

INSTALLATION INSTRUCTIONS



UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

ZFI FUEL MANAGEMENT

ZFI TC FUEL + QS + TRACTION CONTROL

VICTORY HARD BALL, CROSS ROADS, CROSS COUNTRY | '12-15
F1850 | T1850

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.

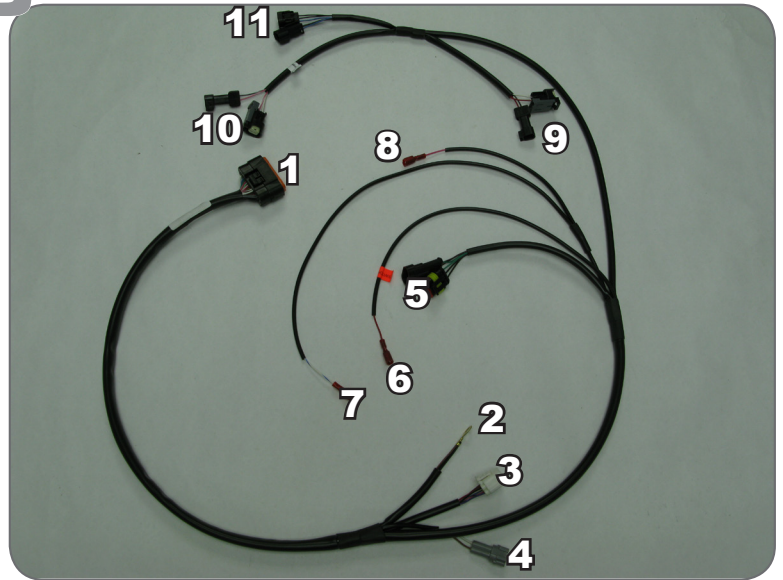
2>IDENTIFY

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. Scotchlok (3)
6. USB cable
7. Swingarm stickers
8. Velcro
9. Download Bazzaz software from bazzaz.net/index.php/software-overview

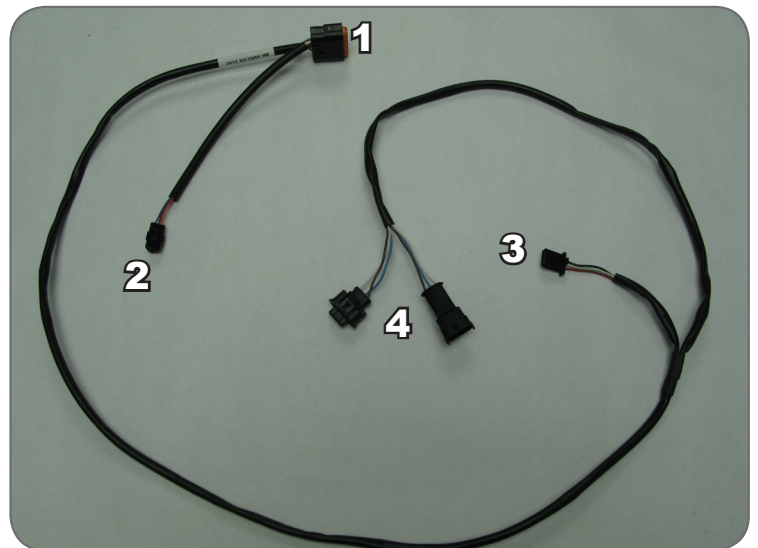
FUEL HARNESS

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



COIL HARNESS (Z-FI TC ONLY)

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

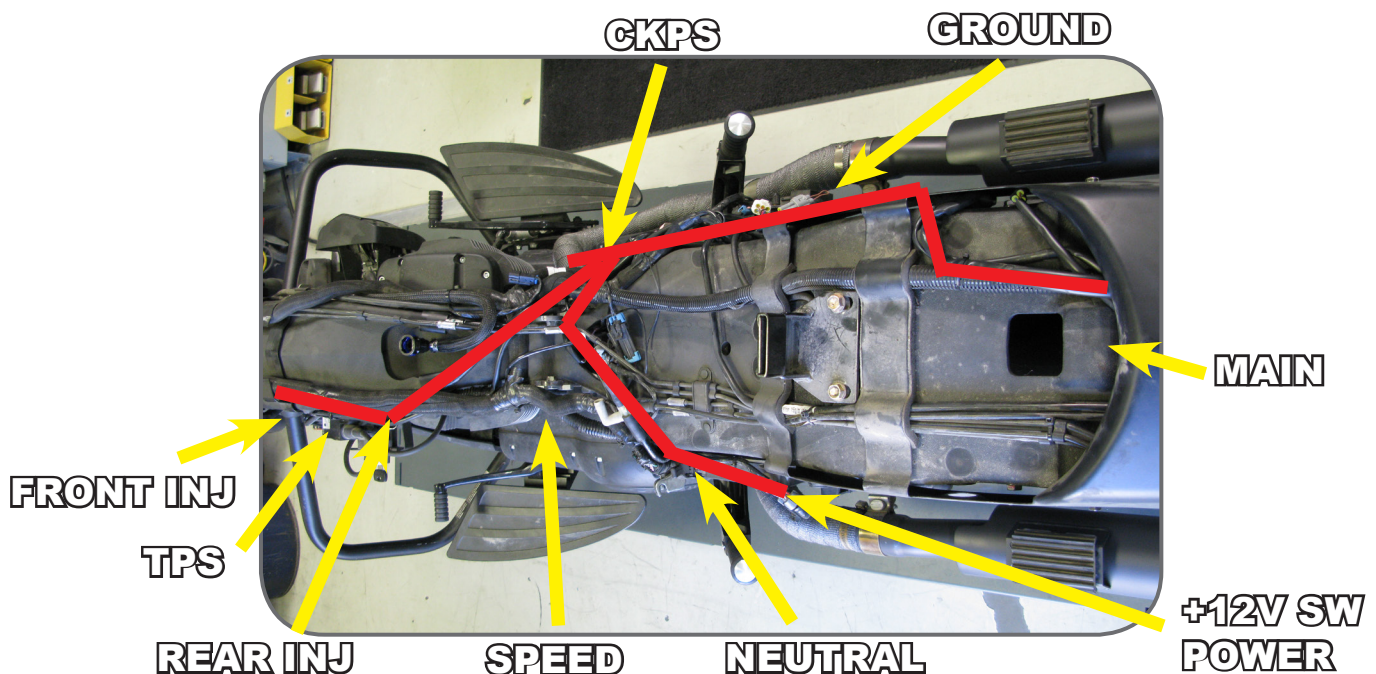


3>REMOVE

1. Rider seat
2. Fuel tank
3. Left and right side cover
4. Rear fender
5. Left side ignition switch cover

4>SECURE

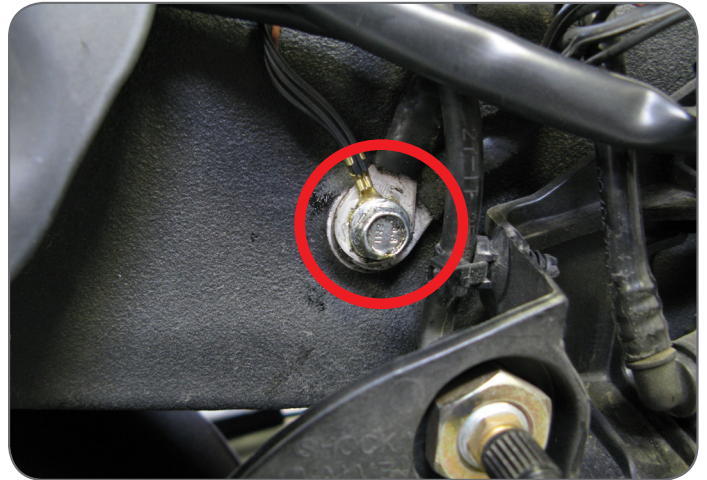
1. Mount the Bazzaz control unit using the supplied Velcro inside the rear fender.
2. Route the Bazzaz harness along the right hand side of the bike between the saddle bag rack and the frame towards the engine compartment. Route the Bazzaz TPS leads across the frame and up the left hand side of the bike between the cylinders.



5>CONNECT

5.1

1. Locate the factory ground location on the right hand side of the frame.
2. Install the Bazzaz ground lug with the existing ground cable.



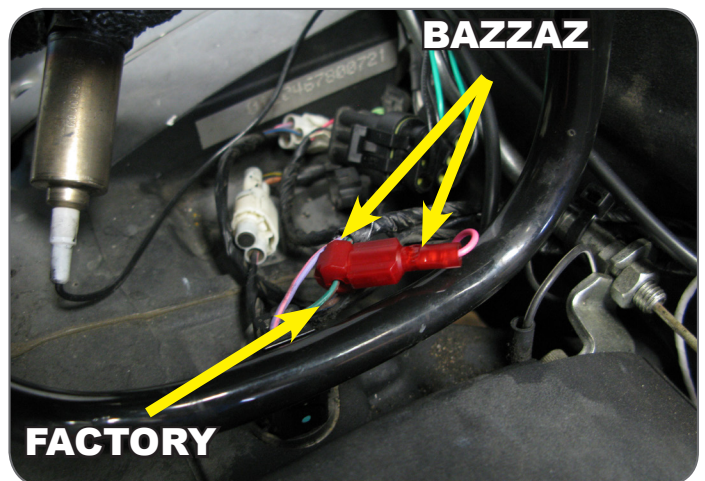
5.2

1. Route the Bazzaz CKPS connectors towards the engine compartment behind the rear cylinder.
2. Disconnect and install the Bazzaz CKPS connector inline.



5.3

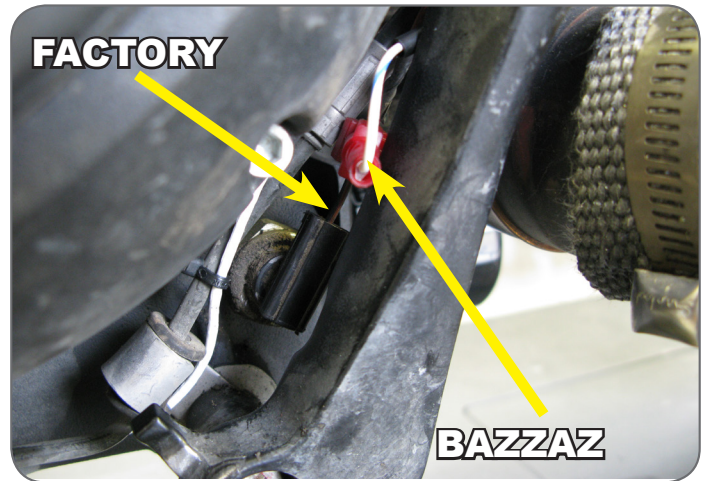
1. Route the Bazzaz speed connector towards the left hand side of the bike near the factory CKPS connector.
2. Locate the factory speed sensor located on top of the factory engine case.
3. Separate the factory green/brown wire.
4. Using the supplied scotchlok, crimp onto the green/brown wire and connect the Bazzaz speed sensor connector.



5>CONNECT (CONT.)

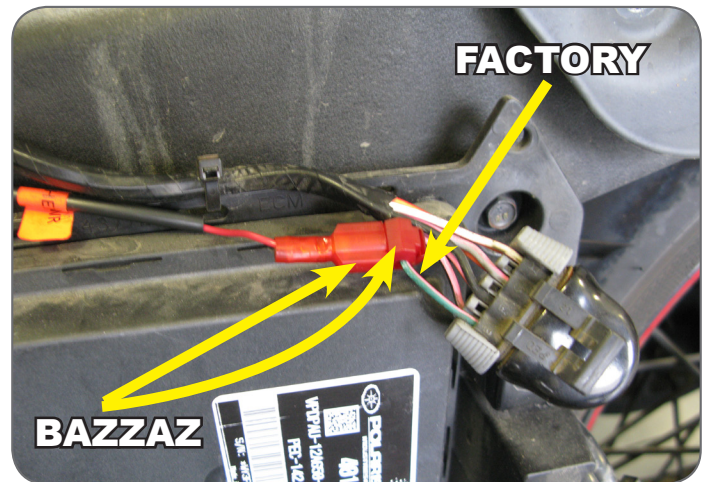
5.4

1. Route the Bazzaz neutral connector along the Bazzaz speed sensor connector.
2. Locate the factory neutral sensor, which can be found on the left hand side of the bike towards the rear of the motor.
3. Use the supplied scotchlock to crimp onto the factory black wire, and route and connect the Bazzaz neutral connector.



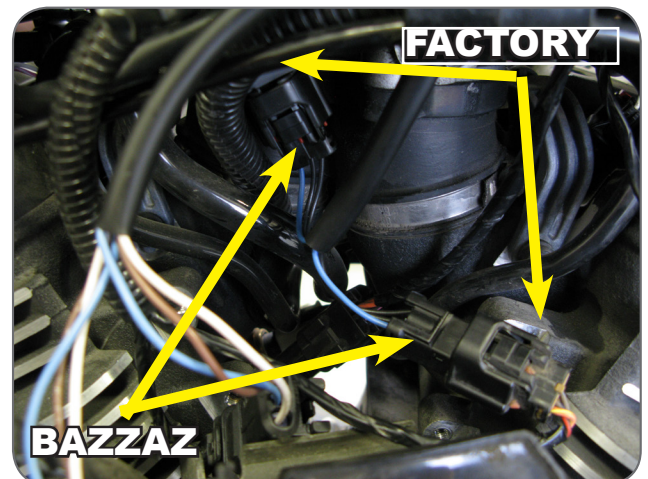
5.5

1. Locate the Bazzaz +12v SW connector,
2. Begin to route the +12v SW power connector across the frame towards the factory ECU on the left hand side of the bike.
3. Locate the factory 8 wire diagnostic connector.
4. Use the supplied scotchlok to crimp onto the factory green/pink wire.
5. Connect the Bazzaz +12v SW connector inline.



5.6

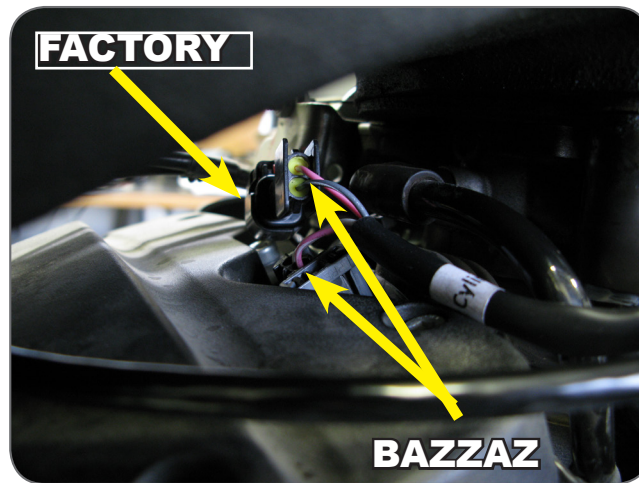
1. Locate the factory TPS connector, which can be found on the left hand side of the throttle bodies. (Removal of the ignition switch/coil bracket will be necessary to install the Bazzaz TPS connector.)
2. Disconnect the factory TPS connector, and install the Bazzaz connector inline.



5>CONNECT (CONT.)

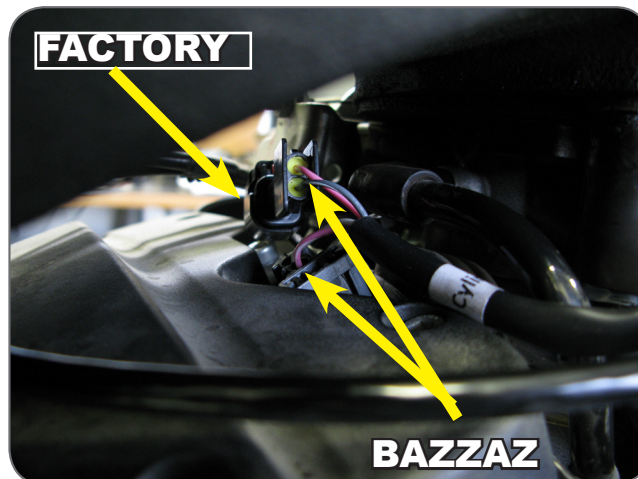
5.7

1. Locate the factory front cylinder injector, which can be found on the factory throttle body underneath the frame, near the factory cylinder head cover.
2. Disconnect the factory injector connector, and install the Bazzaz injector connector inline.



5.8

1. Locate the factory rear injector connector, which will be located in the same position as the front cylinder.
2. Disconnect the factory rear injector connector, and install the Bazzaz injector connector inline.



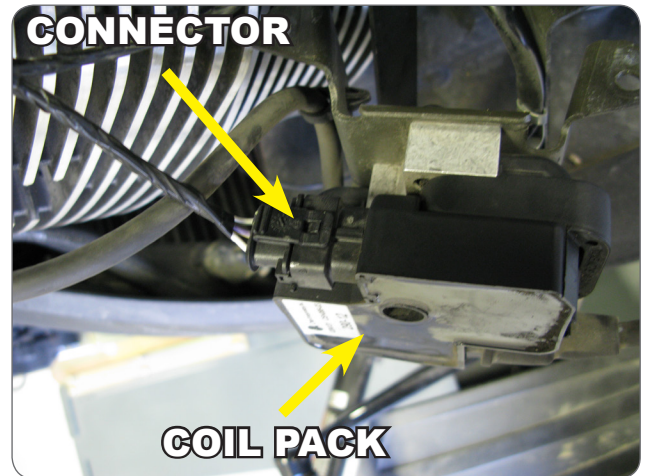
SECTION 6>CONNECT, AND 7>QUICKSHIFT ARE FOR USE WITH THE BAZZAZ Z-FI TC ONLY!! FOR Z-FI, PLEASE SKIP FORWARD TO SECTION 8>O2 ELIMINATION

6>CONNECT

6.1

1. Connect the Bazzaz coil harness to the Bazzaz control unit, and begin to route the harness along the Bazzaz fuel harness up towards the factory ignition coil near the factory ignition switch.
2. Disconnect the factory coil connector and install the Bazzaz coil connector inline.

(FOR USE WITH Z-FI TC ONLY!)



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 both heim joints.
3. Install the Bazzaz heim joints and shift switch using one of the supplied allen stud bolts and tighten.
4. Install the Bazzaz shift rod. (The shift rod may need to be cut to obtain your original shift pedal height.)
5. 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.
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.
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 handlebar-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

F185 | T185