

INSTALLATION INSTRUCTIONS



UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

ZFI FUEL MANAGEMENT

ZFI TC FUEL + QS + TRACTION CONTROL

**DUCATI HYPERMOTARD 821 | 2014-2015
F198 | T198**

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.

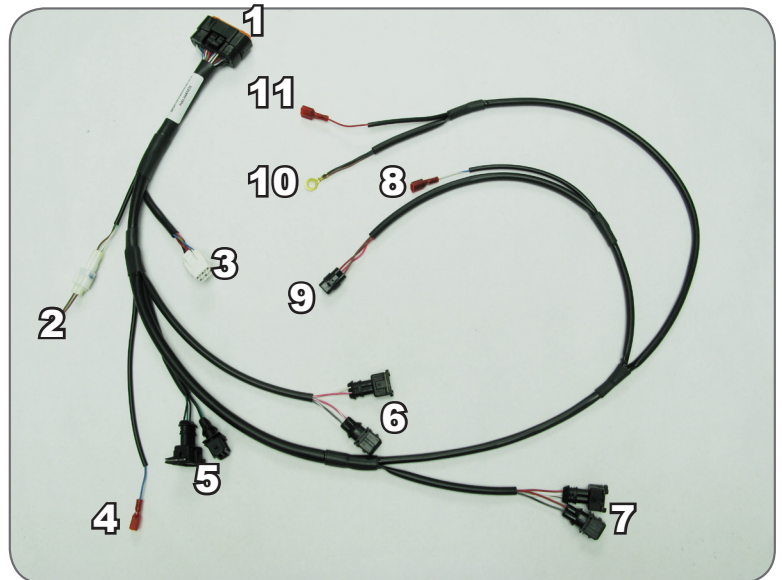
2>IDENTIFY

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. O2 stabilizer
6. Speed amplifier
7. USB cable
8. Swingarm stickers
9. Velcro
10. Download Bazzaz software from bazzaz.net/index.php/software-overview

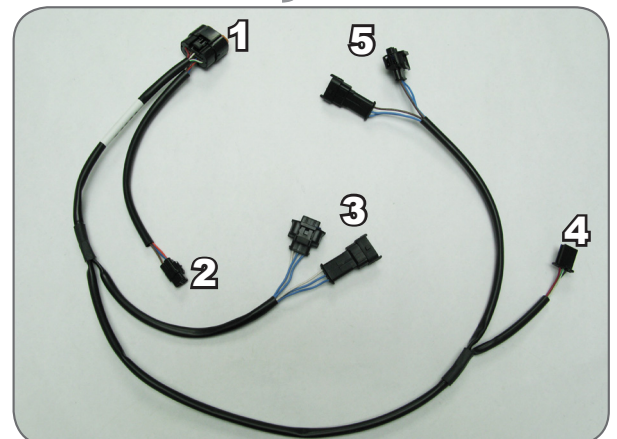
FUEL HARNESS

1. Main
2. Map Select
3. Z-AFM
4. TPS
5. CKPS
6. Front Injector
7. Rear Injector
8. Neutral
9. Speed
10. Ground
11. +12v SW Power



COIL HARNESS (Z-FI TC ONLY)

1. Main
2. TC Adjust Switch
3. Front Coil
4. Shift Switch
5. Rear Coil



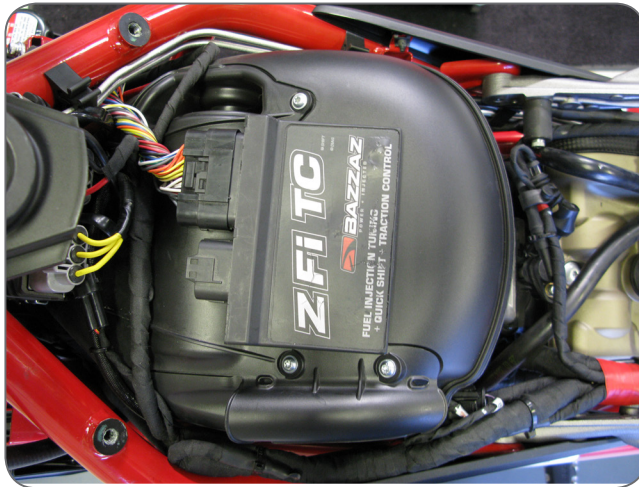
3>REMOVE

1. Rider seat
2. Left and right side fairing
3. Fuel tank

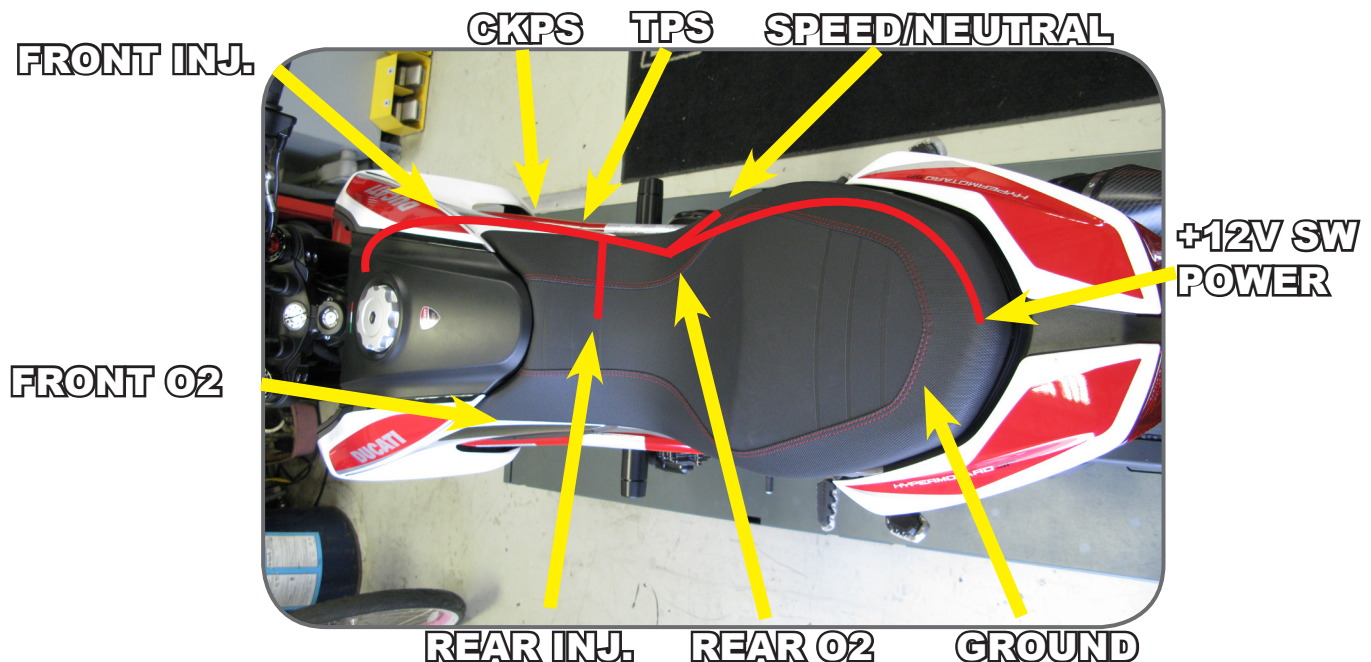
NOTE: DO NOT DISCONNECT THE FACTORY ECU DURING THE INSTALLATION

4>SECURE

1. The Bazzaz control unit will be installed and secured on top of the air box.



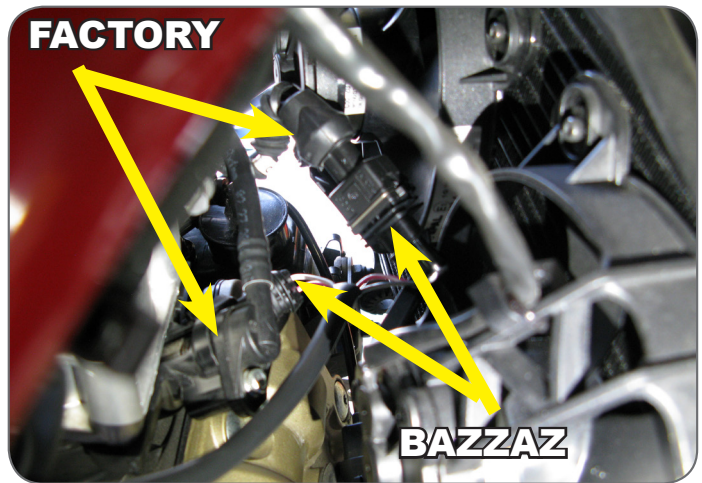
2. Connect the Bazzaz fuel harness and begin to route the harness towards the air box along the right hand side of the bike.
3. Route the Bazzaz ground/power leads and the speed/neutral/rear injector leads along the right hand side of the bike towards the rear of the bike.



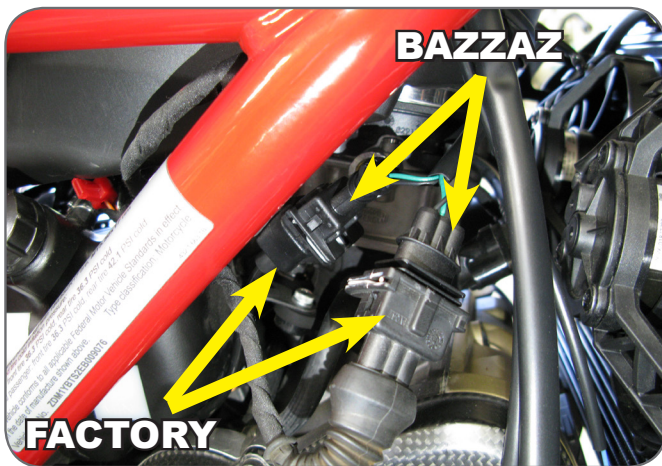
5>CONNECT

5.1

1. Locate the factory front injector, which can be found between the radiator and cylinder valve cover.
2. Disconnect the factory injector connector and install the Bazzaz injector connectors inline (To ease in the installation you may loosen the radiator to create more space).



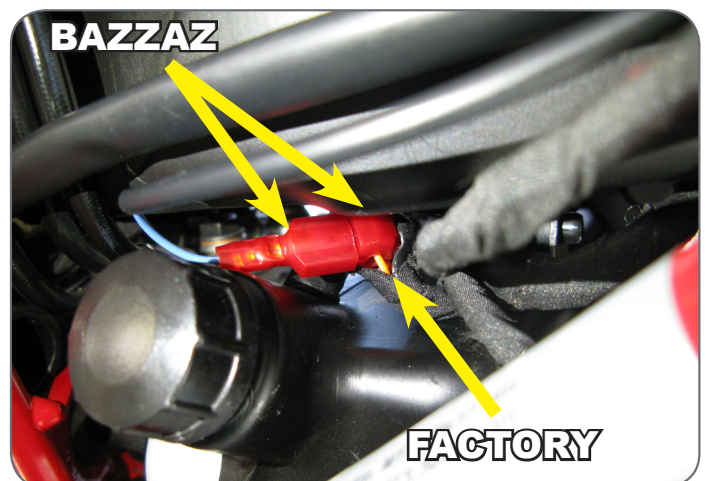
5.2



1. Locate the factory black three pin CKPS connector, which can be found on the right hand side of the bike attached to the inside of the frame.
2. Disconnect the factory CKPS connectors and install the Bazzaz CKPS connectors inline.

5.3

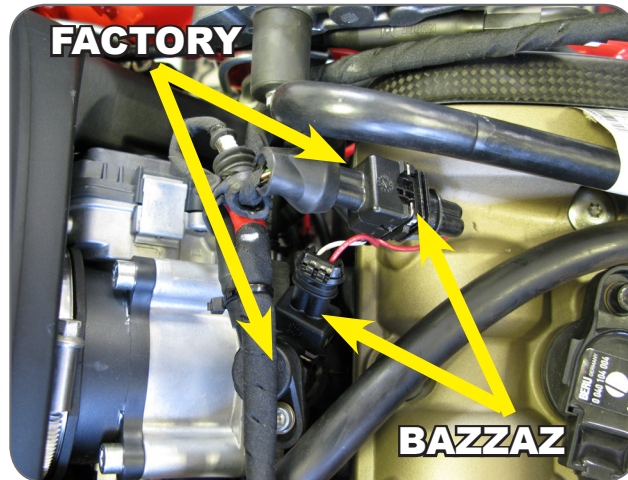
1. Locate the factory TPS lead, which can be found beneath the airbox on the right hand side of the bike.
2. Carefully make a small cut into the factory sheathing to expose the factory wires.
3. Separate the factory orange/brown wire.
4. Using the supplied scotchlok crimp onto the factory orange/brown and connect the Bazzaz TPS connector.



5>CONNECT (CONT.)

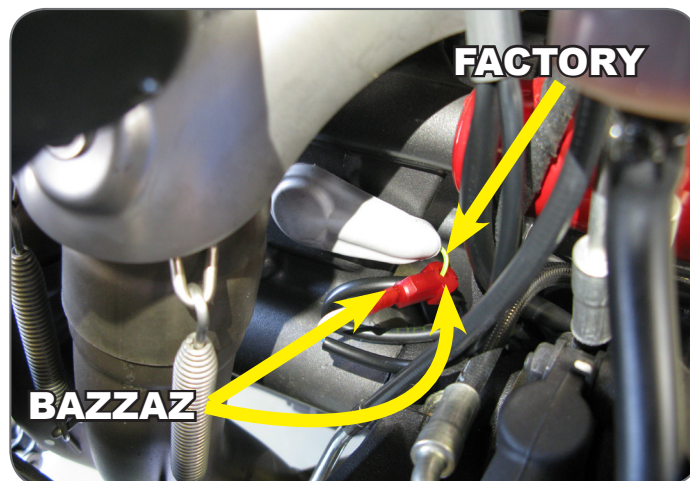
5.4

1. Locate the factory rear injector near the back of the airbox.
2. Disconnect the factory injector connector and install the Bazzaz injector connectors inline.



5.5

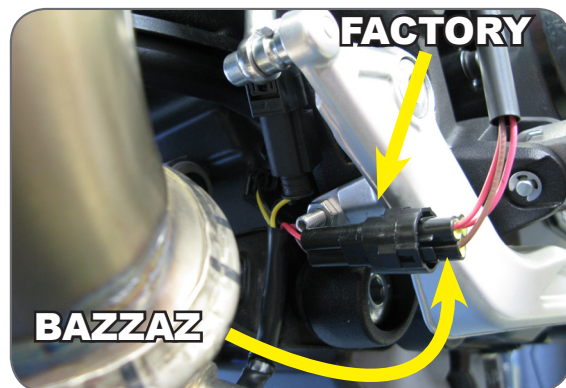
1. Locate the factory neutral sensor, which can be found on the back side of the motor on the right hand side near the exhaust.
2. Use the supplied scotchlok to crimp onto the yellow/green wire and connect the Bazzaz neutral connector.



5>CONNECT (CONT.)

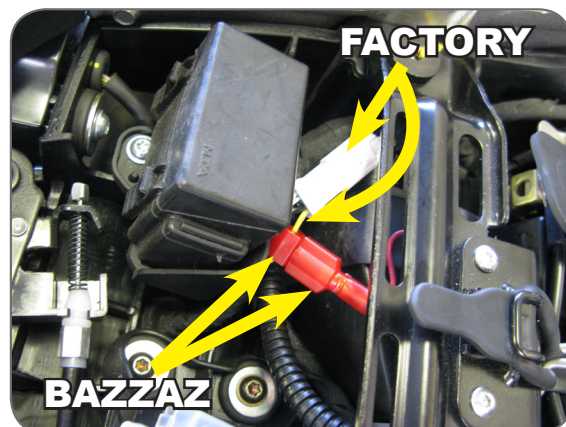
5.6

1. Next, locate the factory rear wheel speed sensor connectors, which can be found mounted to the frame on the right hand side behind and below the rear set.
2. Disconnect the factory rear wheel speed sensor connector and install the Bazzaz speed amplifier in line.
3. Connect the remaining lead to the Bazzaz harness.



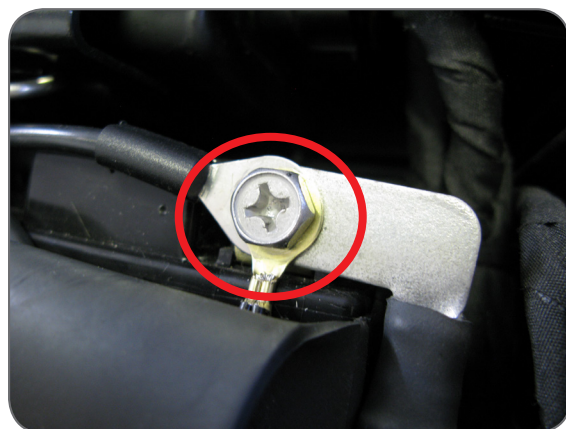
5.7

1. Locate the white tail light connector in the tail section of the bike.
2. Route the Bazzaz power/ground lead towards the tail section of the bike.
3. Separate the factory yellow wire and use the supplied scotchlok to crimp onto the yellow wire.
4. Connect the Bazzaz power connector.



5.8

1. Locate the factory negative battery terminal and install the Bazzaz ground lug.



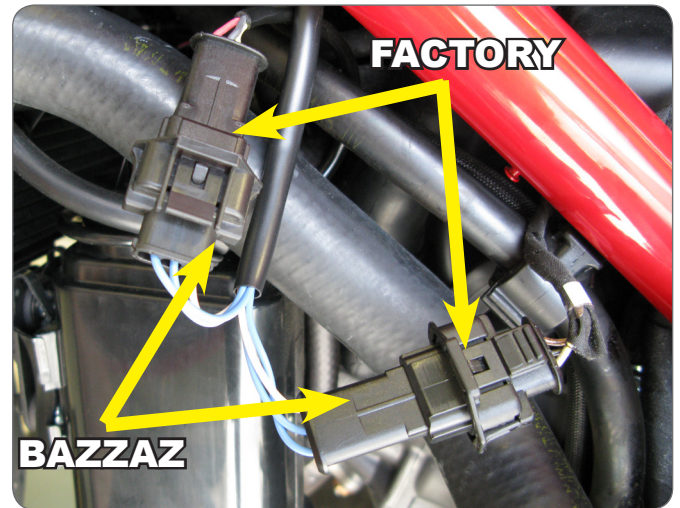
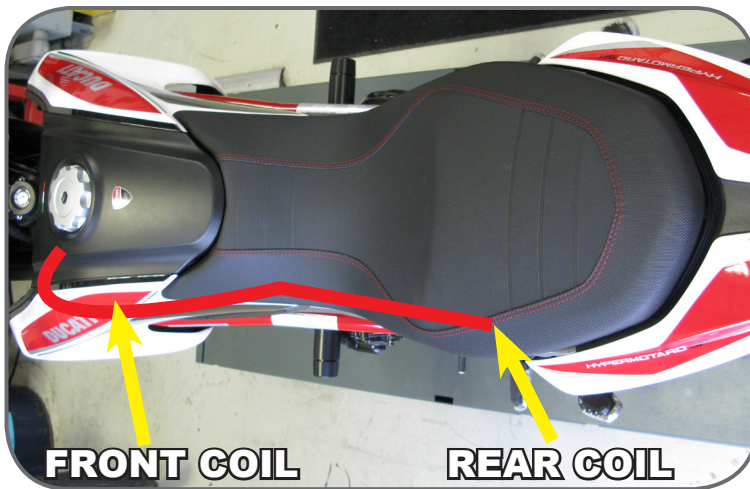
SECTION 6>CONNECT, AND 7>QUICKSHIFT ARE FOR USE WITH THE BAZZAZ Z-FI TC ONLY!! FOR Z-FI, PLEASE SKIP FORWARD TO SECTION 8>O2 ELIMINATION

6>CONNECT

(FOR USE WITH Z-FI TC ONLY!)

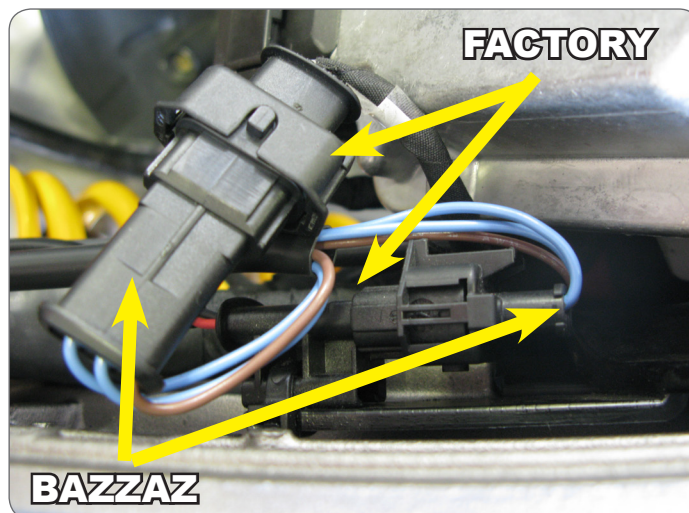
6.1

1. Connect the Bazzaz coil harness to the Bazzaz control unit, and begin to route the harness towards the left side of the bike and back towards the tail section of the bike.
2. Locate the factory front coil connector, mounted to the lower frame rail.
3. Disconnect the coil factory coil connector and install the Bazzaz front coil connector inline.



6.2

1. Locate the factory rear coil connector, which can be found on the left hand side of the bike near the factory ECU.
2. Disconnect the factory rear coil connector, and install the Bazzaz coil connector inline.



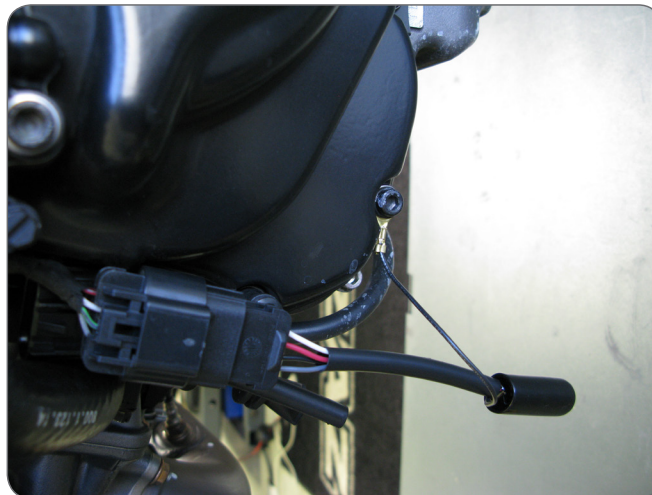
7>QUICKSHIFT

(FOR USE WITH Z-FI TC ONLY!)

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. 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 (**Aftermarket rear sets are required for shift switch installation**).

8>O2 ELIMINATION

1. Locate the factory front and rear O2 sensors. The front O2 sensor connector can be found on the front left of the bike near the radiator hoses. The rear O2 sensor connector can be found on the right hand side of the bike near the rear cylinders valve cover.
2. Disconnect the factory O2 sensor and install the Bazzaz O2 stabilizer.
3. Connect each O2 stabilizer ground to a good chassis ground.



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.
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

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

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

F198 | T198