



## **WARNING!**

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

# **EM Pro Bazzaz Shift Kit**

## **INSTALLATION INSTRUCTIONS**

**PN's EM642, EM643, EM649**

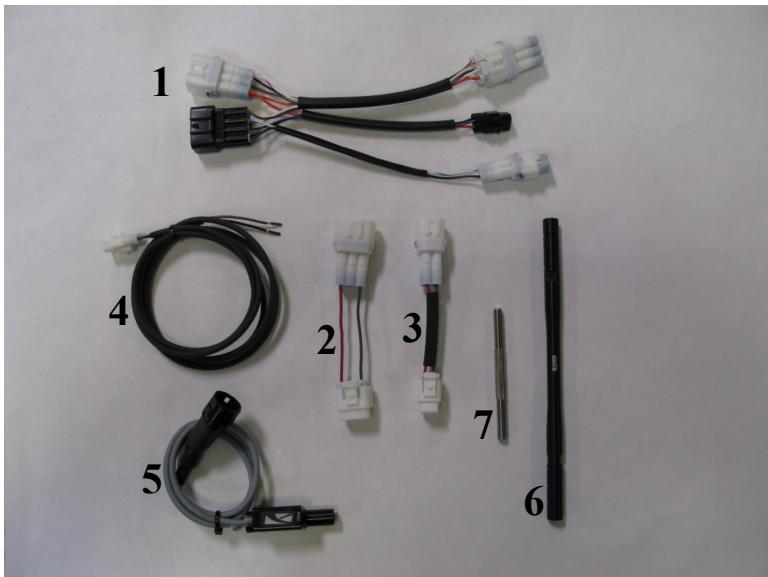
**GSXR 600 / 750 2006-2010**

**GSXR 1000 2007-2010**

**NOT for use with any other models**

This product may only be used with the following Yoshimura EMPro products:	
EM Pro GSX-R1000 2009-10	P/N 490-518-0000
EM Pro GSX-R1000 2007-08	P/N 490-508-0000
EM Pro GSX-R750 2008-10	P/N 490-58A-0000
EM Pro GSC-R600 2008-10	P/N 490-569-0000

**If you only ordered the EM Pro Bazzaz subharness EM642 your kit will not include items 5, 6 & 7.**



## **PARTS LIST:**

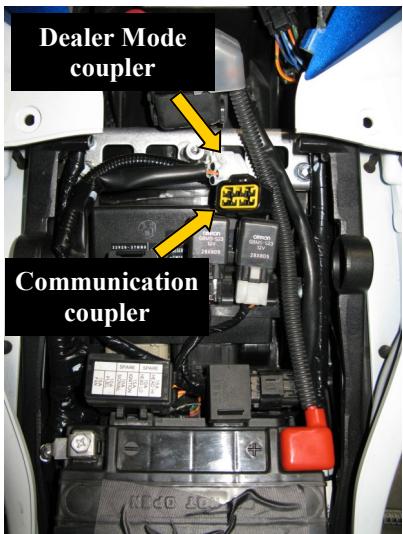
1. EM Pro Shift Subharness
2. Ignition Switch Jumper (US)
3. Ignition Switch jumper (EURO)
4. Pit Speed Limiter Lead
5. Shift Switch
6. Female Shift Rod (B2009)
7. Male Shift Rod (B2012)

*This kit is universal in its design. Included are two ignition switch jumpers and two replacement shift rods. Depending on your application you will need only one of each and the remaining components are not utilized.*

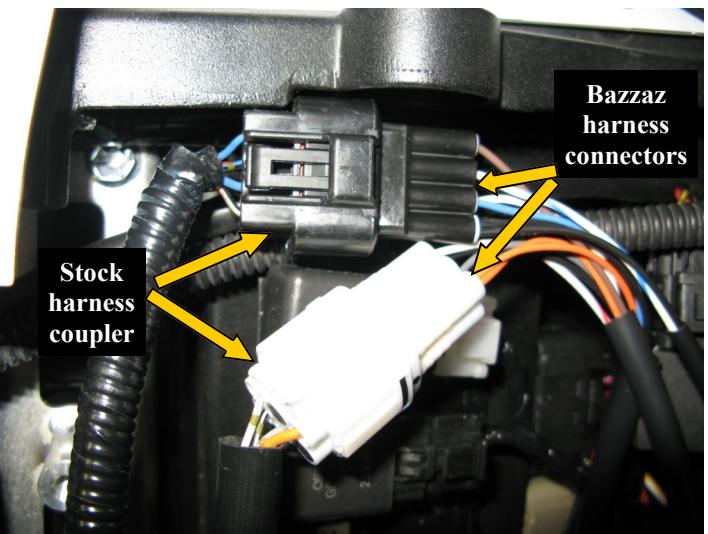
## **NOTES:**

- This product is designed only for the combination of EM Pro and the standard wiring harness.
- The Shift Switch provided in this kit is not interchangeable with Bazzaz Z-Fi QS, TC or QS4 USB.
- Not included with this kit is a normally open momentary switch which will be required to enable the pit speed limiter function.
- After installing this product, immobilizer light on standard meter turns on (models with immobilizer only). It is recommended to remove the minus terminal on the battery while engine is off.
- Bazzaz does not offer technical assistance relating to programming or tuning of the EM Pro ECU. Such inquiries should be made with Yoshimura through your selling dealer.

1. Begin with the installation of the “EM Pro Shift Subharness” by removing the seat, prop the fuel tank, then remove the air box. Next locate the dealer mode coupler (white 6 pin connector) and the communication coupler (black 8 pin connector) which can be found under the seat near the ECU. Then remove the cover from the stock communication coupler and mate the Bazzaz harness by connecting to these two stock Suzuki harness connectors. (Photos 1 & 2)



**Photo 1**



**Photo 2**

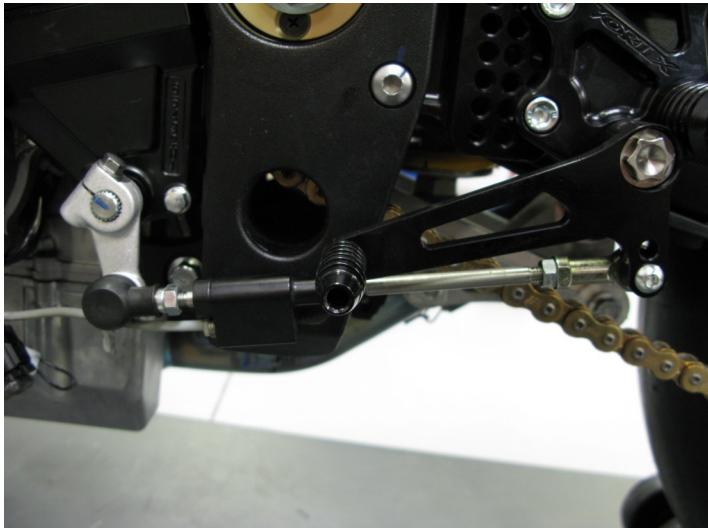
2. Remove the stock shift rod. In its place, install the Bazzaz shift switch followed by the replacement shift rod supplied with the kit. Adjust the combined length of these components to allow for complete actuation of the shift shaft and also maintain a comfortable riding position. Once the desired length is established tighten the 10mm nuts to secure the switch and rod in place. Route the wiring lead of the shift switch sensor into and through the engine compartment under the fuel tank then into the tail of the motorcycle. Connect it with the mating connector on the Bazzaz harness. Secure excess wiring length away from any hot or moving components on the bike, as contact with these components may cause damage or failure to the sensor. (Photos 3 & 4)

**Notes:** The female end of Bazzaz shift switches are cross tapped to allow them to be mounted to either the rear set or shift shaft heim joint regardless of the thread design.

The female style replacement rod supplied with your kit is designed to allow the user to shorten its length to suit various aftermarket reset configurations. The female style rods contain grooves in 10mm increments on both ends identifying areas where the rod can be shortened and adequate threads will remain for proper installation.



**Photo 3      Female rod type**



**Photo 4      Male rod type**

A) Within the engine compartment, under the fuel tank and near the right side air inlet opening of the frame, locate the stock ignition switch couplers. Disconnect the stock couplers and install the appropriate Bazzaz ignition switch jumper for your application in line with these connectors. This will disable the unwanted lighting functions of the switch. (Photo 5 & 6 US version pictured here).



Photo 5

Factory

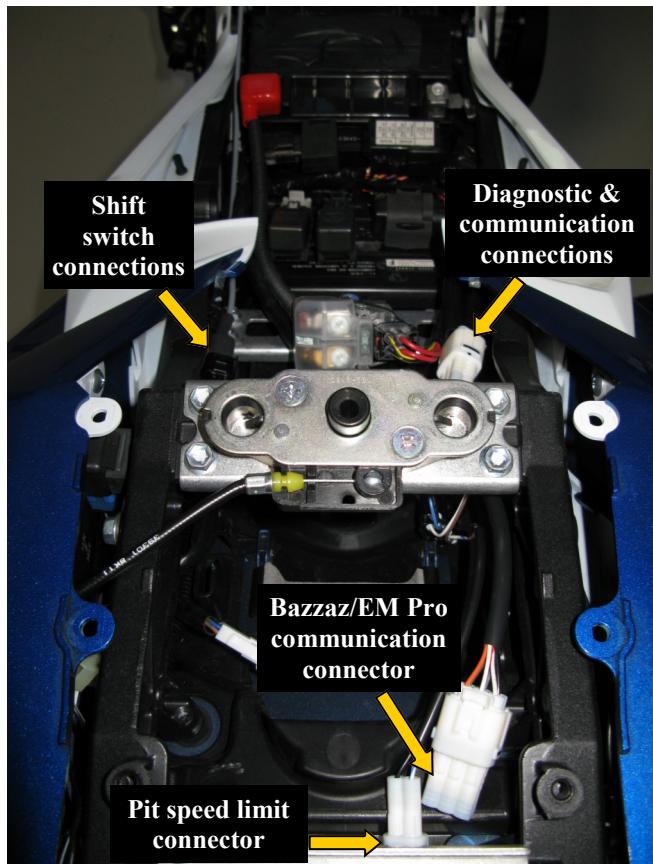


Photo 6

With Bazzaz jumper

B) The Bazzaz pit speed limiter lead is equipped with two non-terminated wires enabling the use of any momentary switch to activate the limiting feature within the EM Pro ECU. If you wish to enable this feature, connect the pit speed limiter lead supplied with your kit to the mating connector on the "EM Pro Shift Subharness" in the tail of the motorcycle. Route this lead toward the front of the motorcycle; on the left side, through the tail section, engine compartment and out onto the left handle bar. Connect the two wires of the lead to your chosen switch.

C) Prior to final reassembling of the motorcycle secure the harness throughout the motorcycle with supplied cable ties.



**Default EM Pro settings when Bazzaz subharness is used**

Function	Default with Bazzaz Harness
Fuel Map Adjustment	Map 2
Ignition Map Adjustment	Map 2
Map Change	Fixed at Setting 1
Engine Brake Control	Level 3
REV Limit	Extended 500 RPM