

TTR Ignition Systems

Installation Instructions for the FZR Voltage Regulator / Rectifier Adaptor Pigtail

1. Inspect the adaptor pigtail, ensuring that no wires are obviously damaged or loose.
2. Unfold the ½" long strands on each of the red and white wires on the pigtail. Tin the ends, while leaving the long strands free.
3. Ensure the provided 1" lengths of heat-shrink tubing are taped in position on each wire.
4. Ensure the bike ignition switch is OFF.
5. Remove the rider's seat and the left tail panel.
6. Disconnect the Negative (Black) cable from the battery. Follow this cable down to locate the frame or engine Ground Bus point – you'll need to know this later.
7. Unplug the existing 4-pin connector from the existing 4-pin VRR.
8. Unbolt and remove the existing 4-pin VRR.
9. Tape off the Black ground wire originally secured near or under the upper mounting bolt of the 4-pin VRR. It is no longer used.
10. Mount the new 5- or 6-pin VRR in the desired location. Some mounting fabrication and adaptation may be necessary.
11. Clip the 4-pin connector from the stock harness; cut as close to the connector as possible while ensuring that any damaged wiring has been trimmed away.
12. Strip ¼" from each clipped wire; tin the ends.
13. Hold the end of the red wire on the harness against the end of the red wire on the pigtail. Wrap the free strands on the pigtail wire around the harness wire end; this will hold the ends together while soldering. (see Figure 1 below for details)
14. Solder the ends together. Repeat for each of the white wires.
15. Slide the 1" lengths of heat shrink tubing over each soldered joint, and then apply careful heat to shrink into position.
16. Run the Black 12ga VRR Ground wire on the adaptor pigtail back to the Ground Bus on the frame or engine.
17. Remove the bus bolt, cleaning away any accumulated dirt or corrosion.

18. Replace the bus bolt, securing both the Battery Negative cable and the VRR Ground cable together on the bolt.
19. Reconnect the Battery Negative cable to the battery.
20. Start the engine and measure the voltage across the battery terminals. It should read between 13.5 and 15.3 vdc at 5000 rpm, depending on the model of VRR installed.
21. Replace the left tail panel and rider's seat.
22. Ride!

Figure 1

