




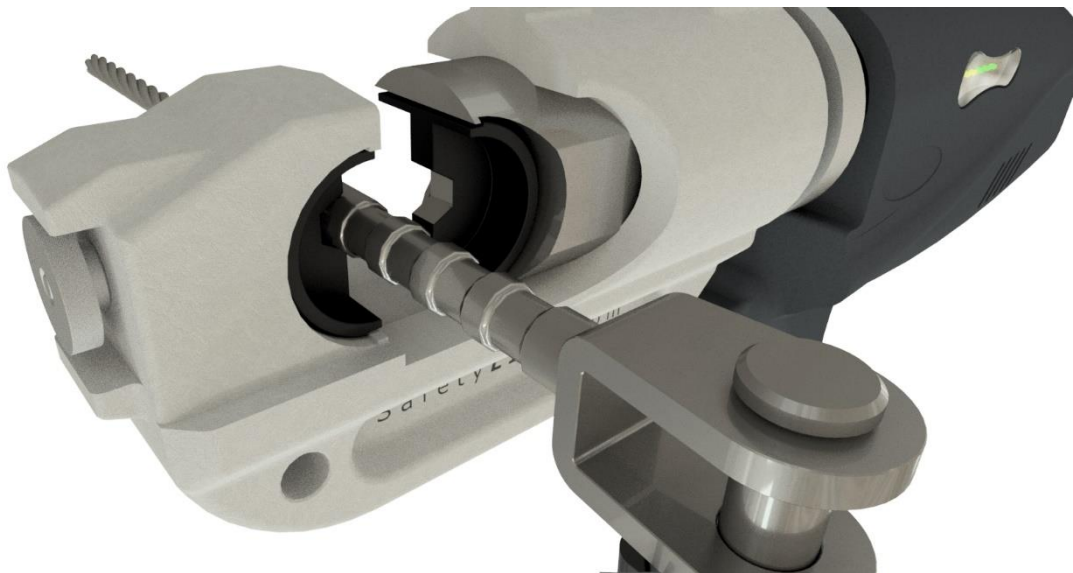


INSTALLATION HANDBOOK

CRIMPING TOOL

SafetyLink is an innovative anchor company achieving success and keeping you safe whilst working at heights.

-  ROOF ANCHORS
-  HORIZONTAL LIFELINES
-  PERMANENT LADDERS
-  LADDER STABILIZERS
-  TEMPORARY ANCHOR



Read entire handbook before installing SafetyLink products. All products must be installed in accordance with SafetyLink's installation handbook, using only products supplied by SafetyLink Pty Ltd. Failure to follow all warnings and instructions may result in a serious injury or death.



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SafetyLink Crimping Tool

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WARRANTIES

EXTRACT: SafetyLink Pty Ltd STANDARD TERMS AND CONDITIONS

- 11.1 To the extent permitted by law all implied conditions, warranties and undertakings are expressly excluded.
- 11.2 Except as provided in this clause the Company shall not be liable for any loss or damage, whether direct or indirect (including consequential losses or damage) arising out of any breach of contract by the Company or any negligence of the Company, its employees or agents.
- 11.3 Should the Company be liable for a breach of a guarantee, condition or warranty implied by the Australian Consumer Law (not being a guarantee, condition or warranty implied by sections 51, 52 and 53 of that Law) then its liability for a breach of any such condition or warranty express or implied shall be limited, at its option, to any one or more of the following.
- A) in case of Goods
 - (I) the replacement of the Goods or the supply of equivalent Goods.
 - (II) the repair of the goods,
 - (III) the payment of the cost of replacing the Goods or acquiring equivalent Goods.
 - (IV) The payment of the cost of having the Goods repaired.Provided that any such Goods are returned to the Company by the Purchaser at the Purchaser's expense.
 - B) in the case of services
 - (i) the supply of the services again,
 - (ii) the payment of the cost of having the services supplies again.
- 11.4 The Company will not liable for the costs of recovery of the Goods from the field, loss of use of the Goods, loss of time, inconvenience, incidental or consequential loss or damage, nor for any other loss or damage other than as stated above, whether ordinary or exemplary, caused either directly or indirectly by use of the Goods.
- 11.5 The Company warrants that at the time of shipment, Products manufactured by it will be free from defects in material and workmanship. In the absence of a modified written warranty, the Company agrees to making good any such defects by repairing the same or at the Company 's option by replacement, for a period of (1) one year from the date of shipment. This limited warranty applies provided that:
- (a) defects have arising solely from faulty materials or workmanship;
 - (b) the Products have not received maltreatment, inattention or interference;
 - (c) **the Products have been installed in accordance with the Company's Installation Handbooks using only products supplied by the Company;**
 - (d) accessories used with the Products are manufactured by or approved by the Company ;
 - (e) the Products are maintained in accordance with Australian Standard 1891.4 (section 9).
 - (f) you notify any claim under this warranty to SafetyLink in writing to the address below no later than 14 days after the event or occurrence concerning the produce giving rise to the claim and you pay all costs related to your claim.

This warranty does not apply to any defects or other malfunctions caused to the Goods by accident, neglect, vandalism, misuse, alteration, modification or unusual physical, environment or electrical stress.

Please note that the benefits to the purchaser (as a consumer) given by this warranty are in addition to your other rights and remedies under the Australian Consumer Law. Our 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 and compensation for any other reasonably foreseeable loss or damage. 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.

- 11.6 If any goods are not manufactured by the Company, the guarantee of the manufacturer thereof shall be accepted by the Purchaser as the only express warranty given in respect of the goods.
- 11.7 Except as provided in this clause 11, all express and implied warranties, guarantees and conditions under statute or general law as the merchantability, description, quality, suitability or fitness of the Products for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are hereby expressly excluded (to the extent to which they may be excluded by law).

PLEASE SEE SAFETYLINK PTY LTD FULL STANDARD TERMS OF CONDITIONS OF SALE FOR FURTHER REFERENCE.



USAGE GUIDE – CRIMPING TOOL

Figure 1



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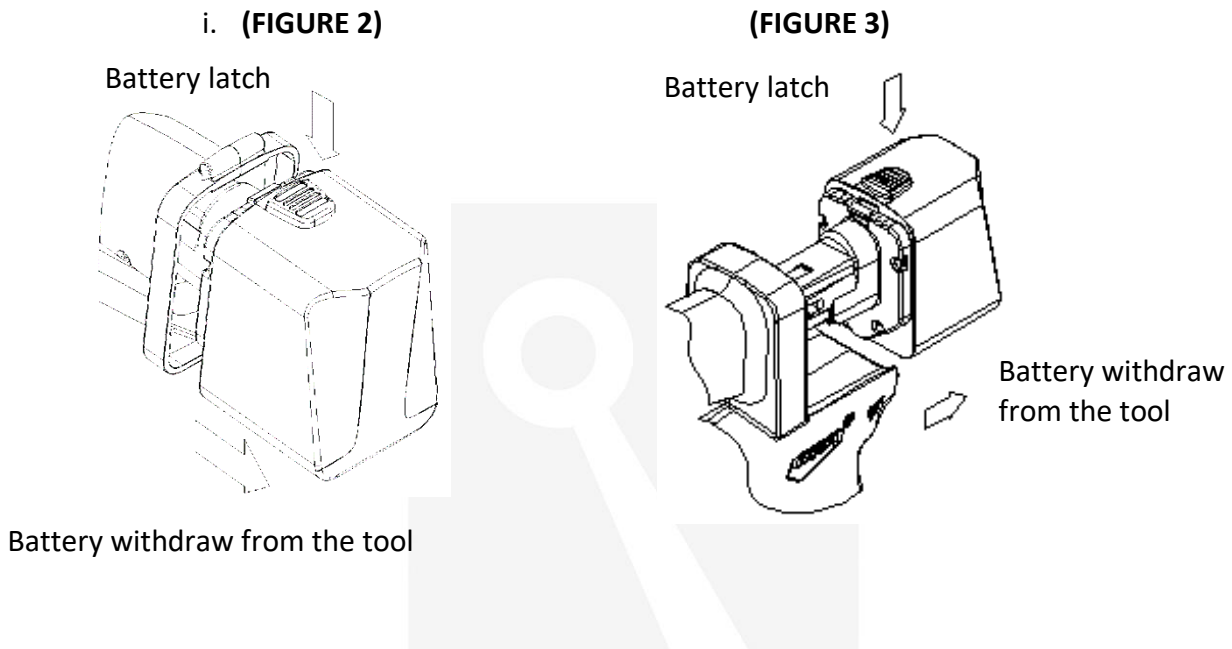
⚠ WARNING: (PLEASE SEE FIGURE 1)

- Do not operation the tool without setting dies, to avoid damaging the crimping head and plug.
- If the release button fails to return, reduce the pressure of safety valve. (please see figure 5)
- This product is not an insulator, please turn off the electricity or wear protection equipment for safety during working.

USAGE GUIDE – CRIMPING TOOL

OPERATION INSTRUCTION: (PLEASE SEE FIGURE 2&3)

1. To set the battery, push it into the tool until you hear “ka” sound. Press the battery latch and pull the battery backwards when taking out the battery.



2. Pull the dies exchange button and set the die in the right position.
3. Put the work piece between the die then press the trigger.
4. When it reaches 10000psi (700kgf/cm²), the internal safety pressure installation will stop automatically and sound “ka tsi”.
5. The motor rotation becomes faster as the crimping is finished and the trigger can be released.
6. If you would like to take out the work piece during crimping, please release the trigger and press the release button.
7. Press the release button to retract the die and remove the work piece from the crimping head.

MAINTENANCE GUIDE – CRIMPING TOOL

REPLACE OIL/ FILL UP OIL

Regularly replace the oil to keep the oil quality in a good condition. This will lengthen the life of the tool. This product is supplied with SHELL TELLUS T-15 hydraulic oil. Different brands of oil have different ingredients. Please do not mix them in because this may end up causing damage in hydraulic system.

Hydraulic oil: SHELL TELLUS T-15 OR SEA#20

CHANGE OIL

1.

Hold-type: (see **figure a**)

- release the screw
- take away the oil infusion cover
- pull out the oil reservoir plug
- pour out the dirty oil
- infuse fresh oil

Base-type: (see **figure b**)

- - open the cover
- - pull out the oil reservoir plug
- - pour out the dirty oil
- - infuse fresh oil.

Note: before plugging, check the oil reservoir if there is air inside. Exhaust air then plug.

2. Put the head part facing the working table, then add clean hydraulic oil into oil reservoir.

3. Set the cap and tighten the screw.

FIGURE A: HOLD-TYPE

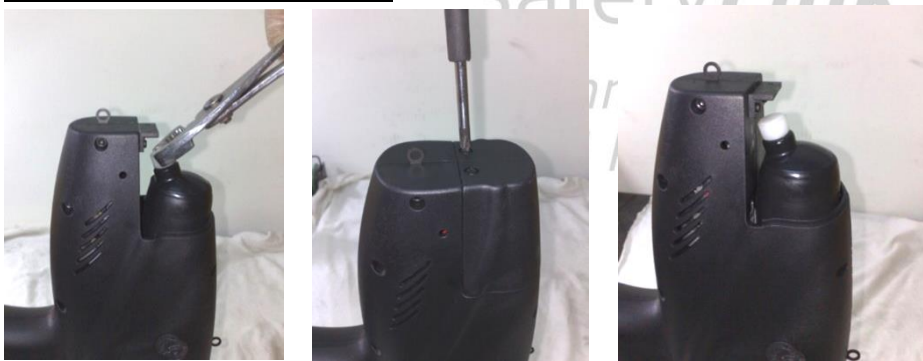


FIGURE B: BASE-TYPE



MAINTENANCE GUIDE – CRIMPING TOOL

FORCE CHECKING: (PLEASE SEE FIGURE 4)

Check the force to ensure the tools remains around 10000 psi (700 kgf / cm²) with TA-1000 pressure gauge every 3 month.

1. Set the inspection die between the c-type head in the right position.
2. Place the TA-1000 between the die and tighten the switch clockwise.
3. Press the trigger up to the inner pressure switch finish and sound “katsa”. The graduation of the gauge indicates what force it is.
4. Return the pressure of crimping tool, then turn the pressure switch counterclockwise. The indicator return to “O”, the inspection is finished.
5. The safety valve rod may wear when the indicator up-and-down or the pressure high-and-lo during inspecting. May need to replace the rod (part no. 26)
6. Adjust the safety valve installation pressure slightly to 10000 psi (700 kgf/cm²) when the force is too high or too low.

FIGURE 4

TA-1000
PRESSURE GAUGE
MAX PRESSURE 700kg/cm²
FOR TEST TP-400,
TP-300, TP-240



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ADJUST PRESSURE: (PLEASE SEE FIGURE 5)

Insert the 4mm allen key into the hole and turn it clockwise for increasing pressure; on the other hand, turn counterclockwise for decreasing pressure. The normal pressure is 10000 psi (700 kgf / cm²), do not over-increase pressure for avoiding any breakdown and danger.

INCREASE PRESSURE



DECREASE PRESSURE



FIGURE 5 NOTE: **DO NOT** ADJUST PRESSURE OVERLY

MAINTENANCE GUIDE – CRIMPING TOOL

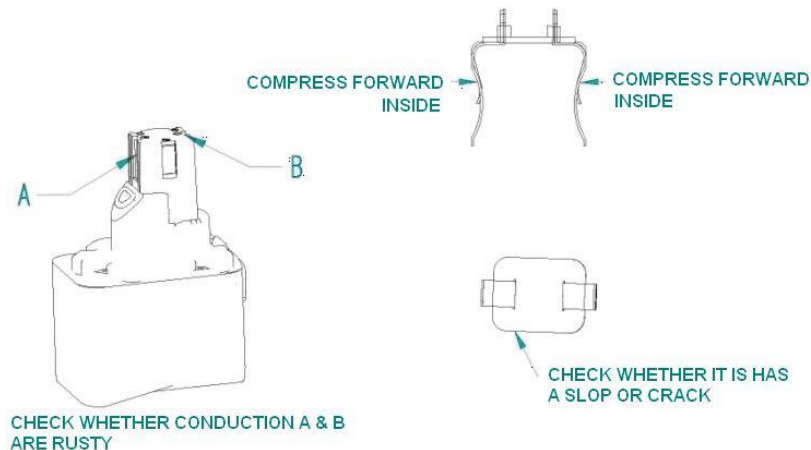
ELECTRICITY CHECKING: (SEE FIGURE 6)

1. Battery is full but cannot to electrify:

* refer to figure 2 and check.

- Check the conduction plate and insulate plate if they are out of shape by extruded and broken caused contact failure. It needs to adjust or change the parts.
- Check the battery clips a&b if they become rusty or out of the right position. They need to be rid of rust and put in the right position.

Figure 7



BATTERY CAPACITY CHECKING

The tool indicates the battery capacity during working. R/y/g light = full of energy, red/ yellow light = energy is not enough , red light = it is going to out of energy and will not work completely. (replace the battery or the tools will be stopped and unable to return).

RED/YELLOW/GREEN ===== ENERGY IS ENOUGH

RED/YELLOW ===== ENERGY IS NOT ENOUGH

RED ===== REPLACE FULL ENERGY BATTERY

Figure 7



MAINTENANCE GUIDE – CRIMPING TOOL

ATTENTION

1. The crimped piece has to be in its range. Choose correct die and set the pin and die firmly before working.
2. Do not let hands approach the crimping area during inspection or working.
3. Do not aim the tool at people in case any danger.

MAINTENANCE

1. Take out the battery and charge when it will not be in use for a long time. Discharge and charge every two months to prolonging its life.
2. Clean the tool and smear the anti-rusty oil on crimping head and die before it is to be stored. Store the battery and tool in clean and dry environment.

TROUBLE SHOOTING - NOT WORKING IN POSITION

Checking steps:

1. Check whether the hydraulic oil is enough: Fill the hydraulic oil to the full.
2. Check whether there is air inside the reservoir: Fill the hydraulic oil to full.
3. Check if there are impurities inside the reservoir: Change new hydraulic oil.
4. Check if there are impurities inside the body: Take apart the inner parts and clean them then reassemble.

TROUBLE SHOOTING - WORKING TOO SLOWLY

Checking steps:

1. Ensure screws are not loose. (part no. 19)
2. Check whether the inner steel ball of the hydraulic body is in the right position. (light): Knock the hydraulic head on the ground or hammer the head part.
3. Check whether the inner steel ball of the hydraulic body is in the right position. (acute):
 - Take apart the inner parts of body and wash them and
 - Then re-position the steel ball. (return to supplier for repair)
4. Is there air inside the reservoir: Fill the hydraulic oil to full.
5. Check if there are impurities inside the reservoir: Change new hydraulic oil.



USAGE GUIDE - CHARGER

THE CHARGER IS SUITABLE FOR NI-MH, NI-CD BATTERY AND DIFFERENT VOLTAGE SUCH AS 9.6V, 12V, 14.4V, 18V.

OPERATION INSTRUCTION:

CHARGING A BATTERY

1. Inspect the voltage.
2. Press the button of charged voltage.
3. Insert the battery, begin charging when the green light appears.
4. When completing charging, the red light appears or green light twinkles. In the mean time, it makes the following sounds “bi-bi”.

DISCHARGING A BATTERY

1. Please check the battery is going out of power first, or discharge is unallowable.
2. Firstly, insert the battery on the charger and press discharge button simultaneously (before green light appeared). It discharges a battery. It will not charge the battery immediately as discharge finished. Await the battery temperature downs to around 40oc, the battery can be charged. It takes around 2~3 hours for charging.

CHARGER LIGHTS

RED LIGHT TWINKLED = STANDBY

RED LIGHT = CHARGE FINISHED (SOUND EVERY SECOND).

GREEN LIGHT TWINKLED = CHARGE FINISHED (SOUND EVERY 5 SECONDS).

GREEN LIGHT = CHARGING

ORANGE LIGHT TWINKLED = DISCHARGE FINISHED (AWAIT THE TEMPERATURE DOWN TO 40°C)

ORANGE LIGHT = DISCHARGING

HOW TO OPERATE/USE CH-06 CHARGER

LED MEANINGS OF SITUATION

STATUS	NOTE	SEVEN SEGMENT DISPLAY
Standby	Power on	
Li-Ion Charge Capacity	20 ~ 90 (Increase 10) 90 ~ 100 ((Increase 1)	
Ni-MH Charge Capacity	Seven-segment display is scrolling text marquee (4 pcs LED lighting).	
	Floating charge 90~100(Increase 1)	
UVP	Lod	
Timeout	8 : Pre-charge Timeout 9 : C.C. charge Timeout 10 : C.V. charge Timeout	
Other Errors	1 : Power Check UVP 2 : OVP 4 : OCP 5 : OTP 12 : Power Check OVP 13 : Power Check Timeout (Output Voltage unstable) 14 : SCP 15 : Reverse Polarity Protection 255 : Others Protection	

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MANUAL/INSTRUCTION OF BATTERY

SPECIFICATION

Voltage	14.4V	CURRENT	CHARGING
Ni-MH	B-02	3Ah	90 MIN.
LI-ION	B-05	3Ah	70 MIN.

BEFORE OPERATION PLEASE NOTE

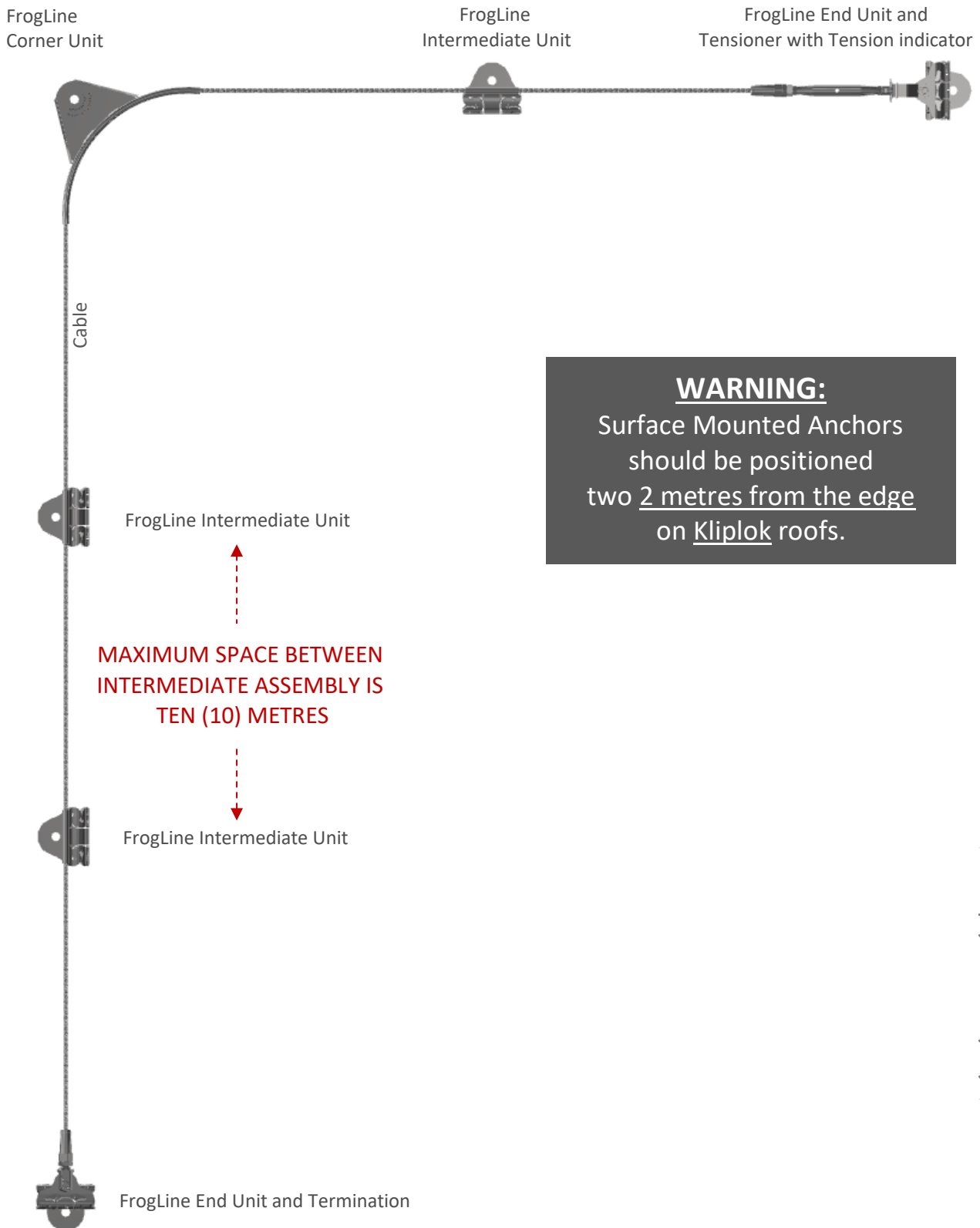
- ◆ Do not put the battery together with any metal. Otherwise the battery may have a short circuit.
- ◆ Do not store the battery at a wet/hot space. Put battery in a dry clean space.
- ◆ Do not give the battery to children. Keep the battery away from the children.
- ◆ The electric capacity of battery may be lost and the battery may be damaged if the battery is put in the tool or charger for a long time.
- ◆ Do not heat the battery or put the battery in the fire.
- ◆ Keep the battery away from water, no matter sea water or faucet water. Please keep the battery dry & clean.
- ◆ Do not press/take apart/throw down the battery. Do not let the battery near the water or fire. Also do not put the battery in your pocket.
- ◆ Do not destroy the housing/package/body of battery.
- ◆ Do not use old transformed battery with strange/abnormal appearance.
- ◆ The battery after use will be a little warm.
- ◆ The battery in low temperature (10 Degree or below), the battery will be deteriorated and its use time will be shorter. This is normal.
- ◆ Please follow the instruction of battery manual to charge the battery.
- ◆ Do not charge the battery directly under the sun or in a space with high temperature.
- ◆ Please use origin factory charger to charge the origin factory battery.
- ◆ Do not use battery with other brand.
- ◆ Please charge the battery before storage if you will not use the battery for a long time. Please charge the battery at least once a month to ensure its life.

HOW TO CLEAN THE BATTERY

- ◆ If the connecting points (+/-) or the cap of battery is dirty. It may cause the electric current can not go through. Therefore you will find the digital monitor will still show "Without Power" under full charged.
- ◆ Please keep the connecting points (+/-) or the cap of battery clean. Please use dry soft cloth to wipe the battery housing/cap and even the connecting points (+/-).
- ◆ Do not use cleaner or chemical cleaner to clean the battery or charger, otherwise they will be damaged.

EXAMPLE: LAYOUT OF LIFELINE SYSTEM

All working at heights safety procedures must be complied with when installing SafetyLink height safety systems. For more information refer to your state or territories current legislation, regulations, policies and codes of practices. Horizontal height safety lifelines must only be installed and used by competent people with relevant current height safety qualifications.

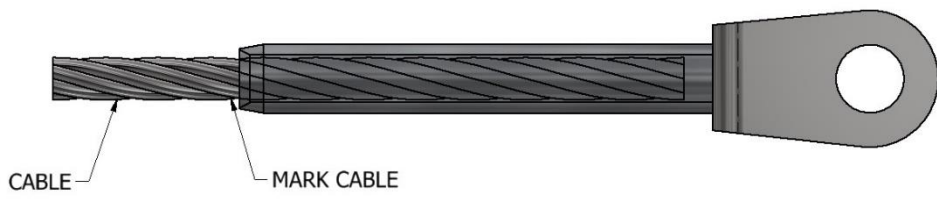


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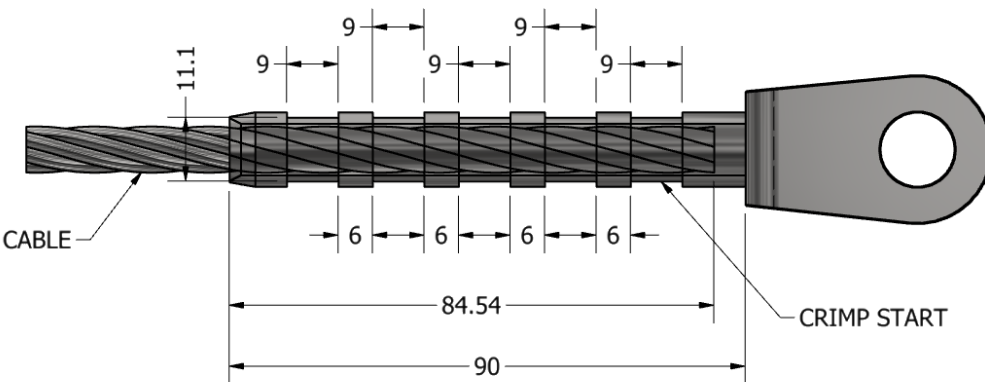
SAFETYLINK HEIGHT SAFETY SYSTEMS MUST ONLY BE INSTALLED AS PER OUR INSTALLATION GUIDES, TO STRUCTURES AS SPECIFIED IN THE INSTALLATION MANUAL FOR EACH PRODUCT. SHOULD ANY DOUBT EXIST IN REGARDS TO THE STRUCTURES INTEGRITY AN ENGINEER SHOULD BE CONSULTED.



APPENDIX A – CRIMPED FITTINGS



1. Insert the cable into the open end of the fitting to be swaged, mark the cable where the cable and the fitting meet. Remove the cable and check that the mark is at least 84mm from the cable end.



2. Re-insert the cable into the fitting to distance previously marked. Start swaging the fitting from the closed end as shown above. Continue to swage as indicated above 5 times, first swage is 6mm from the depth indicator.

3. Ensure that you can no longer see the mark that was made in Step 1. Check the crimped sections are within the allowable tolerances using Vernier Callipers. (Allowable tolerances = $11.10 \pm 0.2\text{mm}$).

IMPORTANT NOTES TO REMEMBER

- ⚠ Ensure marked cable as indicated in step one is a minimum of 84mm.
- ⚠ Ensure all crimped sections (flat) are with 11.10mm, with a tolerance level of + or - 0.2mm. This distance should be the case of all 8mm 7 x 19 and 7 x 7 cable. The measurement should be taken with Vernier Callipers to ensure accuracy. If your measurements are outside the acceptable tolerance range this can be a sign of either a loss of pressure in your swaging tool or an indication that your dies are worn or incompatible. Any swaging that occurs outside the acceptable tolerances will need to be restarted using the appropriately amended tools.
- ⚠ When swaging the cable the mark made in step 1 will disappear during the final swage due to the lengthening of the material during the swaging operation.
- ⚠ The swaged end has a mark indicating the end of the solid section of the unit and the start of the hollow section. Start swaging 6mm from the mark indicating the solid section.
- ⚠ When completed the swaged section should be a minimum of 80mm long. The dies are made with a 9mm wide section to crimp. These 9mm crimping sections need to be completed 5 times, that is there will be five flat sections along the swaged end. In between each crimped section you need to maintain a distance of between 5 and 6mm.

DO NOT swage the solid section indicated by the mark on the unit this will damage the swaging tool and the dies. (Marking the swaging depth on the end to be swaged unit (84mm from the opening will help to avoid this). To do this, use Vernier Callipers, checking the maximum size and minimum size.



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IN CASE OF ACCIDENT

⚠️ A FALL RESCUE PLAN AND SAFE WORK STATEMENT MUST BE DEVELOPED PRIOR TO USING SAFETYLINK SYSTEMS AND EQUIPMENT.

⚠️ PERSONS WORKING AT HEIGHTS SHOULD NOT WORK ALONE.

It is critical that before using any SafetyLink Systems a fall rescue plan is in place for any persons suspended mid-air following a fall. Serious injury or death can occur in a matter of minutes, particularly if a person's movement or breathing is restricted or loss of consciousness has occurred. In accordance with your fall rescue plan and appropriate first aid procedures it is essential to remove the person from the suspended position as quickly as possible.

IN ACCORDANCE WITH AS/NZS 1891.4:2009 CLAUSE 9.5

EQUIPMENT WHICH HAS ARRESTED A FALL OR SHOWS A DEFECT

Any piece of equipment including both personal and permanently installed items, which has been used to arrest a fall or which shows any defect during operator or periodic inspection shall be withdrawn from service immediately and a replacement obtained if necessary. A label indicating the condition or defect should be attached to the equipment, and it should be examined by a competent person who will decide whether the equipment is to be destroyed or repaired if necessary and returned to service. In the latter case, details of any repair shall be documented and a copy given to the operator.



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