



2006-2012 KTM 990 Super Duke R
2006-2012 KTM 990 Super Duke
Z-Fi MX Installation Instructions
P/N F590

WARNING!

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

Parts List:

Z-Fi MX Control Unit
Fuel Harness
Download Z-Fi Mapper Software & it's Instructions from Website
USB Cable
Scotchlok (7)
Small Cable Ties
Velcro Patch
Stickers

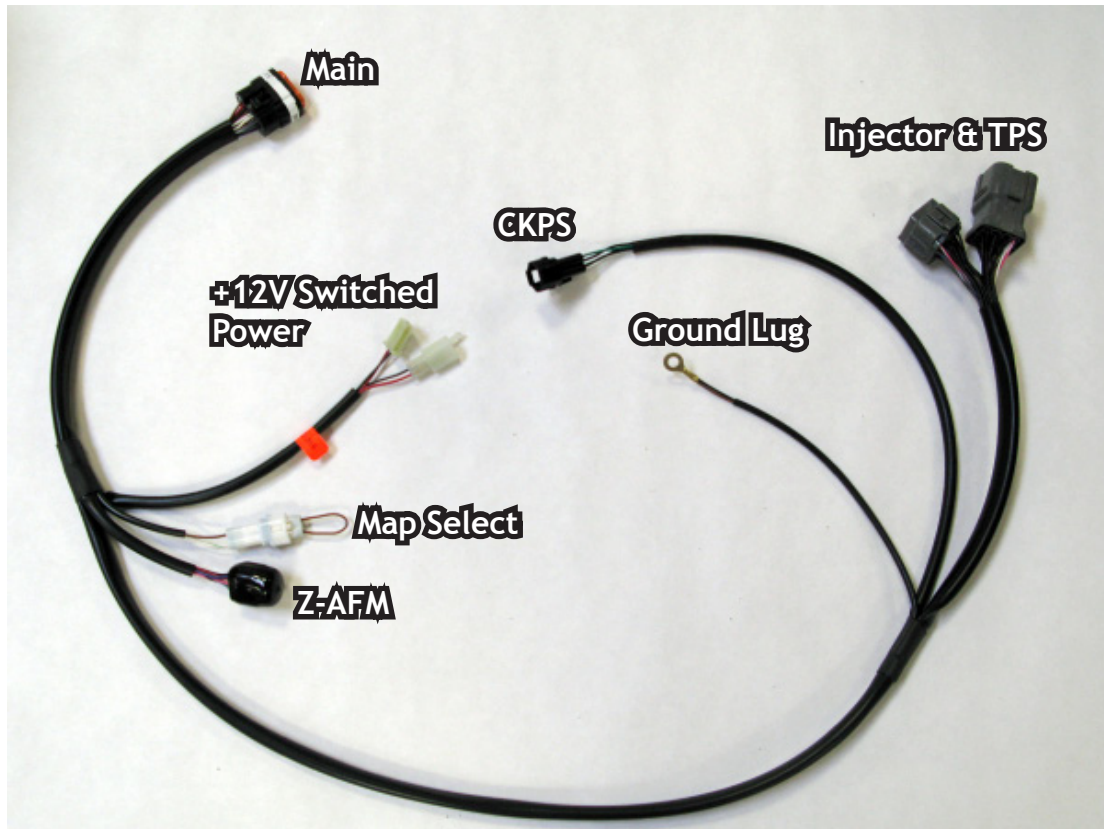
Upon installing the system verify you have selected the proper map that corresponds to your model.
The control unit supplied with this kit has been pre-programmed with two fuel maps.
Map 1 is intended for use with the 990 Superduke R. Map 2 is for use with the 990 Superduke.



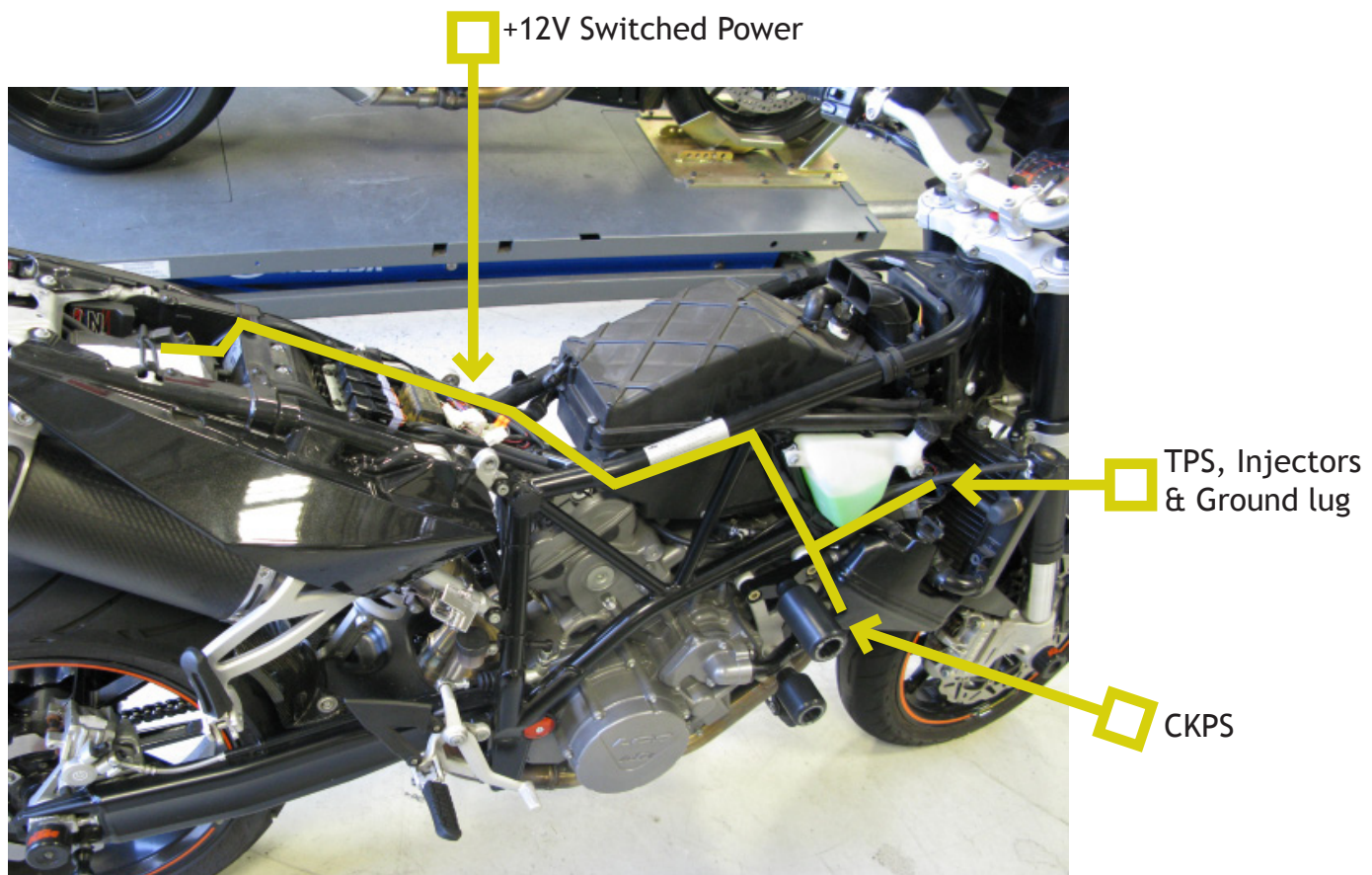
Read through all instructions before beginning installation. This is not a replacement for the ECU. This document is intended for use by qualified technicians. For more specific stock component identification and location information refer to a factory service manual.

To create the ideal map(s) we recommend using the optimal Z-AFM self-tuning module and eliminate the secondary air valve with the KTM Bazzaz eliminator kit.

BAZZAZ HARNESS CONNECTOR IDENTIFICATION

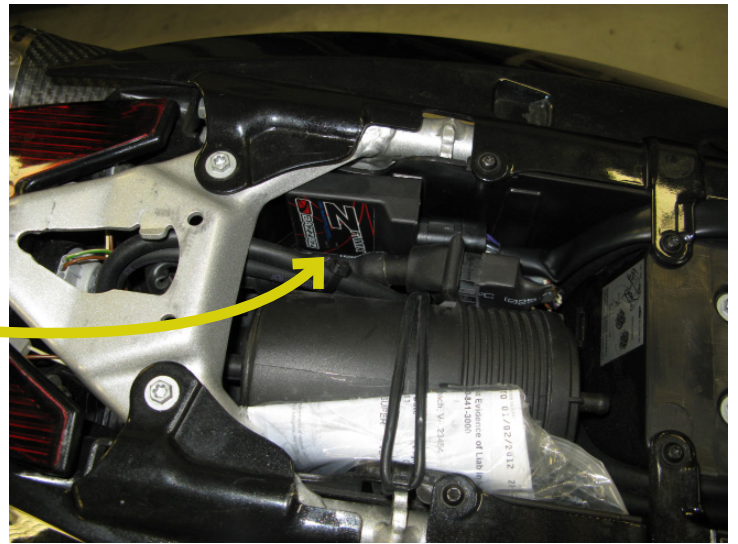


1. Start by removing the seat, gas tank shrouds, gas tank, and the battery cover.

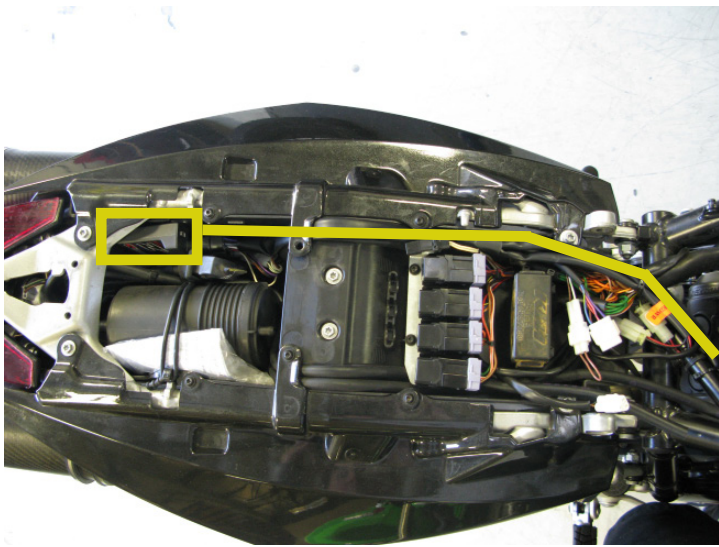


2. Mount the Bazzaz control unit in the tail section of the bike next to the charcoal canister, using the supplied Velcro patch.

Bazzaz control unit

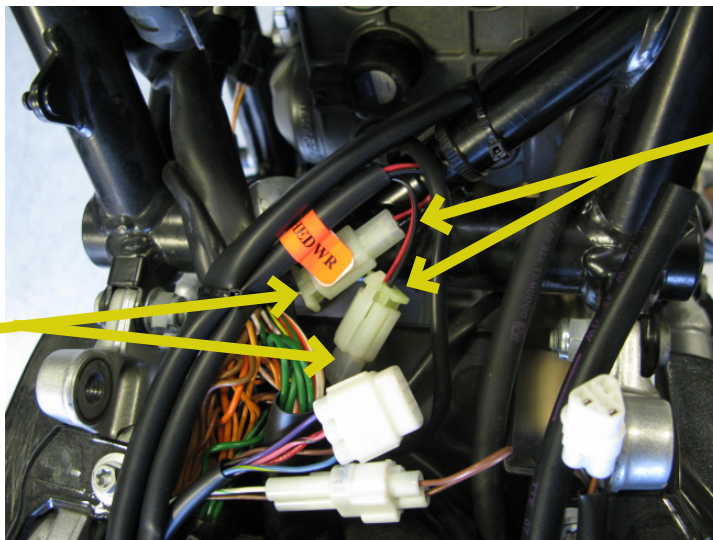


3. Plug the main connector from the fuel harness to the control unit and route the harness on the left side of the bike following the taillight harness.



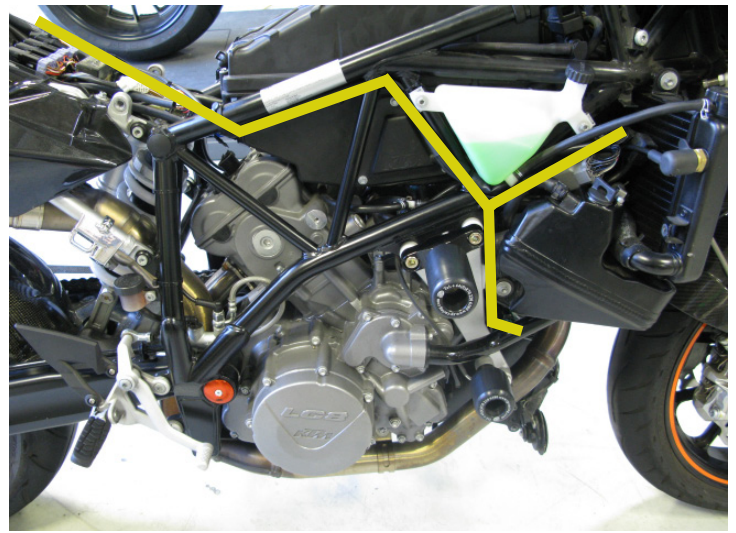
4. Locate the rear brake pedal switch connectors, just in front of the fuse box, under the factory harness. Disconnect and plug the Bazzaz +12V Switched Power (labeled with orange tag on harness) in line with the factory connectors.

Factory rear
brake pedal switch
connectors



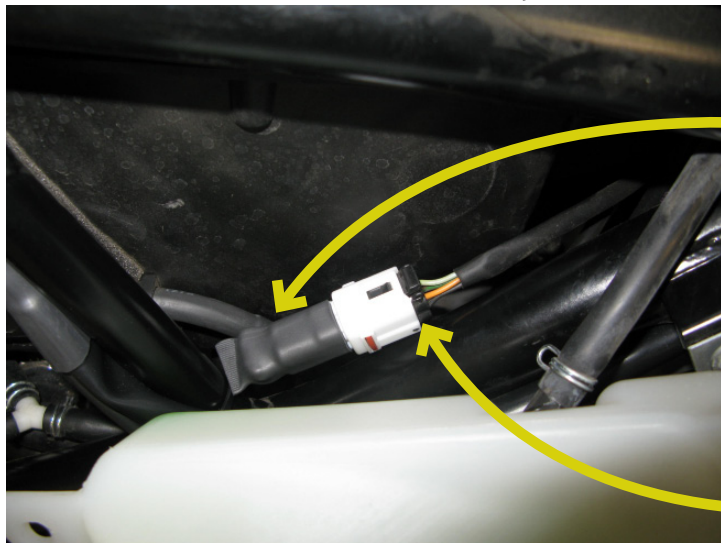
Bazzaz +12V Switched
Power connectors

5. Route the remainder of the harness on the right side of the air box along the top frame rail.



6. Remove the two 8mm bolts that hold the overflow tank and move it off to the side. Now you can access the factory O2 sensor for the front cylinder. Disconnect the factory O2 sensor connector and plug the Bazzaz O2 eliminator into the factory sensor. Move to the other side of the bike and locate the factory O2 sensor for the rear cylinder located under the battery tray. Disconnect the factory O2 sensor connector and plug the Bazzaz O2 eliminator into the factory sensor. The factory sensor connectors will remain unplugged so be sure to secure them away from any hot or moving components.

Front Cylinder



Bazzaz O2
eliminator

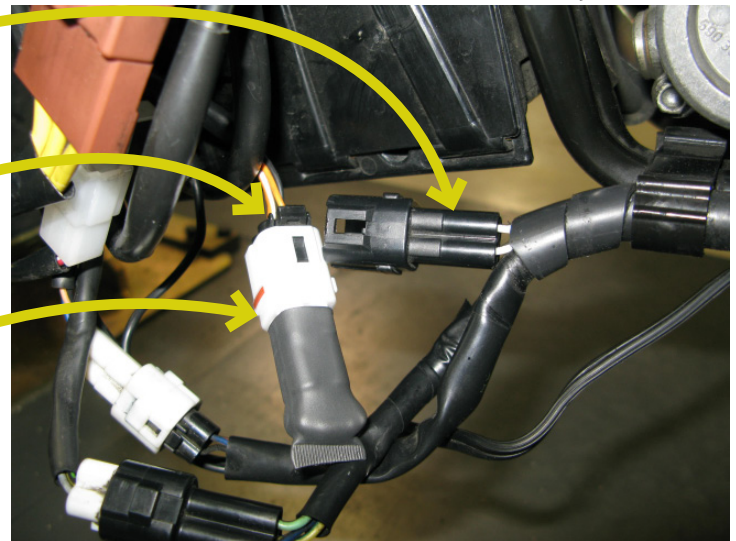
factory O2
sensor

Rear Cylinder

factory O2 sensor
connector

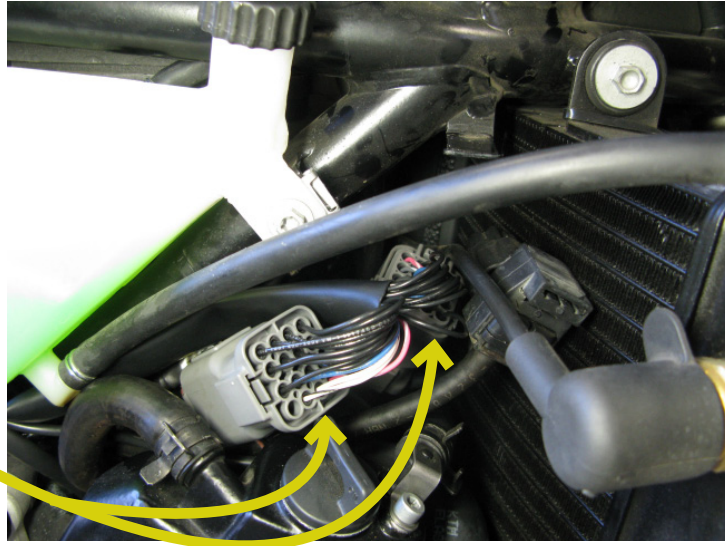
factory O2
sensor

Bazzaz O2
eliminator



7. Next route the portion of the fuel harness with the TPS & Injector connectors along the lower frame rail. Locate the factory TPS & Injector connector (large gray connector), right above the oil filler cap. There is a tab on the frame which is used to secure the factory connector. Remove the factory connector from the tab and connect the Bazzaz TPS & Injector connectors inline with the factory connectors. Place the connector back on the tab of the frame.

Bazzaz TPS
& Injector connectors



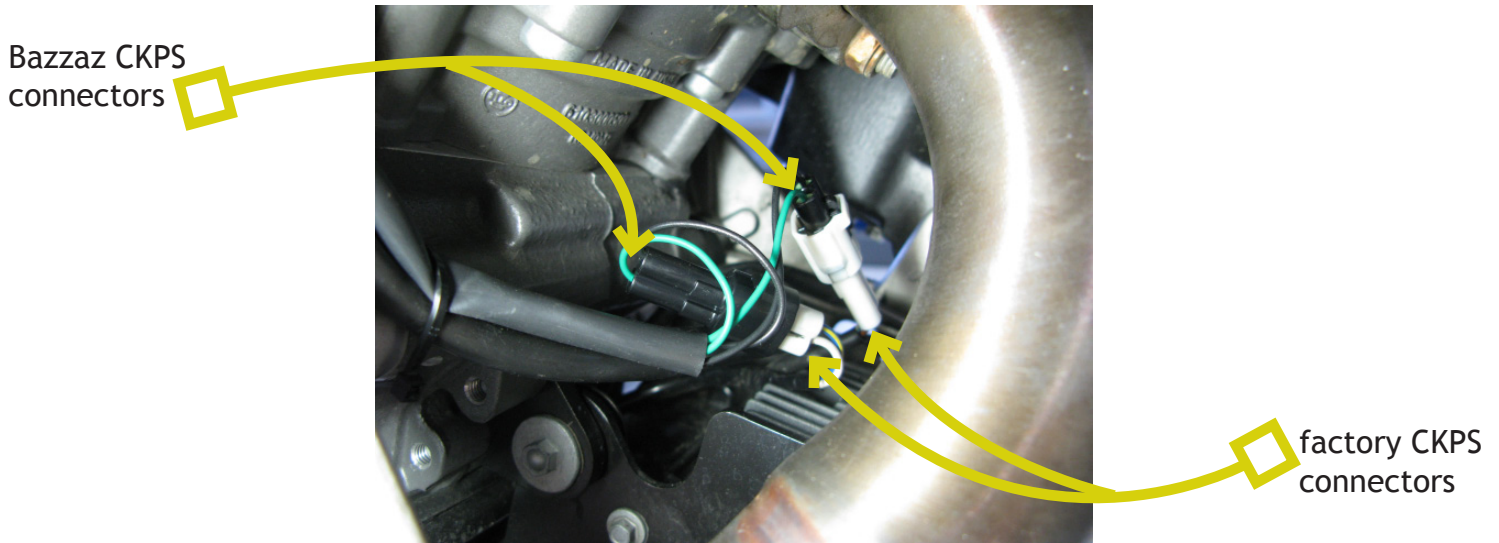
Factory TPS
& Injector connectors
cannot be seen in photo



8. While in this area of the bike attach the Bazzaz ground to the 8mm bolt located next to the large grey connectors.

Bazzaz ground

9. Route the remainder of the Bazzaz fuel harness down and locate the factory CKPS (crank position sensor) found right above the regulator rectifier in the front of the bike. Disconnect the factory connectors and then plug the Bazzaz CKPS connectors in line with the factory connectors.



10. To complete the installation, use the supplied cable ties to secure the Bazzaz and factory harness 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 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 all the components removed in step one and the installation will be complete.

The Bazzaz 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 the 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.

Upon installing the system verify you have selected the proper map that corresponds to your model.

The control unit supplied with this kit has been pre-programmed with two fuel maps.

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