

Voltmeter Installation – “Plug-N-Play” Solution

NOTE: These changes/additions are not sanctioned by MOT, accordingly you assume all risk by installing this product. If you are a DIY type member you may elect to make the cables yourself or purchase them cheaper elsewhere. If you do, please don't forget to use a fuse as it will protect your system.

NOTE: An electrical block diagram for the voltmeter installation is shown following the instructions.

You'll need the following items:

- Voltmeter (single or double)



- One XT60 Parallel Battery Connector for a single battery system, two for a double battery system. (<https://a.co/d/deERhMS>). And one XT60 male x XT60 female Fused Connector, two for a double battery system. (<https://a.co/d/4dvy1sQ>)



- One, 2-foot XT60 Female to Male Extension Cable, two for dual battery system. (<https://a.co/d/0lOWoZY>) And one, 6-foot XT60 Female to Male Extension Cable, two for dual battery system. (<https://a.co/d/alrQJf4>)



NOTE: We tried to find a single 8-foot extension but could not. They are available in 2', 6', 10', etc. lengths. Hence you need to put two extension cables together to make an 8-foot cable. Feel free to wrap the cables with spiral wrap if you like and you can also use silicone tape to seal the connection points as an option.

INSTRUCTIONS:

1. Remove your battery from the mounting slide, in the case of a dual battery system remove both batteries from the slides. **THIS IS IMPORTANT!**
2. You will need to gain access to your control box (central location where all wire connections are made on your trike). In some cases, it will be necessary to remove your rear basket and/or seat. Save all hardware as you will need it to reassemble.
3. Mount your new voltmeter(s) to your handlebars in a convenient place for your viewing. (NOTE: We suggest that you install a single gauge first and then go back and wire your second gauge, in the case of a dual battery system.)
4. Plug one end of the 2-foot extension cable into the yellow XT60 connector on the rear of your meter. Then start routing the extension cable to the rear of the trike toward the control panel fastening it with zip ties or electrical tape. Make sure to leave enough slack at the front so your handlebars can turn fully to the right and left without pinching the wires.
5. Once you have run out of cable, connect the 6-foot extension to the first cable, and continue routing to the control box.
6. As you get close to the trike control box, remove the top cover to expose the factory wiring. (NOTE: If you have two batteries, please slow down and do one at a time. It will eliminate connecting something improperly and doing irreversible damage.)

7. Locate the wire that comes up from your battery mount/slide and pull that yellow XT60 connection apart by pulling on the connector halves. DO NOT pull on the wires.
8. Insert the parallel battery connector between the two wires that you just pulled apart (Looks like a Y -- See picture below).



9. You should now have one wire left on the parallel battery connector. Plug it into one end of the short-fused section.
10. Now plug the free end of the 6-foot extension into the other end of the short-fused section. (NOTE: It's normal to have a little excess wire as the extension is only available in certain lengths, merely coil up any excess and fasten it to a spot that won't get caught by the chain or other components as you ride.)
11. If you have two batteries repeat the above procedure for the second battery.
12. Before closing your control box, remount the battery(s) to the mount/slide and turn your battery to the ON position. If you have followed the instructions the voltmeter should spring to life. It will work as long as the battery switch is in the on position, even if your trike's display is off.
13. If everything is working, put the control box cover back on and remount any parts you removed such as the seat and basket.
14. FINISHED!

Instructions compiled by Mike Ebner & Conrad Ruppert.

VOLTMETER ELECTRICAL BLOCK DIAGRAM:

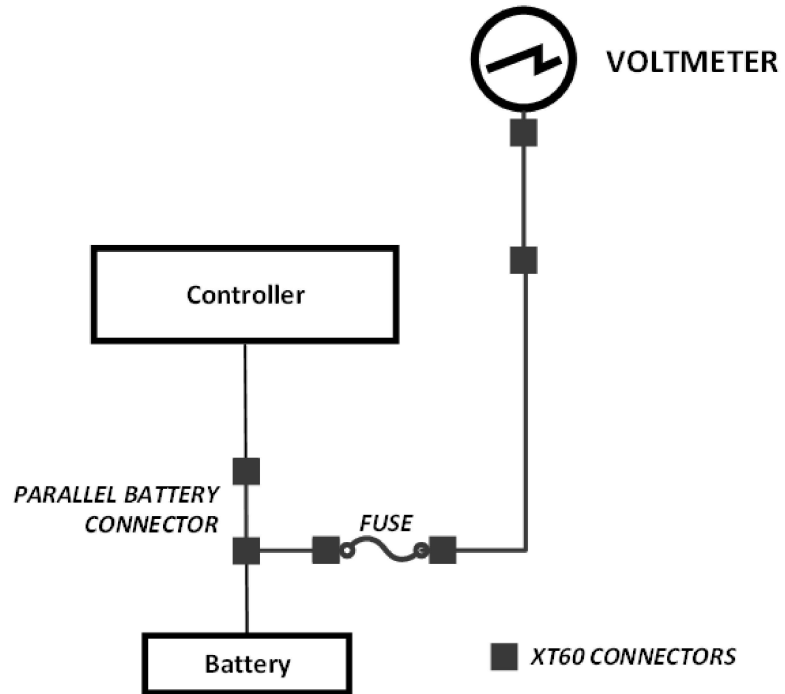


Figure 1 - Single Battery System

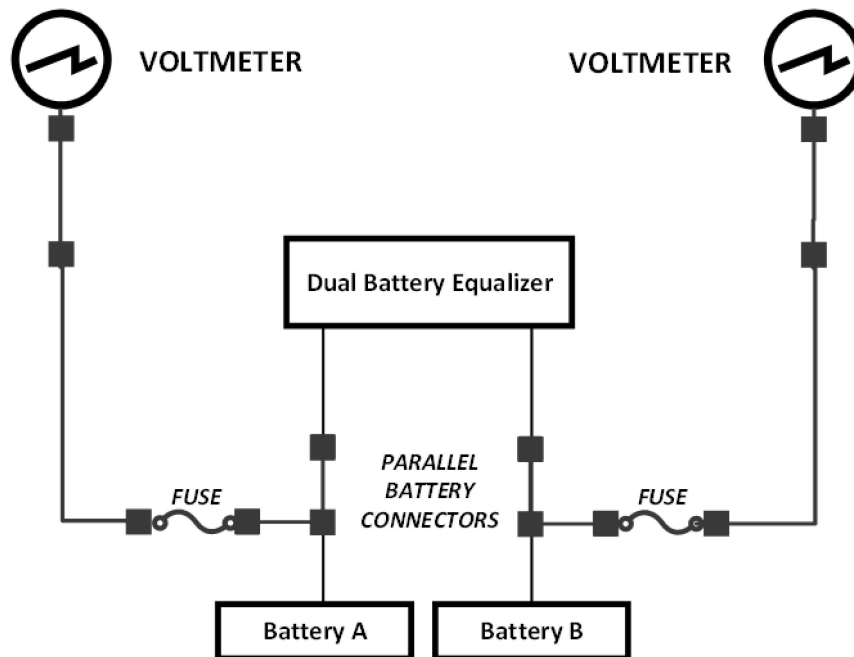


Figure 2 - Dual Battery System