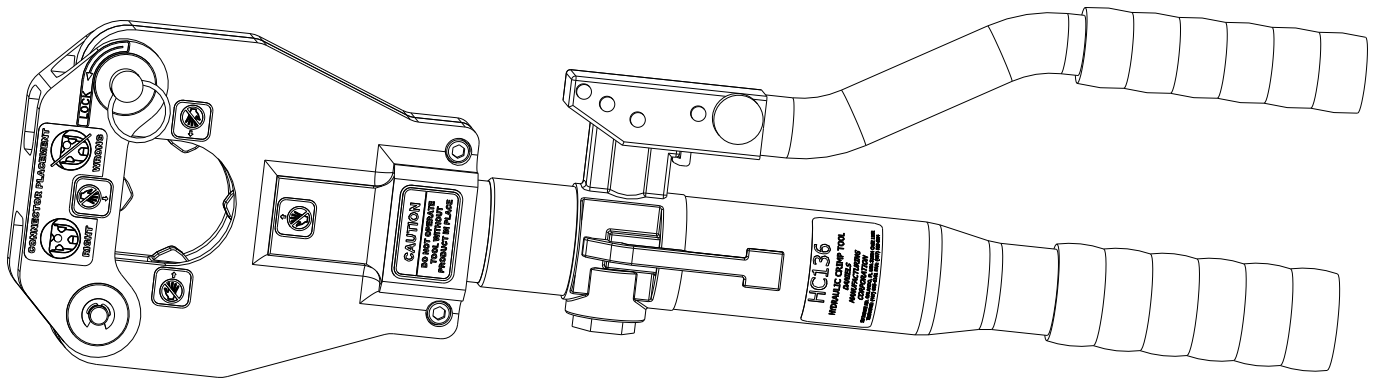


HC136

HYDRAULIC POWER TOOL, 4 POINT DIE-LESS



DATASHEET



DESCRIPTION

The HC136 Hydraulic Crimp tool is a hand held self-contained, 4 point die-less crimp tool intended to crimp aluminum and copper connectors onto electrical cable.

All specifications are nominal and may change as design improvements occur. DMC shall not be liable for damages resulting from misapplication or misuse of its products.

SAFETY

Safety is essential in the use and maintenance of DMC 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.

KEEP THIS MANUAL!

IMPORTANT SAFETY INFORMATION

Purpose of this Manual

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

HC136 Hydraulic Power Crimp Tool

Keep this manual available to all personnel. Replacement manuals are available upon request at no charge.



SAFETY ALERT SYMBOL

This symbol is used to call 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 the hazard.

⚠️ DANGER

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

⚠️ WARNING

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

⚠️ CAUTION

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

⚠️ WARNING



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.

⚠️ WARNING

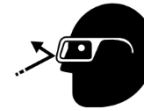


Electric Shock Hazard:

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

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

⚠️ WARNING



Wear eye protection when operating this tool.

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

⚠ WARNING



Skin injection hazard:

Do not use hands to check for leaks.

Depressurize the hydraulic system before servicing.

Oil under pressure easily punctures skin causing serious injury, gangrene, or death. If you are injured by escaping oil, seek medical attention immediately.

⚠ CAUTION

This tool is intended for two-handed operation. Maintain a firm grip on both handles during operation. Using this tool in any other manner can result in injury or property damage.

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

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

⚠ WARNING

An incomplete crimp can cause a fire. Use proper connector and cable combinations.

Improper combinations can result in an incomplete crimp.

The handle load will drop suddenly to indicate a completed crimp. If the handle load does not drop suddenly, the crimp is not complete.

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

⚠ WARNING

Inspect tool before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike nearby personnel.

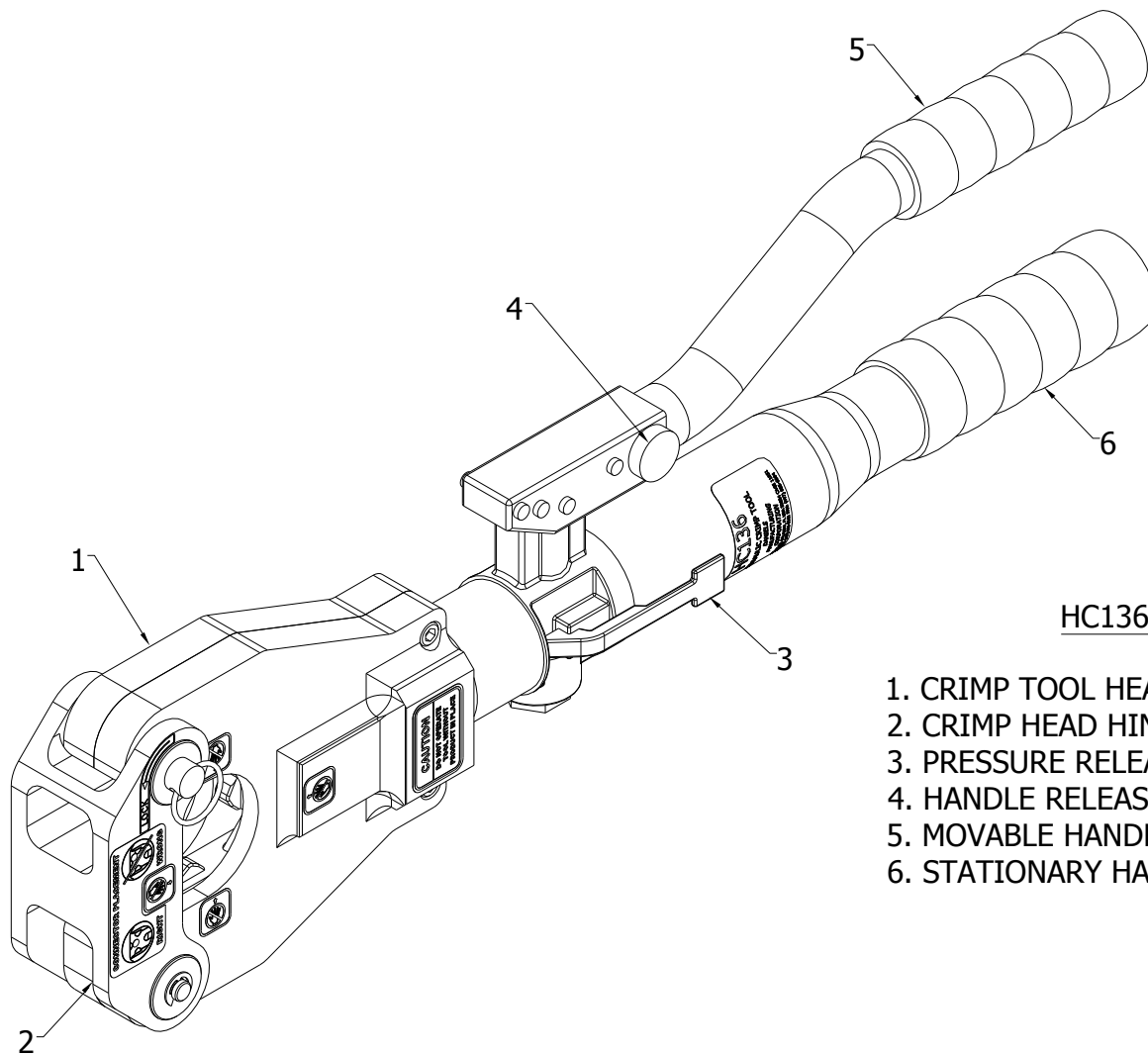
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- 1. CRIMP TOOL HEAD
- 2. CRIMP HEAD HINGE
- 3. PRESSURE RELEASE LEVER
- 4. HANDLE RELEASE KNOB
- 5. MOVABLE HANDLE
- 6. STATIONARY HANDLE

Specifications

Crimp Tool

- Length.....21.06”(535 mm)
- Width.....7.5”(191 mm)
- Height.....2.5”(63.5 mm)
- Weight/Mass.....9lb(4.1kg)
- Hydraulic Oil.....0.3 pints(150ml) of Shell Tellus T15

Crimp Capacity

Size Range

- Aluminum.....6AWG to 750 kcmil
- Copper.....4AWG to 750 kcmil

Crimp Force.....6.2 tons(5.5kN)

Operation

⚠ WARNING



Electric Shock Hazard:

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⚠ WARNING



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Improper combinations can result in an incomplete crimp.

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

1. Follow the lug manufacturer's instructions for appropriate cable strip length and surface preparation.
2. Insert cable fully into connector.
3. If needed, unlock the lock pin, pull it, and open the hinge top. Insert the connector with cable into the crimp head. If needed, close the hinge top, push the lock pin in, and re-lock it.

Note: Pressure relief occurs at approximately 6.2 tons(5.5kN) and is indicated by an audible "pop".

6. After achieving the pressure relief, the indenters will retract to the start position automatically.
7. Complete the number of crimps specified by the connector manufacturer.

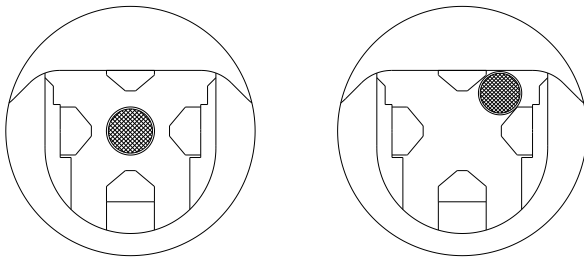
⚠ CAUTION

Do not operate the crimp tool unless the hinge top is completely closed and secured with the lock pin.

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

4. Center the connector between the indenters.

⚠ CAUTION



RIGHT

WRONG

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

Failure to observe this precaution may cause property damage.

5. Pump the handles to advance the indenters, and continue until the pressure relief valve activates.

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Connector Selection

Tool Range:

Copper.....4AWG to 750 kcmil (except as noted †)

Aluminum.....6AWG to 750 kcmil (except as noted ‡)

Connector Type	Barrel Type	Anderson	Blackburn®	Burndy	Ilsco	Panduit	T&B	Penn-Union	No. of Crimps*
Copper Splices	Short	VHSS	GSP†	YS-L†	CT†	SCSS/SCS†	54507-54523TB†	BCU	A
	Long	VHS	CU†	YS†	CTL†	SCL/SCH†	54807-54823†	BBCU	
Copper Lugs	Short	VHCS	CTL-2/CTL†	YA-2LN/YA-L/YA-2L† YA/YA-L-TC/YA-L-2TC	CSW† CRA/CRB	LCAS/LCA† LCD	54107-54123TB† 54207-54223	BLU	
	Long	VHCL	CTL-L/LCN†	YA-2N†	CLN, CLW† CRA-L/CRB-L CRA-2L/CRB-2L	LCB/LCC†	54933BE-54923BE† 54855BE-54880BE	BBLU	
Dual-Rated Aluminum Splices	—	VACS	ASP‡	YS-A‡	AS	SA‡	60507-50578	PIK‡	B
Dual-Rated Aluminum Lugs	—	VACL	ATL‡	YA-A‡ YA-ATN	ACL/ACN 2ACL/2ACN	LAA‡ LAB	60106-60178 60230-60278	BLUA‡	

*No. of Crimps

A.....4 to 4/0 AWG.....1 Crimp
 250 to 600 kcmil.....2 Crimps
 750 kcmil.....3 Crimps

B.....6 to 1 AWG.....1 Crimp
 1/0 AWG to 350 kcmil.....2 Crimps
 400 to 600 kcmil.....3 Crimps
 750 kcmil.....4 Crimps

Tool Range Exceptions

† 2 AWG to 750 kcmil

‡ Blackburn: 4 AWG to 750 kcmil

Burndy: 4 AWG to 750 kcmil

Panduit: 4 AWG to 500 kcmil

Penn-Union: 6 AWG to 500 kcmil

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DMC offers complete refurbishing and recalibration services.

DMC specially engineers and manufactures complete tool kits to satisfy individual customer requirements, such as total aircraft support, general shop maintenance or production, on board ship and vehicle service, etc.

Limitation of Liability

DANIELS MANUFACTURING CORPORATION IS NOT LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY NATURE OR KIND RESULTING FROM THE USE, OR MISUSE, OF ANY OF ITS PRODUCTS. OWNERS AND USERS OF DMC PRODUCTS ASSUME FULL RESPONSIBILITY FOR INSTRUCTING THEIR EMPLOYEES IN THE PROPER AND SAFE USE OF SUCH PRODUCTS.

Limited Warranty

DMC (Daniels Manufacturing Corporation) warrants each new product sold by it to be free from defects in material and workmanship under normal use and service. DMC's obligation under this warranty is limited to the free correction or, at DMC's option, the refund of the purchase price of any such product which proves defective in normal service within ninety (90) days after delivery to the first user, provided that the product is returned to DMC with all transportation charges prepaid and which shall appear to DMC's satisfaction, after DMC's inspection, to have been defective in material and workmanship, it being understood that DMC products are not consumer products. This warranty shall not cover any damage to any product which, in the opinion of DMC, was caused by normal wear, misuse, improper operation, tampering, neglect or accident. This warranty is in lieu of all other warranties express or implied. No warranty, express or implied, is made or authorized to be made or assumed with respect to products of Daniels Manufacturing Corporation other than those herein set forth.