

Safety Operating & Maintenance Instructions

Battery Powered 23 Tonne Hydraulic Crimper



WARRANTY

The MSS Platinum 18v tools are warranted to be free of defects in materials and workmanship for a period of 1 year, except in the case of abuse or misuse.

Any defect in material or workmanship that shows up within 1 year of shipment will be repaired or the tool will be replaced free of charge at the option of Legend Power Systems Pty Ltd.

Any MSS Platinum 18v tools being returned for repair must be sent prepaid to Legend Power Systems Pty Ltd. On your packing slip outline the nature of repair required (or describe the problem) and notify tool serial number. Please provide a contact name and phone number in the event we need to call you regarding tool product service.

Legend Power Systems Pty Ltd disclaims all other warranties, expressed or implied, including without limitations the warranties of merchantability and fitness for a particular purpose.

For Information Only, contact:

Legend Power Systems Pty Ltd,
8 Distribution Place, Seven Hills NSW 2147
PO Box 72, Seven Hills NSW 2147 Australia
Ph: 1800 769 370
Email: sales@legendpower.com.au
www.legendpower.com.au

SAFETY INFORMATION



The above symbols are used to call your attention to instructions concerning your personal safety. Look for these symbols; read and follow the instructions that accompany them. Failure to follow the safety information provided can lead to serious personal injury or death.

SAFETY FIRST

⚠ WARNING

The information provided in this manual is essential for the safe handling, operation, and maintenance of the MSS Platinum 18v tools. The operator must read, understand, and follow these instructions and ALL safety warnings and labels before operating these tools.

Only use this tool for the manufacturer's intended purpose. Use of this tool for unintended applications may lead to serious personal injury or death.

Each employer shall instruct each employee in the recognition and avoidance of unsafe working conditions and the laws and regulations applicable to his/her work environment to control or eliminate any hazards or other exposures to illness or injury. Reference: OSHA 29CFR 1910 etseq. (1994).

If a conflict arises between the material contained in this manual, rules of the user, his employer or company, and legal or industry guidelines the more stringent rules take precedence and must be followed.

Observe and follow all other safety rules and regulations for the job.

SAFETY IS EVERYONE'S RESPONSIBILITY

OPERATING SAFETY PRECAUTIONS

⚠WARNING

Read and comply with the following operating and handling safety warnings. Failure to follow these instructions can lead to death, severe personal injury, injury to others or damage to property.



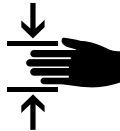
Use of this tool near energised conductors may lead to electrical shock, causing severe injury or death. Do NOT use this tool near energised conductors without adequately insulating the operator and surroundings.



Operator must clear all bystanders from the work area when handling, starting, and operating a tool to avoid injury to bystanders.



Do NOT over-reach while using a tool. Loss of balance can cause serious personal injury or death. Move closer to work area and securely support yourself and your work. ALWAYS keep proper footing and balance.



When operating the tool keep hands out of moving area to avoid risk of injury.



Do not operate if dies are not in place. Failure to have in place may cause damage to tool.



Do not dispose of batteries in domestic waste.



Always recycle batteries responsibly.

To help ensure safe operation of this tool, keep all safety labels clean and legible. Replace labels when necessary with new labels. See Parts Section of this manual for information on reordering.

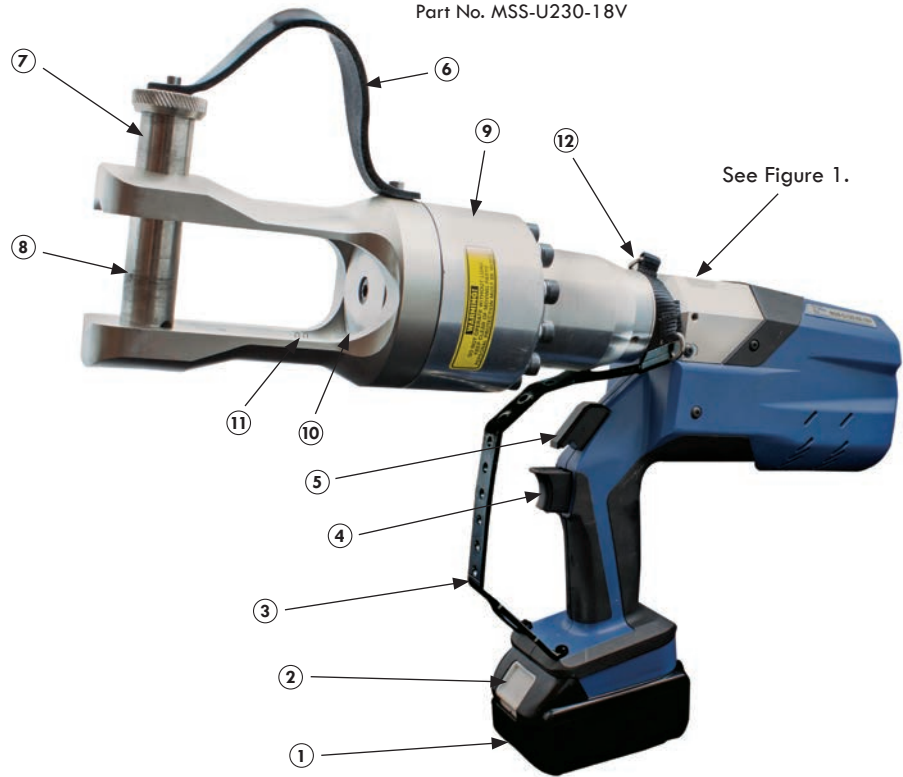


Use all appropriate personal safety equipment when handling, operating, and servicing this tool such as safety shoes, hard hat, eye and ear protection, work gloves, and sleeves.

Maintain a firm grip on the tool at all times. Loss of tool control can lead to serious personal injury.

OVERALL VIEW

18v 23 Tonne Crimping tool
Part No. MSS-U230-18V



See Figure 1.

1	18 Volt Lithium Battery Pack
2	Battery Release Button
3	Trigger Guard
4	Activation/Advance Trigger
5	Release/Return Switch
6	Leather Strap
7	Removable Pin for Top Die Holding and Positioning (stationary)
8	Throat Opening
9	Piston Body
10	Bottom Die (moving)
11	Bottom Die Guide Pins
12	Ring for Shoulder Strap

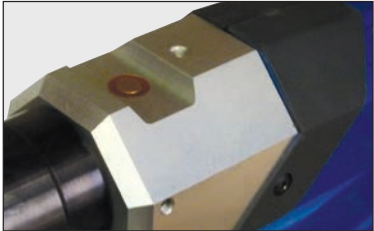


Figure 1.
Visual Crimp Indicator

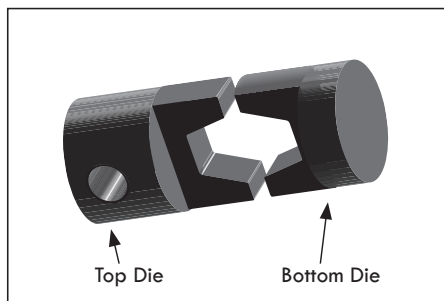


Figure 2.
ECW-H3D-400



Figure 3.
Depressing Activation/Advance Trigger ④



Figure 4.
Release/Return Switch ⑤



Figure 5.
Fitting Battery Pack

MSS Battery Tool – 18V/220V Charger
Part No. MSS-ACH-18LI-ION



1	Battery re-charge terminal (slide on Battery pack)
2	Charge status
3	Temperature status

18v 23 Tonne Crimping tool

Part No. MSS-U230-18V

1. Technical Data

Used for installation of electric compression connectors on conductors

Application Range:	Up to 630mm ² Cu Up to 500mm ² AL
Crimping Force:	230kN (25.85 SH TON)
Operating Pressure (Max.):	700 bar (10,000 psi)
Safety Relief Valve Fitted	
Dimensions:	
Length:	495mm
Width:	99mm
Height:	326mm
Weight:	8.6kg (19lbs)
Motor:	18v DC
Battery Voltage:	18v Li-Ion
Battery Charger Supply :	220-240v 50Hz
Recommended Oil:	Shell Tellus TX32 or equiv

2. Kit Includes

18v Crimping Tool
2 x Rechargeable Battery Packs
1 x 220V Battery Charger
Shoulder Strap
Heavy Duty Carry Case

3. Ordering Information: MSS-U230-18V

4. Instructions For Use

- Ensure a Fully Charged Battery ① is engaged in place. See Figure 5.
- Remove Pin ⑧ insert appropriate bottom die aligning groove on sides of die with guide pins ⑪ See Page 5 Figure 2.
- Insert appropriate top die (see Figure 2) and place Pin ⑧ through head and die to locate. Ensure Pin is located properly and locked in place.
- Position material toward the top die making sure dies are exactly where connector has to be crimped.
- Depress Activation/Advance Trigger ④ until Audible Click is heard and Visual Indicator pops up. See Figure 1.
The correct crimp force has now been Attained.

f) Depress Release/Return Switch ⑤ and hold until you have the desired retracted distance.

g) Follow steps d-f for next crimp process.

Note: Ensure that the dies are placed in the exact position on the desired crimp point. If necessary, re-open the dies and re-position the connector.

⚠ WARNING

WARNING: NEVER PLACE THE HEAD UNDER PRESSURE WITHOUT INSERTING THE DIES, AS THIS COULD CAUSE DAMAGE TO THE HEAD AND THE RAM.

⚠ WARNING

IF INJURY RESULTS FROM ESCAPING HYDRAULIC FLUID, SEEK IMMEDIATE MEDICAL ATTENTION. SERIOUS BODILY INJURY MAY OCCUR IF PROPER MEDICAL ATTENTION IS NOT ADMINISTERED IMMEDIATELY.

ATTENTION

THE CRIMP HEAD FEATURES SPRING LOADED DETENT BALL BEARINGS, THESE RETAIN THE DIE SETS IN PLACE AND ARE FACTORY SET AND REQUIRE NO ADJUSTMENT.

5. Maintenance

The 18v Platinum Range Tools are very strong, rugged and require little maintenance.

It is recommended that the following maintenance be applied to ensure optimum performance of the tool.

5.1 Cleaning

Avoid placing tool on muddy or dusty ground/surfaces, as dust, sand and dirt are a danger to any hydraulic device. Dirt particles may score the ram and create oil leaks.

Clean the head daily, after use. Wipe with a clean cloth, remove any residue particles, especially around the moving parts.

5.2 Storage

When not in use, store and transport in the Carry Case Supplied.

DIE RANGE AVAILABLE

Dies for 23 Tonne Range

Copper			Aluminium	
Nominal Conductor (mm²)	Catalogue No.	Copper Die A/F Hex (mm)	Aluminium Die Catalogue No.	A/F Hex (mm)
16-300	Use 12 Tonne Dies with Adaptor		ECW-H3D-AD	
400	ECW-H3D-400	28.1	ECW-H3D4/500AL	39.0
500	ECW-H3D-500	31.0	ECW-H3D4/500AL	39.0
630	ECW-H3D-630	37.0	Not possible – use a RHU520	



Dies for 13 Tonne Range

USE ONLY WITH ECW-H3D-AD Adaptor Die set

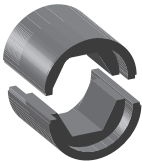
Standard Copper Hex Dies			Standard Aluminium Hex Dies		
Catalogue No.	Conductor mm²	Die A/F mm	Catalogue No.	Conductor mm²	Die A/F mm
HT130-C-6	6	4.4	HT-6/35AL	6-35	9.0
HT130-C-10	10	5.7	HT-50/70AL	50-70	13.2
HT130-C-16	16	6.3	HT-95/120AL	95-120	17.3
HT130-C-25	25	7.7	HT-150/185AL	150-185	22.0
HT130-C-35	35	9.2	HT-240/300AL	240-300	28.4
HT130-C-50	50	10.4			
HT130-C-70	70	11.5			
HT130-C-95	95	14.2			
HT130-C-120	120	16.5			
HT130-C-150	150	18.3			
HT130-C-185	185	20.0			
HT130-C-240	240	23.1			
HT130-C-300	300	26.0			

Full Set of Copper Dies from 16mm² - 300mm² DIESET

Full Set of Aluminium Dies from 6mm² - 300mm² DIESET3

Full Set of Copper Dies 16mm² - 300mm² & Aluminium Dies from 6mm² - 300mm² DIESET2

Standard Aluminium Dies



OTHER TOOLS AVAILABLE IN THE MSSP RANGE

Platinum Powered



18V 13 Tonne Crimping Tool "U Style Head"
Part No. MSS-U130-18V



18V Guillotine Cutter 40mm Capacity
Part No. MSS-S40-18V



18V Guillotine Cutter 25mm Capacity
Part No. MSS-S25-18V



18V 13 Tonne Hydraulic Crimper
Part No. MSS-C130-42-18V

Platinum Self Contained



13 Tonne Hand Operated Crimping Tool
Part No. MSS-C130-42-M



13 Tonne Hand Operated Crimping Tool "U Style Head"
Part No. MSS-U130-M



Hand Operated Guillotine Cutter 25mm Capacity
Part No. MSS-S25-M



Hand Operated Guillotine Cutter 40mm Capacity
Part No. MSS-S40-M

Platinum Remote



Remote Operated 23 Tonne Crimping Tool Head
Part No. MSS-RH23



Remote Operated 13 Tonne "U" style Crimping Head
Part No. MSS-U130-RH



Remote Operated 60 Ton Crimping Tool Head
Part No. MSS-RH60



Remote Operated Hydraulic Cutter 40mm Capacity
Part No. MSS-S40-RH



Remote Operated Hydraulic Cutter 25mm Capacity
Part No. MSS-S25-RH



Remote operated 700Bar/10,000PSI 13 Tonne Crimping Tool Head
Part No. MSS-C130-42RH

Accessories



Portable Hydraulic Pump - 2 litre
Part No. MSS-HCP-45



Super Light Weight 240V Electric Pump
Part No. HPP1



Dies for 23 Tonne Range
Copper: ECW-H3D-400
Aluminium: ECW-H3D-AD
ECW-H3D-500 ECW-H3D4/500AL
ECW-H3D-630 ECW-H3D4/500AL



Dies for 60 Tonne Range

Copper:
MSS-RH60-23.1AFCU
MSS-RH60-26.0AFCU
MSS-RH60-28.1AFCU

Aluminium:
MSS-RH60-28.3AFAL
MSS-RH60-39.0AFAL
MSS-RH60-43.2AF
MSS-RH60-52.5AFAL

ACSR/AAC/AAAC:
MSS-RH60-28.5AFAL
MSS-RH60-34.5AFAL
MSS-RH60-40.0AFAL
MSS-RH60-44.5AFAL
MSS-RH60-47.5AFAL
MSS-RH60-48.0AFAL

Australia

8 Distribution Place, Seven Hills NSW 2147
PO Box 72, Seven Hills NSW 2147
T+61 2 9678 5000 F+61 2 9678 5071



New Zealand

Unit 15-16, 761 Great South Road, Penrose, 1061
Auckland, New Zealand
PO Box 100-543 NSMC, Auckland 0745, New Zealand
T +64 8 0077 6969 F +64 8 0088 6969



In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

Version 2 December 2014

MSS-U230-18VOPM

Australia T: 1800 769 370 E: sales@legendpower.com.au
New Zealand T: 0800 776 969 E: sales@legendpower.co.nz

legendpower.com.au
legendpower.co.nz