

back strut of the golf car using zip wire ties. Leave the very end of the solar panel wire out and not in the battery area for now. Make sure the wire ends of the solar panel wire ends remain separated and covered.

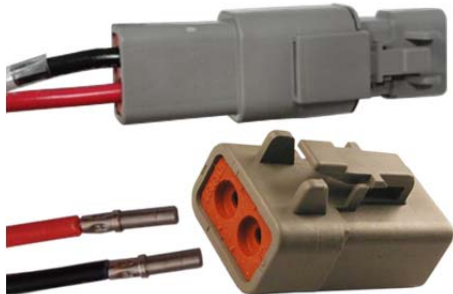


F. FEEDING THE GCPK SOLAR PANEL WIRE INTO THE BATTERY AREA

1) **For most models:** Make sure the solar panel wire ends remain independently covered with electrical tape. Thread your solar panel wire into the battery area without pinching it or causing it to later pinch over time.

2) For all models:

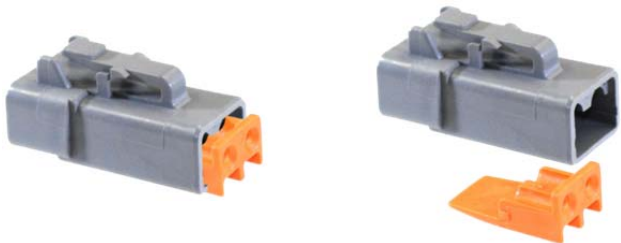
a. Remove only the electrical tape coverings on both the black (negative) and positive (red) solar panel wires. There will be pins on the ends that look like the left picture below, left.



b. Locate the MPPT charge controller wire that says "Solar In."

c. On the end of it will be the gray plug pictured above (right) that is already plugged in to the MPPT charge controller. Unplug it.

d. Take out the lock wedge piece for now (see pictures below).



Slide the black wire and red wire pins into the orange holes that will match the same color of wire on the opposite end of the plug that will plug into the "solar in" plug on the MPPT charge controller. You should hear a slight click. This means you have connected it correctly. Pull gently on it to make sure.



e. Reinsert the orange wedge lock on the connector. This will hold the pins into place.

f. . Test the plug by plugging it into the MPPT gray plug marked "solar in" to make sure it fits and also that the red is to red and black is to black.

g. UNPLUG THE SOLAR PANEL WIRE CONNECOR FROM THE MPPT connector. DO NOT PLUG IT IN AGAIN UNTIL THE VERY LAST STEP.

G. Attaching the Maximum Power Point Tracking ("MPPT") Charge Controller to golf car. WEAR SAFETY EYE WEAR AND PROTECTIVE GLOVES.



1. Locate and take hold of the enclosed MPPT charge controller (see above) .

2. Place two fastener pads on the MPPT charge controller as shown.

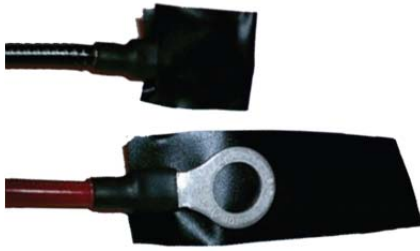
3. Test-position where to place the MPPT charge controller in the golf car battery area AND CLEAN THAT AREA THOROUGHLY SO IT IS GREASE AND DIRT FREE. Use rubbing alcohol as final cleaning.

4. With the wire ends and connectors of the MPPT charge controller facing up in the battery area, affix the MPPT charge controller so that it is 3.5" - 4" below the edge of the golf car seat edge. Press and hold firmly for at least 20-30 seconds.



H. ATTACHING THE BATTERY WIRE RINGS TO THE BATTERIES FIRST – gloves and eyewear should be worn at all times.

1. First tape both the positive and negative ring ends of the battery harness with electrical tape so no metal is exposed.



2. Attach the battery wire rings of the battery wire harness to the batteries in the following order:

a. Untapped only the black (negative-) ring end of the battery harness. Attach this ring connector to the last negative battery post in the battery series set.

b. Next, remove the tape red (positive+) ring end of the battery harness. Attach this ring connector to the very first positive+ battery post in the battery series.

3. On the red wire side you may see a very quick, slight spark when connecting. This is normal and only means the MPPT charge controller has recognized minor residual surface current from the batteries.

I. FINAL CONNECTION - RE-CONNECT the solar panel plug connector to the MPPT charge controller plug connector marked "Solar In." - Plug the connector ends together and the system will now be on.

J. TIDYING THINGS UP

1. In all models tidy up the Solarcell Mobility wiring, and neatly bundle and secure it, using either electric tape or plastic zip ties to attach them together.

2. In all models, neatly wrap the connectors with electrical tape sufficiently to seal out moisture and dirt.

3. FOR THE CLUB CARPRECEDENT - make sure that in the driver's side rear wheel well area there is no wire loose or visible slack. Pull the slack out by reaching into the motor area and pulling on the solar panel wire. Before reattaching the motor compartment cover zip tie Solar Mobility solar panel cable wire to other wires in the motor compartment area.

4. CONFIRM MPPT charge controller is now activated - when outside and the top is exposed to light, the MPPT charge controller light should blink slowly and this means everything is working and hooked up properly. If you see other light indicators, refer to the table below for the meaning.

5. Put the seat back on the golf car ensuring it covers the batteries. Check for any loose slack of the solar panel wiring prior to concluding your work.

Your Solar Mobility Inc. Model GCPK is now ready for use.

Contact Solar Mobility LLC about your problem and for any further instructions prior to any return merchandise authorization instructions.

V. MPPT Charge Controller Light Indicators

MODE	LED	LED INDICATOR	CONDITION
OFF		Blank	1) Disconnected from Batteries -or- 2) Input Low/Over-Voltage Shutdown
Bulk Charge		Blink Green 1 sec ON / 1 sec OFF	Maximum Charge Current 1.8A (+/-0.5)
Absorption Charge		Blink Green 1 sec ON / 1 sec OFF	Maximum Charge Voltage 56V (+/-0.4)
Float Charge		Steady Green	Constant Float Voltage 54V (+/-0.4)
Over Voltage Auto Shutdown ¹		Blink Red 5x - 0.5 sec ON / 0.5 sec OFF	Battery Voltage >58V (+/-0.4)

VI. Tips and Maintenance

Always check, maintain wires and water levels, and charge the batteries fully with the grid-charger prior to use with the Solar Mobility Inc. Model GCPK. Replace batteries that can't be equalized with the remaining batteries.

The Solar Mobility Inc. Model GCPK should be checked for proper wire connections from time to time to ensure uninterrupted problem-free use and function. Also check the top of the panel for any rips, tears, punctures. Wash off the top of the solar panel with cool to warm water only. Do not use chemical cleaners of any kind. Do not use abrasive brushes or applicators for cleaning.

Additionally, check that the top remains secured to the top of the golf car. You should from time to time check the MPPT charge controller to make sure it continues to be securely affixed to the area where you originally installed it and that the light indicator is working properly when outside and when the car is in use .

NEVER DIRECTLY SPRAY THE WIRES, MPPT. charge controller, or CONNECTION AREAS OF THIS PRODUCT. Doing so may void your warranty.

VII. Trouble-Shooting

A. If the MPPT charge controller appears not to be not working - (1) unhook the Solarcell Mobility wiring battery rings from the batteries. Use an electrical testing meter to see if the panel and MPPT charge controller are functioning by connecting the meter to the positive and negative rings connectors. Your readings should determine your VOLTAGE, either (36 or 48) system and be fairly stable the entire time. If not, the fuse may be bad, the panel is bad, or the MPPT charge controller has failed.

B. Check the solar panel top and make sure it is not covered, that there are not any tears, rips, or punctures to the panel or the cable wire that connects to the panel. Make sure the panel wire is not severely pinched or taught, bent etc.

C. If the MPPT charge controller continues not to work properly, first unplug the panel wire from the MPPT charge controller. Second, unhook the battery harness from the batteries. Do one battery ring connection wire at a time and always cover the battery rings with electrical tape immediately after removal to avoid crossing wires. You can remove the MPPT charge controller from the car only after all wire connections have been removed