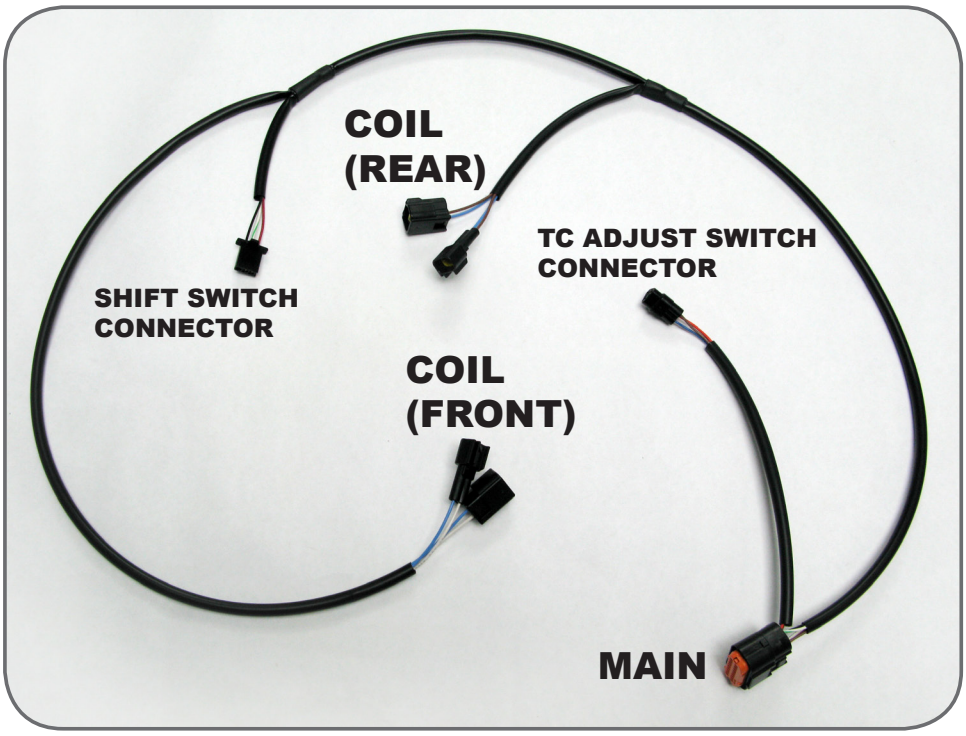
1. Z-Fi TC control unit
2. Fuel harness
3. Coil harness
4. Shift switch
5. USB cable
6. Speed sensor/Bracket assembly
7. Zip ties
8. Velcro

FUEL HARNESS



2>IDENTIFY (CONT.)

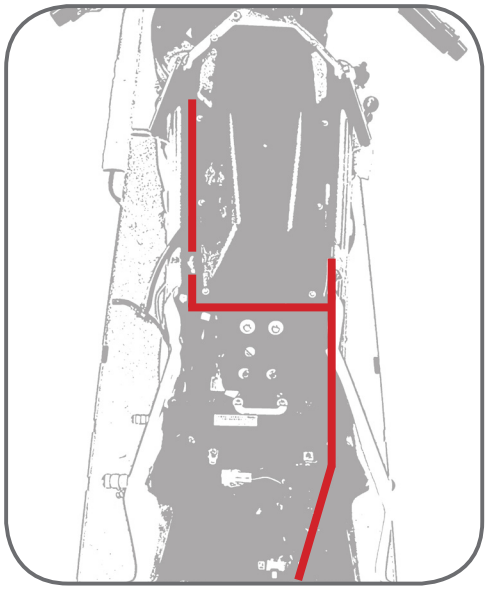
COIL HARNESS



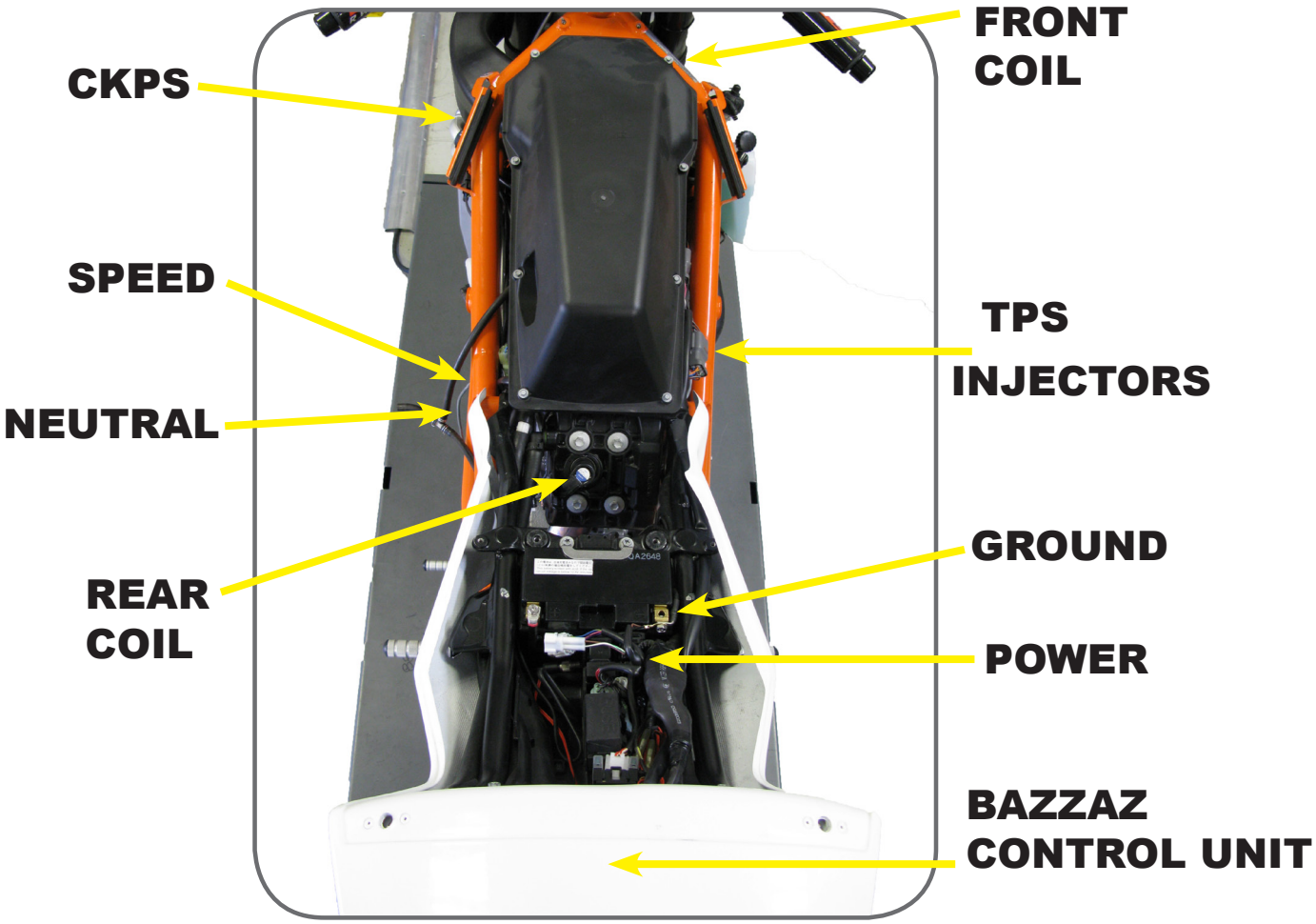
3>REMOVE

1. Rider seat
2. Tail section
3. Tank
4. Side fairings
5. Air ducts

4>ROUTING



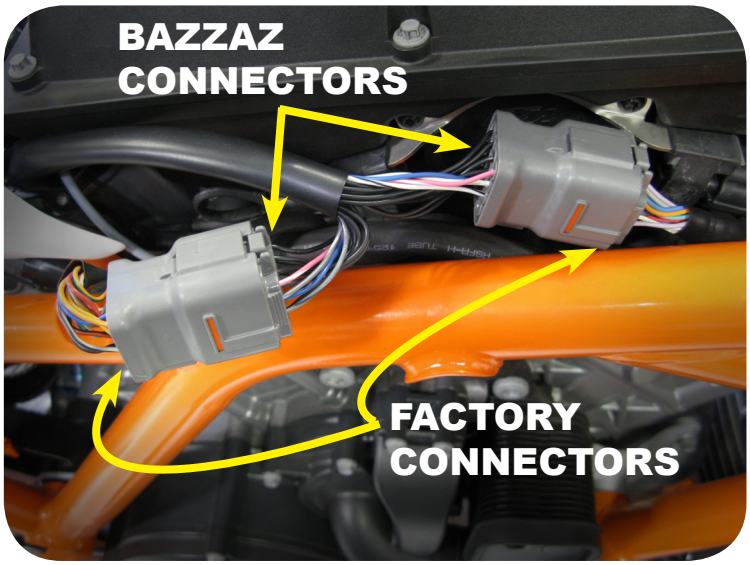
1. Lay the main connector of the Bazzaz fuel harness in the tail section of the bike.
2. Begin routing the fuel harness down the right side of the bike, following along with the factory harness routing.



5>CONNECT

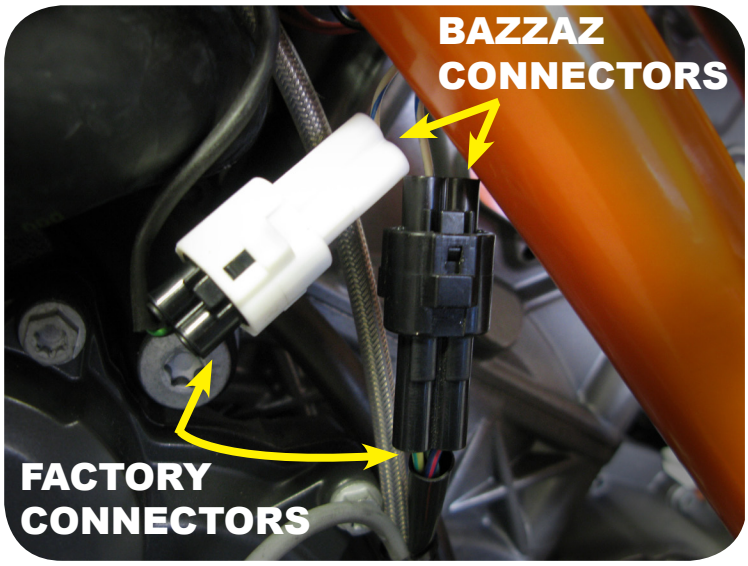
5.1

1. Locate the factory, gray, 16-pin connector found on the right side of airbox.
2. Disconnect the 16-pin connectors.
3. Connect the Bazzaz injector/TPS connectors in-line with the factory connectors.



5.2

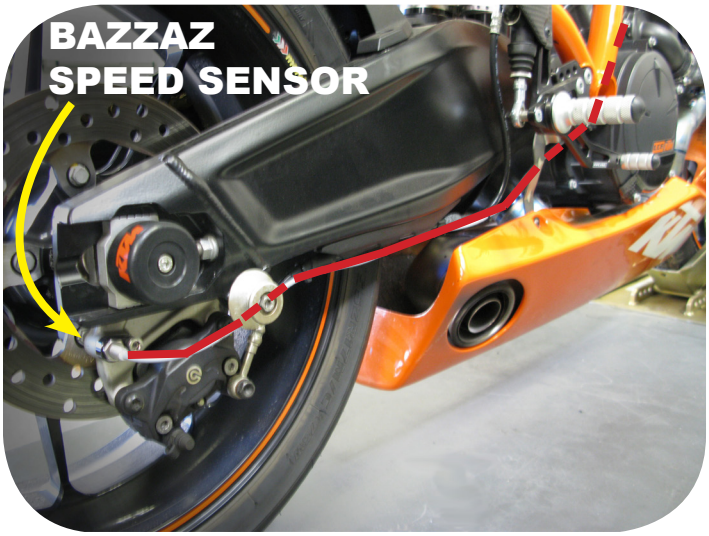
1. Route the remaining Bazzaz fuel harness to the left side of the bike, behind the rear of the airbox.
2. Locate the factory, 3-pin, black, neutral sensor connectors.
3. Disconnect the factory neutral sensor connectors.
4. Connect the Bazzaz neutral connectors in-line with the factory connectors.

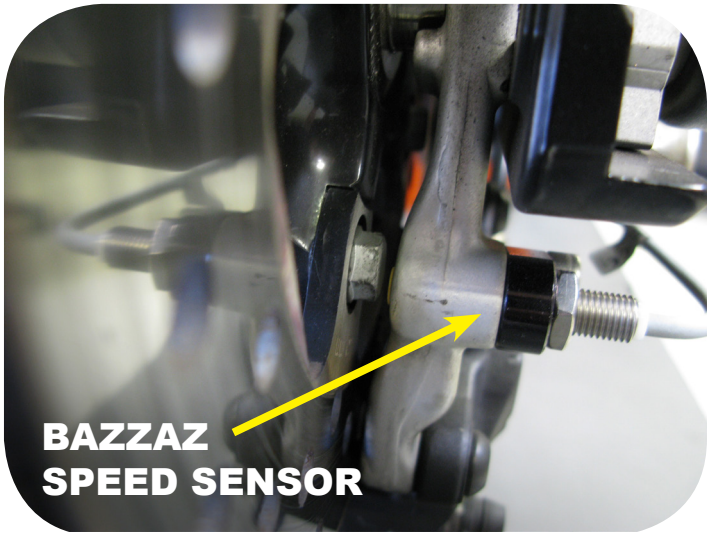


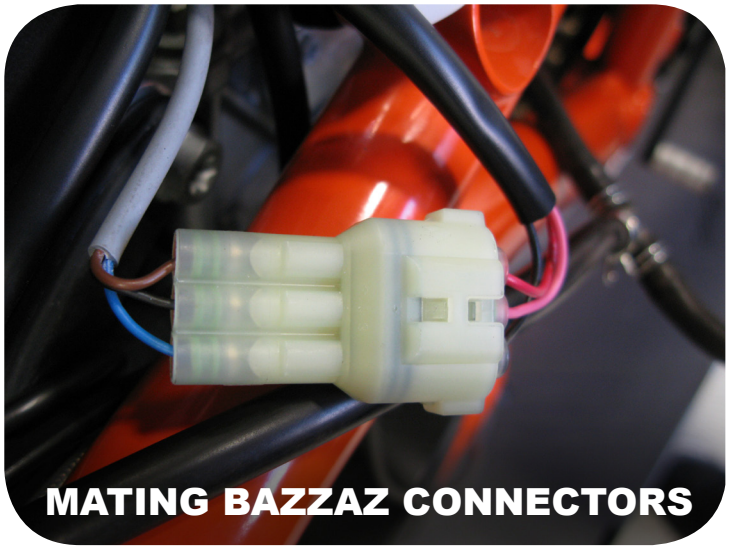
5>CONNECT (CONT.)

5.3

1. Install the supplied Bazzaz speed sensor onto the rear brake caliper by inserting the assembly into the pre-drilled opening of the caliper mounting bracket.
2. Secure the assembly with the supplied 6mm bolt using a 5mm Allen tool.
3. Ensure the sensor is not rubbing or hitting the factory brake rotor bolts.
4. Route the Bazzaz speed sensor cable along the rear brake line, behind the right rear set and up along the frame. Continue routing behind the airbox to the mating speed connector on the Bazzaz harness near the factory neutral sensor.
5. Secure the cable to the brake line with the supplied cable ties.
6. Connect the Bazzaz speed sensor connector to the mating speed connector on the Bazzaz fuel harness.



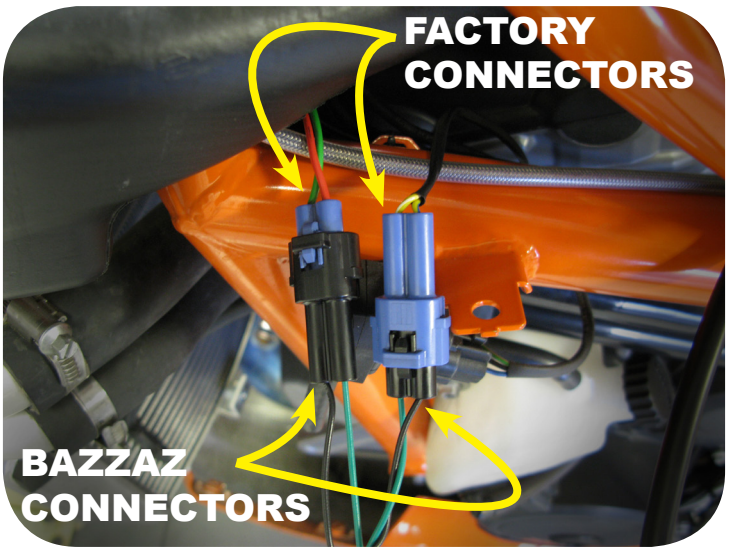




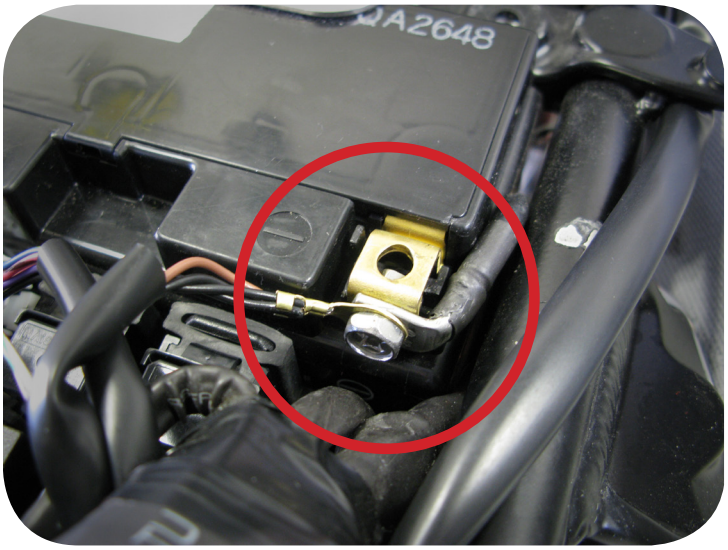
5>CONNECT (CONT.)

5.4

1. Route the Bazzaz Crank Position Sensor (CKPS) connectors towards the front of the bike, along the left side.
2. Locate the factory, blue, 2-pin CKPS connectors.
3. Disconnect the factory CKPS connectors.
4. Connect the Bazzaz CKPS connectors in-line with the factory connectors.



6>GROUND

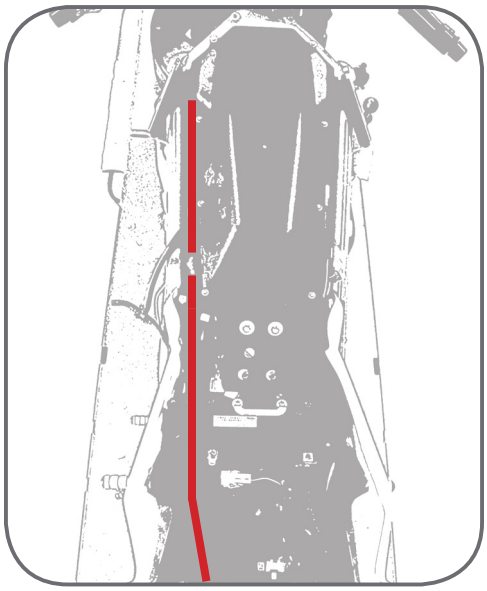


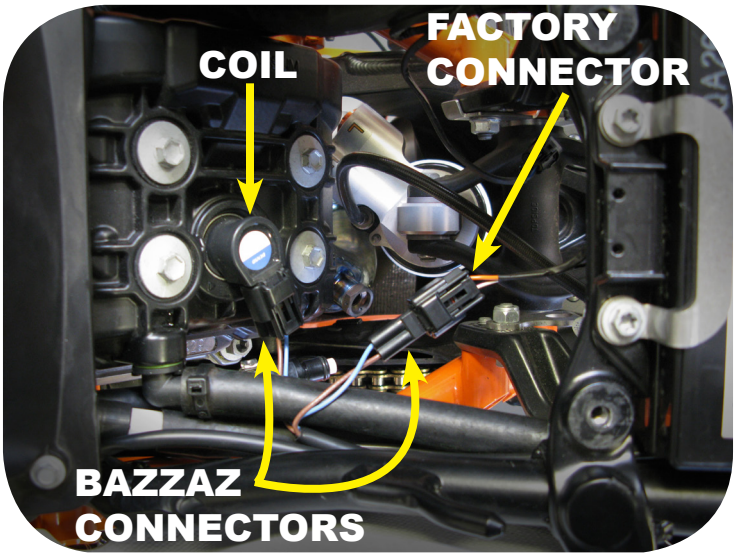
1. Locate the negative battery terminal.
2. Install the Bazzaz ground lug onto the factory negative battery terminal, making sure to retighten the factory battery bolt when complete.

7>CONNECT COIL HARNESS

7.1

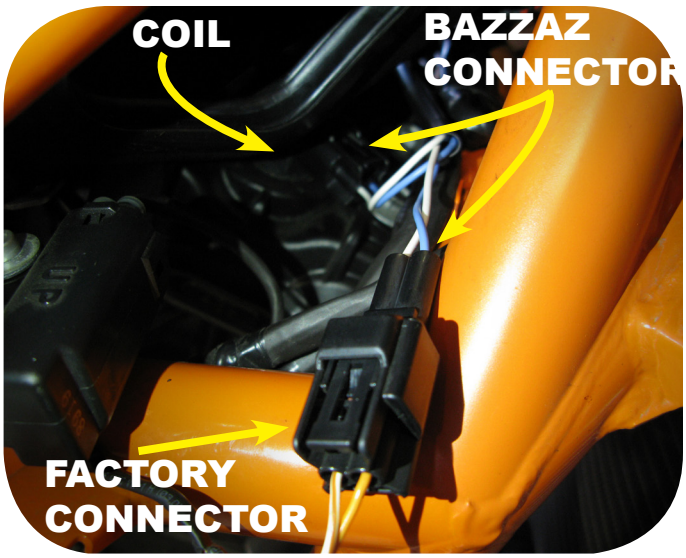
1. Lay the main connector of the Bazzaz coil harness in the tail section of the bike.
2. Route the Bazzaz coil harness along the left side of the bike, towards the front and rear cylinders.
3. Locate the factory rear cylinder stick coil.
4. Disconnect the coil connector from the stick coil.
5. Connect the Bazzaz rear coil connectors in-line with the factory stick coil and connector.





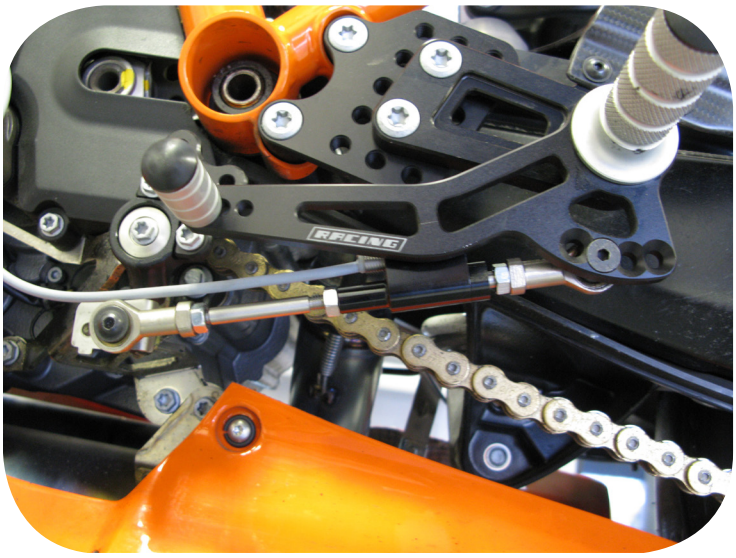
7.2

1. Locate the factory front cylinder stick coil.
2. Disconnect the coil connector from the stick coil.
3. Connect the Bazzaz front coil connectors in-line with the factory coil and connector.



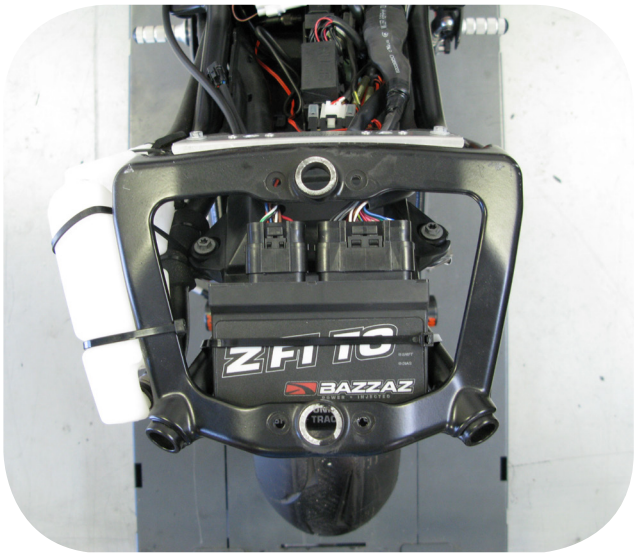
8>QUICKSHIFT

1. Begin the installation of the shift switch by removing the factory shift rod and switch.
2. Install the Bazzaz shift switch on the rear shift linkage. The supplied shift rod may have to be cut shorter depending on your shift pedal height preference.
3. Once length is attained, install the Bazzaz shift rod by screwing it into place between the Bazzaz shift switch and the factory front shift linkage.
4. Secure components by tightening the 10mm nuts.
5. Route the shift switch sensor lead up to the mating, 3-pin, black connector on the Bazzaz coil harness and plug in-line.



9>SECURE

1. Secure the control unit to the subframe using a large supplied zip tie.
2. Connect the main connectors of the Bazzaz fuel and coil harnesses to the Bazzaz control unit.



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.
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

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

Z AFM SELF MAPPER

Purchased separately.

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

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

299.95

14>NEXT LEVEL (CONT.)

MAP SELECT/ TC ADJUST SWITCH

Purchased separately.

129.95

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.

TC ACTIVE LIGHT

Purchased separately.

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

79.95

BAZZAZ®

POWER • INJECTED

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

Proudly made in the
United States

T544S, T544R