

## POWER TENDER PLUS TROUBLESHOOTING CHECKLIST

### POWER TENDER PLUS (PTP) Software

SYMPTOM	POSSIBLE CAUSE	REMEDY
No Indicator lights are lit.	1 No AC power available.	Verify that AC power is available.
Green light turns on quickly at the beginning of the charge cycle. In some cases the red light be on for only a few seconds before the green light comes on.	1 Battery is already fully charged.	Disconnect the charger from the battery and check the battery voltage with a voltmeter. If battery voltage is at least 12.7 Volts, then it is fully charged.
	2 The charger ring terminals and / or the battery terminals are corroded or damaged.	Disconnect charger cables from battery and clean the batteries and the charger ring terminals. A number of non-acidic chemical products are available. One of the simplest to use is baking soda and water.
	3 Charger is not properly connected to the battery.	Check the electrical connections and the polarity of the connections, positive to positive, negative to negative. If the polarity was backwards, then the output fuse is probably blown.
	4 The charger output fuse is blown. There is a fuse in the charger output cable and there is another fuse in the ring terminal cable accessory.	<b>Replacement:</b> 7.5 Amp, 32 Volt, Fast Acting, ATC Blade Type. <b>Bussmann</b> PN: ATC-7.5.
	5 Battery may be defective.	Have battery load tested.
Red light stays on too long, charger will not switch to float.	1 Battery is not fully charged yet.	This is normal operation. Allow sufficient time for charge. See note below.
	2 Excessive load is present on battery during charge cycle.	Remove load from battery or battery from vehicle.
	3 Battery may be defective.	Have battery load tested.
Red and Green indicator lights are alternating at a slow rate, about once each second.	1 The quick connects are corroded or damaged.	Disconnect charger cables from battery and clean with alcohol and brush or enlarge pins with needle nose pliers.
	2 Battery may be defective.	Have battery load tested.

Remember that the charger, the battery, and the vehicle electrical system must all be connected and functioning properly.

LWOB POWER TENDER  
OR  
POWER TENDER PLUS VRW

Vehicle Electrical System

Positive Charge Current

Charge Current Return

Clips or Rings

NEG POS

Battery

DMM

Note: Be sure to allow enough time for the charger to recharge the battery. Typical motorcycle batteries have maximum amp-hour capacities of 20Ah or less. A 5 amp charger will probably take more than 5 hours to fully recharge batteries that large.

If your charger still has abnormal symptoms after trying the recommended remedies listed above, call or email Deltran Customer Service or Technical Support. Most of the troubles encountered when recharging batteries are due to poor quality or improper electrical connections between the battery and the charger.