

# TECH TIPS

Service Call:

**Battery charger fails to charge battery pack.**

Tools Needed:

Multimeter

Model:

**TZ34/20 & TZ50/30**



## Tech Tips Safety Rules



### **Danger**

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury. Many of the hazards identified in the operator's manual are also safety hazards when maintenance and repair procedures are performed.

### **Do Not Perform Maintenance Unless:**

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
  - manufacturer's instructions and safety rules
  - employer's safety rules and worksite regulations
  - applicable governmental regulations
- You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this tech tip is a supplement to the service manual. Consult the appropriate service manual of your machine for safety rules and hazards.

## Step 1

There are five LED lamps on the front of the battery charger. The first three are green and indicate the state of charge of the battery pack or, by all of them flashing together, a fault.

Count the number flashes between pauses to determine the fault:

- ONE FLASH: Charger output wires are open, shorted or reversed.
- TWO FLASH: AC voltage to charger out of the range 85 to 130 Volts.
- THREE FLASH: Charger overheated.
- FOUR FLASH: Output current too high; check for battery with one or more cells shorted.
- HP/BT LED lamp blinking: Bad cell in one of the batteries.
- HP/BT LED lamp on steady: Input AC voltage low or charger hot.



## Step 2

If the GEL LED lamp is on, it indicates the loop of yellow wire sticking out of the back of the charger has been cut. This is done when a battery pack consisting of gel type batteries is used. The factory batteries are flooded cell type.

After correcting the above listed faults, return the machine to service. If further assistance is required, please call customer service at: 1-800-536-1800 and ask for the TZ service department.

