

Z30

12 Tonne Hydraulic Battery Crimper Instruction Manual



This Instruction Manual was designed with great care and proper testing before publication to ensure the product works perfectly with TriCab flexible cables. TriCab is not liable for any errors, omissions, damages etc. due to improper use of this product, included but not limited to improper installation deviating from this Guide, safety and warning rules violation, using unsuitable cable other than TriCab flexible cable. TriCab reserves the right to modify this Instruction Manual at any time without prior notice.

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TCIM-ACC-Z30 Rev. 00



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Introduction

- Before using the tool please read this instruction manual carefully.
- Use this tool exclusively for its determined use.
- This instruction manual must be maintained during the entire lifespan of the tool.
- The operator must:
 - Guarantee the availability of the instruction manual for the user and,
 - Make sure that the user has read and understood the instruction manual

1. Work Area Safety

Keep work area clean, clear and well lit. Cluttered or dark areas cause accidents.

- a. This tool is not insulated; please do not use it on live conductors
- b. Please do not use or store the tool in high temperature or corrosive environments. Pay attention to the aging of the sealing kits.
- c. Keep children and bystanders away while operating the hydraulic crimping tool. Distractions may lead to loss of control.

2. Electrical Safety

- a. Make sure the charger plug matches the outlet. Do not modify the plug.
- b. Do not expose the tool, battery or charger to rainy or humid surroundings. If any water goes into the electrical system of the tool, it may trigger an electric shock during operation.
- c. Do not use the cord to carry or pull the charger or draw out the plug. A damaged cord may cause an electric shock.
- d. If the charger undergoes any physical or electrical damage, do not use it or attempt to repair it. Contact TriCab immediately as the damaged charger may cause an electric shock.
- e. The best temperature for charging is between 10°C to 40°C. Make sure the air hole of the battery and the charger are uncovered during charging.
- f. Please do not use the charger during bad weather.
- g. Please do not burn the battery or short circuit it.
- h. Keep the tool out of reach of children and other persons who have not been instructed of its proper use.

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3. Personal Safety

- a. Stay alert, watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol or medication. A moment of inattention may result in serious personal injury.
- b. Always use Personal Protective Equipment when operating the tool. Always wear eye protection. Other equipment such as dust masks, safety boots or hearing protection should be used for appropriate conditions to reduce risk of personal injury.
- c. Wear proper attire. Do not wear loose clothing or jewellery. Keep hair, clothing and gloves away from moving parts.
- d. Maintain the tool. Check for misalignment or binding of moving parts, breakage of parts and any other conditions that may affect the tool operation. If damaged, have the tool repaired before use.
- e. Use the tool only for its intended use with the correct accessories.
- f. Avoid touching the head of the tool during its operation. Fingers placed on the crimping surface may be injured severely.

4. Understand your Tool

Z30-AAXX/16J400 is a tool designed to terminate conductors ranging from 16-400mm² for Copper and 16-300mm² for **ALI-FLEX®** cables using standard 12 Tonne crimping dies.

Specifications:

Max. Crimping Force	120kN
Crimping Range	Cu: 16-400mm ² ALI-FLEX®:16-300mm ²
Stroke	42mm
Hydraulic Oil	DTE24#
Operating Temperature	-10 to 40° C
Voltage	18V
Crimping Time	6 - 18s (Depends on cable size)
Crimps /charge	Approx. 120 times (CU 150mm ²)
Charging Time	30 mins
Package	Plastic Case

**ALI-FLEX® is a registered name for TriCab Flexible Aluminium Cables*

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Accessories:

Battery	2 pcs
Charger	1 pc

Description of Components



Item No	Description	Function
1	Retainer Pins	Lock/unlock Crimping Dies
2	Die Retainers	Holds the crimping dies in place
3	LED bulb	Lights up during operation
4	LED Indicator	Indicates the operating condition and battery charge
5	Release Button	Manually retracts the piston
6	Trigger Button	Starts the Crimping Process
7	Battery Lock	Lock/unlock battery
8	Battery	Supply Power (18V)

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Function of Description

Brief description of the important features of the unit



The hydraulic unit incorporates an automatic retraction which returns the piston to its starting position when the maximum operating pressure is reached.



The manual retraction allows the user to return the piston to the starting position when required.



The crimping head can smoothly rotate 360° around the longitudinal axis in order to gain better access to tight corners and other difficult working areas.



A buzzer sounds, and the LED indicator turns red if any errors occur.



The crimp process is activated by one trigger button. This results in easy handling and a better grip compared to a 2-button operation.



Li-ion batteries neither have a memory effect nor self-discharge. Even after long periods of non-operation the tool will be ready to operate. In addition, it has a lower power weight ratio with 50% more capacity and shorter charging cycles.



A temperature sensor makes the tool stop working automatically when the temperature exceeds 60°C over a long period. The tool emits a sound and will not start working until it cools down.

Hardware Action Description	LED Indicator (Red)	LED bulb (White)	Buzzer
Insert Battery	Lights up for 1s then flash twice and turns off	x	x
Push the trigger (motor working)	x	Lights up	x
Release the trigger (motor stops working)	x	Continues to be lit for 20s, then turns off	x
Re-push the trigger within 20s after releasing the trigger	x	Lights up	x
Battery - low power (motor not working)	Flash 3 times	x	Sounds 3 times consecutively
Battery - low power (motor working)	Lights up for 3s	x	Sounds for 3s

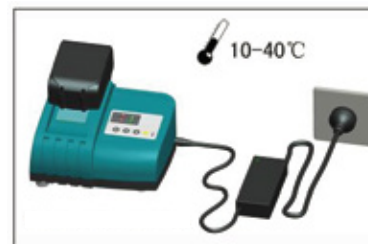
The table above describes the various actions that trigger the LED bulb and Buzzer.

5. Operating Instructions

**Check the tool carefully for damages before starting the crimping process.
Make sure the tool is complete and contains no damaged parts.**

Charging

Make sure the battery is clean and dry before inserting the battery into the charger and the room temperature is between 10°C to 40°C. The charging time is approximately 30 minutes. Refer the battery charger instruction manual for further information.



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Operation

- 1.** Insert the battery into the crimping tool. Check whether the LED indicator lights up. If the bulb flashes red 3 times, the battery charge is low. Replace the battery with a fully charged one.
- 2.** Place the dies into the 'C-Shaped' crimp head by pressing the retainer clips and sliding them into place. **Do not operate the tool without the dies in place.** Continuous operation without the dies may damage the crimp head.
- 3.** Position the lug inside the crimp head, on the non moving die.
- 4.** Press and hold the trigger button to start the crimping process. The piston with one half of the die moves towards the other half and in the process compresses the barrel of the lug.
- 5.** The crimping cycle is terminated when the dies are in contact with each other and the maximum crimping force has been reached. After the crimping cycle has been completed, the piston retracts automatically. A new cycle can be initiated by pressing the trigger button again, or the process can be terminated by removing the lug and dies out of the head.



⚠ CAUTION

The crimping process can be interrupted at any moment by releasing the trigger.

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Additional Safety Instructions

1. Do not damage any parts of the tool. This may cause the tool to malfunction which may lead to injury.
2. Do not operate the tool without dies. This may damage the tool and cause injury.
3. The built-in safety valve undergoes strict pressure testing and calibration. It must only be adjusted by qualified personnel. If the pressure is not enough, please return the tool to TriCab. It can only be re-used after it has been checked and tested by a qualified person.

▲DANGER

**Do not place fingers into the head of the tool during operation.
This may cause a serious injury.**

6. Maintenance and Servicing

The tool has been designed carefully and with precision to be used only for its intended function. Disassembly must only be carried out by qualified personnel. TriCab will not be responsible for problems caused due to disassembly by other persons.

1. Keep tool dry. Prolonged contact with water or other liquids may lead to corrosion of the tool body and electric parts. If the tool comes in contact with a liquid, take out the battery and assembly it back only after all components are fully dry.
2. Avoid exposing the tool to extreme fluctuating temperatures. This may cause deformation in the plastic housing, shorten the life span of the electric parts and damage the battery.
3. Avoid using any chemical reagents to wash the tool.
4. In order to prolong the life span of the tool, replace the hydraulic oil annually.
5. If the tool is not to be used for a long period, please make sure the piston is at its starting position, clean the tool and paint it with rustproof oil. Place the tool in a box and store it in a dry area.
6. The Sealing Kit inside the tool will be abraded to some degree after continuous use. If there is an oil leak, please contact TriCab to replace it.

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PLEASE READ THE FOLLOWING CAREFULLY

TRICAB DOES NOT MAKE ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. TRICAB EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE CARRIED OUT BY TRICAB CERTIFIED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLTION OF REPLACEMENT PARTS THERETO.



We shall in no event be liable for death, injuries to persons or property from the improper use and lack of maintenance of our product. Any doubt of safety operation and precaution, please contact TriCab.



Please properly dispose of all packing materials and removed parts.

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TriCab (Australia) Pty Ltd Warranty for Z30 (TCAF02)

This express warranty is given by TriCab (Australia) Pty Ltd (TriCab) of 33 Prohasky Street, Port Melbourne Victoria 3207 Australia, telephone (613) 9676 6000 Fax (613) 9676 6001, email: warranty@tricab.com.

TriCab warrants that new **Z30 12-Tonne Hydraulic Battery Crimper** will be free from defects in material and workmanship for a period of 12 months from the date of purchase.

TriCab's sole obligation under this warranty is, at its option, to carry out work to repair or replace a defective product or to provide a refund for the purchase price of such product. This warranty does not include installation costs, consequential losses, or other loss or damage, that may be caused by a defective product.

The benefits to the consumer given by this warranty are in addition to other rights and remedies of the consumer under a law in relation to the goods or services to which the warranty relates. Otherwise, to the extent permitted by law, this warranty is expressly given in substitution for all implied warranties.

Conditions that must be met to obtain warranty coverage

Coverage under this warranty is conditional upon the product being used in accordance with TriCab document number **TCIM-ACC-Z30** Installation Manual and **Z30** Product Specification.

How to make a claim under this warranty

Contact TriCab by email, fax or post to notify us of your claim and provide us with your contact information and information about the product including a description of the product and its defect, the supplier of the product and when it was supplied to you. We will then provide you with instructions on what else we require you to do so that we can assess your claim under this warranty.

You must follow those instructions and, if requested, provide us with satisfactory evidence that the defect appeared within the warranty period. This warranty ceases to have any force or effect if a claim is not made in accordance with this warranty within a period of 12 months from the date of purchase.

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Warranty exclusions

This warranty does not cover:

- Damage due to neglect, weathering, misuse, alteration, accident or abnormal conditions of handling an operation, including failures caused by use outside of the **Z30** specification, product's intended purpose and installation
- Repair made by non certified TriCab technician.
- Replacement of parts which are not supplied by TriCab.
- Loss or damage which you may suffer or incur as a result of a defect in the product such as, without limitation, any consequential, indirect, special, punitive or incidental damages or loss or damage arising out of labour costs in removing and/or replacing the defective product, repairing or replacing other parts or products which are not supplied by TriCab (Australia), loss of profit, loss of goodwill or business or any interruption to business.

You bear the expense of claiming the warranty

This warranty does not cover expenses which you may incur in claiming the warranty.

Disclaimers and limitations:

Except for applicable guarantees which a consumer may have under the Australian Consumer Law and any other rights and remedies that a consumer may have under the Australian Consumer Law or any other applicable law which cannot be excluded, all other warranties whether express or implied including warranties of merchantability and fitness for purpose are expressly disclaimed.

Where a product has been supplied in the course of trade or commerce to you as a 'consumer' within the meaning of section 3 of the Australian Consumer Law:

If you acquire particular goods as a consumer within the meaning of section 3 of the *Australian Consumer Law*, the goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. To the extent permitted by the *Australian Consumer Law* our liability under such guarantees is limited to the repair or replacement of the goods or the refunding of money paid for the goods.

Effective Date: 10 July 2019

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