

# INSTALLATION INSTRUCTIONS



# UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

**ZFI TC** FUEL + QS + TRACTION CONTROL

**HONDA, CBR600RR, 2003-2004  
S346S, S346R, T346S, T346R**

## 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 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



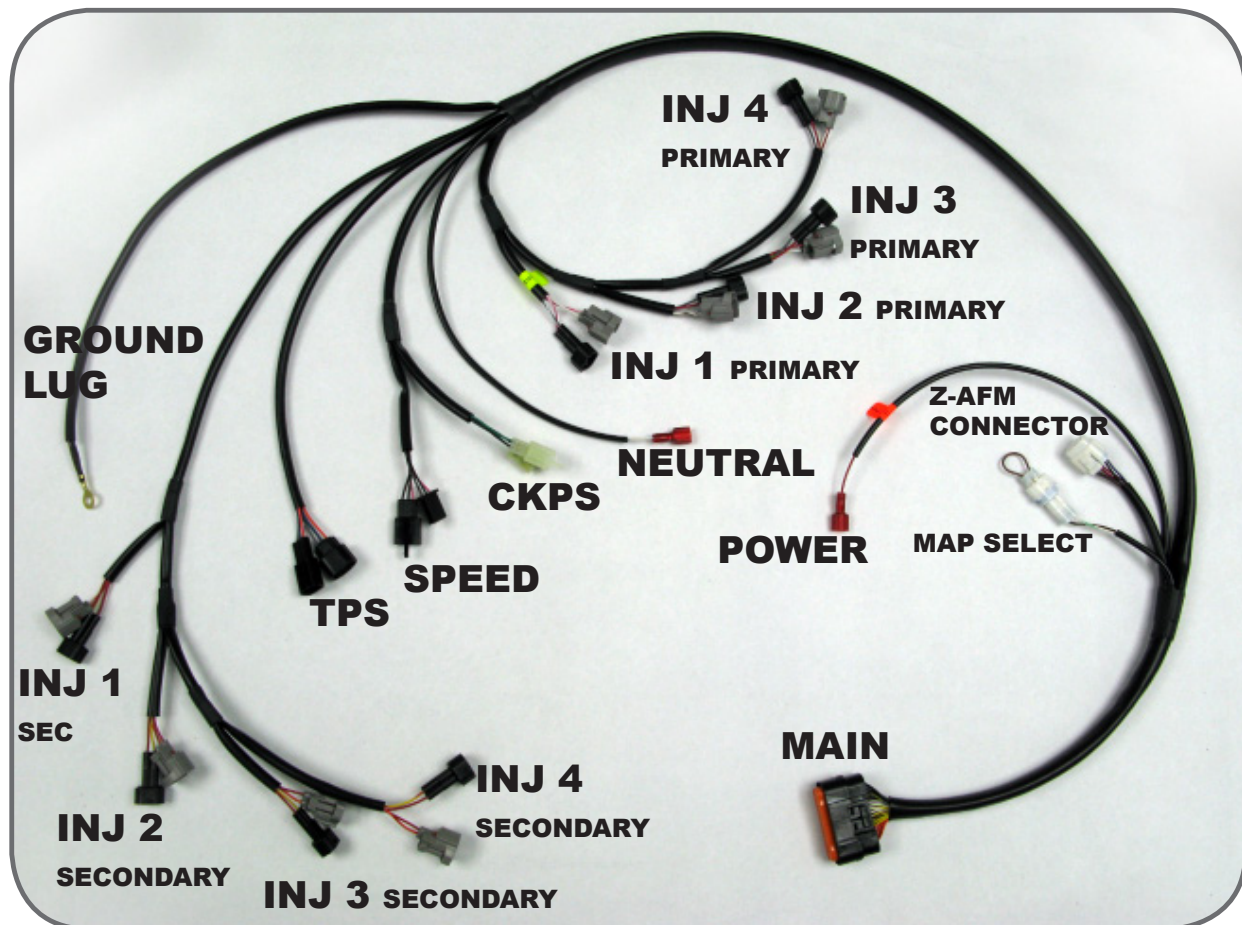
- Factory support is available in the US at 909-597-8300.
- For fastest support outside of the US, find your local importer at [bazzaz.net](http://bazzaz.net).

# 2>IDENTIFY

## INCLUDED PARTS

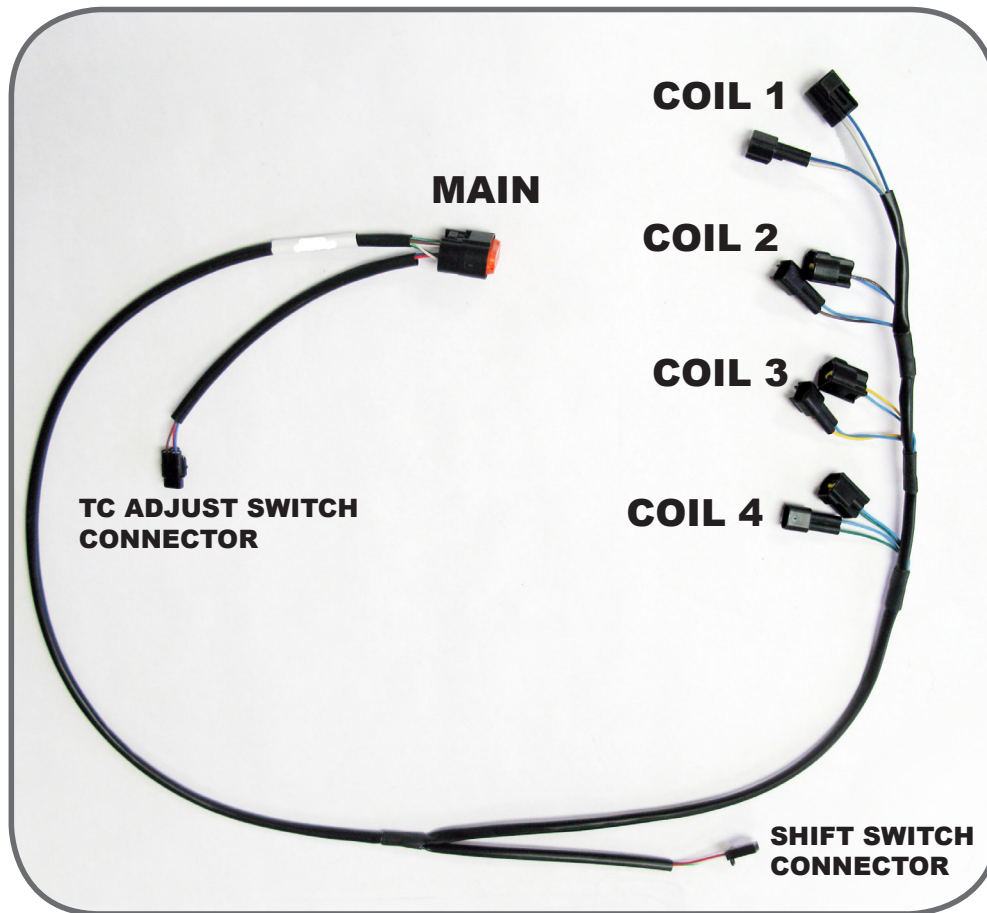
1. Z-Fi QS/TC control unit
2. Fuel harness
3. Coil harness
4. Shift Switch and mounting hardware
5. USB cable
6. Scotchlok (2)
7. Zip ties
8. Velcro

## FUEL HARNESS



# 2>IDENTIFY (CONT.)

## COIL HARNESS



# 3>REMOVE

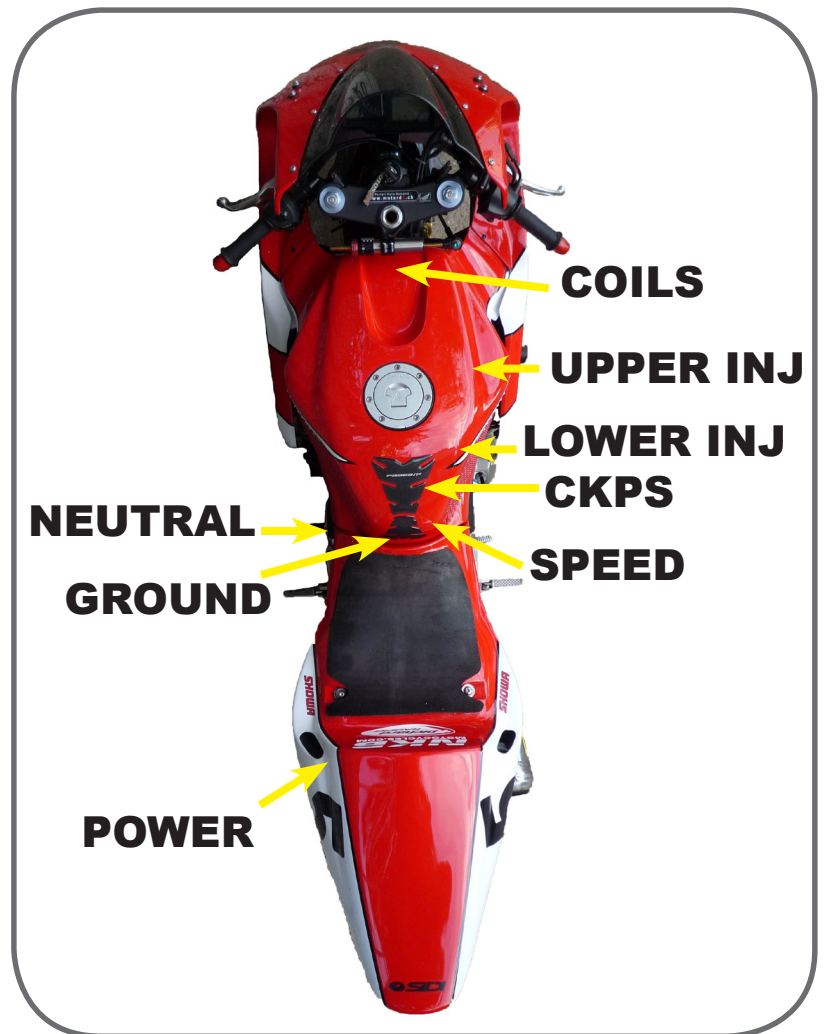
1. Seats
2. Fuel tank
3. Airbox

# 4>SECURE

1. Mount the control unit in the tail section of the bike.

# 5>CONNECT

- 5.1**
1. Connect the main connector of the Bazzaz fuel harness to the control unit.
  2. Route the harness on the left side of the bike.

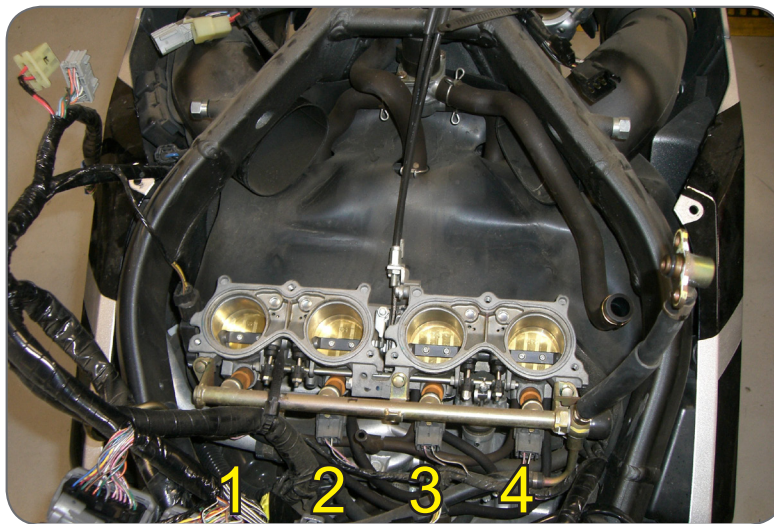




# 5>CONNECT (CONT.)

## 5.2

1. Locate the factory #1 lower injector, which can be found on the throttle body furthest to the left.
2. Disconnect the factory connector from the #1 lower injector.
3. Plug the Bazzaz #1 lower injector connectors (labeled with yellow tag) in-line between the factory connector and injector.
4. Follow these same steps, working your way from left to right, for injectors #2, #3 and #4.



## 5.3

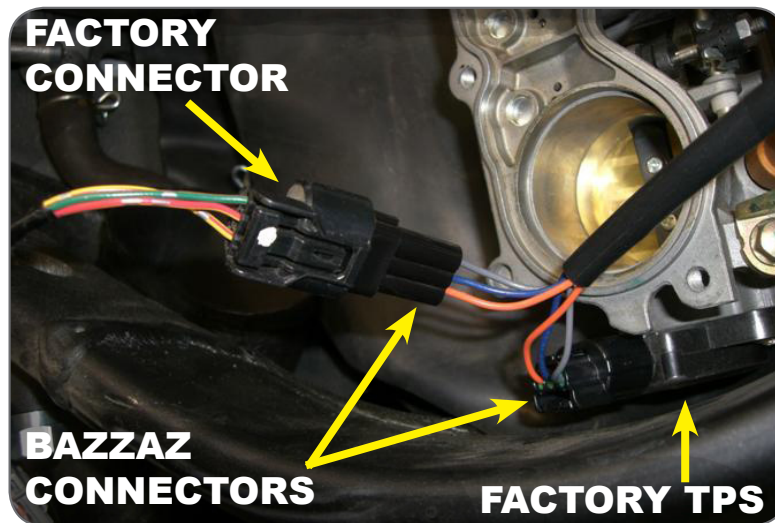
1. Locate the factory #1 upper injector.
2. Disconnect the factory connector from the #1 upper injector.
3. Plug the Bazzaz #1 upper injector connectors in-line between the factory connector and injector.
4. Follow these same steps, working your way from left to right, for injectors #2, #3 and #4.



# 5>CONNECT (CONT.)

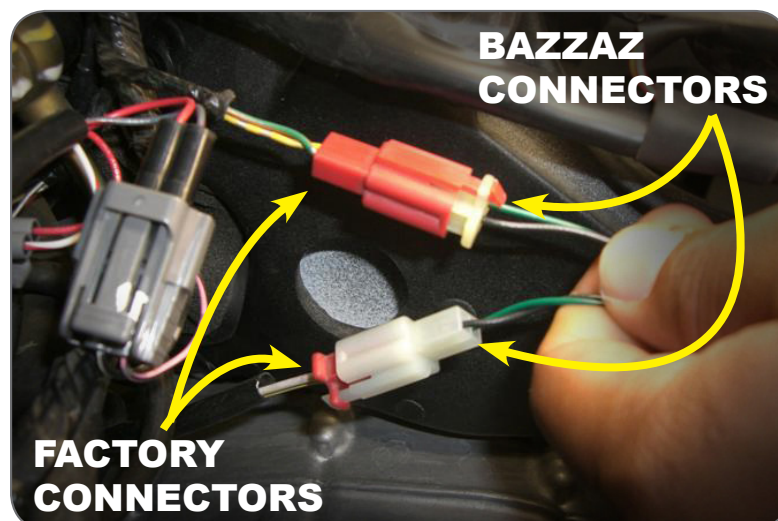
## 5.4

1. Remove the airbox to locate the factory Throttle Position Sensor (TPS) and connector on the left side of the throttle bodies.
2. Disconnect the factory TPS connector from the sensor.
3. Connect the Bazzaz TPS connectors in-line between the factory TPS and connector.
4. Leave the airbox off for the following steps to install the coil harness later.



## 5.5

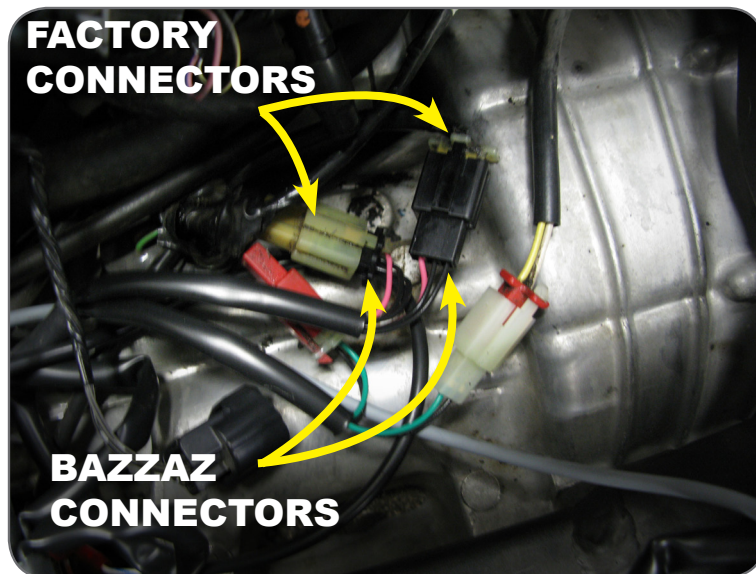
1. Locate the factory Crank Position Sensor (CKPS) connectors which can be found near injector #3 on top of the starter motor.
2. Disconnect the factory CKPS connectors.
3. Connect the Bazzaz CKPS connectors in-line with the factory connectors.



# 5>CONNECT (CONT.)

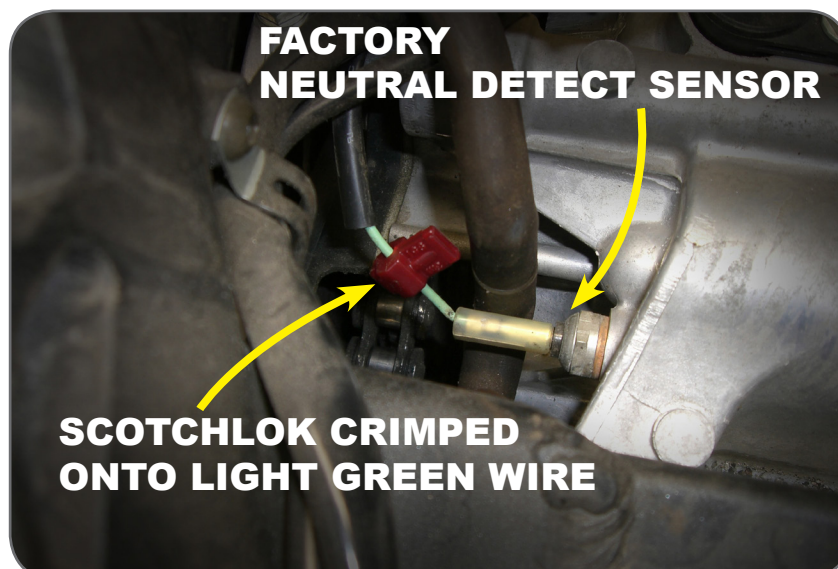
## 5.6

1. Locate the factory speed connectors which can be found near the factory CKPS connectors.
2. Disconnect the factory speed connectors.
3. Connect the Bazzaz speed connectors in-line with the factory connectors.



## 5.7

1. Locate the factory neutral detect sensor near the counter shaft sprocket.
2. Crimp a supplied Scotchlok onto the **light green** wire of the neutral detect sensor.
3. Insert the Bazzaz neutral connector (has white / blue wire) into the Scotchlok (not shown in photo).





# 6>GROUND

1. Attach the Bazzaz ground lug to a suitable chassis ground.

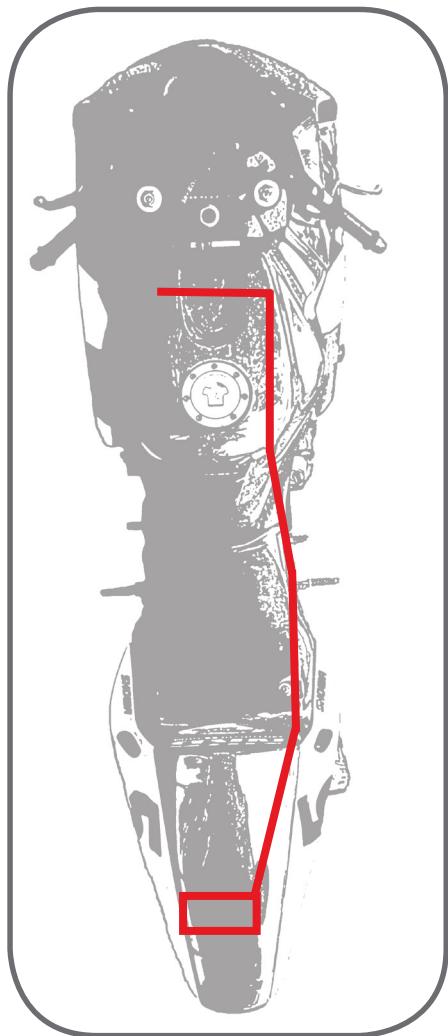
# 7>CONNECT

## 7.1

1. Locate the factory tail light connector found in the tail section of the bike.
2. Crimp a supplied Scotchlok onto the **black / brown** wire of the tail light connector.
3. Insert the Bazzaz +12V switched power connector (labeled with a red tag) into the Scotchlok.

## 7.2

# COIL HARNESS



1. Connect the main connector of the Bazzaz coil harness to the control unit.
2. Route the harness on the right side of the bike.
3. Locate the factory coils found on top of the valve cover.
4. Disconnect the coil connector from the factory #4 stick coil, which can be found on the far right side of the bike.
5. Connect the Bazzaz #4 coil connectors in-line between the factory stick coil and connector.
6. Follow the same procedure, working your way from right to left, for coils #3, #2 and #1.



# 8>QUICKSHIFT

1. Remove the factory shift rod from the motorcycle's shift linkage.
2. Install the supplied shift switch onto the heim joint, connected to the shift shaft of the engine.
3. Install the supplied replacement shift rod between the shift switch and rear heim joint, connected to the rear set.
4. Adjust the foot pedal to preferred height and secure components by tightening the 10mm nuts (Bazzaz shift rods are manufactured to fit multiple applications and can be cut at 10mm intervals on either end to shorten for proper positioning).
5. Route the Bazzaz shift switch connector to the mating connector of the Bazzaz coil harness and plug in-line.

# 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



If any problem is found, please carefully follow through the installation steps again.



If problem still persists, please contact Bazzaz tech support

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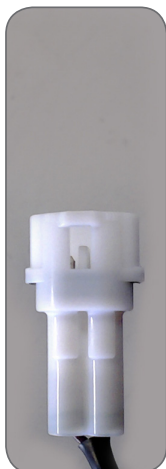
# 11>REINSTALL

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.

# 13>SOFTWARE



Download the latest software and instructions at [bazzaz.net](http://bazzaz.net)

## 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

CUT LEVEL	TPS	TC SENSITIVITY																					
5	100%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	90%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	80%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	70%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	60%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	50%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	40%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	30%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	20%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	10%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	5%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	0%	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500

TRACK OPERATING POINT

MAP1

TC TRIM BY GEAR:

1ST	2ND	3RD	4TH	5TH	6TH
0	0	0	0	0	0

TRIM SWITCH: 3

GEAR POSITION: 5

Clear Load TC Map

Exit Save to Disk

**BAZZAZ Z-Fi TC**

# 14>NEXT LEVEL

## MAP SELECT SWITCH

Purchased separately.

**79.95**

Switch maps on the fly with this handlebar-mounted switch. Weatherproof toggle and easy installation.



## 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.

**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**

# NOTES

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**THE SMARTEST PERFORMANCE TUNING TECHNOLOGY**



Proudly made in the  
**United States**

**S346S, S346R, T346S, T346R**