



# DELTRAN BATTERY TENDER PLUS TROUBLEHOOTING CHECKLIST

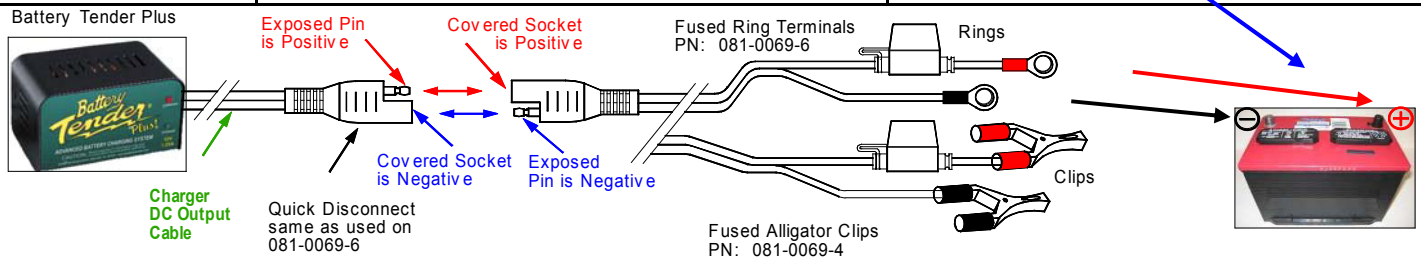


SYMPTOM	POSSIBLE CAUSE		RECOMMENDED ACTION
NO LEDs are ON.	1	No AC power available.	Ensure AC power is available to the outlet where the charger is plugged in.
The RED LED is FLASHING..	1	The fuse is defective in the ring terminal or alligator clip harness.	Replacement fuse: Bussman Blade Type: ATC-3 to ATC-7.5. (3A to 7.5A)
	2	Battery Tender Plus clips or rings are not hooked to the battery correctly.	Check the connections at the battery posts. If the connections look good but the RED LED still FLASHES, try reversing the polarity of the output cable assembly.
	3	Poor electrical contact.	See notes on cleaning electrical contacts.
	4	Battery may be defective.	Check Battery Voltages & Have battery load tested.
The GREEN LED seems to turn ON too quickly near the beginning of the charge cycle.	1	Battery is already fully charged.	Disconnect the charger from the battery and check the battery voltage with a voltmeter. If the battery voltage is at least 12.7 Volts, then it is fully charged.
	2	Poor electrical contact.	See notes on cleaning electrical contacts.
	3	Battery may be defective.	Check Battery Voltages & Have battery load tested.
The RED LED seems to stay ON for too long. The GREEN LED does not turn on. The Battery Tender Plus will not switch to absorption mode (GREEN FLASHING + RED SOLID) or float / maintenance, storage mode (GREEN SOLID + RED OFF).	1	The battery is large and takes a long time to recharge.	Allow sufficient time for charge. Large batteries take a long time to charge.
	2	Excessive load is present on battery during charge cycle.	Disconnect either the positive or negative vehicle harness from the battery post. See if the battery will charge correctly. If it does, reconnect the vehicle harness.
	3	Battery may be defective.	Check Battery Voltages & Have battery load tested.
The RED & GREEN LEDs alternate ON & OFF.	1	Safety Time Out has occurred.	Cycle AC power to restart charging system.
	2	Poor electrical contact.	See notes on cleaning electrical contacts.
	3	Battery may be defective.	Check Battery Voltages & Have battery load tested.

### Note: Cleaning Electrical Contacts:

Inspect and clean all exposed metal parts of charger DC output accessories, including the connector that makes contact with the charger DC output cable. Also inspect and clean the charger DC output cable and the lead posts on batteries. A number of non-acidic chemical products are available. One of the simplest to use is baking soda and water.

**CONNECTIONS TO BATTERY:** Regardless of the type of vehicle or battery, the charger positive DC output must be connected to the positive battery post, and the charger negative DC output must be connected to the negative battery post. **JUST REMEMBER BLACK TO BLACK, RED TO RED.**



Note: After the battery becomes approximately 75% to 80% recharged, the Battery Tender Plus will go into the absorption mode. At this time the GREEN LED FLASHES & RED LED remains ON SOLID. After a period of time, possibly as long as 8 hours, it will go into float / maintenance, storage mode. The RED LED turns OFF & the GREEN LED stays ON SOLID.

If you try the recommended actions listed above, and the charger still does not perform correctly, call or email Deltran Customer Service. Most troubles charging batteries are due to the electrical connections at the battery posts.

For inquiries and orders, contact:

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