



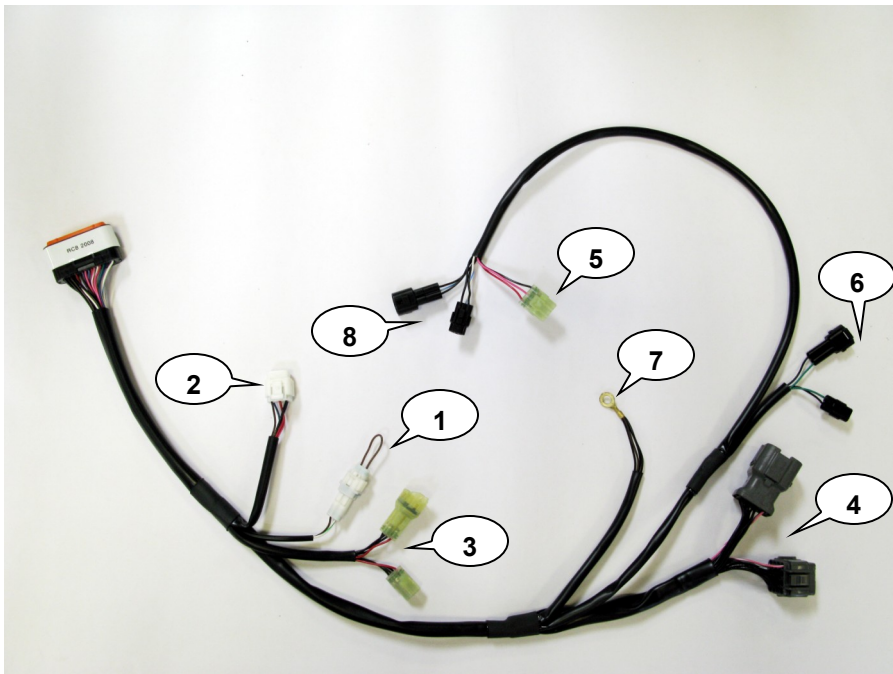
2008-2010 KTM RC8  
2009-2010 RC8 R  
Z-Fi INSTALLATION INSTRUCTIONS  
P/N F542

**WARNING!**

**USE ONLY IN RACE OR OTHER CLOSED COURSE APPLICATIONS AND NEVER ON PUBLIC ROADS**

Z-Fi products do not meet California CARB highway requirements

**Z-Fi CONTROL UNIT  
FUEL HARNESS  
DOWNLOAD Z-Fi MAPPER SOFTWARE & ITS INSTRUCTIONS FROM WEBSITE  
O2 ELIMINATORS (2)  
SPEED SENSOR / BRACKET ASSEMBLY  
ASSORTED CABLE TIES  
USB CABLE  
SWINGARM STICKERS**



- (1) MAP SELECT
- (2) ZAFM CONNECTOR
- (3) SWITCHED POWER (RED TAG)
- (4) INJECTOR/ THROTTLE POSITION CONNECTORS
- (5) SPEED SENSOR
- (6) CRANK POSITION SENSOR
- (7) GROUND LUG
- (8) NEUTRAL DETECT

***Read through all instructions before beginning installation. This is not a replacement for the ECU. This document is intended for use by qualified technicians. For more specific stock component identification and location information refer to a factory service manual.***

**WE STRONGLY SUGGEST THAT AN EXPERIENCED TECHNICIAN  
INSTALL THIS BAZZAZ PRODUCT**

1. Begin the installation by removing the seat, fuel tank, upper & lower front fairings on both sides, and the air inlet ducts. Take the portion of Bazzaz harness containing the crank position, speed, neutral sensor connectors and route it through the frame in front of the air box to the left side of the bike.

2. Locate the crank position sensor connectors on the factory harness, which are blue in color and can be found near the left air inlet opening of the air box (Photo 1). Disconnect the factory connectors and install the mating Bazzaz crank position connectors inline. (Photo 2)

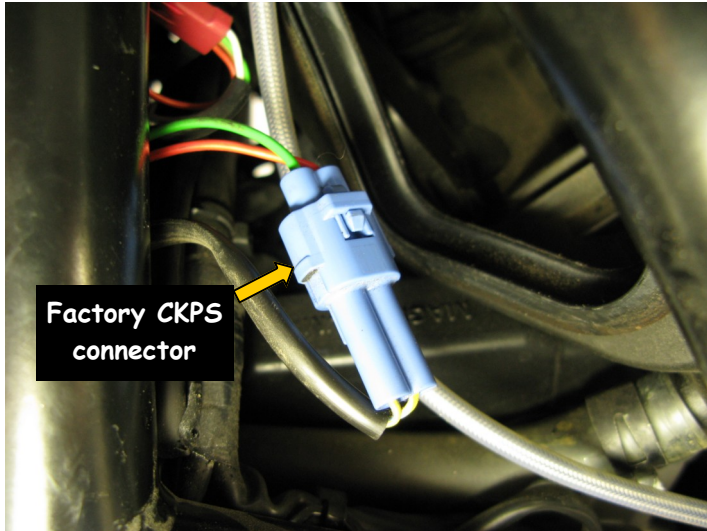


Photo 1

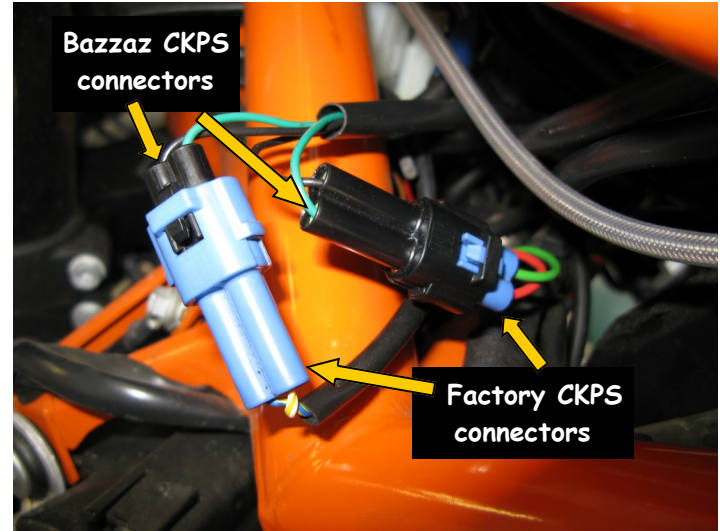


Photo 2

3. Continue to route this portion of the harness toward the rear of the air box, inside the frame. Locate the factory neutral sensor connectors found between the frame and rear cylinder (photo 3). Disconnect the factory connectors and install the mating Bazzaz neutral sensor connectors inline. (Photo 4)

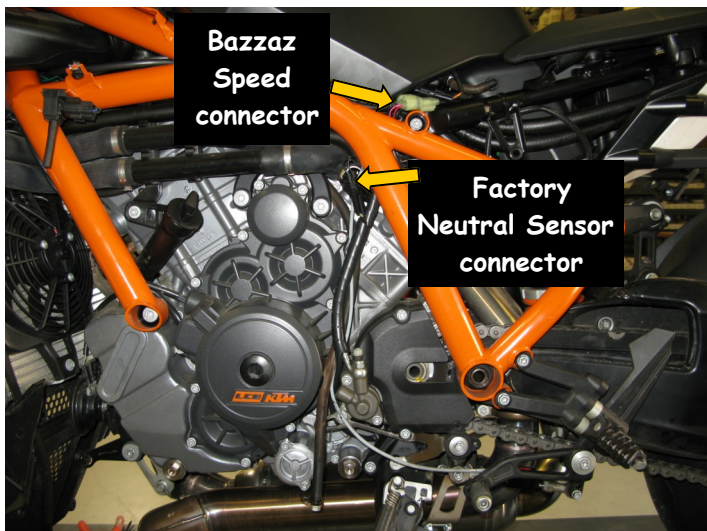


Photo 3

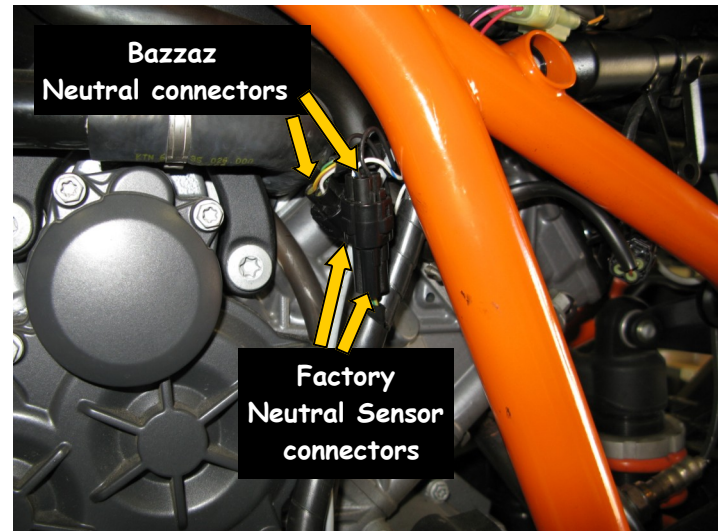
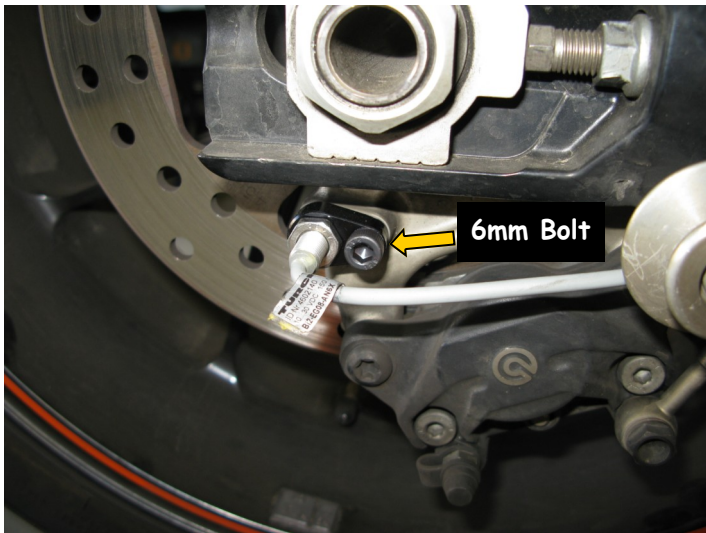


Photo 4

The Bazzaz harness will have one remaining connector near the neutral connection made in the previous step. This connector is where the speed sensor provided with the Bazzaz kit connects once it is installed to the motorcycle's rear brake caliper mounting bracket. (Photo 3)

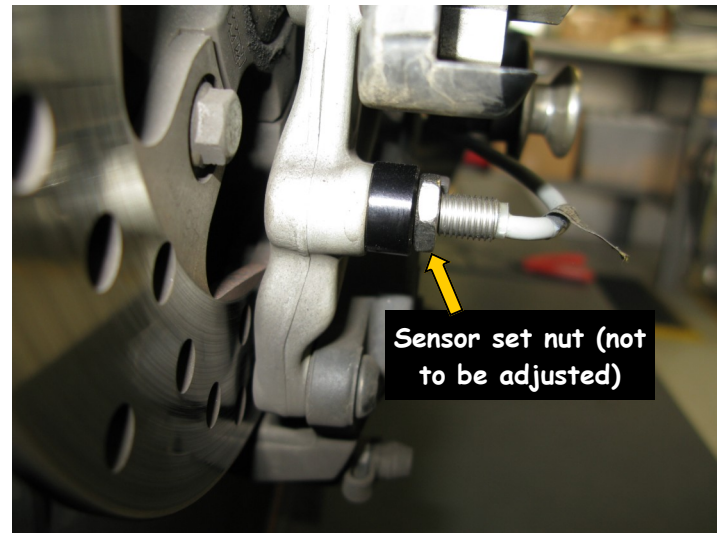
4. The factory rear brake caliper mounting bracket has been manufactured by KTM with the option for a rear wheel speed sensor. It has two pre-drilled holes, providing an opening for sensor placement and securing of the sensor in place. **Note: The speed sensor provided with your kit requires that it be mounted allowing for a particular positioning in relation to the rear brake disc mounting bolts which the sensor uses to calculate wheel speed. The sensor and bracket assembly has been pre-assembled to achieve an exact tolerance. Do not attempt to modify the assembly as it may result in poor performance or even damage to the Bazzaz product and motorcycle.**

Insert the assembly into the pre-drilled opening of the caliper mounting bracket and secure it with the supplied 6mm bolt using a 5mm Allen tool (photos 5 & 6). Route the sensor cable along the underside of the swingarm. Secure it to the brake line with the supplied cable ties (photos 7 & 8). Continue to route the cable behind the right rear set, up along the frame, under the fuel tank to the mating connector on the Bazzaz harness on the left side of the motorcycle. (Photos 9, 10 & 11)



Front View

Photo 5



Rear View

Photo 6

### Speed Sensor Cable Routing Photos

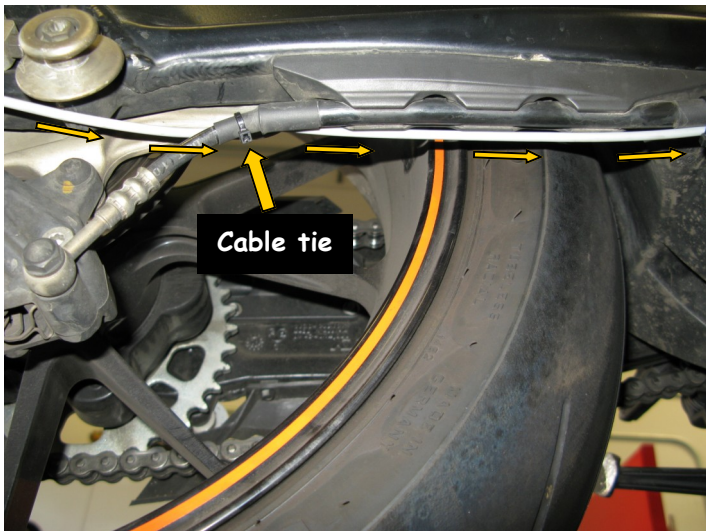


Photo 7

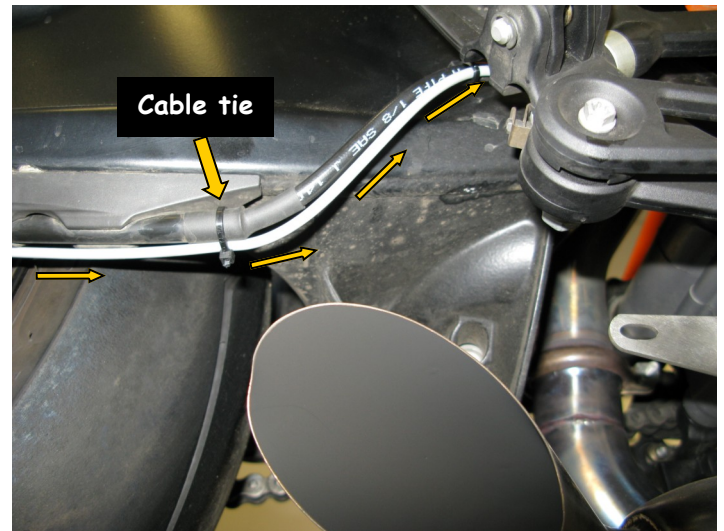


Photo 8

## Speed Sensor Cable Routing Photos continued....

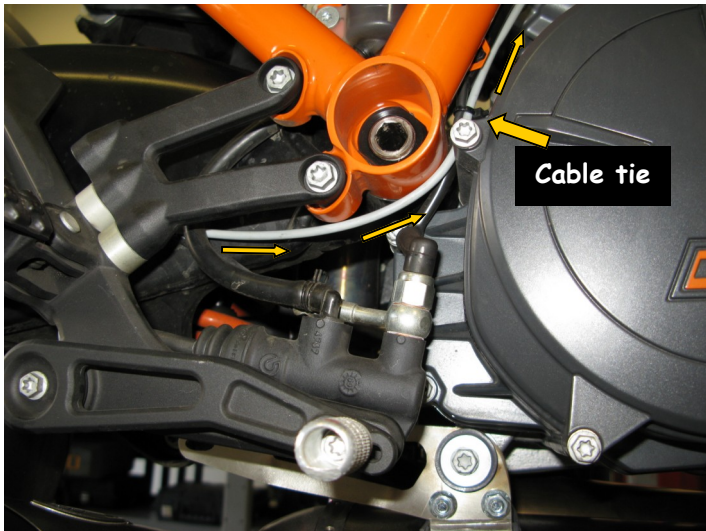


Photo 9

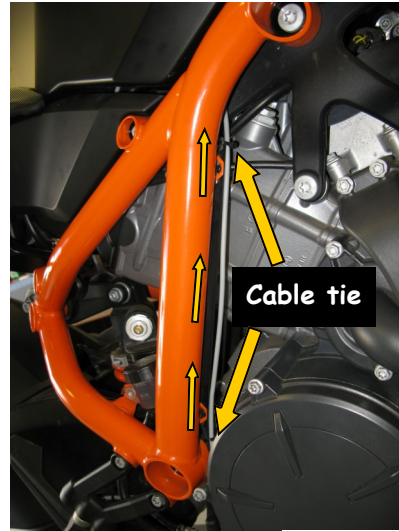


Photo 10

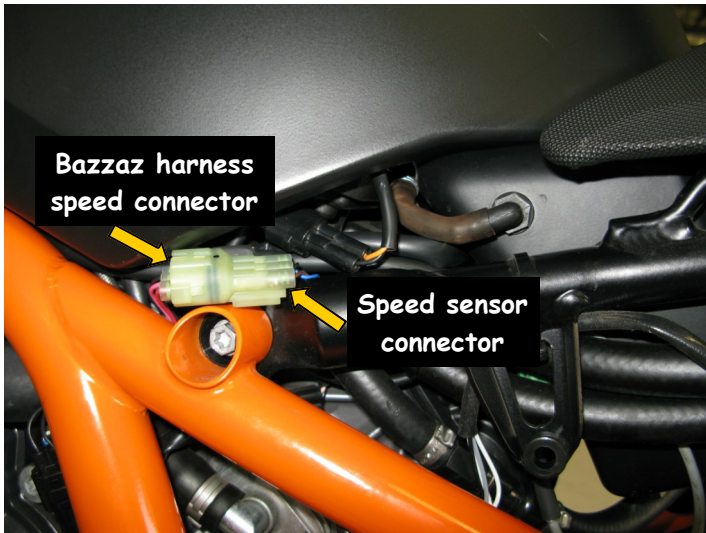


Photo 11

5. On the right side of the motorcycle, locate the factory multi-function 16 pin connector, which is gray in color and found near the front cylinder (photo 12) Disconnect the factory connectors and install the mating Bazzaz throttle position & injector connectors inline. (Photo 13)

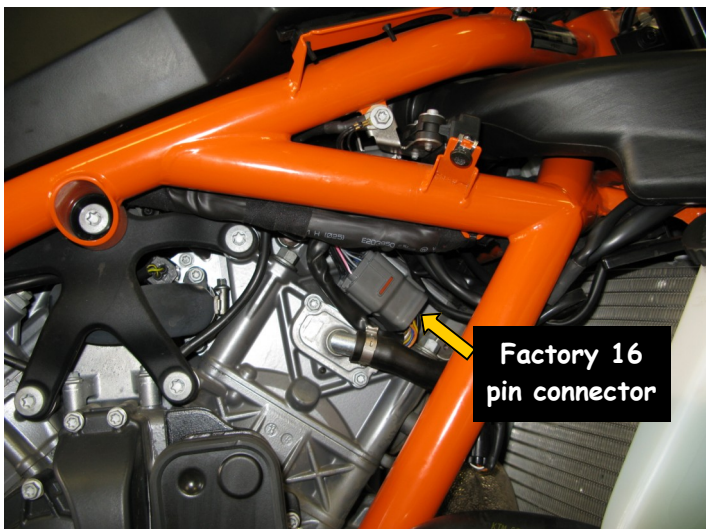


Photo 12

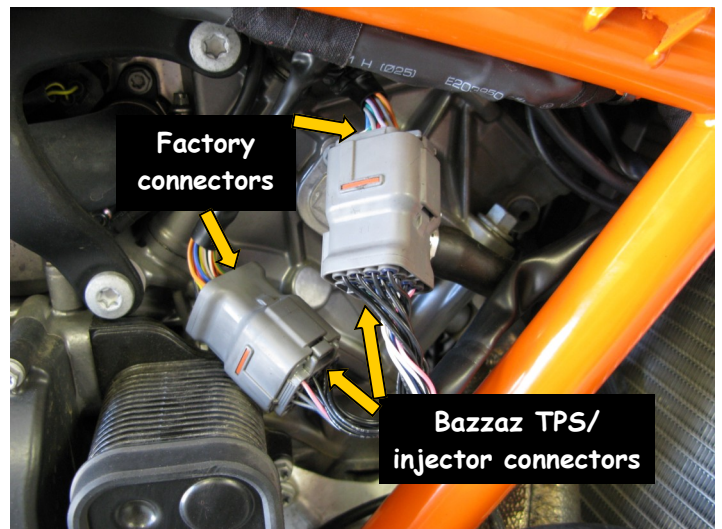


Photo 13

6. Above the factory 16 pin multi-function connector you will find a chassis ground location on the frame. Remove the factory bolt, install the Bazzaz harness ground lug then reinstall the factory bolt (see Factory service manual for torque specs). (Photo 14)

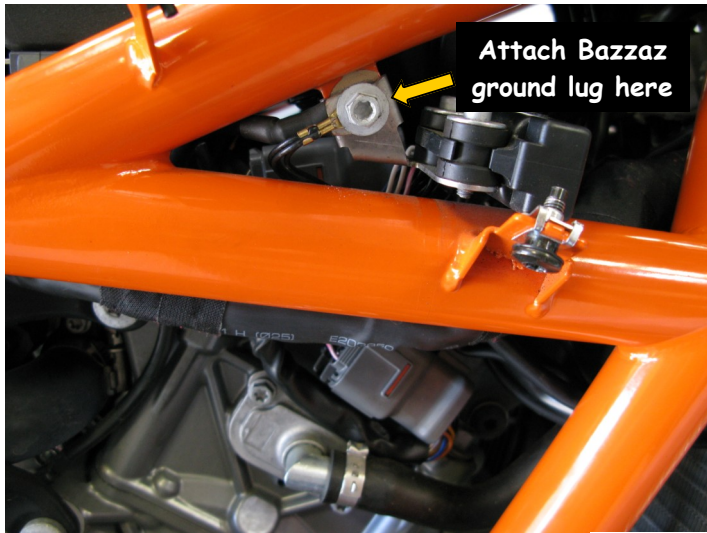


Photo 14

7. Near the factory ECU there is a black four pin connector with a dummy plug inserted into it on the factory harness. Remove the dummy plug and connect the mating Bazzaz power connector into this factory connector and insert the dummy plug into the remaining mating Bazzaz power connector. (Photos 15 & 16)

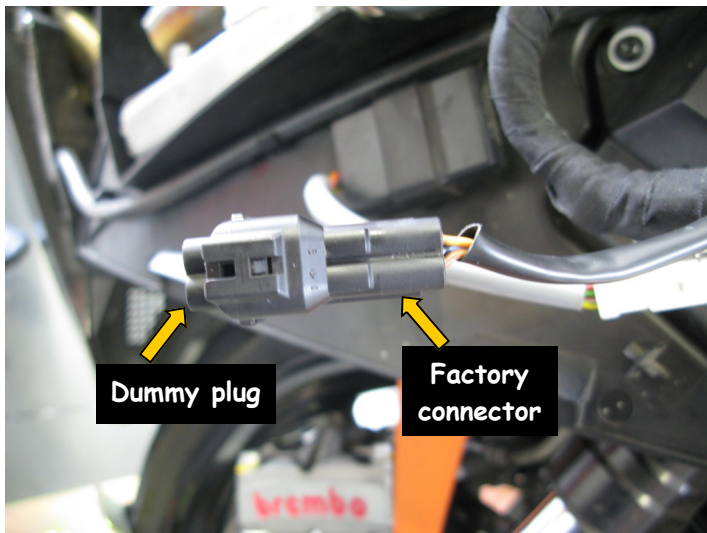


Photo 15

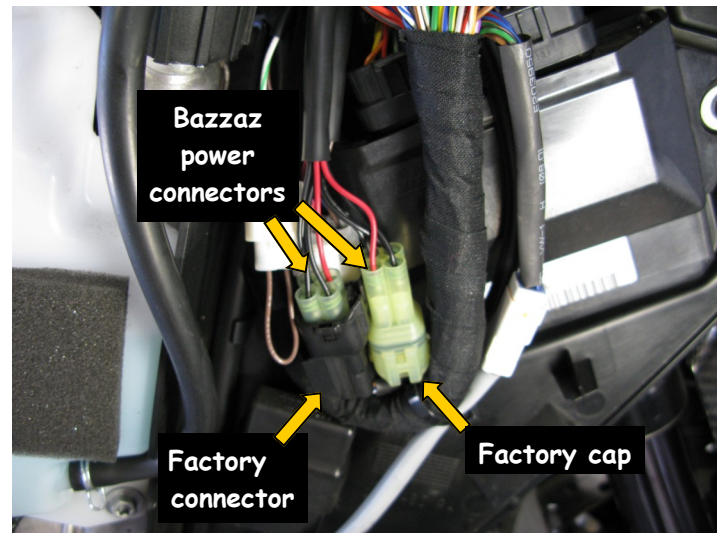


Photo 16

Prior to reinstalling the right side air inlet duct, route the remainder of the Bazzaz harness containing the control module connector toward the front of the motorcycle into the nose fairing (photo 17). Connect mating Bazzaz harness connectors to the control unit. Reinstall the right air inlet duct and secure the Bazzaz control module to the front of the air duct using the Velcro strips and long cable ties provided with the kit. (Photo 18)



Photo 17

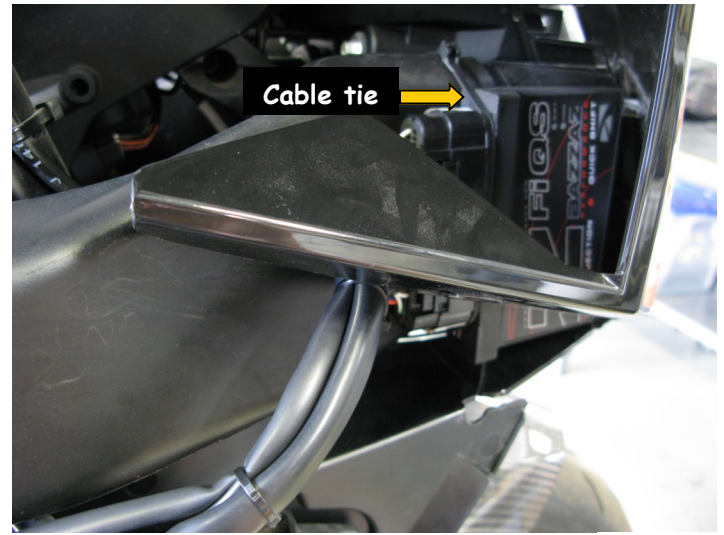
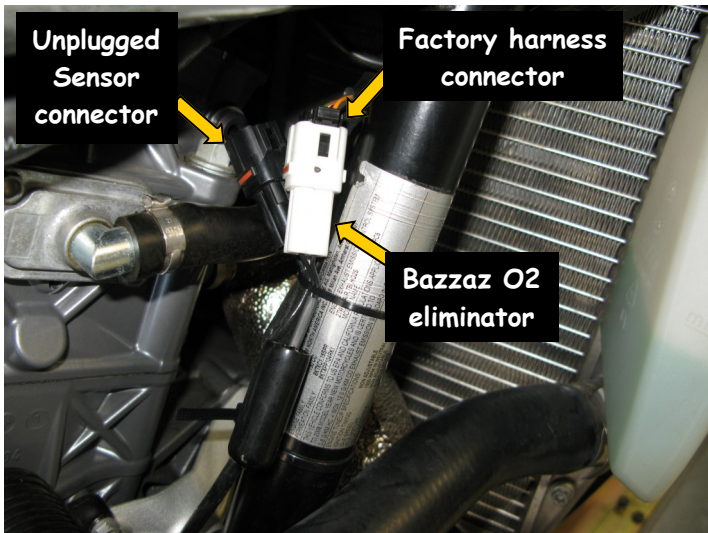


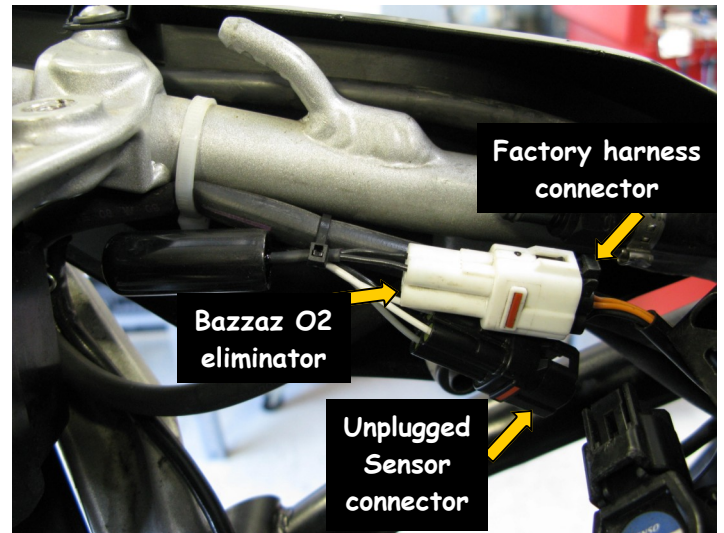
Photo 18

The KTM RC8 is equipped with an O2 sensor for each cylinder. To achieve maximum performance for racing purposes and to maintain accurate fuel delivery using the Bazzaz control module, the two factory sensors must be bypassed using the O2 eliminators provided with the kit. For each cylinder, locate the sensor and disconnect it from the factory harness. Secure the sensor cable away from any moving or hot components as it will no longer be used. Connect the Bazzaz O2 eliminator to the mating connector on the factory harness. (Photos 19 & 20)



Front Cylinder

Photo 19



Rear Cylinder

Photo 20

8. Reinstall fuel tank and start bike to verify proper installation and system functionality. If any problem is found, please carefully follow through the installation steps again. If problem still persists, please call Bazzaz tech support department at (909) 597-8300. After it is determined that everything is correct reinstall the components removed in step 1.

The Bazzaz Z-Fi controller is capable of storing two maps. These maps can be selected through the use of a map select switch which can be mounted on the handlebar for easy access and can be purchased separately. Or these maps can be selected by connecting or disconnecting the map select jumper supplied with kit. When the map select jumper is connected the control unit is operating using **Map 1 which is the map for the RC8**. When the map select jumper is disconnected the control unit is operating using **Map 2 which is the map for the RC8R**.



**Map 1**



**Map 2**

**\* To create the ideal map(s) we recommend using the optional Z-AFM self-tuning module. \***