

Operating Instructions for BATTERY CHARGER Catalog Number: 144-CHR-LI

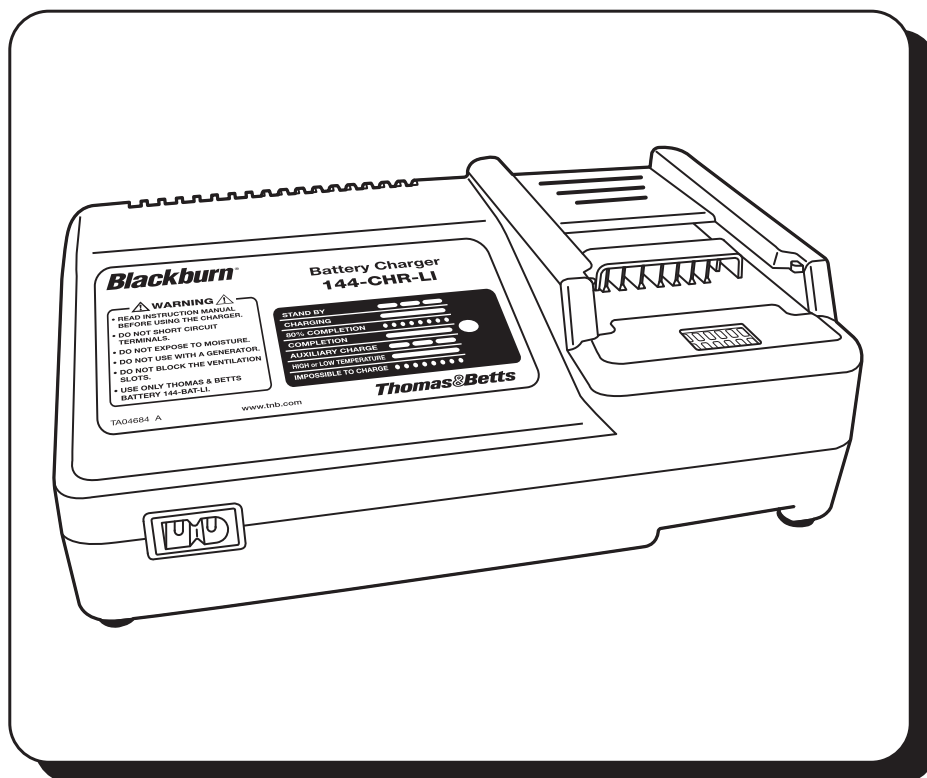


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IMPORTANT: Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

1.0

GENERAL INFORMATION

1.1 ABOUT THIS GUIDE

This guide presents the setup, use, maintenance and troubleshooting of the charger along with instructions for charging your batteries.

1.2 DESCRIPTION

This battery charging system is designed to charge Thomas & Betts 144-BAT-LI battery packs only. The charger can be used with either 110V AC or 220V AC power supply.

1.3 SAFETY GUIDELINES

Before using the charger, read all instructions and cautionary markings on the charger, battery and on any product using the battery.



WARNING

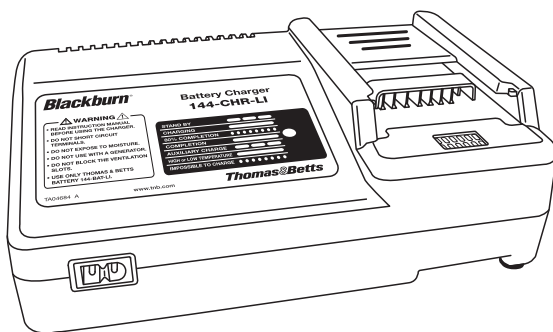
To reduce risk of injury, use this charger only with authorized products. Other batteries or adapters may cause personal injury and/or damage.

- Do not expose the charger to rain, snow or direct sunlight.
- Use the charger at an ambient temperature 50°F (10°C) to 95°F (35°C).
- Place the charger in a well-ventilated area, free of foreign objects/matter.
- To reduce risk of electric shock, unplug the charger from the outlet before cleaning.
- Dispose of used batteries in accordance with local hazardous material laws.
- Do not disassemble, incinerate, modify or short circuit batteries, charger or related components.

2.0

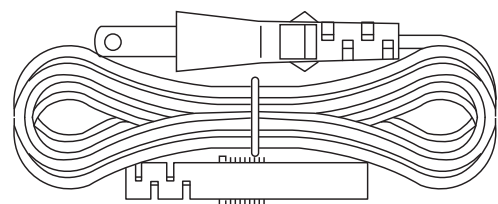
PARTS & ACCESSORIES

2.1 CHARGER (144-CHR-LI)



2.2 POWER CORD

AC POWER CORD



3.0

SPECIFICATIONS

3.1 CHARGER

- Input Voltage: 100-240V AC 50/60 Hz
- Output: 10.8- 14.4 V DC 7A
28.8 V DC 3A
- Dimensions: 9"L x 5.7"W x 3.2"H
- Weight: 3.5 lbs.

3.2 BATTERY

- Battery Type: Lithium Ion
- Output: 14.4 V DC
- Capacity: 3.0 Ah
- Charging Time: 25 min. 80% Capacity
45 min. 100% Capacity
- Dimensions: 4.2"L x 3.3"W x 2.6"H
- Weight: 1.2 lbs.

4.0

OPERATING INSTRUCTIONS

4.1 OPERATING TEMPERATURE RANGES



CAUTION

Do not charge a battery that has been stored below 32°F (0°C). Allow the battery to warm up to room temperature before charging.

The operating temperature range of the charger is 50°F (10°C) - 95°F (35°C). For best results, charge

batteries at room temperature 68°F -77°F (20°C - 25°C). Batteries charged in conditions above or below room temperature will exhibit battery cycle life and capacity below their rated values. This also applies to the temperature of the battery itself. Allow batteries to adjust to room temperature before charging.

4.2 POWER CORD CONNECTION

Connect the power cord and charger to a nominal 110-220 AC volt circuit. The indicator lamp should blink red, indicating stand-by mode. If the power light on the charger fails to light, an internal fuse may have blown and must be serviced by the manufacturer. Return the charger for repair or replacement immediately.



WARNING

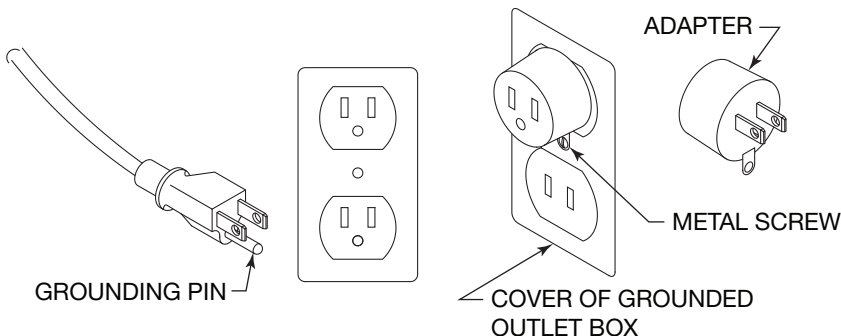
Never alter an AC cord or its plug. If it does not fit into your outlet, have a proper outlet installed by a qualified electrician. An improper connection can cause an electric shock. To reduce the risk of electric shock, the charger must be grounded.



WARNING

Before using an adapter, ensure that the outlet box is grounded. If you are not sure the box is grounded, have it checked and repaired, if necessary, by a qualified electrician.

A temporary adapter can be used to connect the grounding plug to a properly grounded two-prong outlet. A 110-volt adapter is shown below. Connect the grounding plug on the adapter to the outlet box using the cover plate screw. Use the temporary adapter only until a properly grounded, three-prong outlet can be installed by a qualified electrician.



4.3

BATTERY STATUS DISPLAY

BLINKING RED:

- Charger in stand by mode, ready for battery.

SOLID GREEN:

- Battery is charging.

RAPID BLINKING GREEN:

- Battery charging 80% complete.

SOLID ORANGE:

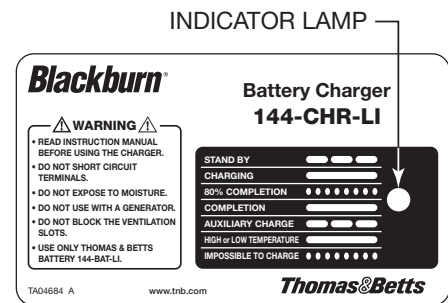
- Battery charging 100% complete.

SOLID RED:

- Battery temperature too high or low.

RAPID BLINKING RED:

- Defective battery, impossible to charge.



4.4

CHARGING THE BATTERY

- Insert the battery into the charger. When the battery is inserted, the charging system begins and the indicator lamp lights green. When the charge cycle is completed, the indicator lights orange, and the battery is fully charged. A charged battery may be stored in the charger indefinitely.
- If indicator lamp lights red upon battery insertion, the battery is too hot or cold. Remove the battery from the charger and allow it to reach room temperature before charging.
- If indicator lamp blinks red rapidly upon battery insertion, the battery is impossible to charge and must be replaced.

4.5

TROUBLESHOOTING

Symptom/Situation	Probable Cause	Corrective Action
Indicator (lamp) is not showing stand by mode (RED blinking) when charger is plugged in.	AC power supply cord not connected to wall outlet.	Check power cord connections.
	Power supply cord not connected to battery charger.	
	Bad power cord.	Replace power cord.
Impossible to charge indicator is displayed. (Rapid RED blinking)	Bad charger.	Replace charger.
	Faulty condition identified.	Remove battery from charger and reinsert.
	Defective Battery.	Replace battery.
Charger will not go into Charge mode. (GREEN solid indicator)	Battery not seated correctly.	Re-insert battery.
	Bad charger.	Replace charger.
	Defective battery.	Replace battery.
Battery becomes hot	Defective battery.	Immediately remove battery from charger and replace.

For parts and service, contact the tool service center at 1-800-284-TOOL (8665).

WARRANTY: Thomas & Betts sells this product with the understanding that the user will perform all necessary tests to determine the suitability of this product for the user's intended application. Thomas & Betts warrants that this product will be free from defects in materials and workmanship for the period stated on the enclosed warranty card. Upon prompt notification of any warranted defect, Thomas & Betts will, at its option, repair or replace the defective product or refund the purchase price. Proof of purchase is required. Misuse or unauthorized modification of the product voids all warranties.

Limitations and Exclusions: THE ABOVE WARRANTY IS THE SOLE WARRANTY CONCERNING THIS PRODUCT, AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED. LIABILITY FOR BREACH OF THE ABOVE WARRANTY IS LIMITED TO COST OF REPAIR OR REPLACEMENT OF THE PRODUCT, AND UNDER NO CIRCUMSTANCES WILL THOMAS & BETTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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