

Operating Instructions FOR TMB54CT-LI & TBM54CTS-LI CUTTING TOOLS

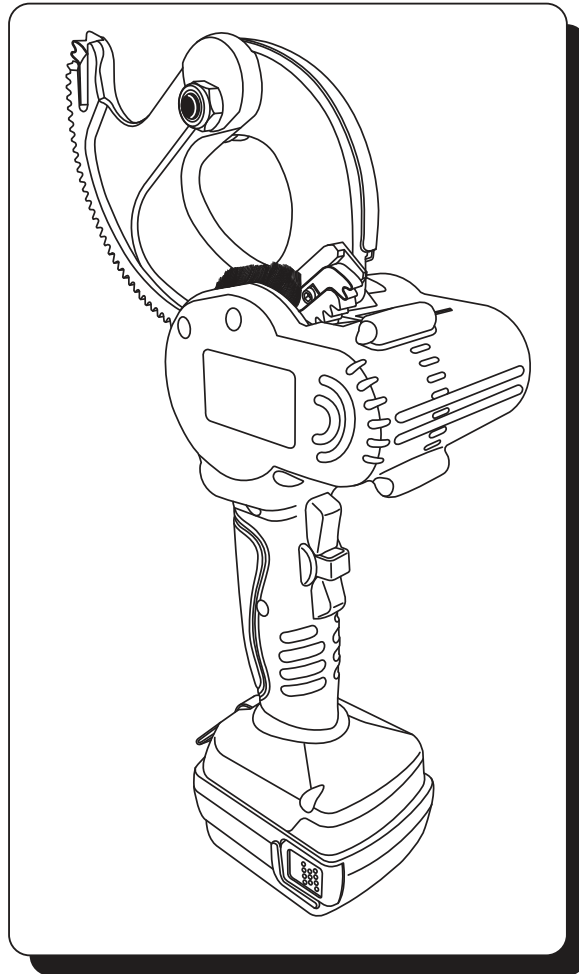


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IMPORTANT: Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

1.0

GENERAL INFORMATION

1.1 SAFETY RULES

1. **BE FAMILIAR WITH YOUR TOOL.**
Read the instruction manual. Become aware of its proper usage as well as the potential hazards.
2. **KEEP WORK AREA CLEAN AND WELL LIGHTED.**
Poor lighting and cluttered areas invite accidents.
3. **USE SAFETY GLASSES.**
4. **MAINTAIN TOOL WITH CARE.**
Keep tool in good condition at all times. Keep it clean for best and safest performance.
5. **DON'T OVER-REACH.**
Keep proper footing and balance at all times.
6. **NEVER ATTEMPT TO MAKE A CUT ON A "HOT" LINE.**
Never assume the power is OFF! Determine beforehand if any electrical hazards could exist when making a connection to a line or wire.
7. **KEEP FINGERS AND OTHER BODY PARTS AWAY FROM CUTTING BLADES & MOVING PARTS.**

WARNING



Tools are **NOT** insulated for use on or near energized conductors. Use of these tools near energized conductors may lead to electrical shock, causing severe injury or death. **DO NOT** use these tools near energized conductors without adequately insulating operator and surroundings.

WARNING



Pinch point hazard. Cutting Blades at high speed and force can cause severe personal injury. Keep all body parts away from moving parts of the tool during operation.

1.2 FEATURES

- Fully automatic, self-contained power tool.
- Removable battery cartridge - simply change the cartridge for continuous use.
- One handed operation - control blade advancement and retraction with one hand.
- Effortless cutting.

1.3 SPECIFICATIONS

CUTTING TOOL:

	TBM54CTS-LI	TBM54CT-LI
Drive Unit:	14.4V DC Motor	14.4V DC Motor
Dimensions:	16"L x 4.5"W x 5"H	16"L x 4.5"W x 5"H
Weight:	5.8 lbs. with battery	5.8 lbs. with battery
Capacities:	750 kcmil CU — ACSR - 636 kcmil	1000 kcmi CU 1500 kcmil Aluminum ACSR - DO NOT CUT

BATTERY:

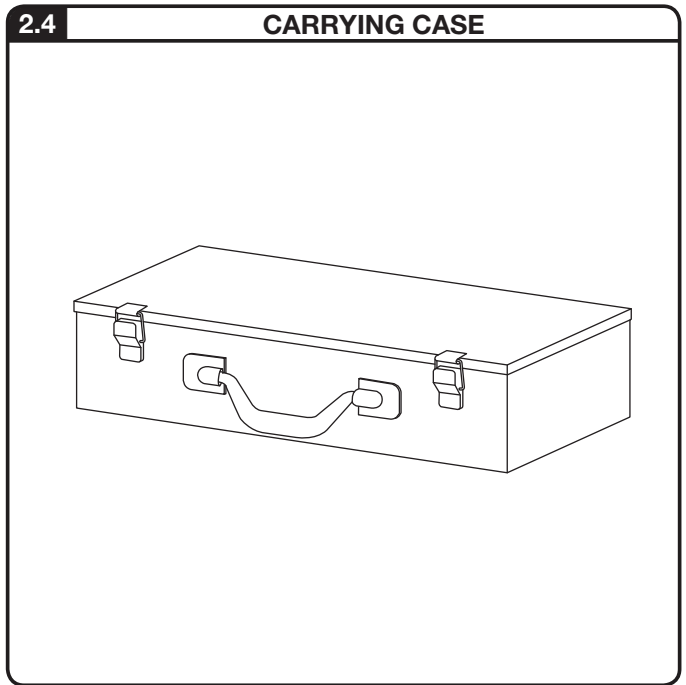
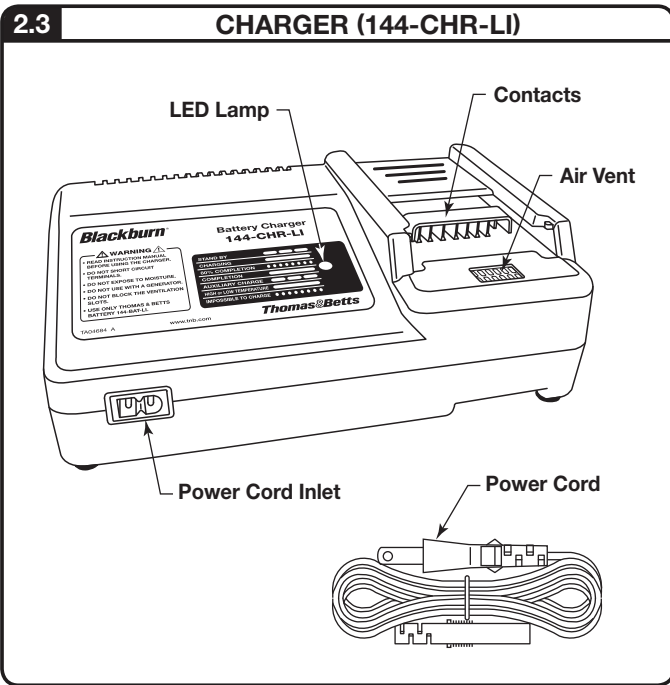
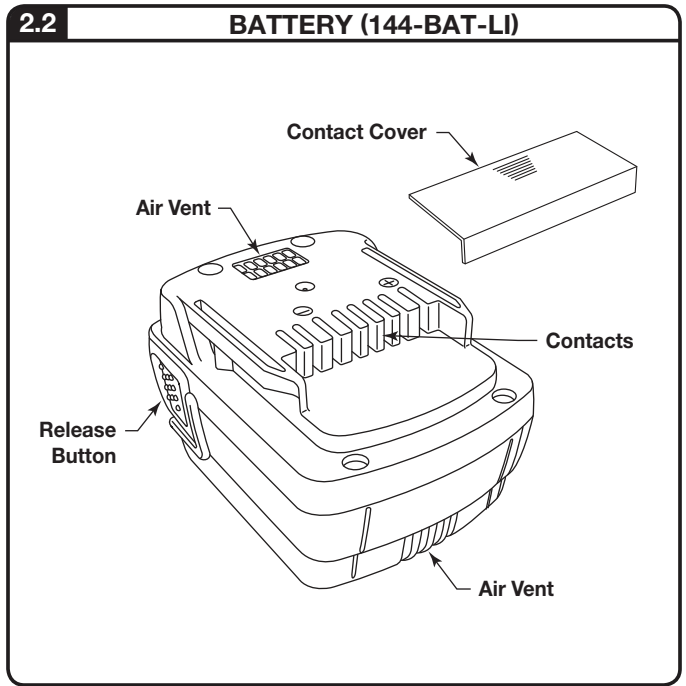
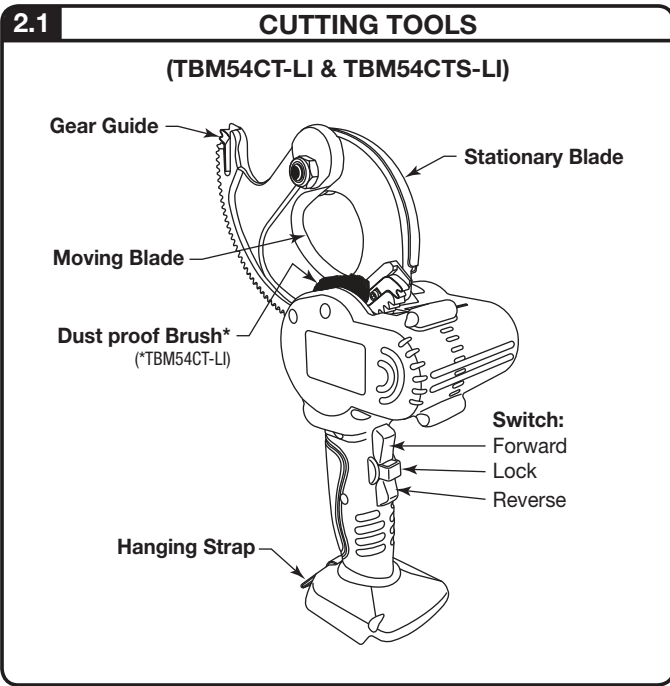
144-BAT-LI

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

CHARGER:

144-CHR-LI

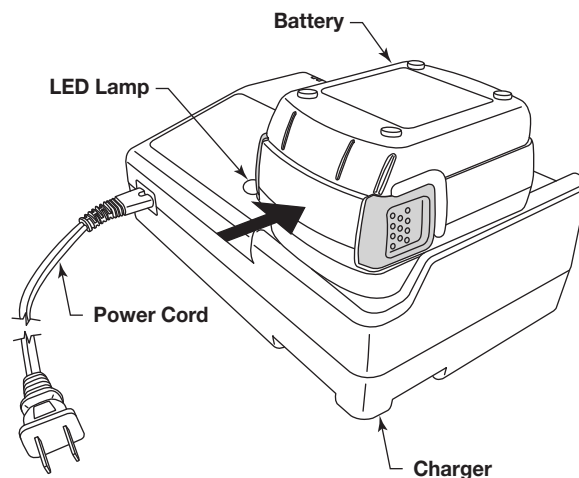
Input Voltage:	120 - 240 V AC Single Phase
Dimensions:	9"L x 5.7W x 3.2H
Weight:	3.5 lbs.



3.1

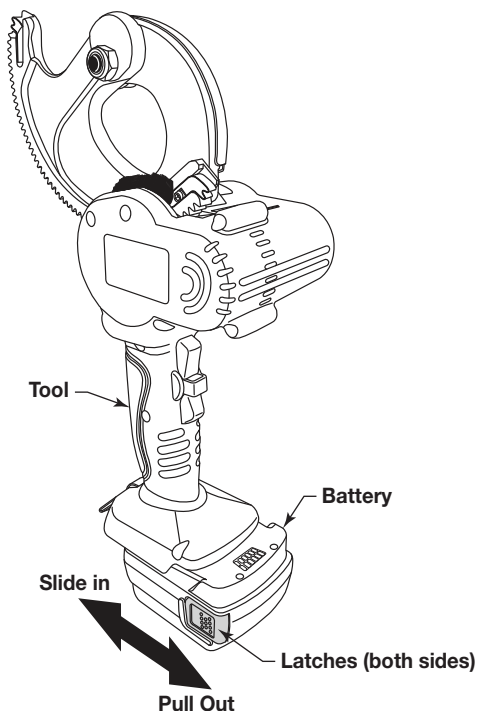
CHARGING THE BATTERY

1. Connect the power cord to the Charger 144-CHR-LI and to an AC outlet. The LED Lamp blinks in Red [STAND BY]
NOTE: The rated input voltage for this unit is 100V-240V. Use of voltages over 260V will result in damage to the charger.
2. Insert the Battery firmly to the charger.
The LED Lamp lights in green [CHARGING].
NOTE: Do not short-circuit the Charger by placing foreign materials in the contacts on Charger, as this will damage the Charger.
3. Charging takes approximately 25 minutes (80% capacity) and 45 minutes (100% capacity).
When charging is finished, the LED Lamp lights in orange [COMPLETION].
NOTE: If the LED Lamp displays solid red [HIGH TEMPERATURE], remove the Battery from the Charger and allow it to cool down before trying to charge it again.
4. When the battery will no longer charge or hold a charge, the LED Lamp blinks quickly in red [IMPOSSIBLE TO CHARGE].
5. When the charger is out of order, the LED Lamp does not light up even if AC power is supplied.
NOTE: Do not power the Charger with a portable generator.



3.2 ATTACHING & DETACHING THE BATTERY PACK

1. To attach the Battery, slide it into the base of the Tool until it stops and the Latches engage.
2. After inserting the Battery, check that it is securely in place by pulling it gently without pressing the Latches.
3. To detach the Battery, pull out the Battery while pressing the Latches.



3.3

CABLE CUTTING CYCLES

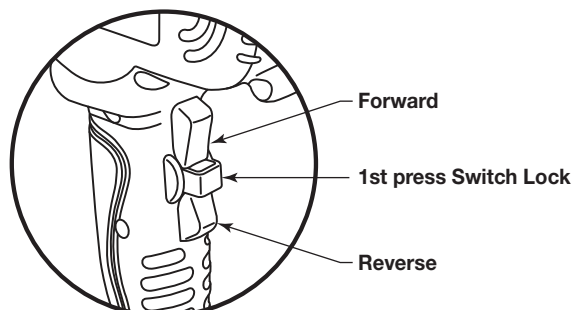
This guide indicates the number of cutting cycles that the TBM54CT-LI and TBM54CTS-LI can be expected to perform when the battery is fully charged. These figures are approximate and will vary according to the charging and other operating conditions, such as temperature, humidity, and battery condition.

TOOL	CONDUCTOR	144-BAT-LI
TBM54CTS-LI	750 kcmil CU	100
	636 ACSR	120
TBM54CT-LI	1000 kcmil CU	150
	1500 kcmil Aluminum	110

3.4

SWITCH OPERATIONS

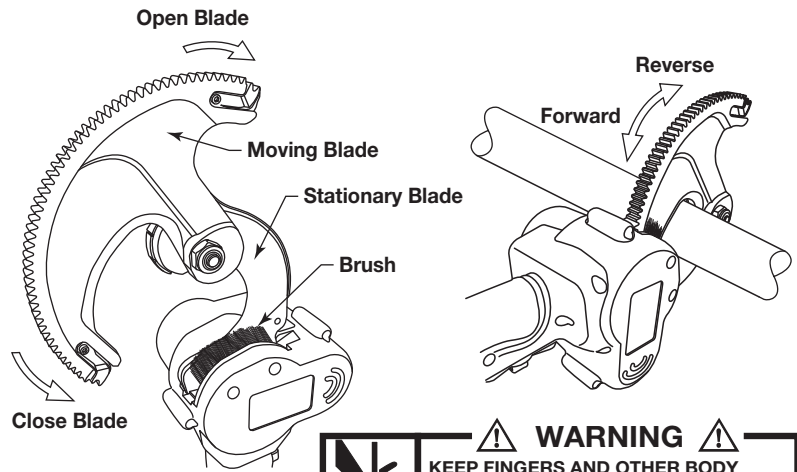
For safety purposes, the tool has a two-action switch system. To activate the Forward mode (Cutting) or Reverse mode (Release) switch, first press the Switch Lock and then press the Forward / Reverse mode switch.



3.5

CUTTING OPERATION

1. Open the Moving Blade by activating the reverse switch until the Moving Blade disengages from the drive mechanism.
2. Place the cable to be cut onto the Stationary Blade, and close the Moving Blade around the cable by feeding the Moving Blade by hand so that the gear teeth engage the drive mechanism of the unit.
3. Press the switch (Forward) to cut the cable. Keep the switch pressed until the cable is cut completely.
4. To cut several small cables continuously, alternate use of Forward and Reverse modes with the Moving Blade still engaged with the drive mechanism of the unit.
5. When finished, remove any dust or particles that may have become attached to the Brush.



WARNING

KEEP FINGERS AND OTHER BODY PARTS AWAY FROM CUTTING BLADES & MOVING PARTS.

3.6

CIRCUIT BREAKER

The cutter is equipped with a circuit breaker system which will activate and stop the tool in the following circumstances.

- Oversized or harder material is cut.
- The tool becomes overheated from successive use.
- Drawn amperage exceeds the rated amperage.

To continue using tool, release the forward mode switch, wait 10 to 30 seconds, and try again.

3.7

MAINTENANCE & INSPECTION

1. Daily maintenance is required to ensure that the tool is kept in good working condition.
2. To ensure smooth operation and prevent rust, store the tool in a cool dry area. Ensure that moving parts are lubricated regularly.
3. When the plastic housing becomes dirty, clean it with a soft soaped cloth.
4. If the tool is maintained regularly, it should provide you with trouble free service.
5. The blades are replaceable parts, If the blades are damaged or worn, replace them with new ones.

NOTE: Always remove the battery pack from the unit before replacing parts or maintenance.

3.8

TROUBLE SHOOTING

Problem	Cause	Solution
Charger LED lamp indicates stand by while battery is inserted.	There is dust or foreign objects lodged at the battery contacts.	Remove foreign objects.
The charger LED lamp indicates high or low temperatures	The battery is too hot or cold.	Allow the cartridge to reach room temperature before continuing.
The tool does not operate	The battery is not charged.	Charge the battery.
	There is dust or foreign objects lodged at the battery contacts.	Remove foreign objects.
	The switch lock is not fully depressed.	Follow the direction of SWITCH OPERATIONS on page 4.
Even fully charged the cutting capacity is reduced.	Battery has exceeded its useful life.	Replace the battery with a new one.
	Blade is damaged.	Replace the blade with a new one.

4.1 PRECAUTIONS FOR THE CUTTER

1. Cut only the specified material for your particular model cutter. Attempting to cut material not specified for the cutter will result in tool damage and personal injury. Read warnings and caution labels on the cutter before use.
2. Always point the cutter away from other people.
3. If the cutter is stored for an extended period at a temperature of less than 25 degrees F (-5 degrees C), the tool should be allowed to return to room temperature to ensure smooth operation. Use the tool only after it has been at room temperature for 1 hour.
4. Do not drop the cutter. Dropping the tool may damage the mechanical circuit and result in the tool not functioning correctly.
5. Keep the cutting blades clean and free of debris. Solvents can be used to clean the blades, but should not be used on plastic body. Use soap and water to clean the body.

4.2 PRECAUTIONS FOR THE BATTERY PACK

1. Do not short circuit the contacts or expose the battery to water, oil or solvents.
2. Do not disassemble or attempt to repair the battery or dispose of in a fire.
3. Do not drop or otherwise abuse the battery.
4. Do not leave the battery in locations where it will be exposed to a temperature greater than 104 degrees F (40 degrees C) for an extended period.
5. The battery has a limited life. When the cutting capacity becomes about 1/2 that of the original capacity, the battery should be replaced.
6. If the battery is stored without being charged, natural drainage will cause the power to be reduced. The battery should be charged every 3 months if not in use regularly.

4.3 PRECAUTIONS FOR THE CHARGER

1. The LED lamp lights up green and remains lit when the unit starts charging a battery. The indicator turns orange when charging is completed.
2. This unit is for charging battery 144-BAT-LI only. Do not use the charger for any other devices.
3. Allow battery cartridges to cool before charging. Allow at least 15 minutes between charges when charging several batteries in succession.
4. Charge batteries at an ambient temperature of 50-95 degrees F (10-35 degrees C). Charging time is approximately 25 minutes for 80% capacity and 45 minutes for 100% capacity.
5. Never short circuit the output contacts.
6. Do not expose the charger to water, oil or solvents.
7. Do not disassemble, modify, drop or otherwise abuse the charger.

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