

# Universal Luggage Electrix Kit Installation

## PTB-011

### For Tankbags and Saddlebags



#### Introduction:

Made in USA

This high quality, Powerlet Luggage Electrix Kit provides an easy, water-resistant way to power electronics in a motorcycle tank bag, saddle bag or top box. The kit works equally well in fabric, plastic, fiberglass or leather bags. The operator can use this kit to power cell phones, radar detectors, GPS units, music systems, etc.

**Required Tools:** Knife blade (Exact-o knife is perfect)  
Small nail, Screwdriver, pliers and a small wrench



#### Parts List:

- 1 - Connector
- 1 - Backing Plate
- 4 - Screws, Black Stainless #8-32 x 1/2"
- 4 - Screws, Black Stainless #8-32 x 5/8"
- 4 - Nuts, Ny-Lock #8-32
- 1 - SAE/Cigar & Powerlet "Y" Cable
- 1 - 48" Direct Battery Harness
- 1 - SAE to SAE 24" Cable
- 1 - Powerlet to SAE Cable

**Please read all of the instructions carefully before attempting the construction of this harness.**

#### Quick Start Instructions:

- Step 1. Locate a suitable place on the luggage to mount the connector.
- Step 2. Using the backing plate as a guide mark the center hole & 4 mounting holes.
- Step 3. Use either a soldering iron or a hot knife & hot nail cut the holes.
- Step 4. Install using supplied screws.
- Step 5. Test by plugging in cables.

#### Detailed Instruction For Fabric Installation:

**STEP #1** – Determine a suitable location for the connector. If you mount it on the side closest to the rider this may interfere with leaning against the bag while riding. Also think about where you will draw power from, the left, right or front of the bike.

**STEP #2** – Using the backing plate as a template, mark largest hole on the tank bag (or other storage unit) with a visible marker. We used a paint pen [A].



**STEP #3** – Use either a soldering iron with a thin narrow tip or a hot knife & nail to cut the holes. Either will make the holes easily. The hot knife-edge (or iron) will cauterize the nylon, keeping it from fraying.

**Soldering Iron** – Pierce through the material and follow the outline of the large hole, letting the iron melt the material. Check the fit of the connector (large hole). Leave the connector in place & use the soldering iron tip to pierce the four holes.

**Hot Knife** – If you don't own a soldering iron, heat up a knife blade using the stove or a propane torch. When the edge is red hot cut through the material [B] & form the largest hole. Leave the connector in place & holding a hot nail with pliers pierce the four holes. The nail does not need to be the exact size; moving it around (while it is hot) will open the hole to any size larger than the nail.



**STEP #4** – Make sure the screws pass through the four small holes. Remove the connector and apply a small amount of automotive weather strip sealant to the back of the connector flange. Install the connector, line up the four mounting holes & push the four screws through. Install the backing plate on the inside of the bag, along with the four nuts. Do not over-tighten, this distorts the rubber flange; the NY-LOCK nut will keep the screw secure.



**STEP #5** – External Cable Connection - Connect either the direct battery lead, the Powerlet cable or the SAE to SAE (Requires Battery Tender Lead). Use a voltmeter to check if the polarity is correct. Plug in the unit. Measure the terminals inside the bag; the exposed (male) pin should be ground. The female pin is +12V. Enjoy!

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External Cables



**Powerlet to SAE** – Use this cable when plugging your luggage into a Powerlet Socket.



**Direct Battery Lead** – Use this cable for powering the luggage directly from the vehicle battery.



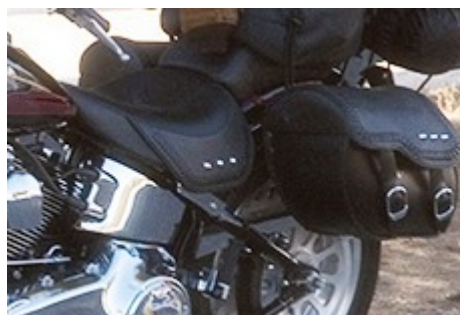
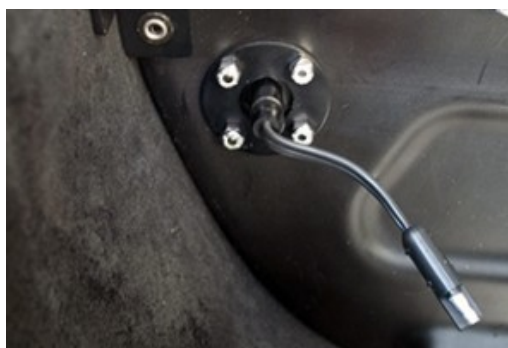
**SAE to SAE Cable** – This cable is used to plug the luggage into your existing Battery Tender lead (not supplied). A larger 10A fuse may be required.

#### Instruction For Non-Fabric Installations:

Determine a suitable location for the connector. Consider the removal of the luggage for cleaning.. Also think about where you will draw power from, the left, right or front of the bike.

For plastic, leather and fiberglass installations use mark the location of the drill points using the black backing washer as a template.

#### Example: Leather Saddlebag Installation



#### Example: Top Box Installation



#### Other Luggage Products



Power Out With a PTB-009



Cable Pass Thru - PTB-010