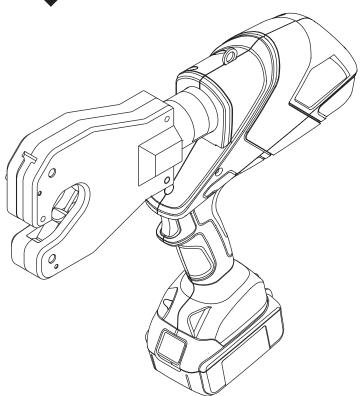
OPERATION MANUAL



Serial Number

3/17



EK6ATLX GATOR® Battery-powered, Crimping Tool



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



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All specifications are nominal and may change as design improvements occur. Greenlee Textron Inc. shall not be liable for damages resulting from misapplication or misuse of its products. GATOR is a registered trademark of Textron Innovations Inc. Bluetooth is a registered trademark of Bluetooth SIG, Inc. Blackburn is a registered trademark of Thomas & Betts.

Description

EK6ATLX Battery-powered, High-speed Crimping Tool is a hand-held, self-contained, dieless crimping tool intended to crimp aluminum and copper connectors onto electrical cable.

The tool has a retraction stop feature which allows the operator to stop the retraction motion of the ram to shorten cycle time.

The tool has a Bluetooth® connectivity and an LCD screen.

These tools are protected by U.S. Patent No. 6,206,663, 6,276,186, and 6,401,515.

Model X-EK6ATLX-FCC ID: 2AGL2X; IC ID: 20646X

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

Note: Change or modifications made to this equipment not expressly approved by Greenlee may void the FCC authorization to operate this equipment.

Safety

Safety is essential in the use and maintenance of Greenlee tools and equipment. This manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

Note: For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for an uncontrolled environment. The maximum reported SAR value is 0.08 mW/g

Purpose of this Manual

This manual is intended to familiarize all personnel with the safe operation and maintenance procedures for the following Greenlee tool:

• EK6ATLX Battery-powered Crimping Tool Keep this manual available to all personnel.

Replacement manuals are available upon request at no charge at www.greenlee.com.



Do not discard this product or throw away! For recycling information, go to www.greenlee.com.

KEEP THIS MANUAL



IMPORTANT SAFETY INFORMATION



SAFETY ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

ADANGER

Immediate hazards which, if not avoided, WILL result in severe injury or death.

AWARNING

Hazards which, if not avoided, COULD result in severe injury or death.

ACAUTION

Hazards or unsafe practices which, if not avoided, MAY result in injury or property damage.



AWARNING

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

Failure to observe this warning could result in severe injury or death.



AWARNING

Electric shock hazard:

This tool is not insulated. When using this unit on or near energized electrical lines, use proper personal protective equipment.

Failure to observe this warning could result in severe injury or death.

AWARNING

Wear eye protection when operating or servicing this tool.

Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.

AWARNING



Skin injection hazard:

Do not use hands to check for oil leaks. Oil under pressure easily punctures skin. If injured, seek medical attention immediately to remove oil.

Failure to observe this warning could result in serious injury, gangrene, or death.



AWARNING

Do not use solvents or flammable liquids to clean the tool body. Solvents or flammable liquids could ignite and cause serious injury or property damage.

AWARNING

An incomplete crimp can cause a fire.

- Use proper die, connector, and cable combinations. Improper combinations can result in an incomplete crimp.
- The relief valve sounds and the ram automatically retracts to indicate a completed crimp. If you do not hear the sound of the relieve valve or the ram does not automatically retract, the crimp is not complete.

Failure to observe these warnings could result in severe injury or death.

AWARNING



Pinch points:

- Remove battery before changing dies, adapters, or jaws.
- Keep hands away from the crimping tool head when crimping.

Failure to observe these warnings could result in severe injury or death.



IMPORTANT SAFETY INFORMATION

AWARNING

Do not dispose of batteries in a fire. They will vent fumes and may explode.

Failure to observe this warning could result in severe injury from harmful fumes or burns from flying debris.

AWARNING

Remove the battery before transporting the T version of this tool by air.

Failure to observe this warning could result in severe injury or death.

AWARNING

- Inspect tool and dies before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike nearby personnel.
- Carrying strap is for carrying only, not to be used to hang or suspend tool.

Failure to observe these warnings could result in severe injury or death.

ACAUTION

- Do not use this tool for continuous use. After 30 to 40 cycles, allow the tool to cool for 15 minutes.
- Do not secure this tool in a vise. This tool is designed for hand-held operation.
- This tool may be used in damp or wet environments; however, air-drying is recommended before use if the tool becomes soaked. Damage may result when the tool is operated prior to thorough drying when electrical components are soaked.
- Use this tool for the manufacturer's intended purpose only.

Failure to observe these precautions may result in injury or property damage.

ACAUTION

Do not allow anything to contact the battery terminals.

- Do not immerse the batteries in liquid. Liquid may create a short circuit and damage the battery. If batteries are immersed, contact your service center for proper handling.
- Do not place the battery into a pocket, tool pouch, or tool box with conductive objects. Conductive objects may create a short circuit and damage the battery.
- Do not place a battery on moist ground or grass.
 Moisture may create a short circuit and damage the battery.

Failure to observe these precautions may result in injury or property damage.

ACAUTION

- Do not store the battery at more than 122 °F (50 °C) or less than –4 °F (–20 °C). Damage to the battery can result.
- Do not use another manufacturer's charger. Other manufacturers' chargers may overcharge and damage the battery.
- Do not attempt to open the battery. It contains no user-serviceable parts.

Failure to observe these precautions may result in injury or property damage.

ACAUTION

Do not perform any service or maintenance other than as described in this manual. Injury or damage to the tool may result.

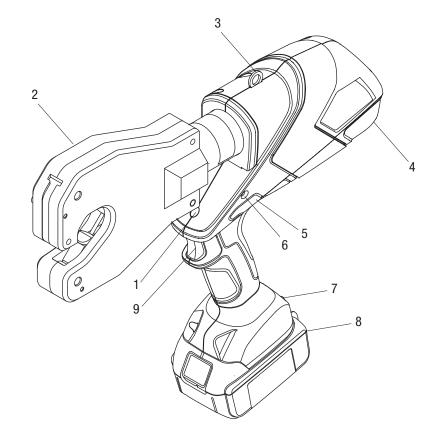
Failure to observe this precaution may result in injury and property damage.

Note: Keep all decals clean and legible, and replace when necessary.



Identification

- 1. LED Work Light (white)
- 2. Crimping Head
- 3. Lanyard Ring
- 4. Housing
- 5. Retract Button
- 6. LED Indictor (red)
- 7. LCD Screen
- 8. Battery
- 9. Trigger



Specifications

Crimping Tool
Length
Width3.00" (76 mm)
Height (with battery)
Weight11.4 lb (5.1 kg)
Crimping Force
Hydraulic Oil52057878 biodegradable hydraulic fluid
Recommended Operating Temperature Range 5 °F to 122 °F (-15 °C to 50 °C)
Crimping Capacities
Crimping Range 4 AWG to 500 kcmil
Battery ChargerRead the instructions supplied with the battery charger



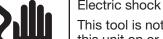
Operation

AWARNING

- Inspect tool and dies before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike nearby personnel.
- Carrying strap is for carrying only, not to be used to hang or suspend tool.

Failure to observe these warnings could result in severe injury or death.

AWARNING



Electric shock hazard:

This tool is not insulated. When using this unit on or near energized electrical lines, use proper personal protective equipment.

Failure to observe this warning could result in severe injury or death.



AWARNING

Wear eye protection when operating or servicing this tool.

Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.



AWARNING

Pinch points:

- Remove battery before changing dies, adapters, or jaws.
- Keep hands away from the crimping tool head when crimping.

Failure to observe these warnings could result in severe injury or death.

ACAUTION

- Do not use this tool for continuous use. After 30 to 40 cycles, allow the tool to cool for 15 minutes.
- Do not secure this tool in a vise. This tool is designed for hand-held operation.
- This tool may be used in damp or wet environments; however, air-drying is recommended before use if the tool becomes soaked. Damage may result when the tool is operated prior to thorough drying when electrical components are soaked.
- Use this tool for the manufacturer's intended purpose only.

Failure to observe these precautions may result in injury or property damage.

Charging the Battery

Read the instructions supplied with the battery charger.

LED Work Light (white)

This LED automatically turns on when the trigger is pulled. It remains on for 10 seconds after the trigger is released.

LED Indicator (red)

This tool is equipped with a special circuit board incorporating several important features to inform the user about the current status of the unit. The LED signals in the following cases:

What happens	Signal	What it means
Constant light for 20 seconds at end of cycle		Battery charge is below 17 V at beginning of cycle*
Tool will not start, and constant light for 20 seconds when trigger is released		Battery charge is below 16 V at beginning of cycle*
Tool will stop, and constant light for 20 seconds after trigger is released		Battery voltage drops below 13 V during cycle*
Tool will stop, and flashing light for 20 seconds when	••••	Motor current exceeds 20 A during cycle
trigger is released		Circuit has become too hot
Flashing light for 20 seconds at end of cycle	••••	Send tool in for service

^{*} Running the battery below 16 V can damage the battery.



Operation (cont'd)

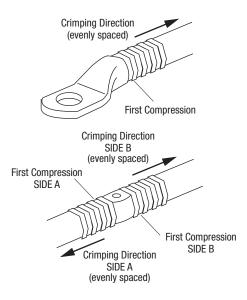
Pressure Sensor

This tool is equipped with a pressure sensor that alerts the user of an incomplete crimp.

- If the tool is manually retracted before completion of a crimp, the red LED and an audible beep will be active for 2 seconds.
- If the tool is unable to reach the required crimp force, the red LED, work light, and an audible beep will pulse until after the trigger is released.

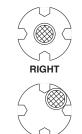
Preparation

Follow the lug manufacturer's instructions for appropriate cable strip length.



Crimping Procedure

Insert cable fully into connector. Center the connector between the nibs.



WRONG

ACAUTION

Small connectors may become wedged between the nibs of the tool. Center the connector between the four nibs before crimping.

Failure to observe this precaution may cause property damage.

- 2. Pull the trigger to advance the nibs. Hold the trigger down until the pressure relief valve activates.
 - Note: Pressure relief occurs at approximately 690 bar (10,000 psi) and is indicated by an audible "pop."
- 3. After achieving pressure relief, the ram automatically returns to the start position and the nibs retract.
- To stop the ram from returning fully, activate the trigger for a brief moment. This activation will close the retraction valve and stop the retraction motion.
- Complete the number of crimps specified by the connector manufacturer.

AWARNING

An incomplete crimp can cause a fire.

- Use proper die, connector, and cable combinations.
 Improper combinations can result in an incomplete crimp.
- The relief valve sounds and the ram automatically retracts to indicate a completed crimp. If you do not hear the sound of the relieve valve or the ram does not automatically retract, the crimp is not complete.

Failure to observe these warnings could result in severe injury or death.



Connector Selection

Tool Range: Copper − 4 AWG to 500 kcmil (except as noted Δ)

This tool is cUL and UL classified for use with the following connector brands:

CONNECTOR TYPE	BARREL TYPE	ANDERSON	BLACKBURN®	BURNDY	ILSCO	PANDUIT	T&B	PENN- UNION	NO. OF CRIMPS*
Copper	Short	VHSS	CSP	YS-L	CT	SCSS/SCS	54506–54518	BCU	
Splices	Long	VHS	CU	YS	CTL	SCL/SCH	54806-54818	BBCU	4 to 4/0 AWG:
Connor	Short	VHCS	CTL-2/CTL	YA-2LN/YA-L/YA-2L YA/YA-L-TC/YA-L-2TC	CSW∆ CRA/CRB	LCAS/LCA LCD	54106–54118 54206–54286	BLU	1 crimp 250 to 500 kcmil:
Copper Lugs	Long	VHCL	CTL-L/LCN	YA-2N	CLN, CLW∆ CRA-L/CRB-L CRA-2L/CRB-2L	LCB/LCC	54906BE-54919BE 54854BE-54876BE	BBLU	2 crimps



^{*}Use the number of crimps listed in the last column instead of the number provided with the connector.

LCD Screen

This tool has an LCD screen, which displays information about the tool. Turn on the screen by inserting the battery and jogging the tool. If there are any problems with the tool, an error code appears.

Error Code	Meaning
1	Overcurrent fuse
2	Overcurrent comparator
3	Overheated circuit board
4	Overheated battery
5	Battery empty; operation stops
6	Faulty crimp; complete cycle
7	Faulty crimp; incomplete cycle
8	Low battery
9	Battery empty; tool won't run
10	Real-time clock battery low
11	Tool deactivated
12	Service necessary
13	Real-time clock not found
14	Bluetooth® unit not found
15	
16	Pressure sensor not found
17	Burst pressure exceeded
18	Battery temperature too low

If there is no error code, cycle through the various displays using the left and right buttons on either side of the screen. There are seven displays in total.

Display	Information Shown
1	Bluetooth® status, battery charge, current pressure, max. pressure
2	Firmware, available firmware update, serial number
3	Current user. Press and hold both buttons to change user, select with right button, and confirm by jogging the tool.
4	
5	
6	Cycles until next service
7	Since manufacturing: operating hours, capacity, number of cycles

[△] ILSCO Capacity: 4 AWG to 250 kcmil



Maintenance



AWARNING

Wear eye protection when operating or servicing this tool.

Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.

AWARNING



Skin injection hazard:

Do not use hands to check for oil leaks. Oil under pressure easily punctures skin. If injured, seek medical attention immediately to remove oil.

Failure to observe this warning could result in serious injury, gangrene, or death.

AWARNING



Do not use solvents or flammable liquids to clean the tool body. Solvents or flammable liquids could ignite and cause serious injury or property damage.

AWARNING



- Pinch points:
- Remove battery before changing dies, adapters, or jaws.
- Keep hands away from the crimping tool head when crimping.

Failure to observe these warnings could result in severe injury or death.

IMPORTANT

Relief valve adjustments must be done by an authorized service center.

Daily

Before use:

- 1. Inspect the tool for wear or damage, such as cracks, gouges, or chips.
- 2. Inspect the tool for damage or leaks.
- 3. Inspect the rotation of the head assembly. Fully retract the ram. The head should rotate no more than 360°. If damage is detected, contact Greenlee customer service at 800-435-0786 for warranty service or repair.

After use:

- 1. Use a damp cloth and mild detergent to clean the housing. Allow the housing to dry.
- 2. Fully retract the ram. Place the tool in the carrying case and store in a cool, dry place.
- 3. If necessary, recharge the batteries. Refer to the instructions supplied with the battery charger.

Monthly

Thoroughly clean all surfaces.

Annually or After 10,000 Crimps

Contact Greenlee customer service at 800-435-0786 for warranty service or repair, and hydraulic oil replacement.



Troubleshooting

Before You Begin

- Make sure that the battery is charged. Recheck the battery after several minutes to make sure the battery is holding its charge.
- 2. Use a **nonflammable** contact cleaner or pencil eraser to clean the electrical contacts on the battery and tool.
- 3. Reinstall the battery and check the tool again.

Problem	Possible Cause	Probable Remedy
Tool is inoperative.	Battery charge low.	Charge or replace battery.
	Dirt, contaminants, etc., in ram area of tool.	Clean tool.
	Tool components worn or damaged.	Contact Greenlee customer service at 800-435-0786 for warranty service or repair.
Motor is inoperative.	Low or uncharged battery.	Try known charged battery. Inoperative battery may be discharged or may have reached life expectancy.
	Broken switch components.	Contact Greenlee customer service at 800-435-0786 for warranty service or repair.
Motor runs but tool will not complete a cycle.	Oil level low.	Contact Greenlee customer service at 800-435-0786 for warranty service or repair.
	Air in hydraulic system.	Pull trigger and hold retract button simultaneously. Run for approximately 10 seconds, and then attempt to crimp. If unsuccessful, contact Greenlee customer service at 800-435-0786 for warranty service or repair.
	Cold oil.	Pull trigger and hold retract button simultaneously to warm oil. Store tool in warm area.
Tool loses oil.	Damaged seal.	Contact Greenlee customer service at 800-435-0786 for warranty service or repair.







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