



2011-2013 Ducati Diavel
Z-Fi TC Installation Instructions
P/N T120

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 Eliminator (2)

Scotchlok (2)

Cable Ties

USB Cable

Velcro

Swingarm Stickers

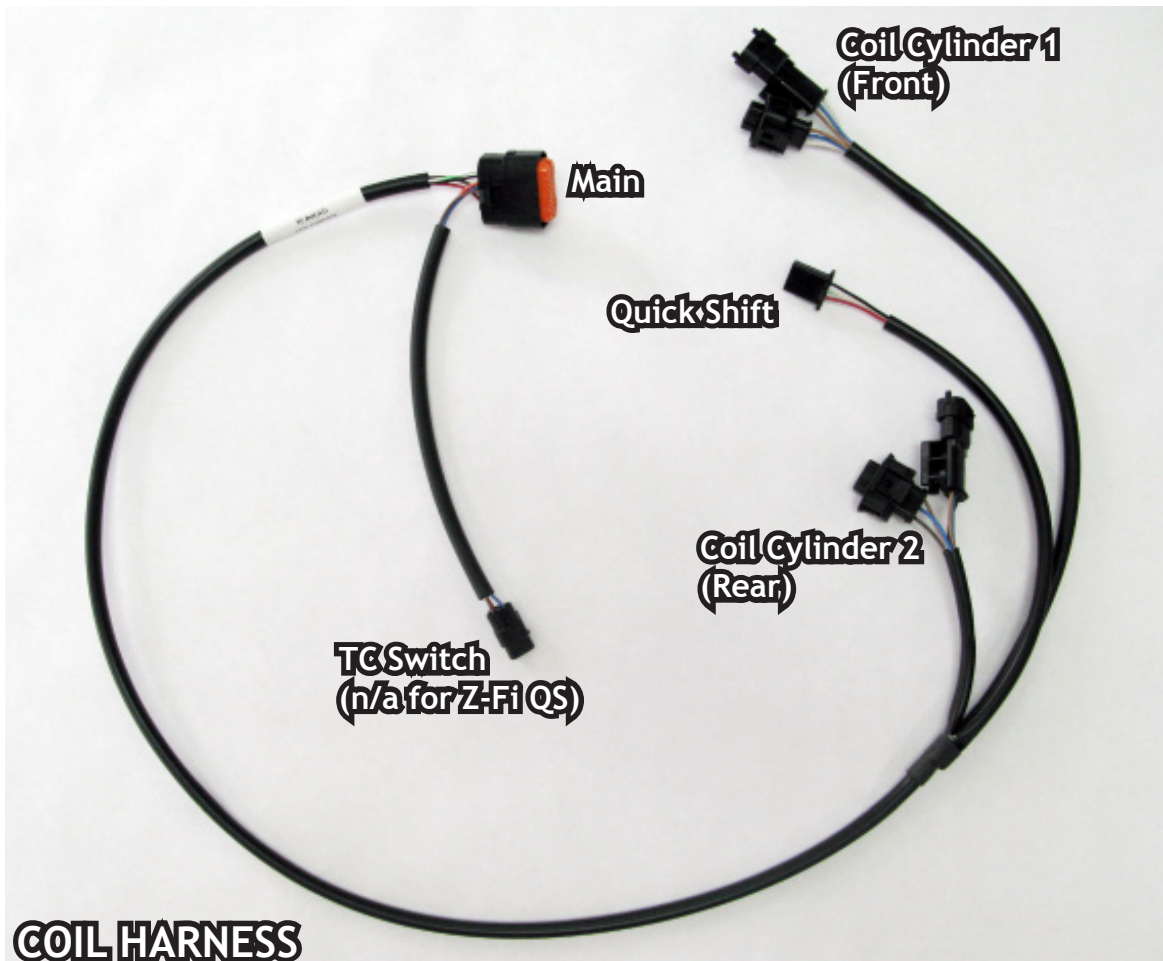
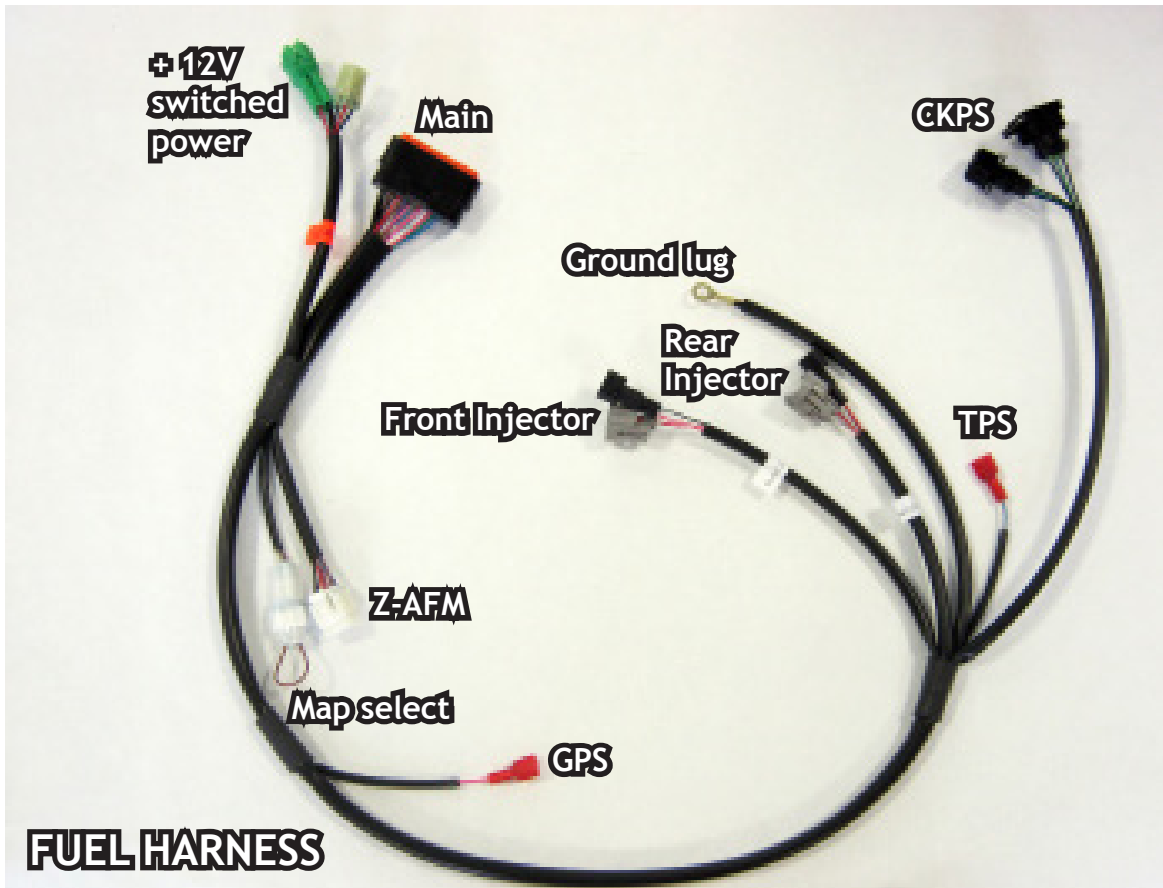


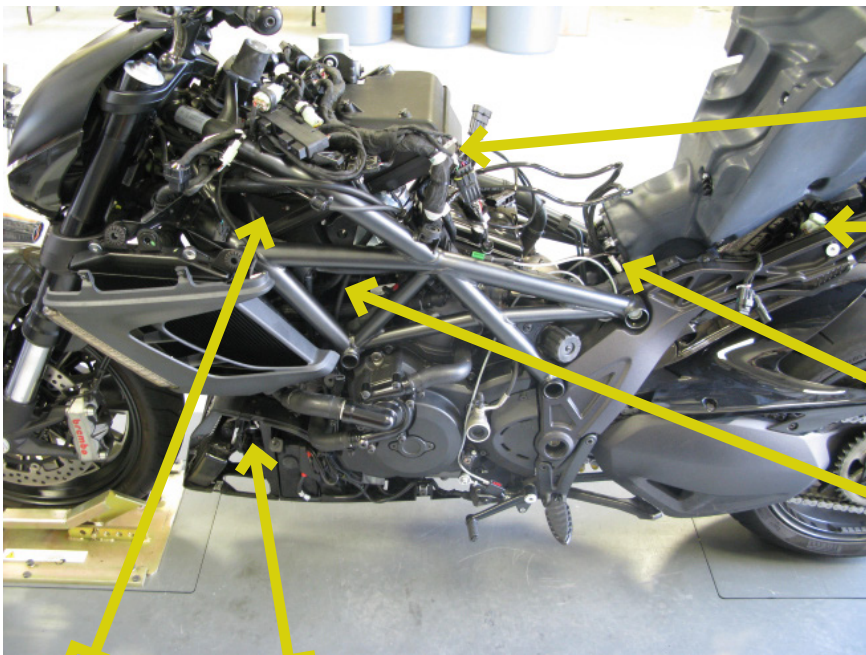
Read through all instructions before beginning installation. This is not a replacement for the ECU. This document is intended for use by qualified technicians. For more specific stock component identification and location information refer to a factory service manual.

To create the ideal map(s) we recommend using the optional 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





Rear coil & O2

+12V Switched Power

GPS

TPS

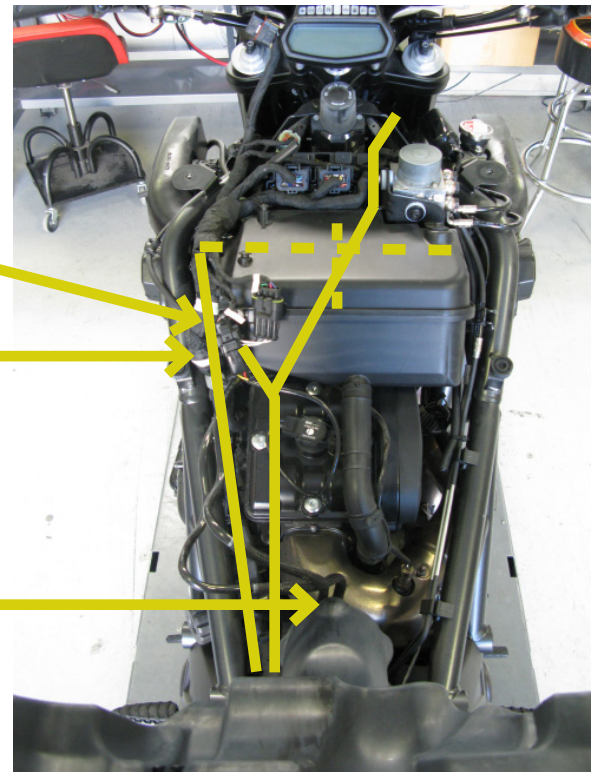
Injectors

Front O2



Front coil

CKPS



TPS

Ground Lug

GPS

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

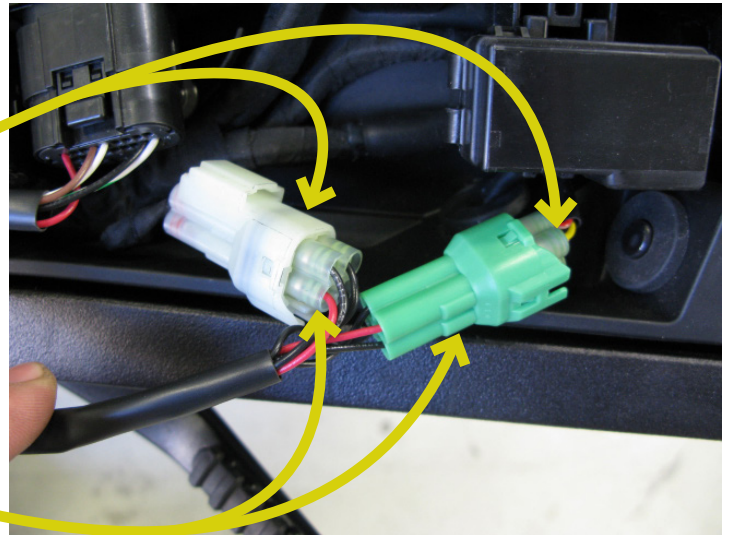
1. Begin the installation by removing the seat, all side panels, dash, tank cover, and tail tray. Unbolt the tank so it can be lifted up. Remove the air intake tubes on each side of the airbox. Next remove the outer and inner shrouds for the right side radiator.
2. You will need to unbolt everything on top of the airbox so it can shift backward. Next loosen both hose clamps on the intake boots and pull the airbox up and back so it is loose (it is still connected to the throttle cables so it cannot be removed completely).
3. Mount the control unit in the tail section of the motorcycle and connect the fuel harness main connector to it. Route the fuel harness under the left rear corner of the fuel tank.



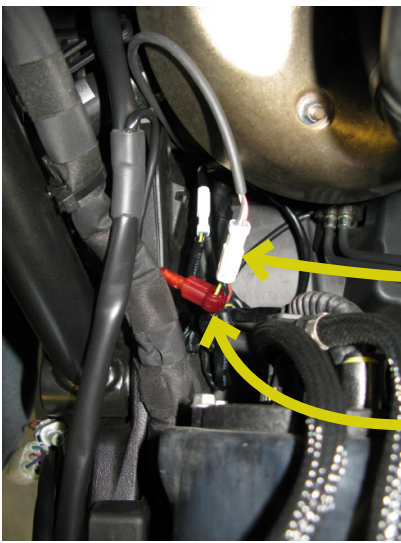
4. Locate the tail light (clear connector) on the left side of the tail tray; disconnect this connector and plug the Bazzaz +12V switched power (orange label on lead) connectors in line between the two factory connectors.

factory
tail light
connectors

Bazzaz + 12V
switched power
connectors



5. Locate the GPS (Gear Position Sensor) connector (small white three pin connector) near the bottom of the tank, behind the rear exhaust. Trim the wire sheathing back and crimp a supplied scotchlok onto the **yellow/green** wire of the factory GPS connector. Now insert the Bazzaz GPS connector (red connector with pink wire) into the scotchlok.

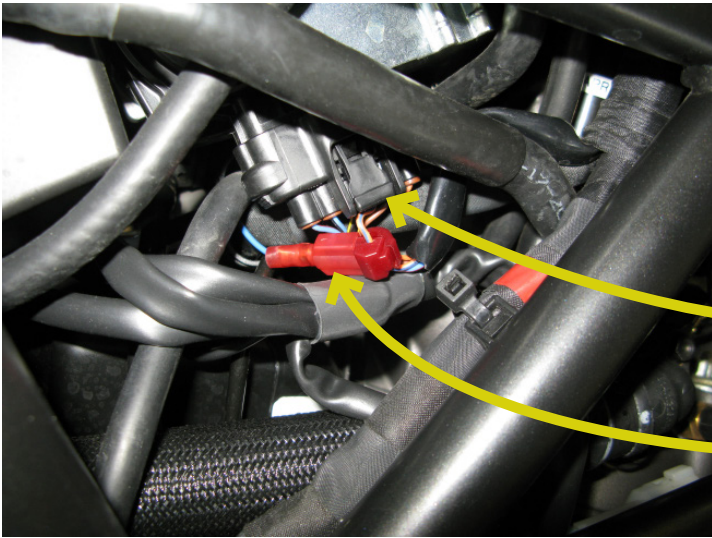


factory GPS connector

Bazzaz GPS connector

6. Continue routing the fuel harness and following along with the factory harness down the left side of the motorcycle.

7. Locate the TPS (Throttle Position Sensor) connector (large black six pin connector) plugged into the rear cylinder throttle body. Trim back the wire sheathing and crimp a supplied scotchlok onto the **orange/blue** wire of this factory connector. Then insert the Bazzaz TPS connector (red connector with blue wire) into the scotchlok.

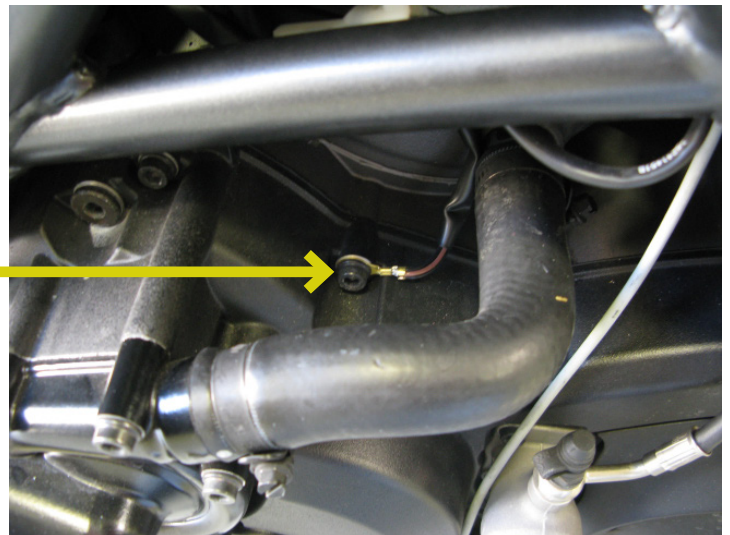


factory TPS connector

Bazzaz TPS connector

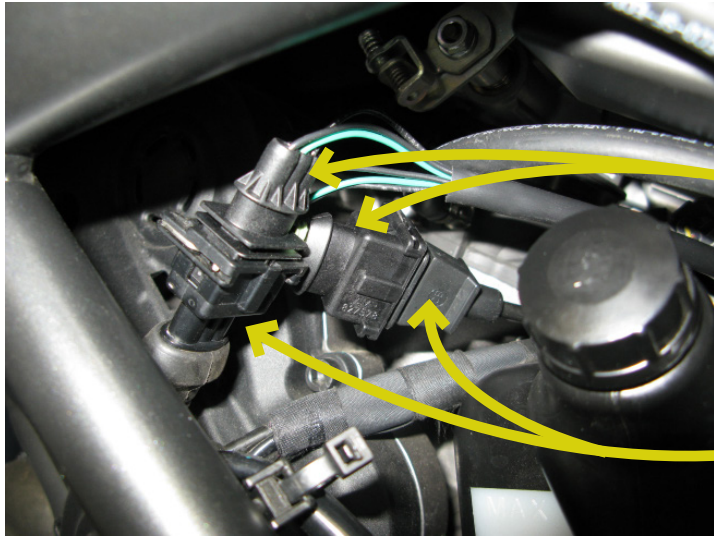
8. Find a suitable engine case bolt to secure the Bazzaz ground lug to.

Bazzaz ground lug



9. The remainder of the fuel harness now gets routed between the two cylinders, under the airbox.

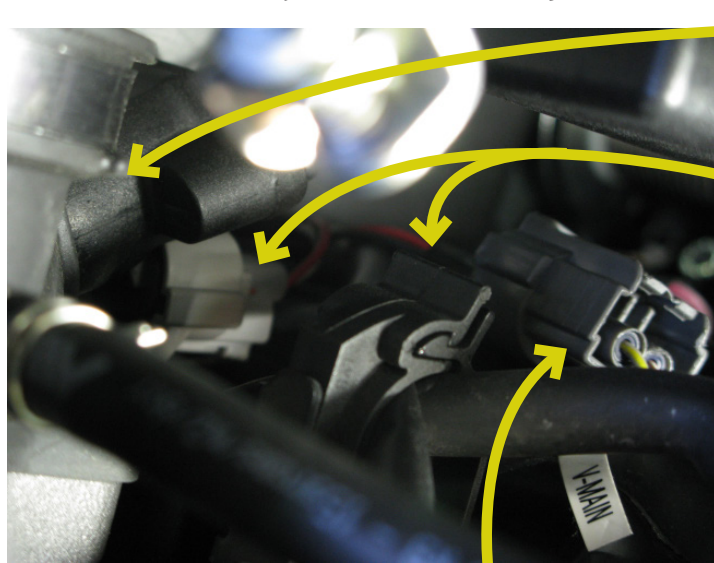
10. Locate the factory CKPS (Crank Position Sensor) connector, on the right side of the bike under the rear of the airbox, and disconnect. Pull the Bazzaz CKPS connector through from the other side and connect the Bazzaz connectors in line between the factory connectors.



Bazzaz CKPS connectors

factory CKPS connectors

11. Now locate the factory injector & connectors on the inside of each throttle body; disconnect each of the factory connectors and plug the corresponding Bazzaz connectors (labeled “front” and “rear”) in line between the factory connector and injector.



Injector

Bazzaz rear injector connectors

Rear

factory rear injector connector



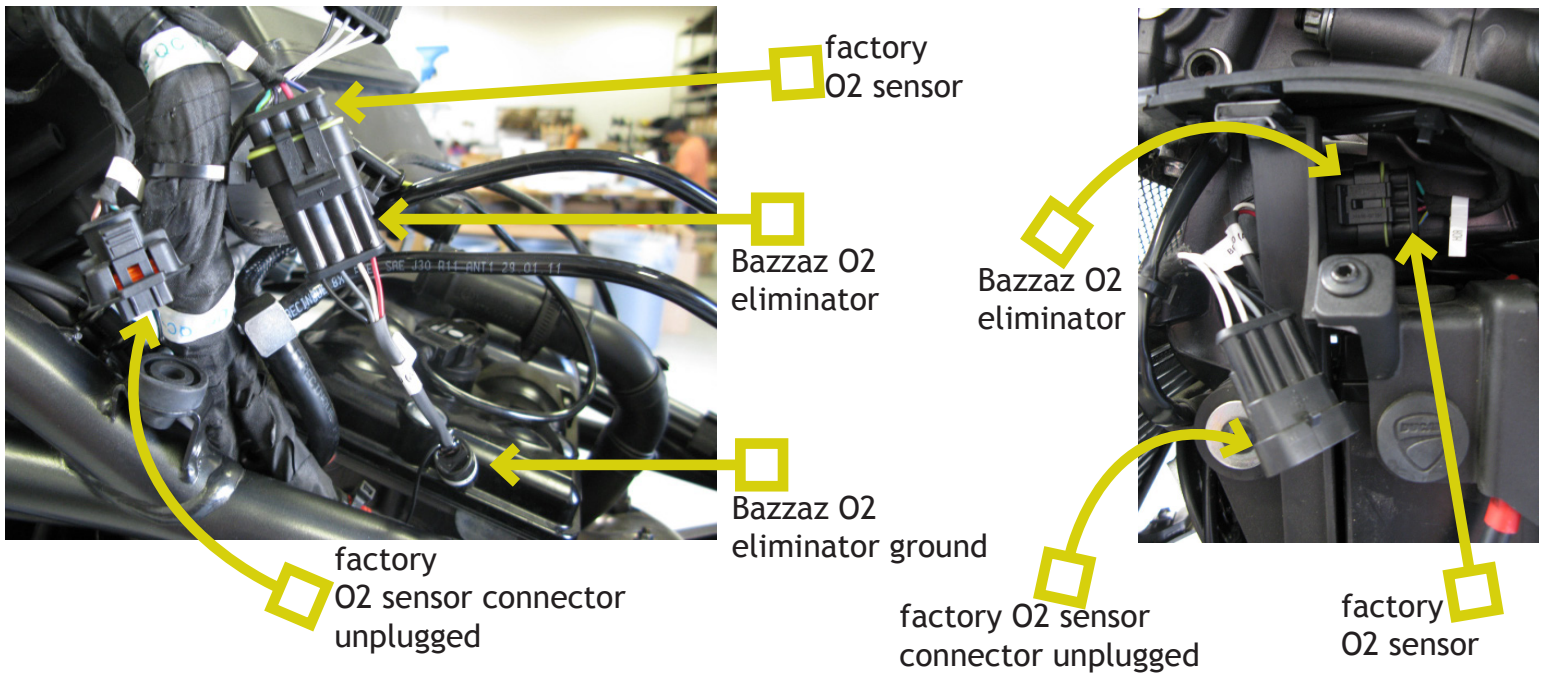
Bazzaz front injector connectors

factory front injector connector

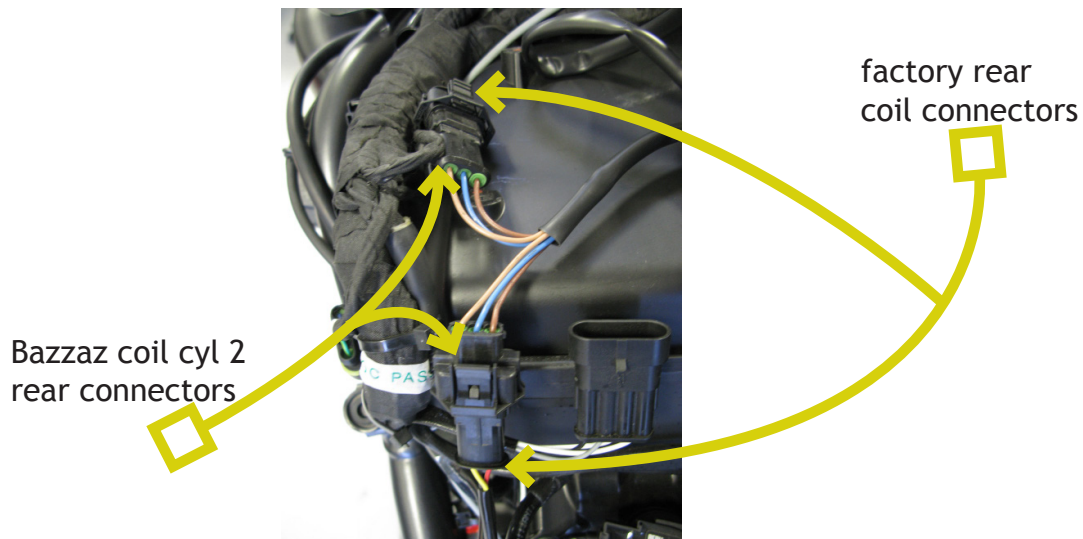
Front

12. The Diavel is equipped with two O2 sensors. These sensors must be bypassed through the use of O2 eliminators supplied with the kit. Disconnect the factory sensor connectors from each sensor. Install the Bazzaz O2 eliminators in place of the factory sensor connectors and attach the O2 eliminator ground lugs to a chassis ground. Be sure to secure the Bazzaz eliminators and factory sensor connectors away from any hot or moving components which could cause damage to the components.

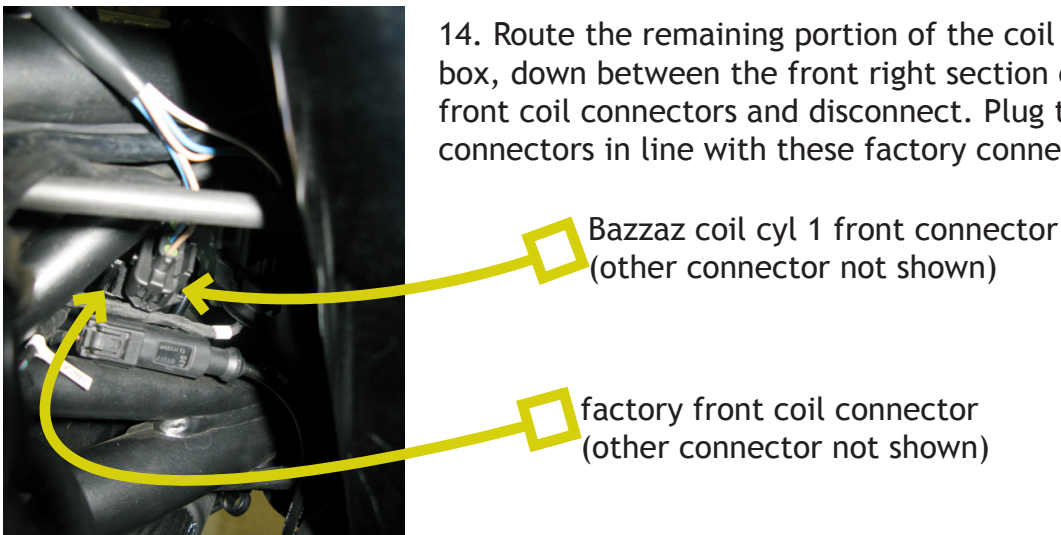
Note: The rear sensor is located on the rear of the airbox next to the rear coil connector, and the front sensor is located down in the chin fairing, in front of the battery (this one will need to be grounded to the negative terminal of the battery).



13. Now connect the coil harness main connector to the Bazzaz control unit. Route the coil harness following along with the Bazzaz fuel harness and then to the factory rear coil connectors on the rear of the airbox. Disconnect the factory rear coil connectors and plug the Bazzaz coil cylinder 2 rear connectors in line with the factory connectors.



14. Route the remaining portion of the coil harness over the top of the airbox, down between the front right section of the frame. Locate the factory front coil connectors and disconnect. Plug the Bazzaz coil cylinder 1 front connectors in line with these factory connectors as well.



15. Now you will begin the installation of the shift switch. Remove the stock shift rod and the heim joint attached to the shift lever. Screw the shift switch into the factory heim joint on the upper shift linkage, then screw the supplied heim joint onto the shift switch to the desired length. Last, secure the heim joint to the shift rod then secure all 10mm nuts. Route the shift switch connector up to the mating connector on the Bazzaz coil harness.

Secure excess shift switch cable away from moving parts.



16. To complete the installation, use the supplied cable ties to secure the Bazzaz and factory harnesses neatly along its routing path free of any moving or hot components (which could cause damage or failure of the system). 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 one and the installation will be complete.

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](#).

