



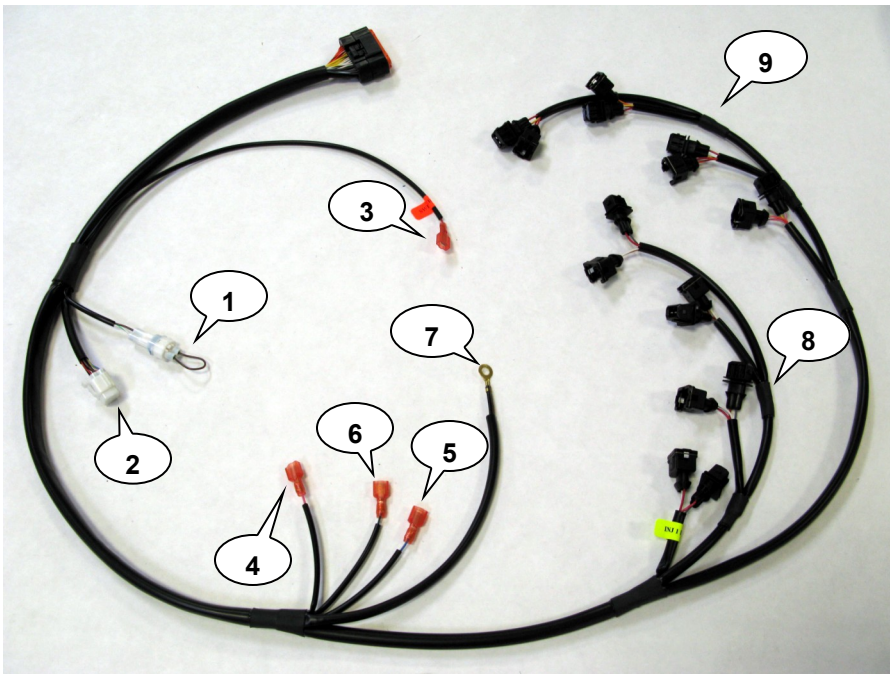
**2009-2013 BMW S1000RR
Z-Fi INSTALLATION INSTRUCTIONS
P/N F541**

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
USB CABLE
SCOTCHLOK
SWINGARM STICKERS**



- (1) MAP SELECT
- (2) Z-AFM CONNECTOR
- (3) SWITCHED POWER
- (4) GEAR POSITION SENSOR
- (5) THROTTLE POSITION SENSOR
- (6) CRANK POSITION SENSOR
- (7) GROUND LUG
- (8) PRIMARY INJECTORS (LOWER)
- (9) SECONDARY INJECTORS (UPPER)

***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 by removing the following components: rider & passenger seats, fuel tank cover panel, fuel tank and both left & right side fairings.
2. In the tail section, under the passenger seat, attach supplied Velcro to the flat surface of the under tail in order to mount the control unit. Also locate the tail light connector found on the right side of the tail section which will be used for the Bazzaz power source. (Photo 1)

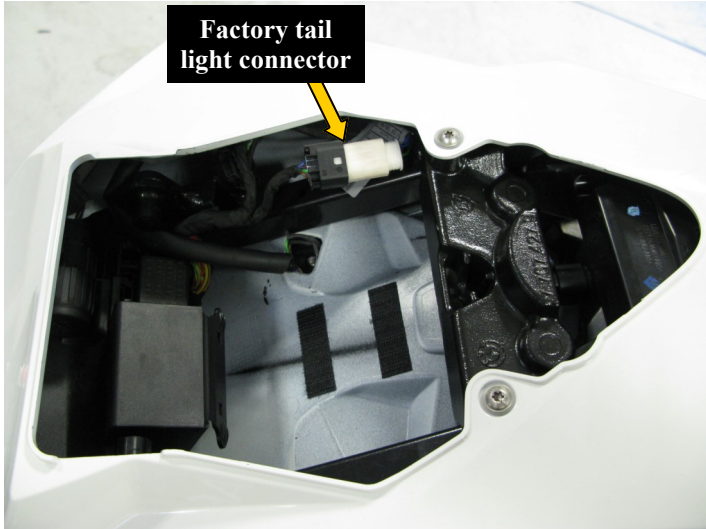


Photo 1

3. Attach the mating strip of Velcro to the backside of the Bazzaz control unit and secure the control unit in place inside the tail. At this time take the portion of the Bazzaz harness containing the control unit and power connectors and route it under the area of the tail section separating the rider and passenger seats, and into the rear tail. Connect the mating connector to the Bazzaz control unit. On the factory harness, locate the green wire of the tail light connector. Crimp a supplied scotch-lok connector onto the green wire and insert the mating T-tap connector of the Bazzaz harness identified on page one of these instructions as "Power" (red wire). (Photos 2 & 3)

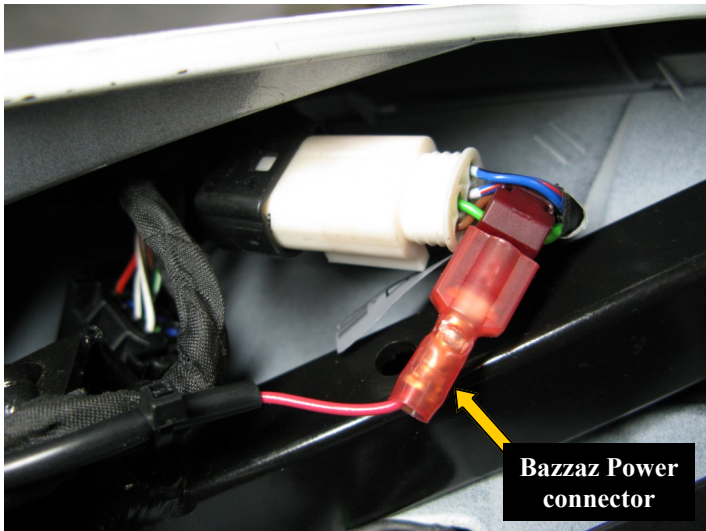


Photo 2



Photo 3

4. Route the remainder of the Bazzaz harness along the left side of the bike under the tank mounting bracket into the engine area. Remove the mounting bolts for the factory bracket to allow for more clearance. Remember to reinstall the factory hardware after successfully routing the harness. (Photo 4)

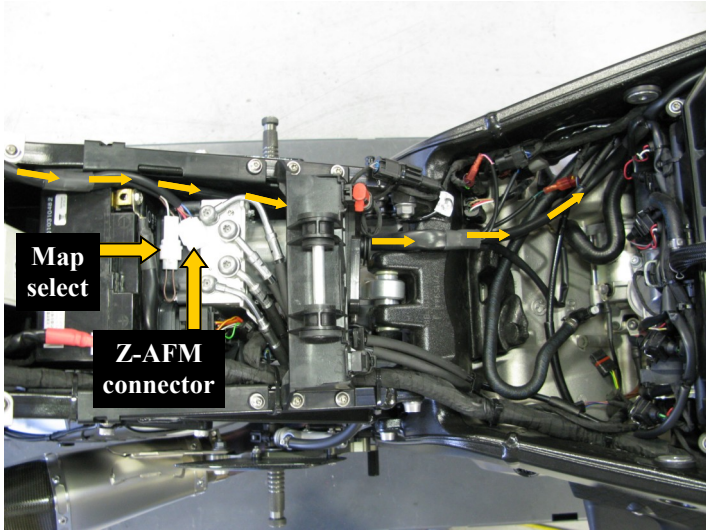


Photo 4

5. In the engine area identify the factory harness connections in which the Bazzaz harness will be connected.(Photo 5)

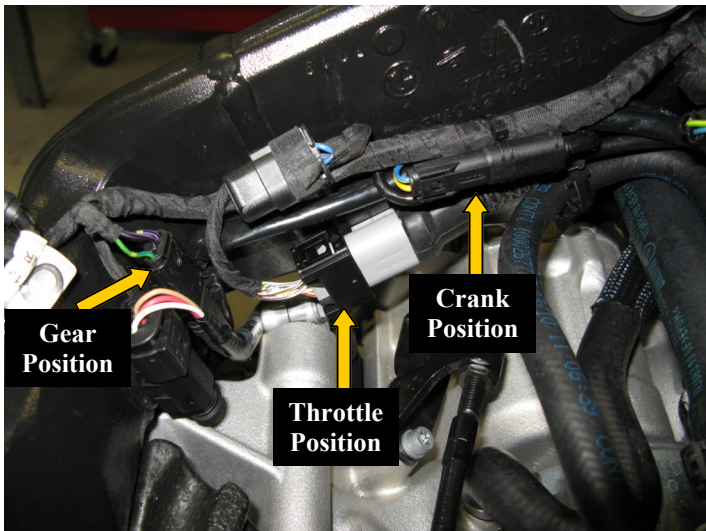


Photo 5

The following photo identifies the wire color for which a Bazzaz Scotch-lok connector must be crimped onto at each previously identified sensor. (Photo 6)

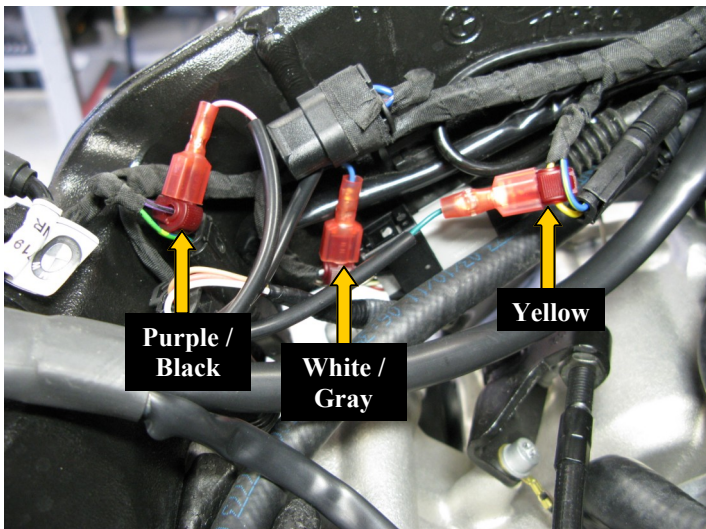


Photo 6

A) Crimp a supplied scotch-lok connector onto the Purple/Black wire of the factory gear position sensor connector. **Note: This connector contains two identical Purple/Black wires, be sure to connect the Bazzaz connector onto the middle wire in pin location 2.** Insert the mating T-tap connector of the Bazzaz harness containing the Pink wire. (Photo 7)



Photo 7

B) Crimp a supplied scotch-lok connector onto the Yellow wire of the factory Crank Position Sensor connector. Insert the mating T-tap connector of the Bazzaz harness containing the Green wire. (Photo 8)

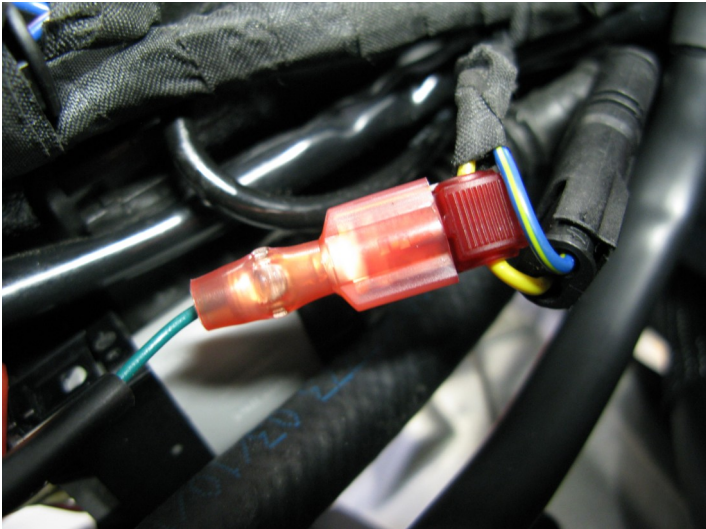


Photo 8

C) Crimp a supplied scotch-lok connector onto the White/Gray wire on the factory Throttle Position Sensor connector at pin location 2. Insert the mating T-tap connector of the Bazzaz harness containing the Blue wire. (Photo 9)

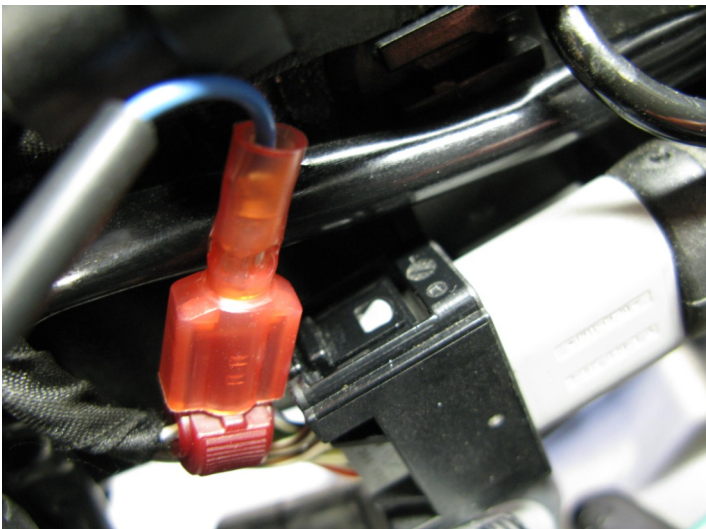
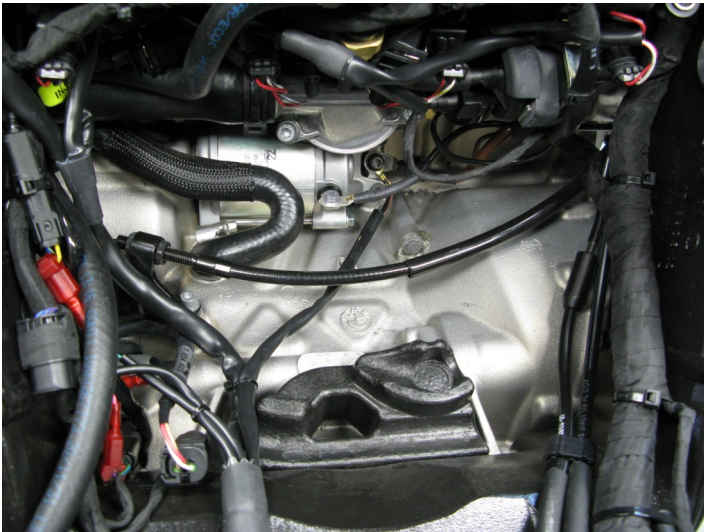
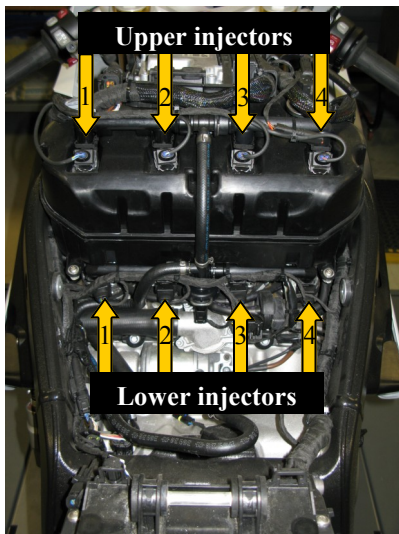


Photo 9

6. Attach the Bazzaz ground lug directly to battery.



7. The BMW S1000RR is equipped with eight injectors, two per cylinder. The primary bank of injectors are located on the throttle bodies and the secondary bank is located atop the air box. The Bazzaz harness contains mating connectors to be installed in line with all eight injectors. The portion of the Bazzaz to be installed in line with the primary (lower set) injectors contains a Yellow sticker labeled “Inj 1 Lower”, disconnect the factory harness connector and install the mating Bazzaz connectors in line with the factory harness connector and injector. Repeat this process for the lower injectors of cylinders 2-4. Once all the primary injector connections have been completed, route the remaining portion of the Bazzaz harness up the left side and on top of the air box. Connect the Bazzaz harness in line with the secondary (upper set) factory harness injector connectors just as previously done with the lower injectors. (Photos 10 & 11)



Factory injector location / orientation

Photo 10



Bazzaz harness installed in-line with both lower and upper injectors. Note: The routing of the Bazzaz harness in relation to the injectors flows from left to right on the motorcycle.

Photo 11

8. Now that the Bazzaz system will control fuel delivery of the vehicle it is important to disable the factory O2 sensors in order to prevent the factory ECU from attempting to override the tuning changes made by the Bazzaz system. To do this simply locate and disconnect the two factory O2 sensors from the factory harness. These connections can be found on both sides of the engine behind the side fairings. (Photos 12 & 13)

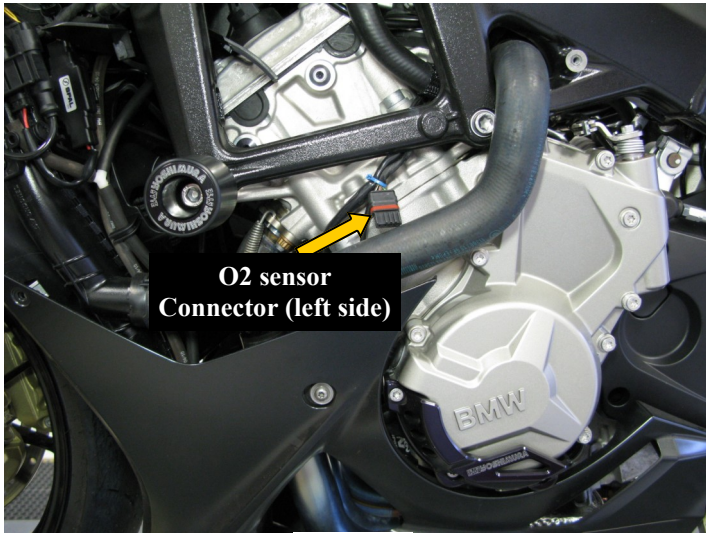


Photo 12

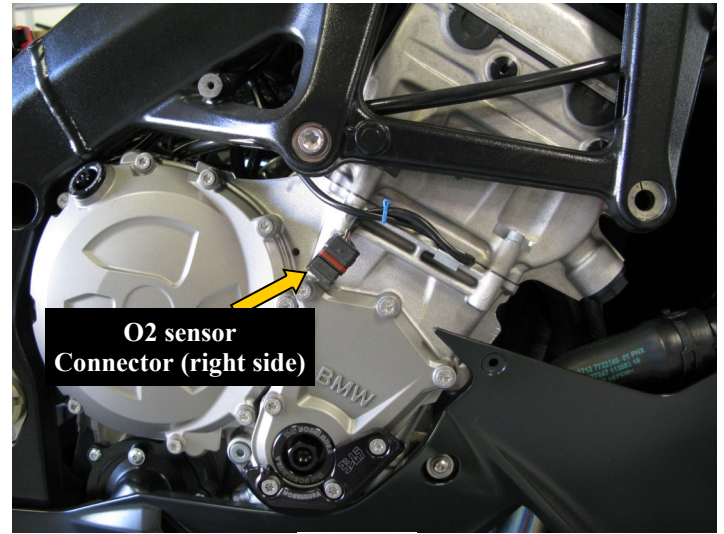


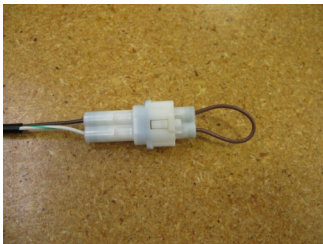
Photo 13

9. 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 may cause damage or failure of the system. Reinstall the components removed in step one and the installation will be complete. 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.

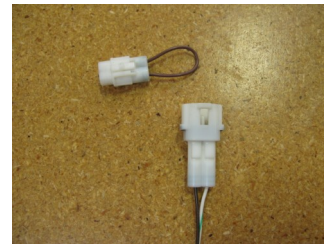
The Bazzaz Z-Fi controller is capable of storing two maps. These maps can be selected through the use of a map select switch which can be mounted on the handlebar for easy access and can be purchased separately. Or these maps can be selected by connecting or disconnecting the map select jumper supplied 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.

Note: Upon installing the system, verify you have selected the proper map to correspond with your model. The controller supplied with this kit has been pre-programmed with two enhanced fuel maps. Map 1 is intended for use on the 09-11 S1000R and Map 2 for the 2012 S1000R.

You are able to load and unload maps as needed via the Z-Fi Mapper software.



Map 1



Map 2

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