

# Yamaha R1 Panel Installation Instructions

## PKT-020



### Introduction:

Made in USA

This easy to install, high quality, Powerlet™ kit provides a convenient way to access the battery on Yamaha R1 motorcycles. The operator can supply power to the battery (i.e. battery charger), draw power from the battery (i.e. heated vest), or monitor the state of charge on the battery using the Powerlet socket.

### Parts List:

- 1 - Wiring harness w/ 15A fuse
- 1 - Powerlet socket
- Ty-wrap(s)

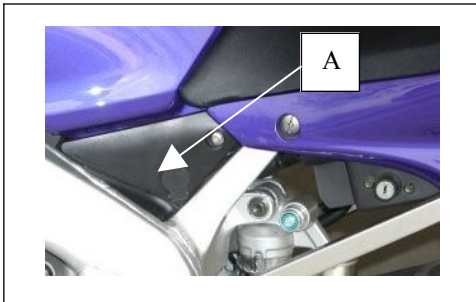
**Please read all of the instructions carefully before attempting the installation of this product. Please have a trained professional install this kit if you are unfamiliar with these procedures.**

### Quick Start Instruction:

- STEP #1 Remove the left side panel & seat.
- STEP #2 Mount the socket.
- STEP #3 Route wires starting at the battery and finishing at the bracket.
- STEP #4 Attach the wires to the socket and test.
- STEP #5 Look over your work.
- STEP #6 Put everything you took off back on.

### Detailed Instruction:

STEP #1 – Remove the seat. See the Yamaha service manual.



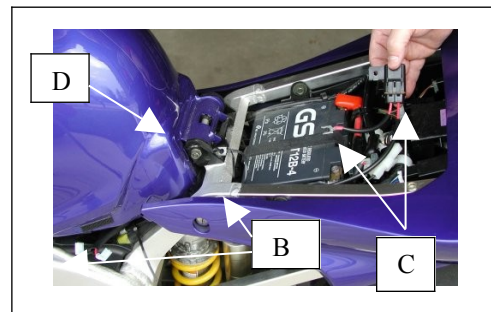
STEP #2 – Drill a 18mm hole into the panel (**11/16" hole saw recommended and is available on our site**). This hole can be drilled in many places on the panel. We believe near the bottom of the “V” [A] looks best, and is out of the way while riding. Watch the clearance behind the panel; make sure the socket has room. Attach the socket to the panel; use a dab of Silicone on the socket and jam nut after assembly.

**Important:** Do NOT use loctite or over-tighten.

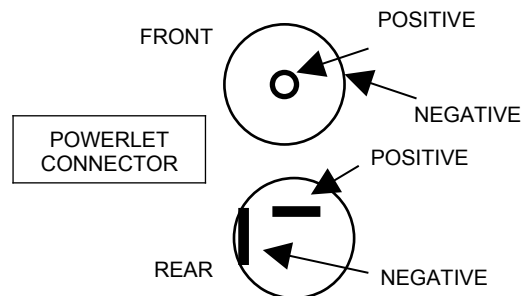
STEP #3 – Stretch out the wiring harness. Grab the socket end of the harness and start routing the harness by looping the wires through the gap between the frame member and the battery compartment plastic [B]. Follow the stock wiring harness; poke the wires out of the hole where the panel was [B]. Next remove the negative battery connection, followed by the positive battery connection. Slip the red wire under the red battery boot [C]. You may need to trim the red boot to accommodate the added wire. Connect the red wire to the battery posts as follows:

**RED WIRE = BATTERY POSITIVE**

Tuck the fuse holder into a cavity in front of the plus terminal of the battery [C]. Ty-wrap the fuse holder to the nearby wiring. Connect the black ground wire under the gas tank hinge bolt [D].



STEP #4 – Install the fuse in the fuse-holder. The center terminal is plus and the outer ring is negative (see dwg below). Apply either dielectric grease or Vaseline to the terminals. Connect the red wire to the POSITIVE terminal and the black wire to the NEGATIVE terminal. Use a voltmeter to check if the polarity is correct.



STEP #5 – Apply the remaining ty-wrap to the wiring harness and the existing wiring harness [B]. **Do NOT allow the harness to directly contact the motor or exhaust.**

STEP #6 – Replace the panel and the seat. Enjoy!