



## SUZUKI SV650 2007-2011

### Z-Fi QS4USB (Stand-Alone Quickshift) Installation Instructions Part #s Q640S, Q640R

May result in the activation of the FI light (indicating coil fault) but does NOT cause actual running issues



#### Parts List:

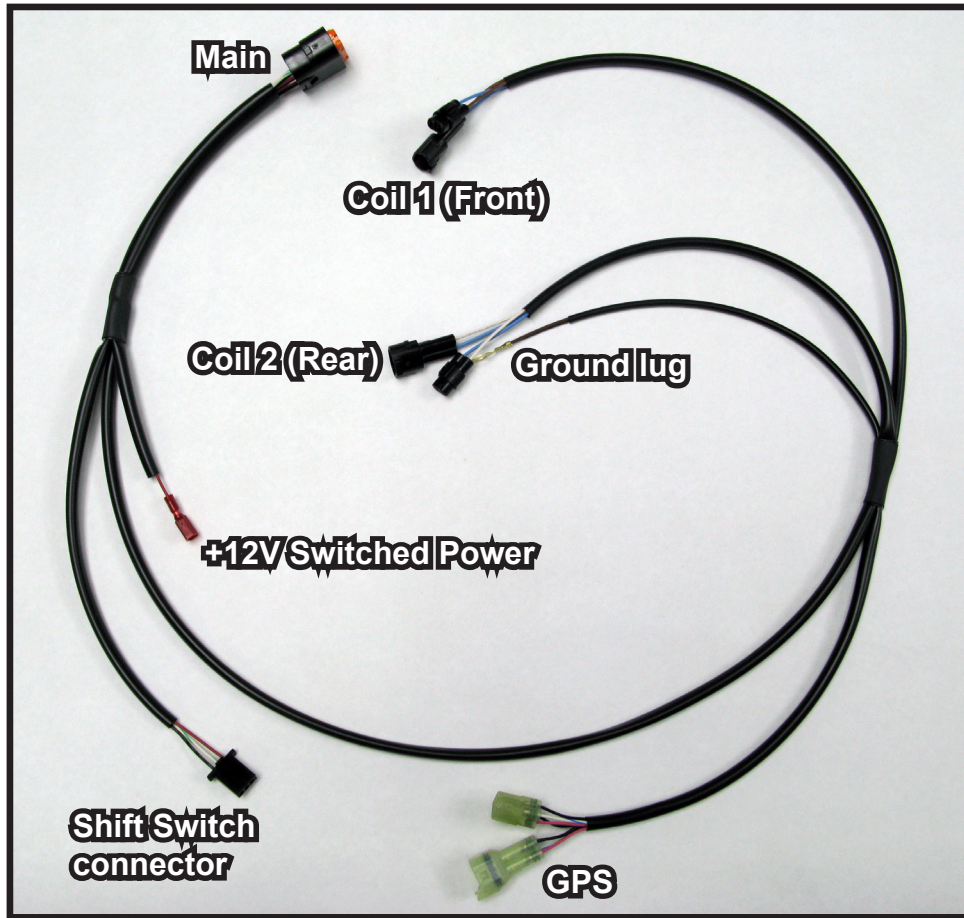
- QS4 Control Unit
  - QS4 Harness
  - Shift Switch & Mounting Hardware
  - Scotchlok (1)
  - Cable Ties
  - Velcro
  - USB Cable
  - Swingarm Stickers
- Download Z-Fi Mapper Software at [bazzaz.net](http://bazzaz.net)  
Software instructions available at [bazzaz.net](http://bazzaz.net)

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

Z-Fi products are not certified by the California Air Resource Board (CARB) for use on CA highways

Contact Bazzaz tech support at 909-597-8300 for questions

# BAZZAZ HARNESS CONNECTOR IDENTIFICATION

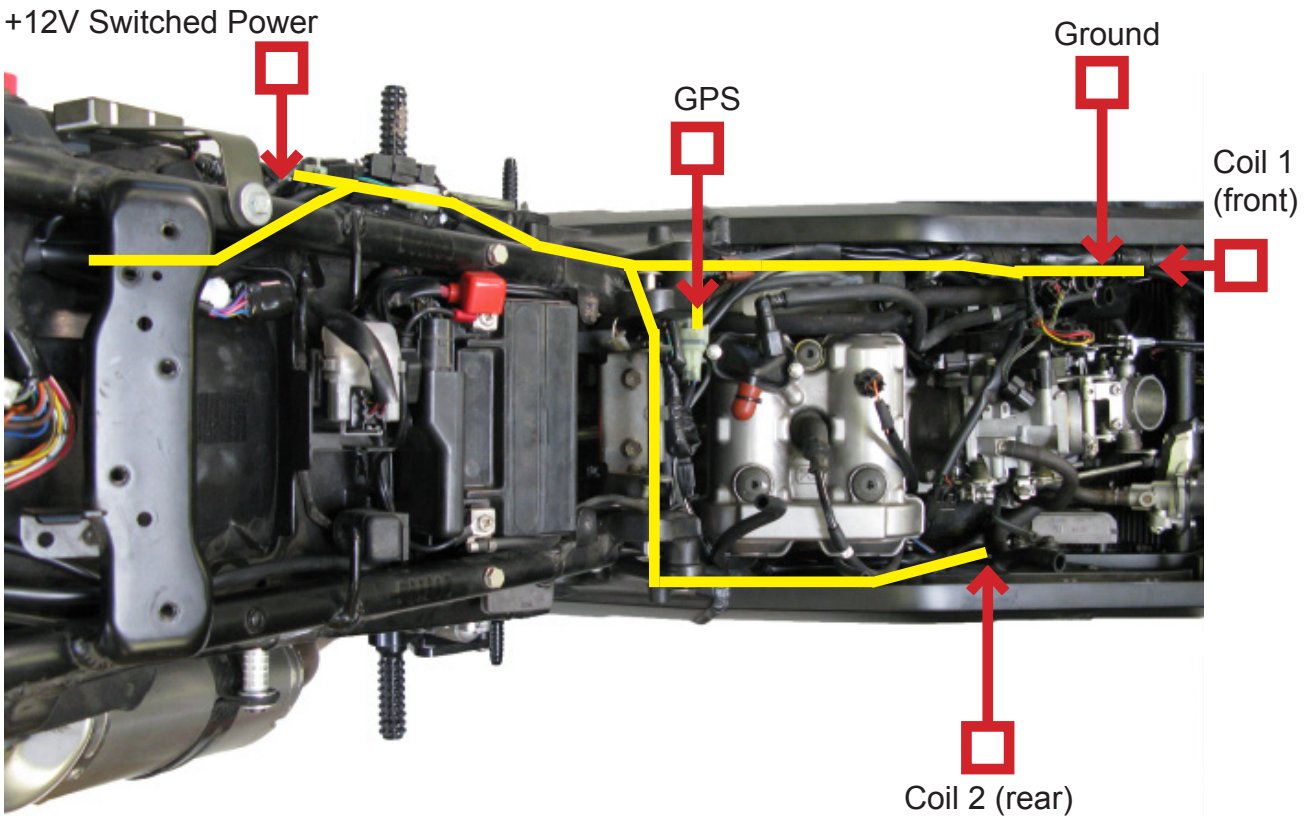


## QS4 HARNESS

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

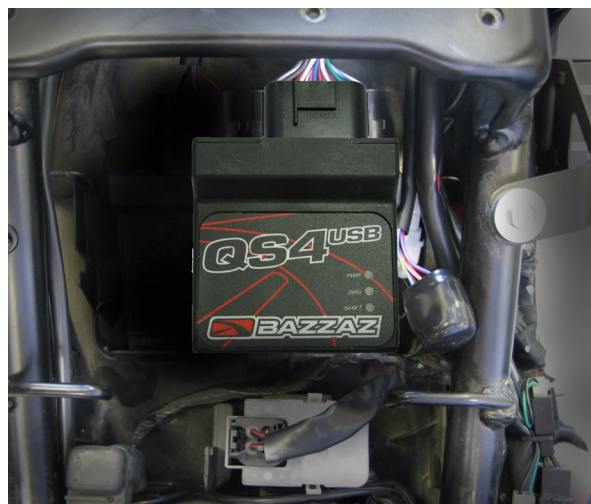
**WE STRONGLY SUGGEST THAT AN EXPERIENCED TECHNICIAN INSTALL THIS BAZZAZ PRODUCT**

1. Begin the installation by removing the seats, fuel tank and airbox.



Harness routing shown in yellow.  
Stock component identification and location shown for reference.

2. Place the Bazzaz **QS4 UNIT** in the back of the tail section. Secure the QS4 unit to the under tray with the supplied velcro.

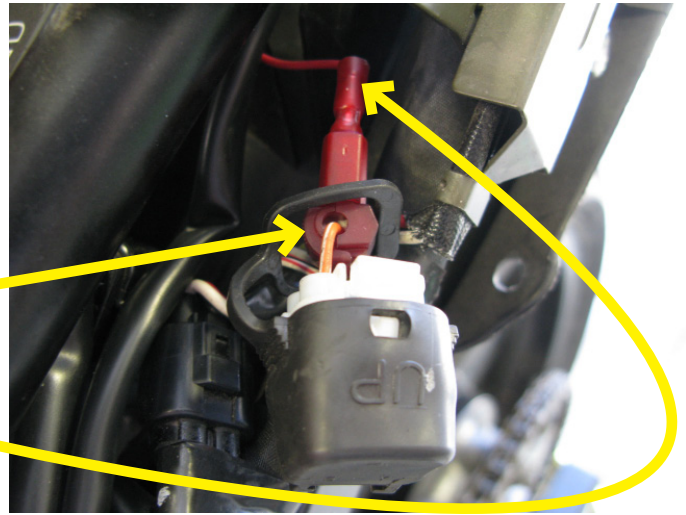


3. Connect the main connector of the Bazzaz **QS4 HARNESS** to the QS4 unit. Begin routing the harness towards the engine compartment and down the left side.

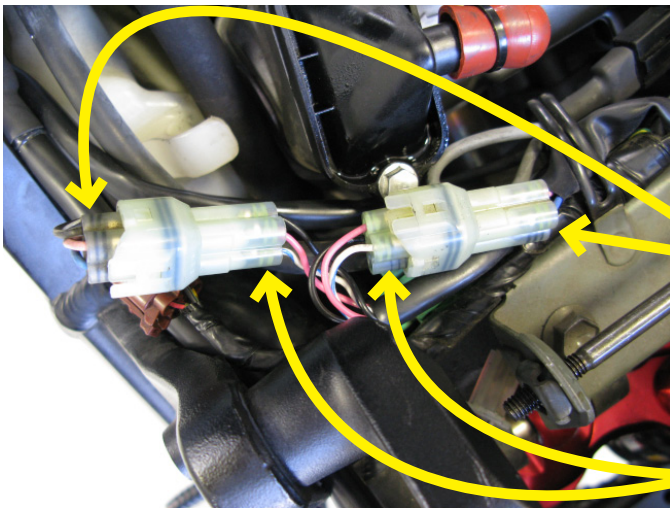
4. Now locate the factory diagnostic connector in the tail section on the left side. Using the supplied Scotchlok, crimp onto the **orange/white** wire of the factory diagnostic connector and insert the Bazzaz **+12V SWITCHED POWER** connector into the Scotchlok.

Scotchlok crimped onto orange/white wire of factory diagnostic connector

+12V Switched Power connector



5. Next, locate the factory Gear Position Sensor (GPS) connectors, which can be found near the factory fuel pump connector. Disconnect the factory GPS connectors and connect the Bazzaz **GPS** connectors in-line with the factory connectors.



Factory GPS connectors

Bazzaz GPS connectors

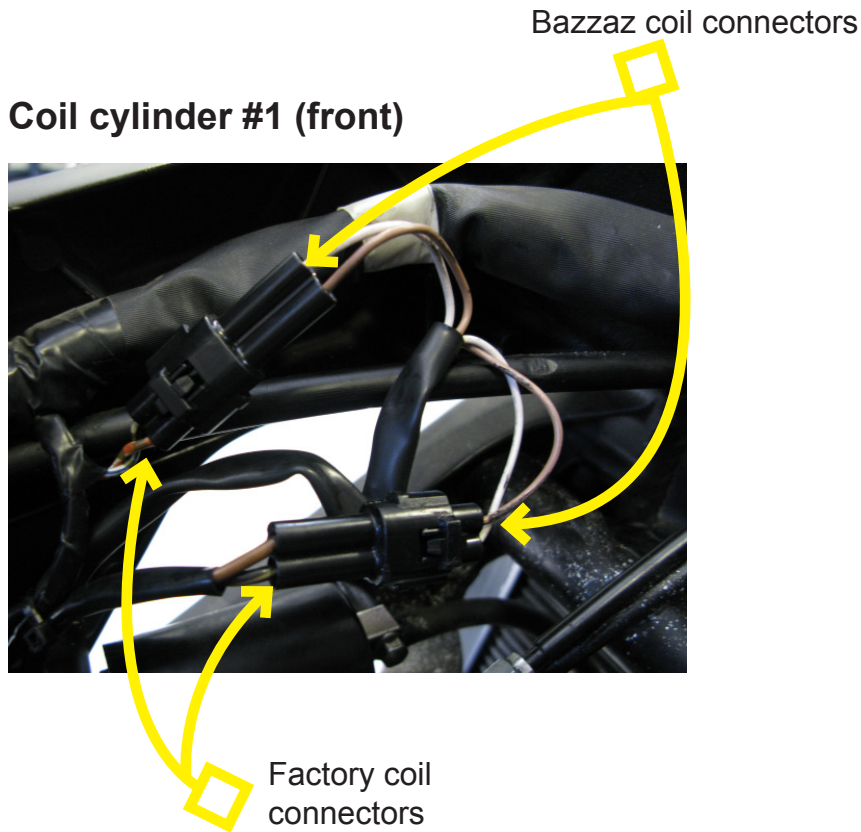
6. Locate the 10mm bolt on the inside of the left frame rail, near the front cylinder ignition coil. Unbolt the 10mm bolt and install the Bazzaz **GROUND LUG**. Reinstall the factory 10mm bolt.



Ground

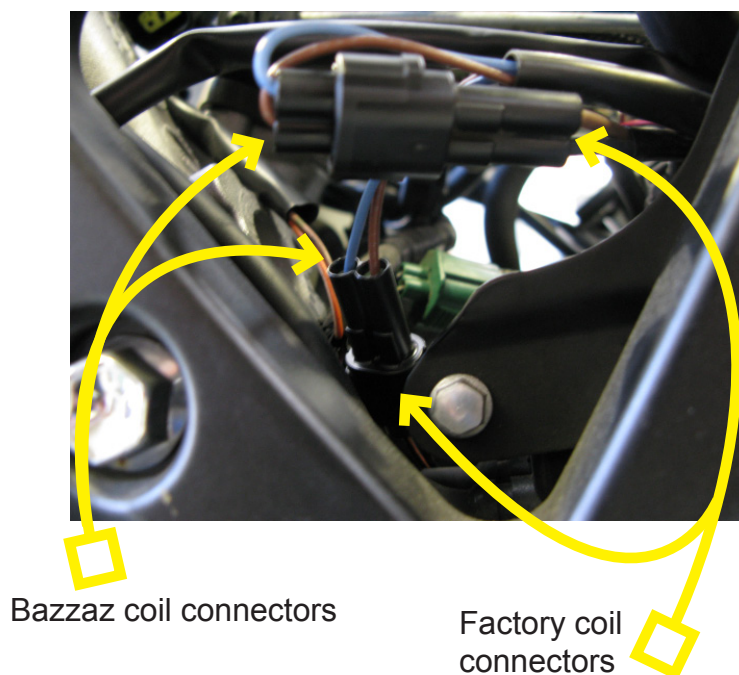
7. Route the Bazzaz front coil connectors between the cylinders, to the front cylinder ignition #1 coil. Disconnect the factory coil connectors and connect the Bazzaz **#1 COIL FRONT** connectors in-line with the factory connectors.

**Note: May result in the activation of the FI light (indicating coil fault) but does NOT cause actual running issues.**

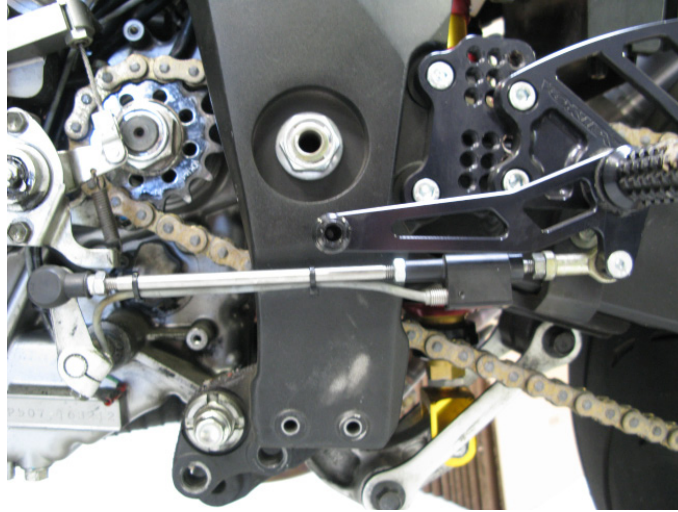


8. Route the Bazzaz rear coil connectors over to the right side of the bike, to the rear cylinder ignition #2 coil. Disconnect the factory coil connectors and connect the Bazzaz **#2 COIL REAR** connectors in-line with the factory connectors.

### Coil cylinder #2 (rear)



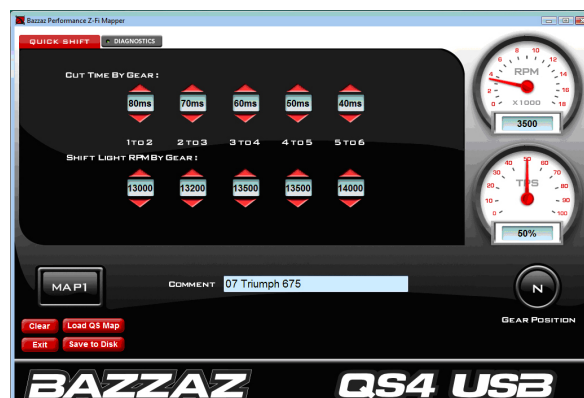
9. Now you will begin the installation of the Bazzaz quickshifter. Start by removing the factory shift rod and install the Bazzaz **SHIFT SWITCH** on the rear shift linkage. Now install the Bazzaz **SHIFT ROD** by screwing it into place between the shift switch and the front shift linkage. The Bazzaz shift rod may have to be cut shorter, depending on your shift pedal height preference. Once correct length is attained, secure the components by tightening the 10mm nuts. Now route the shift switch connector up to the mating connector on the Bazzaz coil harness.



**Standard shift pattern shown (push)**

10. To complete the installation, use the supplied cable ties to secure the harness neatly along the 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 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.

Don't forget to download the Z-Fi Mapper software from [www.bazzaz.net](http://www.bazzaz.net) (under the software tab) so that you can adjust your gear dependent kill times, if necessary. Also, if using the QS4 shift light (sold separately), you can adjust your shift points (at what RPM the shift light comes on).



Optional:  
**QS4 USB Shift Light** (for use with QS4 USB only).  
[Part No. M841]

