

# INSTALLATION INSTRUCTIONS



# UNLEASH.

THE SMARTEST PERFORMANCE TUNING TECHNOLOGY

**QS4/USB** STANDALONE QUICK SHIFT

**KTM RC390 | 2015  
Q545**

## 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](http://bazzaz.net).

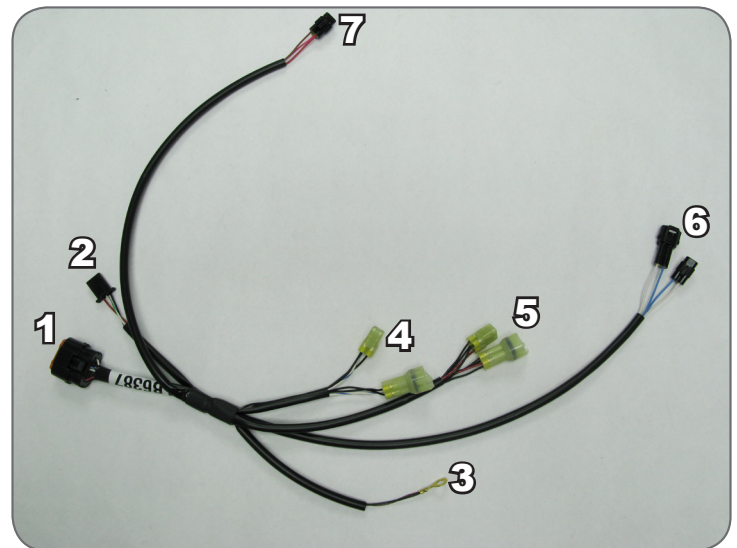
# 2>IDENTIFY

## INCLUDED PARTS

1. QS4-USB control unit
2. QS4-USB harness
3. Shift Switch and mounting hardware
4. Speed Amplifier
5. USB cable
6. Swingarm stickers
7. Velcro
8. Download Bazzaz software from [bazzaz.net/index.php/software-overview](http://bazzaz.net/index.php/software-overview)

## QS4-USB HARNESS

1. Main
2. Shift Switch
3. Ground
4. CKPS/Neutral
5. +12v Sw Power
6. Coil
7. Speed

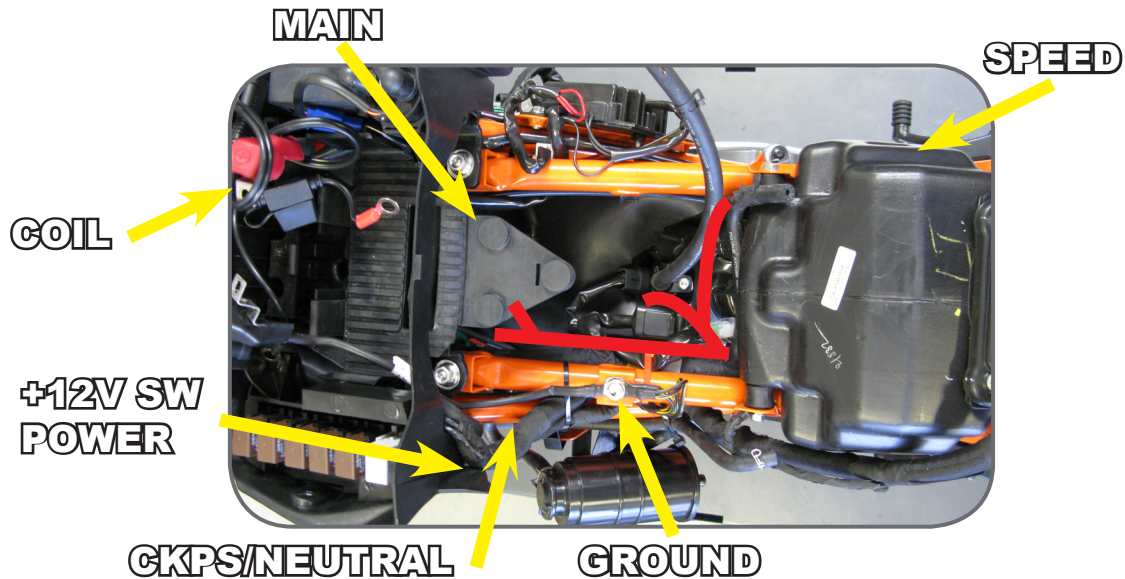


# 3>REMOVE

1. Rider seat
2. Passenger Seat
3. Right and left side fairing
4. Fuel Tank

# 4>SECURE

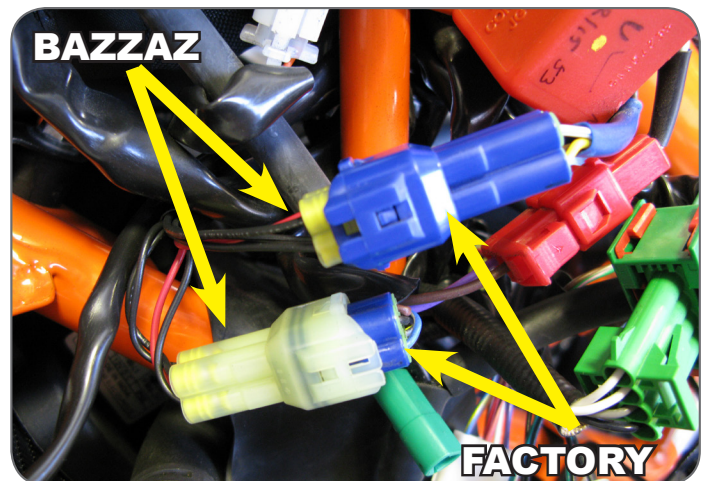
1. The Bazzaz control unit will be installed beneath the fuel tank near the ABS module.
2. Connect the Bazzaz QS4-USB harness, and begin to route the harness towards the air box along the right hand side of the bike.



# 5>CONNECT

## 5.1

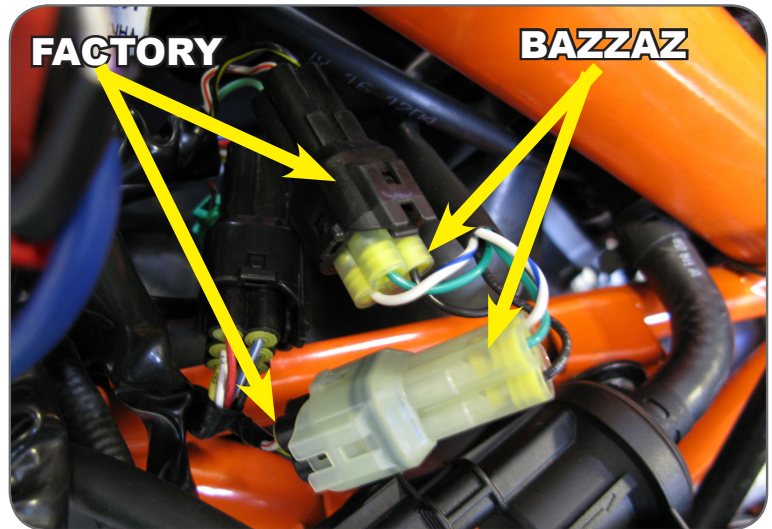
1. Locate the factory red headlamp control unit which can be found on the left hand side of the bike on the outside of the frame.
2. Disconnect the factory four pin blue connector and install the Bazzaz +12v SW connectors inline.



# 5>CONNECT (CONT.)

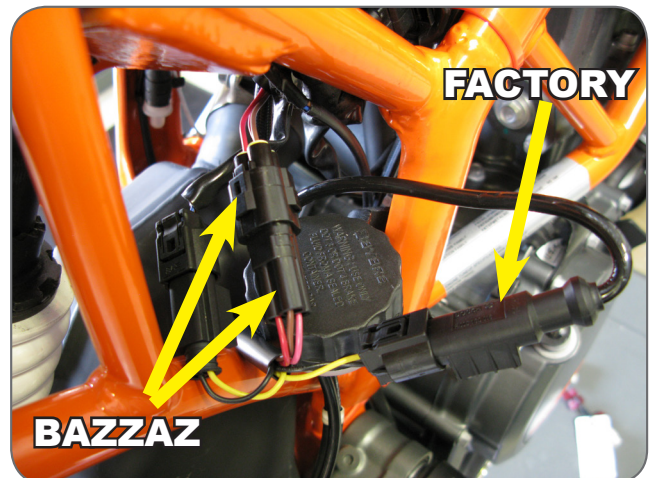
## 5.2

1. Locate the factory black four pin CKPS/Neutral connector which can be found on the left hand side of the bike just inside of the frame.
2. Disconnect the factory CKPS connector and install the Bazzaz connector inline.



## 5.3

1. Locate the factory rear wheel speed sensor connector which can be found on the right hand side of the bike above the rear brake fluid reservoir.
2. Disconnect the factory speed sensor connector and install the Bazzaz speed amplifier inline.
3. Connect the Bazzaz speed sensor connector to the speed amplifier.



## 5.4

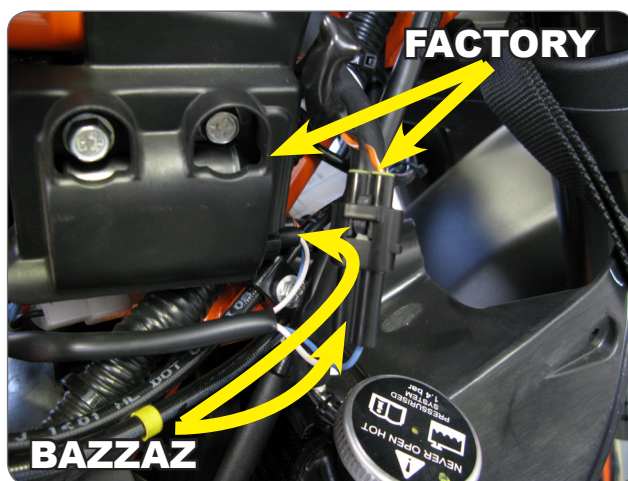
1. Locate the factory ground location on the left hand side of the bike on top of the frame rail.
2. Remove the factory 10mm bolt and install the Bazzaz ground with the factory grounds.
3. Retighten the factory 10mm bolt.



# 5>CONNECT (CONT.)

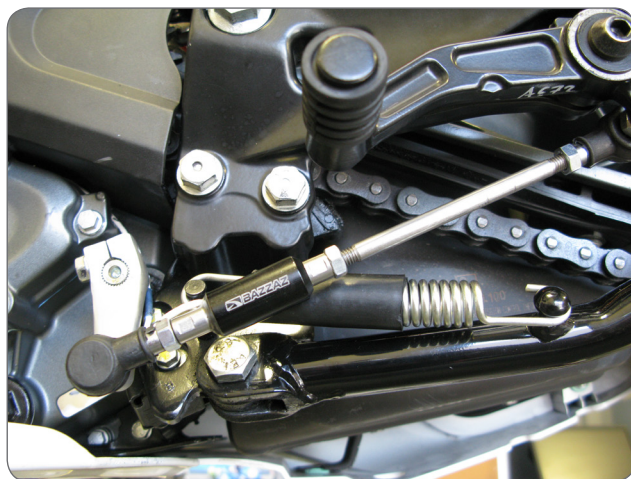
## 5.5

1. Route the Bazzaz coil leads towards the right side of the bike near the top of the radiator.
2. Locate the factory coil pack which can be found on the outside of the frame near the factory coolant overflow tank.
3. Disconnect the factory coil connector from the coil pack and install the Bazzaz coil connector inline.



# 6>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. 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.



# 7>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).



# 8>CHECK



1. In order to check that the system is installed correctly, download the Bazzaz Z-Fi Mapper software at [bazzaz.net](http://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

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## 9> REINSTALL

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

## 10> NEXT LEVEL

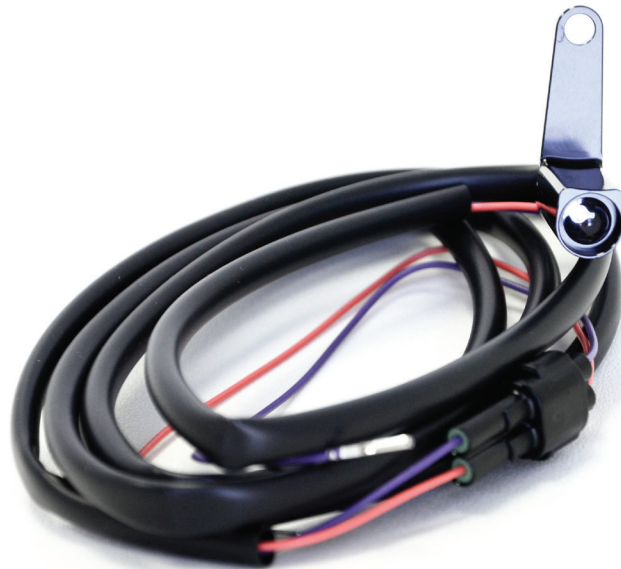
### SHIFT LIGHT (Sold Separately)

Illuminates white to identify pre-determined, optimal shift points.

Used to improve forward drive and momentum for faster drag passes and lap times.

Comes pre-programmed with suggested values that can be easily adjusted as desired.

\*For use with the QS4 USB stand-alone quick shift only.



**\$129.99**



**THE SMARTEST PERFORMANCE TUNING TECHNOLOGY**



Proudly made in the  
**United States**

**Q545**