2008-2013 G450X Z-Fi MX

INSTALLATION INSTRUCTIONS
P/N F530

<div style="border: 2px solid red;">

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

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PARTS LIST:
Z-Fi MX Control Unit
Fuel Harness
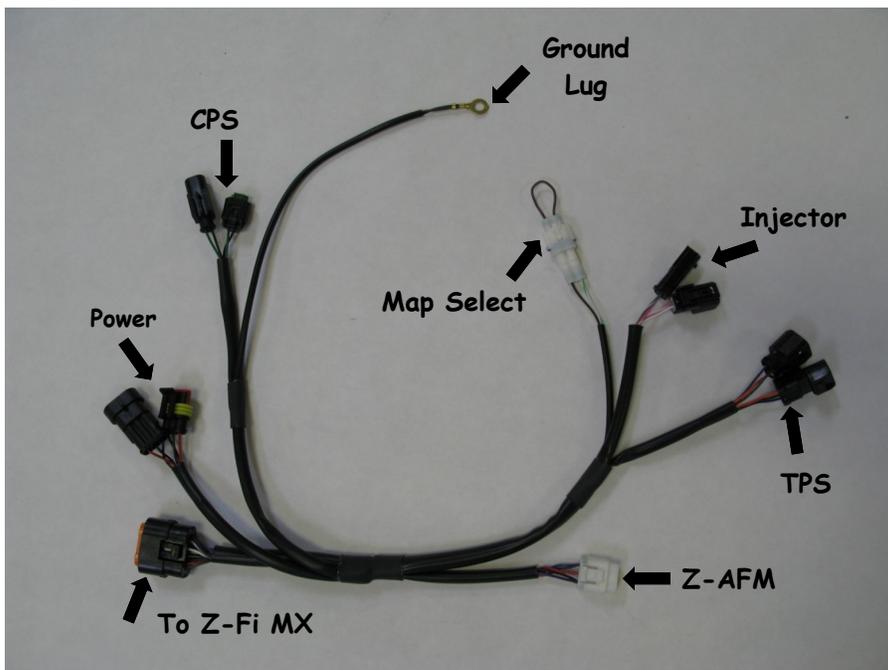DOWNLOAD Z-FI MAPPER SOFTWARE & ITS INSTRUCTIONS FROM WEBSITE
USB Cable
Velcro (2)
Bazzaz stickers
Cable ties

Read through all instructions before beginning installation.
This is not a replacement for the ECU.

1. Begin the installation by removing the seat, front tank cover panel and both the left and right side radiator shroud panels. Next remove the two mounting bolts and cable ties securing the factory ECU cover panel to the frame; move aside and begin to route and connect the Bazzaz harness.

2. Located directly under the ECU cover panel you will find the BMW speed sensor connector on the factory harness. Bazzaz uses this area of the factory harness for a 12 volt power source. Disconnect the two factory connectors and connect the mating Bazzaz power connectors in line with the factory speed sensor connectors. (Photos 1&2)
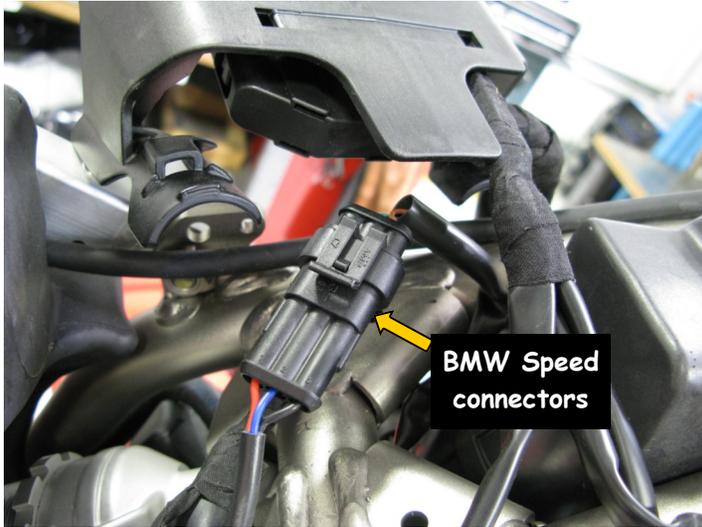

BMW Speed connectors
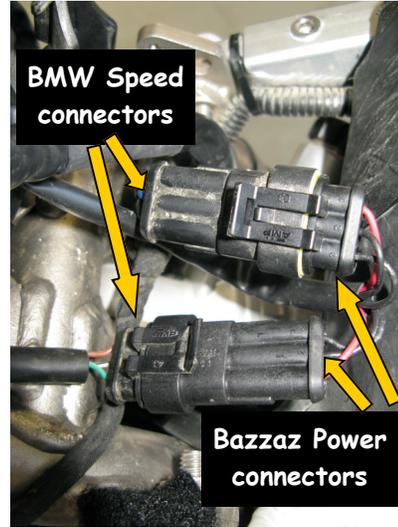
Photo 1

BMW Speed connectors

Bazzaz Power connectors

Photo 2

3. Route the portion of the Bazzaz harness containing the crank position connector and ground lug on the left side of bike, following the factory harness routing. On the portion of the factory harness secured by a mounting tab on the left side of the air box, locate the factory crank position connectors and connect the mating Bazzaz connectors in line. (Photo 3)

Factory harness mounting tab

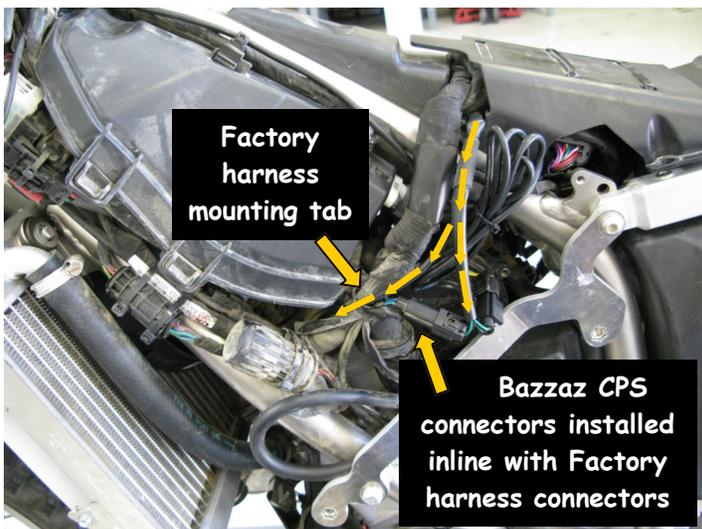Bazzaz CPS connectors installed inline with Factory harness connectors

Photo 3

4. On the left side of the cylinder head you will find an 8mm bolt used to secure the factory ignition coil ground lug to the cylinder head. Remove the bolt and install the Bazzaz harness ground lug along with the factory ground lug and reinstall the 8mm bolt. (See factory service manual for torque specs) (Photo 4)
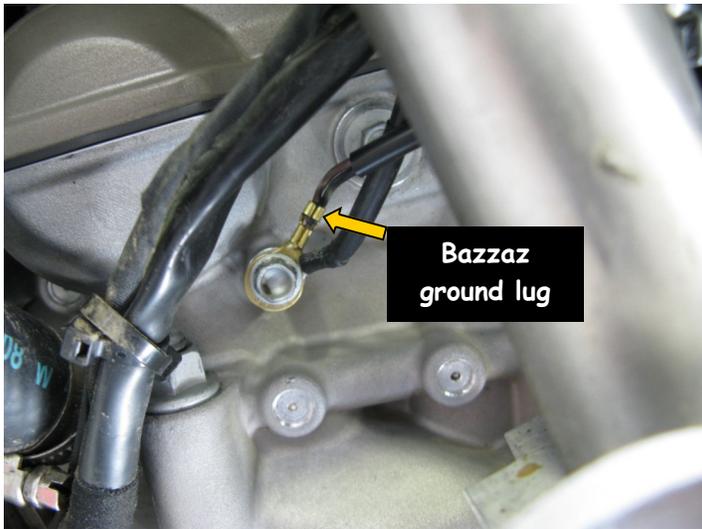

Photo 4

5. Route the remainder of the Bazzaz harness on the right side of the bike. Locate the fuel injector which can be found at the rear of the throttle body positioned just under the shock's top mounting location on the frame. Disconnect the factory harness injector connector and install the mating Bazzaz harness injector connectors in line with the injector and factory harness. (Photo 5)
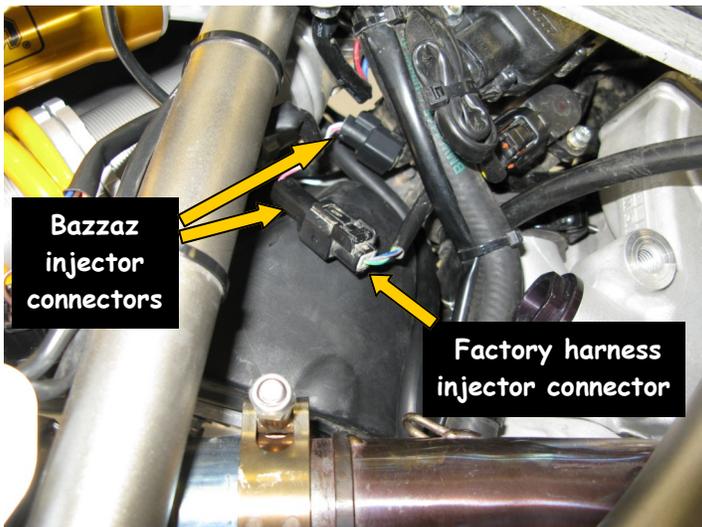

Photo 5

6. On the right side of the throttle body locate the primary throttle position sensor connector. There are two connectors on the throttle body's right side that are of similar configuration; a gray connector which is at the top of the assembly and a black connector found at the bottom of the assembly. Connect the Bazzaz harness in line with the black factory harness connector and sensor found at the bottom of the assembly. (Photos 6 & 7) Note: Connecting to the incorrect TPS sensor connector may result in a poor performance and cause damage to the vehicle.
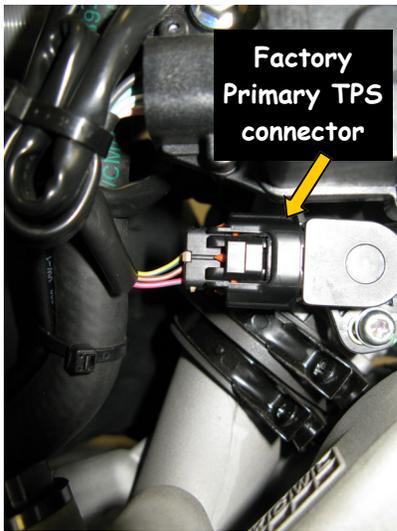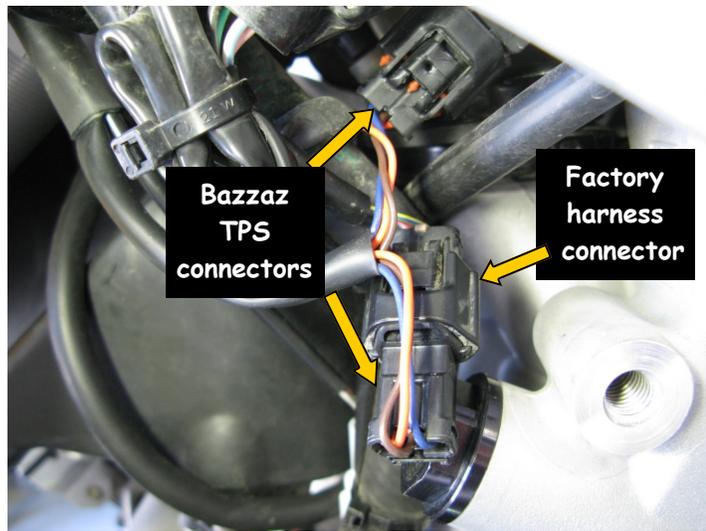
3

Photo 6

Factory Primary TPS connector

Photo 7

Bazzaz TPS connectors

Factory harness connector

7. The Bazzaz Z-FiMX product is designed for race applications. The slip-on map preprogrammed with this product was made with the factory map jumper installed allowing for maximum performance. If you have not already done so, remove the cap from the connector and install the factory map jumper provided with the purchase of a G450X by BMW. This connector can be found on the right side of the bike between the throttle body and airbox. (Photos 8 & 9)
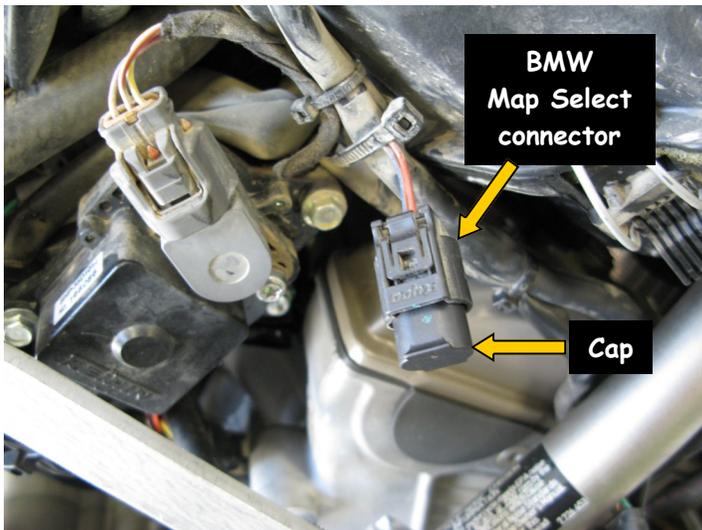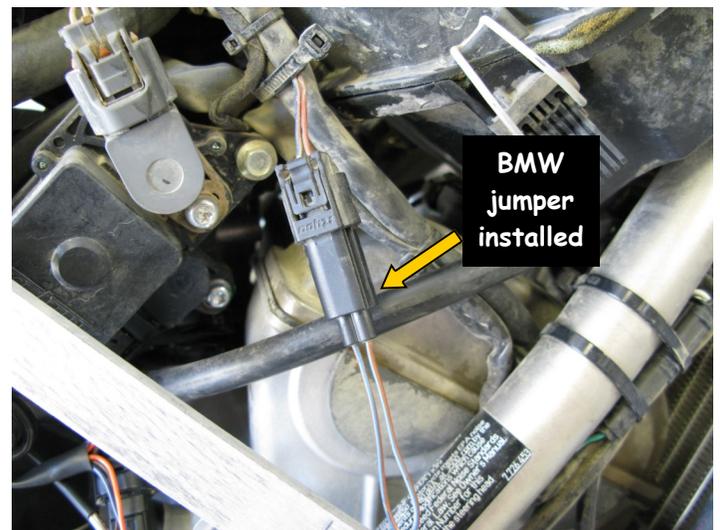

Photo 8

BMW Map Select connector

Cap

Photo 9

BMW jumper installed

8. There are two remaining connectors on the Bazzaz harness, Z-AFM & Map select switch, for use with optional Bazzaz accessories. Secure these connectors in a position that allows for access in case of future use and away from any moving or hot components as contact with these components may cause damage to the Bazzaz products. (Photo 10)
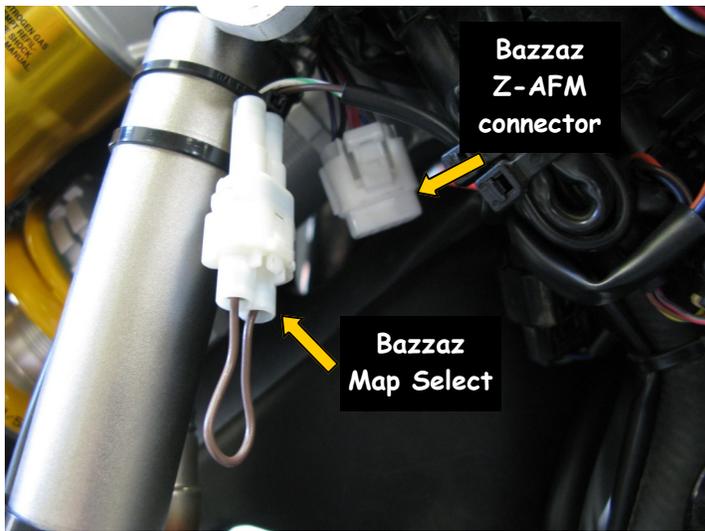
**Bazzaz
Z-AFM
connector**

**Bazzaz
Map Select**

Photo 10

9. Now that the harness is installed, use the supplied Velcro strips in the kit to secure the Z-FiMX controller to the factory ECU (photos 11 & 12) Prior to reinstalling and bolting down the factory ECU cover panel to the frame attach one of the supplied Velcro strips to the inside of the frame's mounting tab. This will protect the wires of the Bazzaz harness from the sharp edge of the frame. (Photo 13)
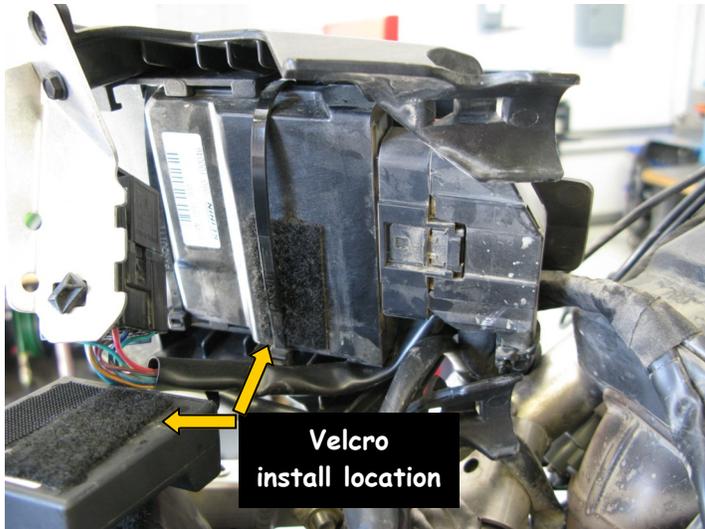

**Velcro
install location**

Photo 11

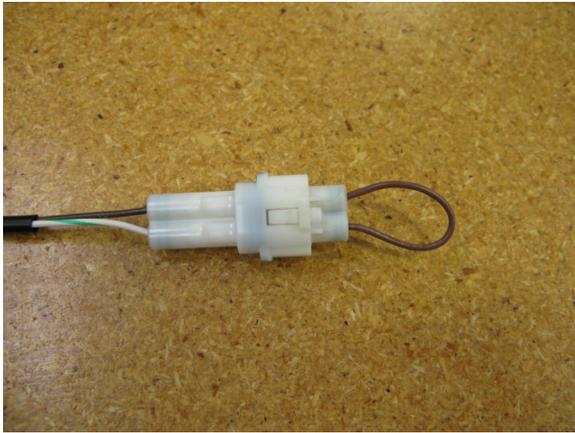**Photo 12**

Velcro

5

Photo 13

10. It is also recommended that the supplied USB cable be plugged into the Z-FiMX control unit and the remainder of the cable routed to a location on the bike which allows for quick access when connecting to the device for tuning purposes. If this step is not taken, the seat must be removed every time you wish to connect the control unit to your personal computer.

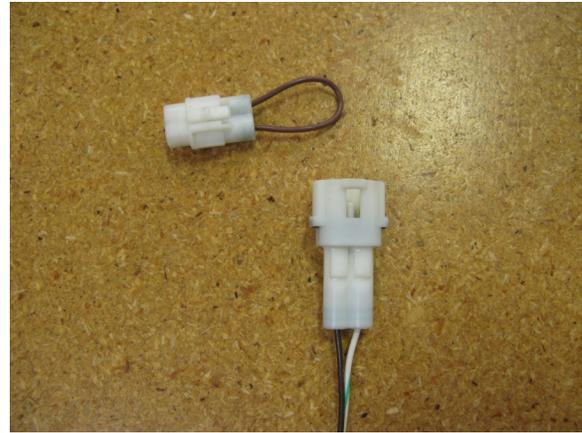11. Re-install components that were removed in step 1.

12. 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.

The Bazzaz Z-Fi MX 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.

Map 1

Map 2

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