



2011-2013 KTM RC8R  
Z-Fi TC / Z-Fi QS Installation Instructions  
P/N S543S, S543R, T543S, T543R

**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

**Parts List:**

Z-Fi TC/QS Control Unit

Fuel Harness

Coil Harness

Shift Switch & Mounting Hardware

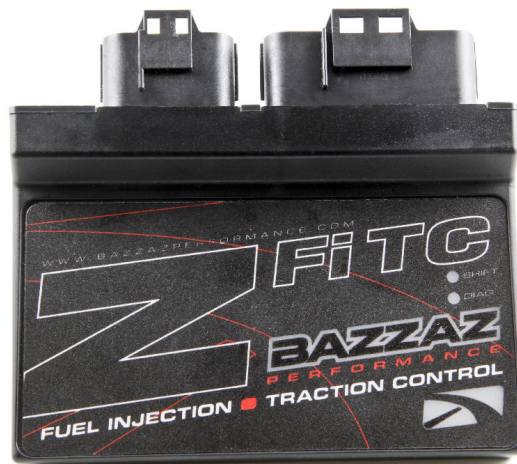
Download Z-Fi Mapper Software and Its Instructions from website

O2 Eliminators (2)

Assorted Cable Ties

USB Cable

Swingarm Stickers

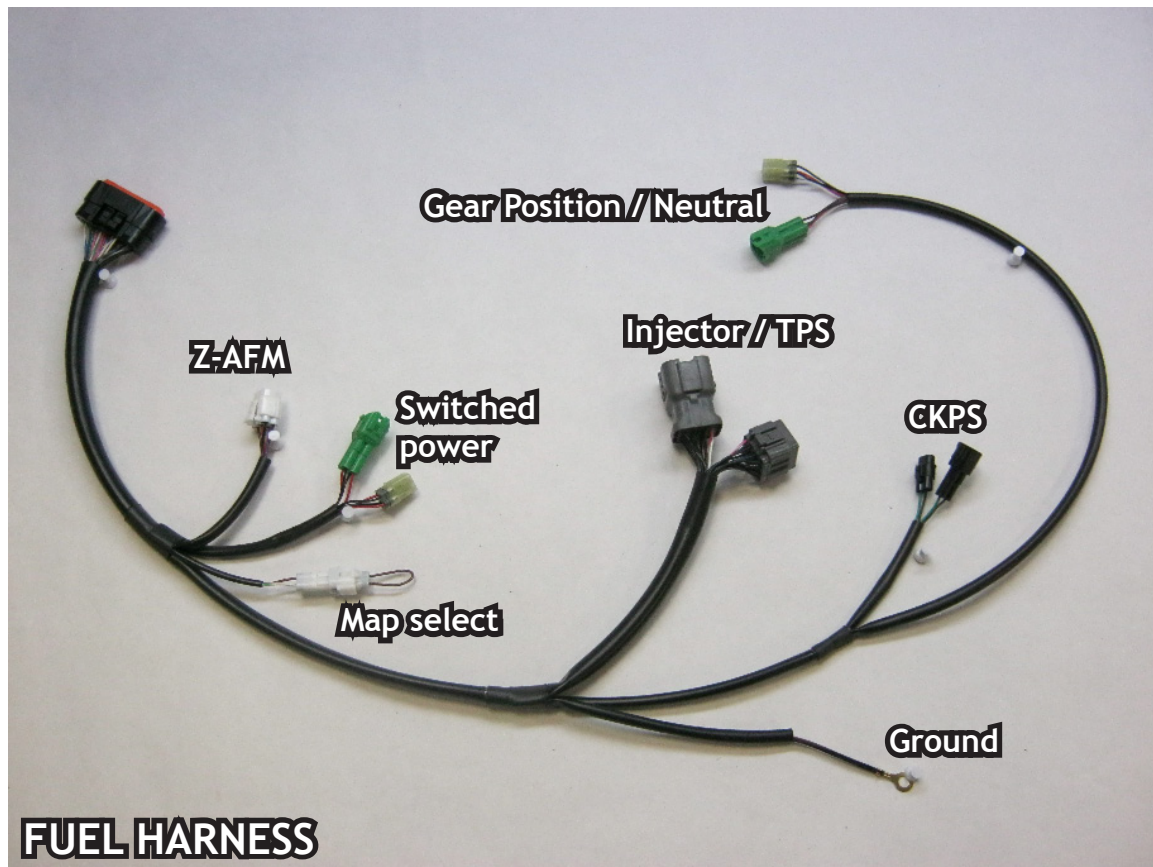
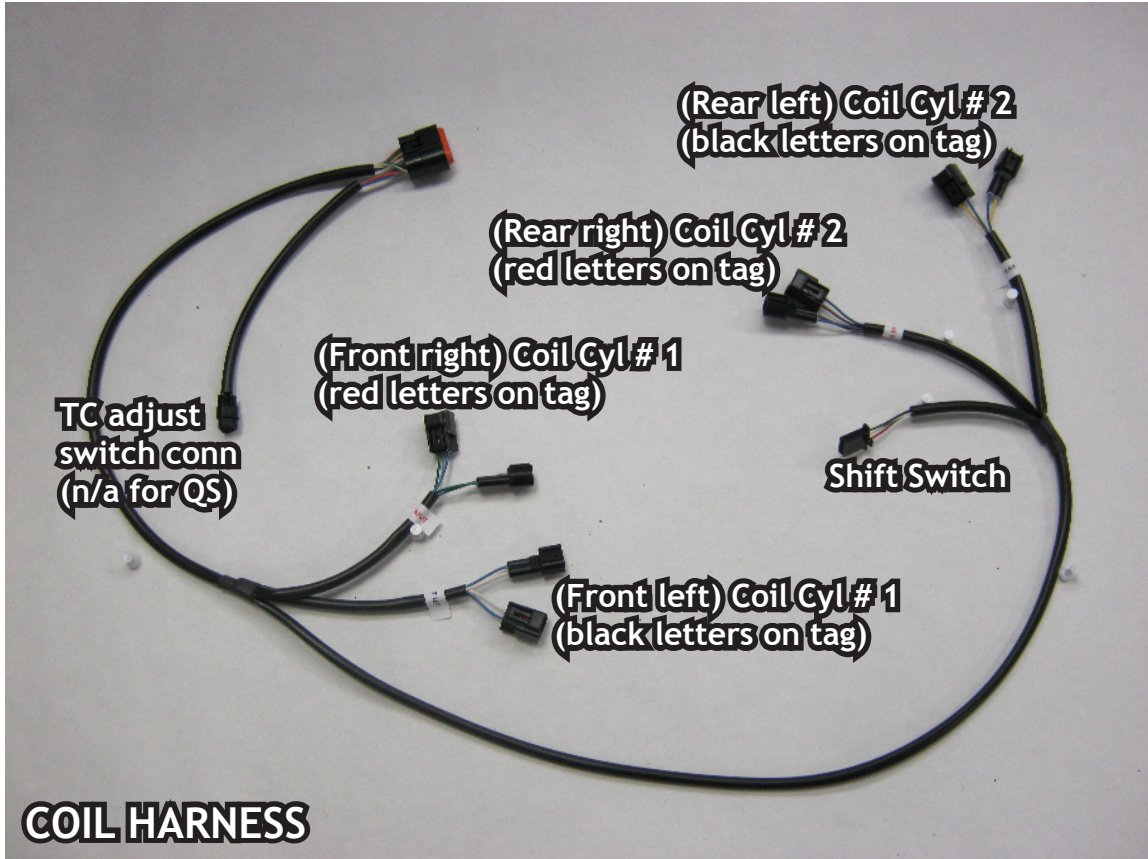


Read through all instructions before beginning installation. This is not a replacement for the ECU. This document is intended for use by qualified technicians. For more specific stock component identification and location information refer to a factory service manual.

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

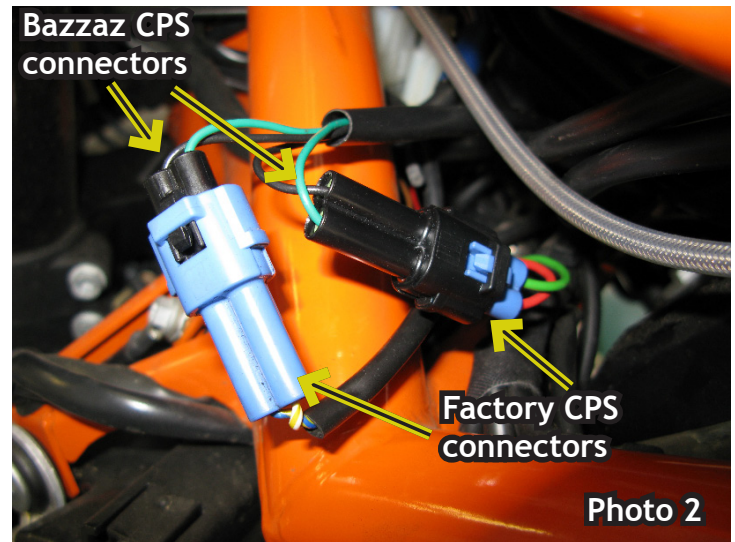
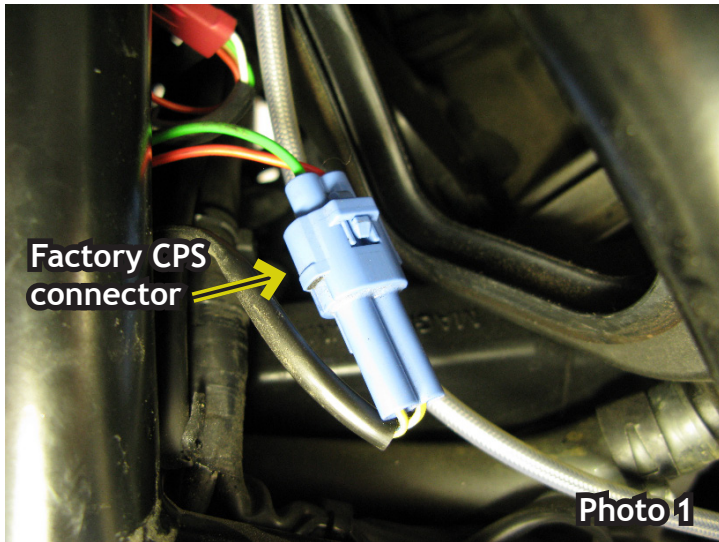
15330 Fairfield Ranch Rd., Unit E, Chino Hills, CA 91709 Phone (909) 597-8300 Fax (909)597-5580  
www.Bazzaz.net

# BAZZAZ HARNESS CONNECTOR IDENTIFICATION

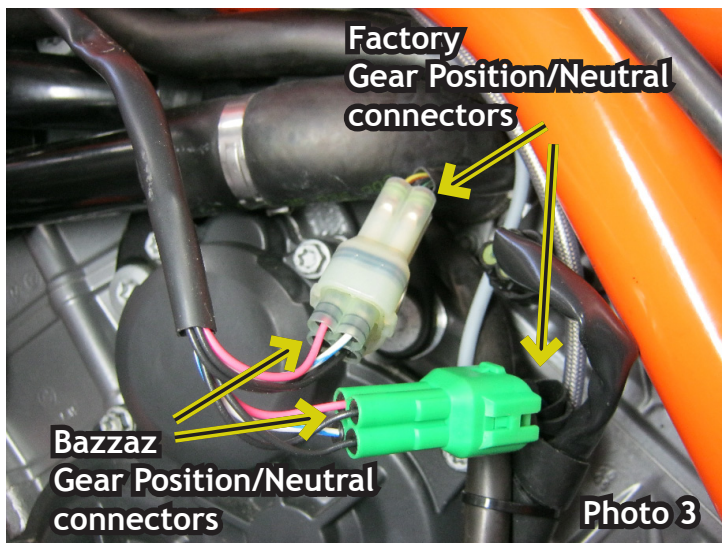


**WE STRONGLY SUGGEST THAT AN EXPERIENCED TECHNICIAN  
INSTALL THIS BAZZAZ PRODUCT**

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 in line (photo 2).

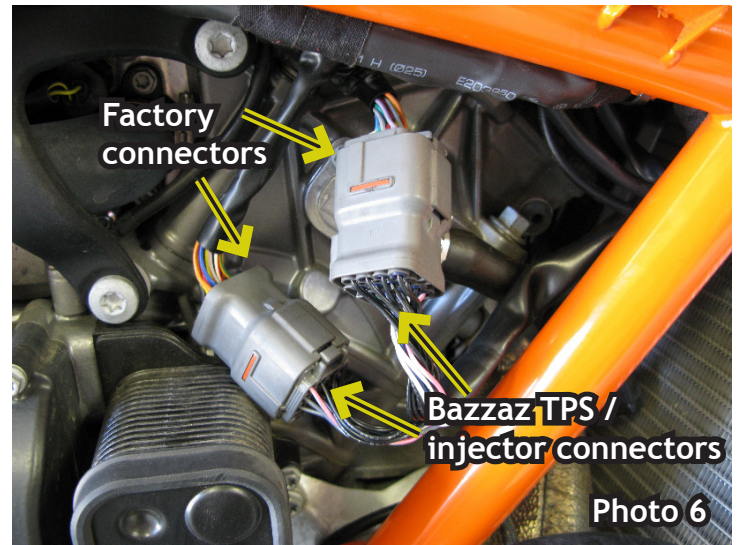


3. Continue to route this portion of the harness toward the rear of the air box inside the frame. Locate the factory gear position sensor connectors found between the frame and rear cylinder (photos 3 & 4). Disconnect the factory connectors and install the mating Bazzaz Gear Position & Neutral connectors in line.

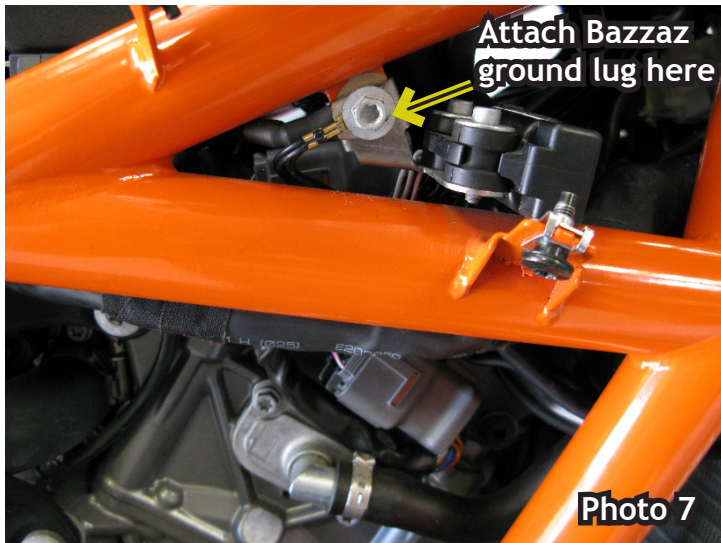


**Factory installed view**

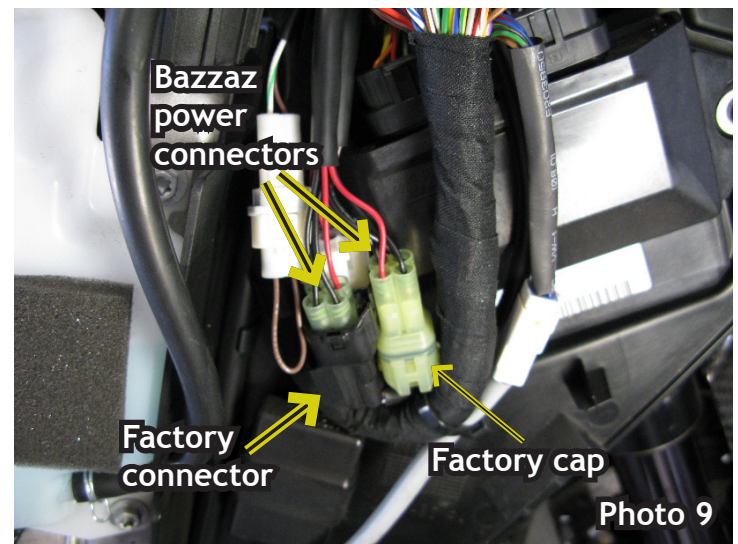
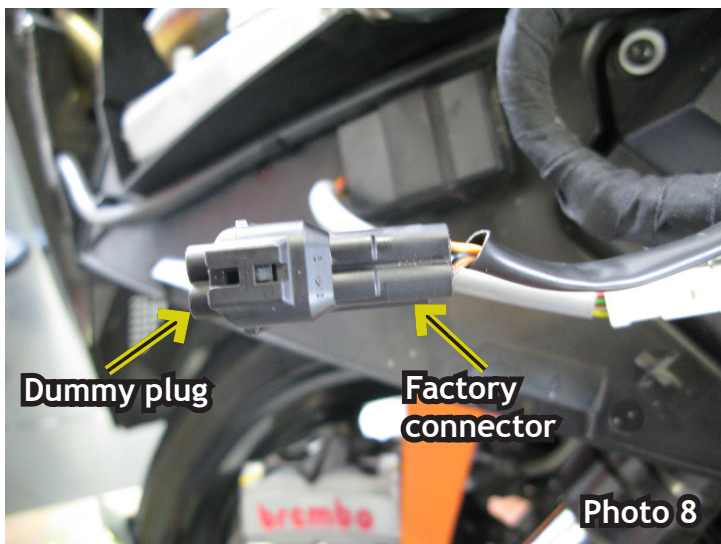
4. On the right side of the motorcycle, locate the factory multi-function 16 pin connector, which is gray in color and found near the front cylinder (photo 5). Disconnect the factory connectors and install the mating Bazzaz throttle position & injector connectors in line (photo 6).



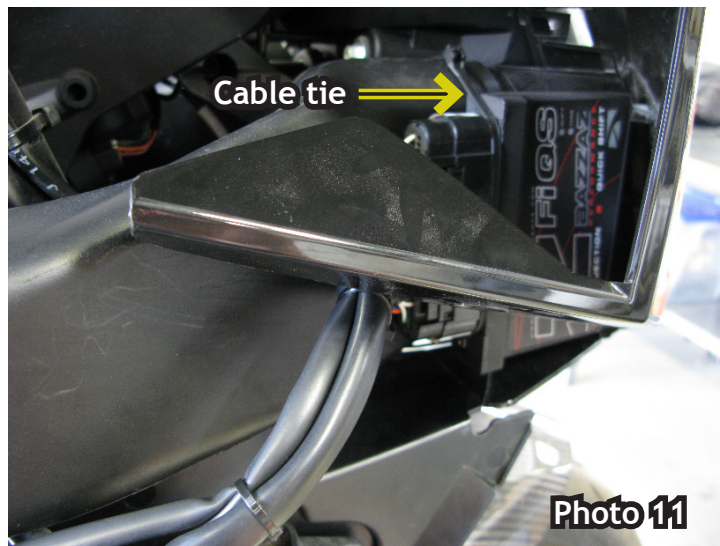
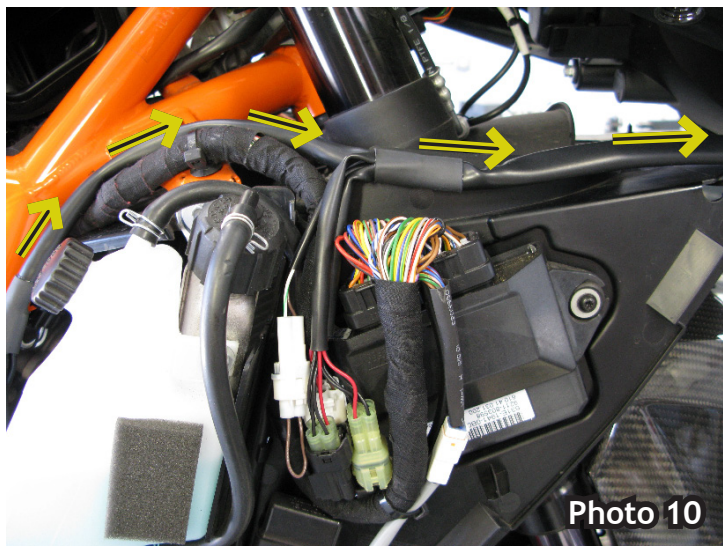
5. Above the factory 16 pin multi-function connector you will find a chassis ground location on the frame. Remove the factory bolt, install the Bazzaz harness ground lug then reinstall the factory bolt (see Factory service manual for torque specs) (photo 7).



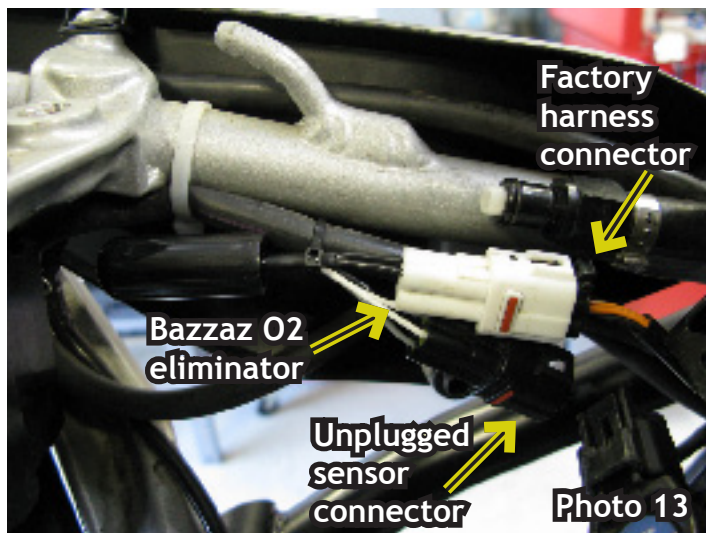
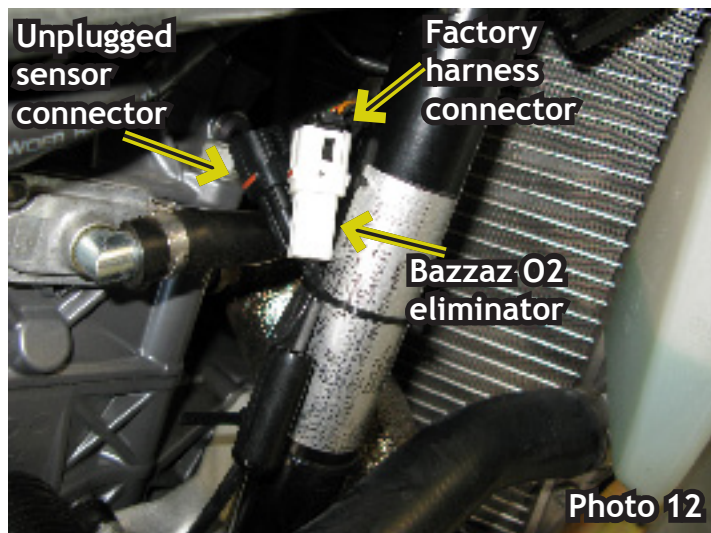
6. Near the factory ECU there is a black four pin connector with a dummy plug inserted into it on the factory harness. Remove the dummy plug and connect the mating Bazzaz power connector into this factory connector and insert the dummy plug into the remaining mating Bazzaz power connector (photos 8 & 9).



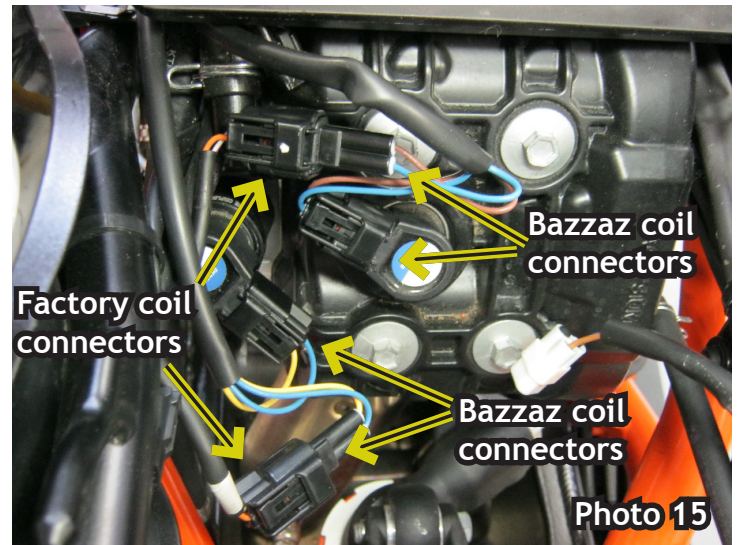
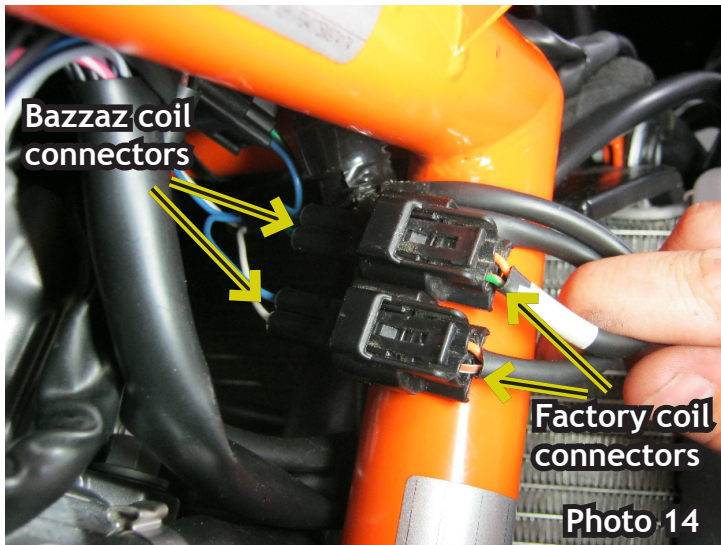
Prior to reinstalling the right side air inlet duct, route the remainder of the Bazzaz harness containing the control module connector toward the front of the motorcycle into the nose fairing (photo 10). Connect mating Bazzaz harness connectors to the control unit. Reinstall the right air inlet duct 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 11).



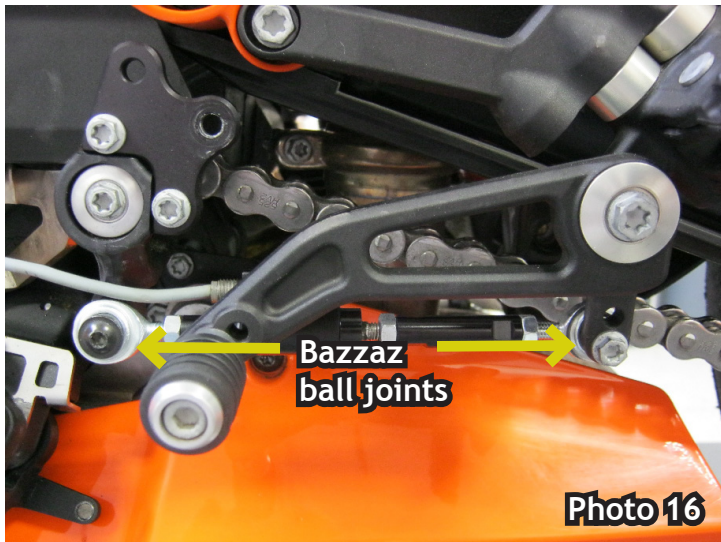
The KTM RC8 is equipped with an O2 sensor for each cylinder. To achieve maximum performance for racing purposes and to maintain accurate fuel delivery using the Bazzaz control module, the two factory sensors must be bypassed using the O2 eliminators provided with the kit. For each cylinder, locate the 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 12 & 13). Attach the O2 eliminator ground lug to a good chassis ground.



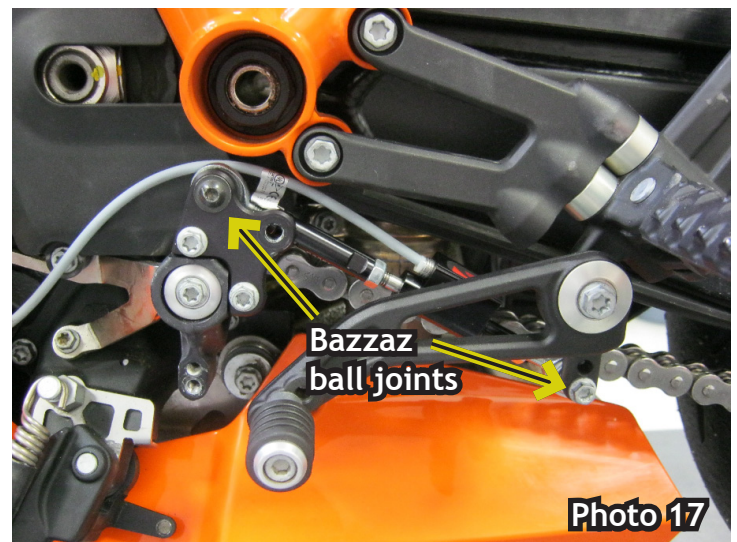
7. Now that the installation of the fuel harness is complete, route the Bazzaz coil harness in front of the air box (similar to that of the Bazzaz fuel harness). Remove the factory harness coil connector from the front left coil of the front cylinder and connect the Bazzaz coil harness with the **white wire** inline. Then remove the front right coil connector of the front cylinder and connect the Bazzaz coil harness with the **green wire** inline (photo 14). Continue to route the remainder of the Bazzaz coil harness on the left side of the motorcycle along the inside of the frame. Once again, disconnect the factory harness from the ignition coil of the rear cylinder on the left side and connect the Bazzaz coil harness with the **yellow wire** inline. Then remove the rear cylinder right coil connector and connect the Bazzaz coil harness with the **brown wire** inline (photo 15).



8. Use the supplied shift rod in the kit (Note: you may have to cut the rod to fit in line with the shift switch). You will need to remove factory ball joints and use the ball joints provided in the kit (photos 16 & 17).



**Standard Shift**



**Reverse Shift**

9. 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. When the map select jumper is disconnected the control unit is operating using Map 2.*

