

MANUAL HYDRAULIC COMPRESSION TOOL

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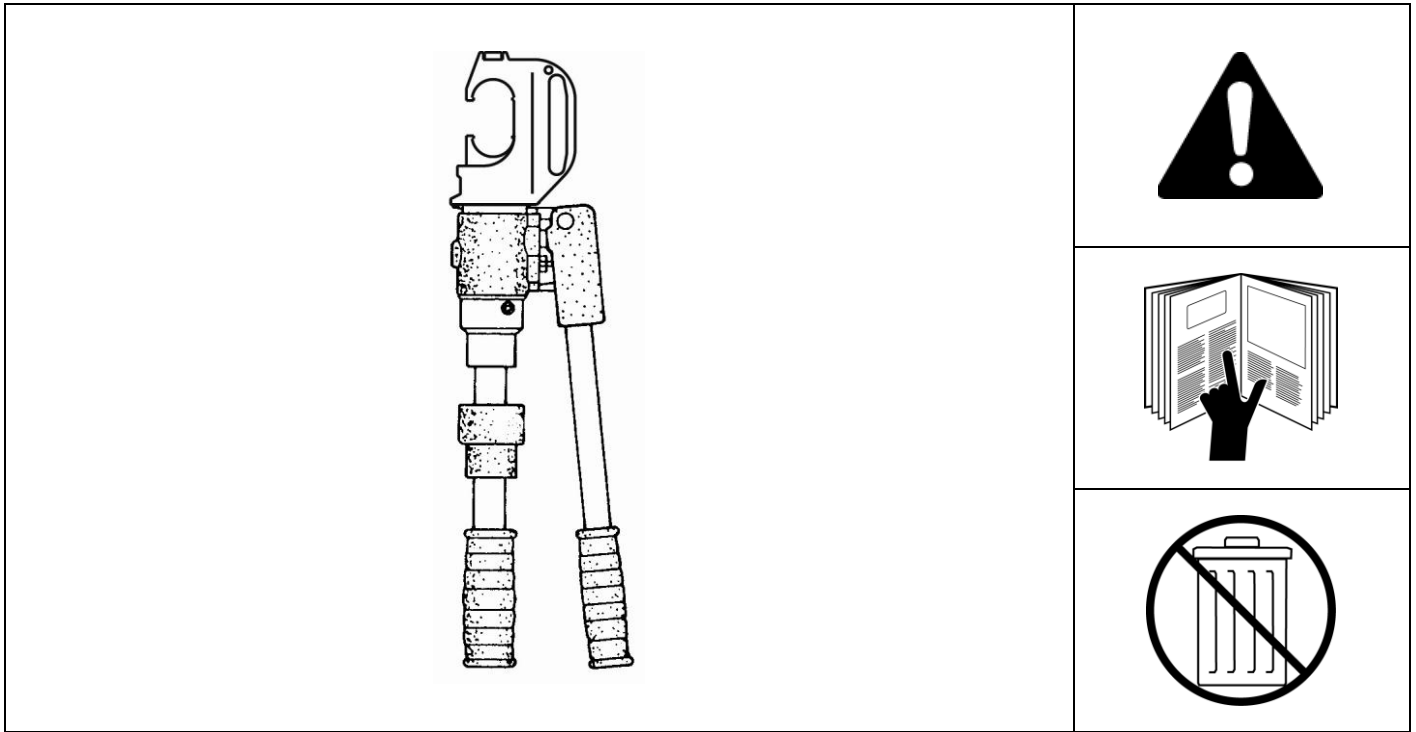


TABLE OF CONTENTS

SYSTEM SPECIFICATIONS	1
OPTIONAL ACCESSORIES	1
PRECAUTIONS AND GENERAL GUIDELINES	2
DIE SELECTION	4
TOOL OPERATION	5
MAINTENANCE	6
Periodic Maintenance.....	6
Cleaning and Lubrication of Tool Head	7
Visual Inspection	7
Force Inspection/Calibration	7

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**SYSTEM SPECIFICATIONS**

Output:	14.0 tons / 12.7 (metric tons)
	<p>NOTE: CONNECTIONS UTILIZING THIS TOOL ARE U.L. LISTED AND C.S.A. CERTIFIED ONLY WHEN PANDUIT COMPRESSION CONNECTORS ARE USED. USE OF ANY OTHER BRAND OF COMPRESSION CONNECTORS IS NOT RECOMMENDED.</p> <p>Consult product packaging, Panduit catalog or website for information on recommended connectors.</p>
Weight:	16.5 lbs. / 7.5 (kg)
Dimensions:	25.0 L x 7.25 H x 2.5 W in. 635 L x 184 H x 64 W (mm)
Handle Span:	17.5 in / 445.5 (mm) Open 6.0 in. / 152.4 (mm) Closed
Jaw Opening:	1.65 in. / 41.9 (mm)
CT-980 Carrying Case:	Included with CT-930 Tool

OPTIONAL ACCESSORIES (sold separately)

CG-920 Compression Gauge	Verifies the compression force of the CT-930 Hydraulic Compression Tool
CD-920 and CD-930 Compression Dies	Consult Panduit catalog or website for part numbers and specific die application information.

The information contained in this literature is based on our experience to date and is believed to be reliable. It is intended as a guide for use by persons having technical skill at their own discretion and risk. We do not guarantee favorable results or assume any liability in connection with its use. Dimensions contained herein are for reference purposes only. For specific dimensional requirements consult the factory. This publication is not to be taken as a license to operate under, or a recommendation to infringe any existing patents. This supersedes and voids all previous literature, etc.



PRECAUTIONS AND GENERAL GUIDELINES

	<p>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.</p>	
	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.

	<p> WARNING</p> <p>Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.</p>
	<p> WARNING</p> <p>Electric Shock Hazard:</p> <p>This tool is not insulated. When using this unit on or near energized electrical lines, use proper personal protective equipment.</p>
	<p> WARNING</p> <p>Wear eye protection when operating or servicing this tool.</p> <p>Failure to wear eye protection can result in serious eye injury from flying debris or hydraulic oil.</p>
	<p> WARNING</p> <p>Skin Injection Hazard:</p> <p>Oil under pressure easily punctures skin causing serious injury, gangrene, or death. If you are injured by escaping oil, seek medical attention immediately.</p> <ul style="list-style-type: none"> • Do not use hands to check for leaks. • Depressurize the hydraulic system before servicing.
	<p> WARNING</p> <p>Keep hands away from the tool head when crimping.</p>



	<p>! WARNING</p> <p>Do not use solvents or flammable liquids to clean this tool. Solvents or flammable liquids could ignite and cause serious injury or property damage.</p> <p>Do not use tool in or near a highly flammable or explosive atmosphere and/or materials.</p>
<p>! WARNING</p>	
<ul style="list-style-type: none"> • An incomplete crimp can cause a fire. • Use proper connector and cable combinations. Improper combinations can result in an incomplete crimp. • The relief valve will sound to indicate a completed crimp. If you do not hear the sound of the relief valve, the crimp is not complete. • Inspect tool before use. A worn or damaged tool may result in breakage striking the operator or nearby personnel. 	
<p>! CAUTION</p>	
<ul style="list-style-type: none"> • Do not perform any service or maintenance other than as described in this manual. Injury or damage to the tool may result. • Do not place the tool in a vise. The tool is designed for hand-held operation. • Protect the tool from rain and moisture. • Use this tool for the manufacturer's intended purpose only. 	
<p>i IMPORTANT INFORMATION</p>	
<ul style="list-style-type: none"> • Keep the tool head and tool body portion clean and free from debris. Excessive dirt and grit can contribute to the premature wear of the tool's internal mechanical parts. When not using the tool, regularly check that no foreign matter or debris exists in the open areas between the indenters in the tool head. • Soap and a damp cloth should be used to clean the tool body. • Always store the tool in its clean, dry carrying case when not in use. • DO NOT press trigger and release button simultaneously. Damage to trigger linkage may result. • DO NOT let the ram contact the crimp head. • Always point tool away from others. • If the tool is kept in cold temperatures below 23°F/-5°C for any extended time, it is advisable to return the tool to room temperature for 1 hour before using. • Avoid dropping the tool. Extreme shock may damage the hydraulic circuit and result in malfunction of the tool. 	

**⚠ CAUTION**

1. Do not operate tool without dies and connector in position. Operation without dies and connector will result in fracture or distortion of the head or ram. If the tool ram is inadvertently closed without the dies or connector, do not continue to apply pressure by further pumping. Loosen the M8 screw (see Fig. 2 on Page 6) to release the pressure.
2. Be sure to select appropriate dies to suit the terminal to be crimped. Improper combinations result in inferior connections of conductors.

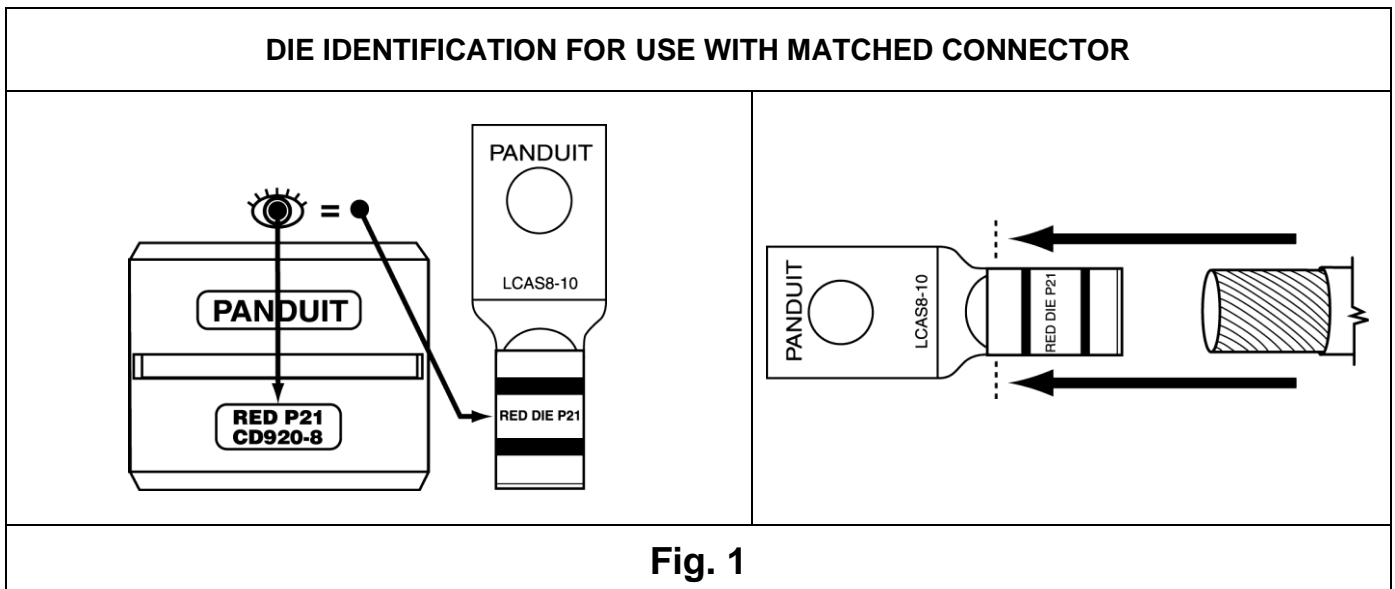
Consult product packaging, Panduit catalog or website for part numbers and specific die application information.

NOTE: DIES ARE DESIGNED TO PRODUCE THE HIGHEST QUALITY CONNECTIONS WITH PANDUIT CONNECTORS. CONNECTIONS UTILIZING THIS TOOL ARE U.L. LISTED AND C.S.A. CERTIFIED ONLY WHEN PANDUIT COMPRESSION CONNECTORS ARE USED. USE OF ANY OTHER BRAND OF COMPRESSION CONNECTORS IS NOT RECOMMENDED.

3. Re-calibrate the tool as instructed in the Tool Force Inspection / Calibration section on Page 7.

DIE SELECTION

Match the die color code and die index number on the crimp die to the color code and die index number marked on the compression connector (see Fig. 1 on Page 4).





TOOL OPERATION (See Fig. 2 on Page 6)

1. To install the upper crimp die in the installation tool, depress die release button [A] and slip either die half in the top of the head. Center the die and release the button. An audible “click” can be heard when the retainer pin engages the slot in the die half.
2. Install the second die half in the bottom of the head (Ram) by depressing die release button [B] and proceeding as instructed above. If die release button [B] cannot be depressed, cycle the tool a few times to make it more accessible.
3. The head of the installation tool can be rotated 180° to any desired position to accommodate operator’s view of the dies, compression connector location, and tool operation.

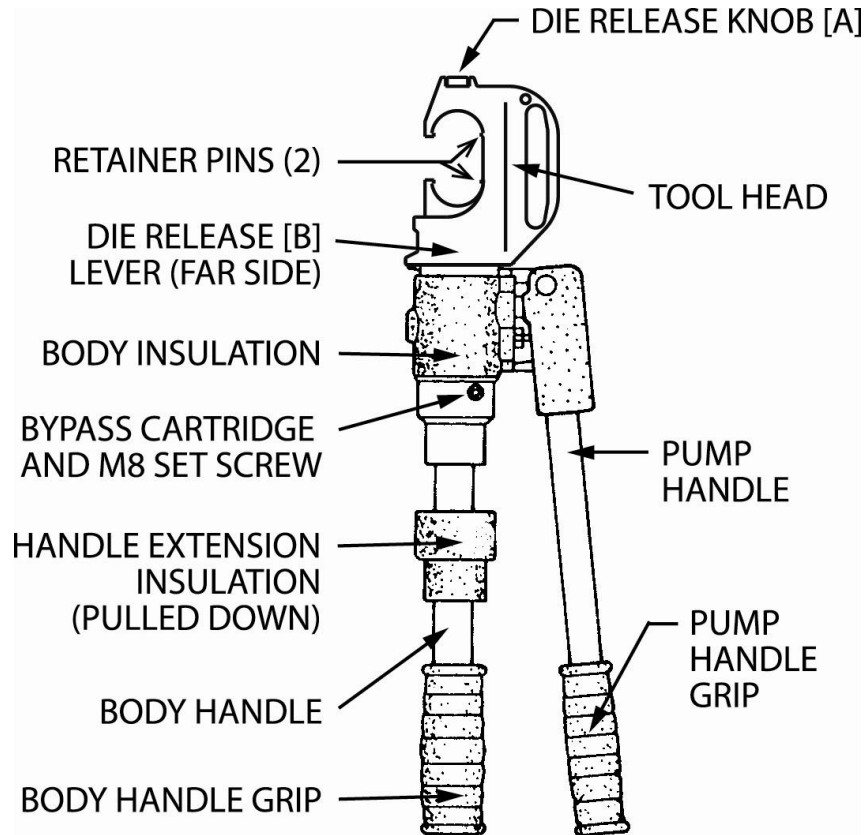
NOTE: Head cannot be rotated under hydraulic pressure.

4. Position the compression connector between the dies for the first compression and cycle the pump handles.
5. Cycle the pump handles until the bypass valve (incorporated in the installation tool) is heard to operate. This can be detected by a “popping” sound accompanied by a reduction in handle effort. If the dies fail to close, it may be due to the following reasons:
 - a.) The tool is being used for some application for which it was not designed.
 - b.) The pressure is not building up to 10,000 psi (700kgs/cm²).
 - c.) Dies are of the incorrect size (index number).
6. If dies fail to close, do not continue operation. Open the dies by twisting the pump handle clockwise and bringing the handles to a closed position. The bypass valve will open and relieve the pressure, thus opening the dies.

NOTE: Due to configuration, dies CD-920-500A and CD-920-750 will not bottom completely.

7. Repeat the operation for connectors that require more than one compression. Consult product packaging, Panduit catalog or website for part numbers and specific die application information.

Fig. 2
CT-930 Tool



MAINTENANCE

It is recommended that the hydraulic fluid be changed every 24 months. The tool should be returned to Panduit Tool Solutions Division for proper oil changing.

PERIODIC MAINTENANCE

1. Daily maintenance is important to keep the tool in good working condition. Keep the head clean and free of debris. Excessive dirt and grit can contribute to the premature wear of the tool's mechanical parts. \
2. Particular attention should be made in keeping the tool head openings free of foreign matter and debris. When using the tool regularly, check that no foreign matter or debris exists in the open areas between the ram and tool head. Thoroughly clean and lubricate the tool head. A tool that is dirty with excessive foreign matter may jam and become damaged during operation.
3. The hydraulic system has been calibrated and sealed at the factory. Consult our Tool Solutions Division Service Department if hydraulic problems are experienced.



4. As long as the daily maintenance procedures are adequately carried out, the tool will provide quality service for years. However, if problems are experienced, please contact our Tool Solutions Division Service Department at (888) 506-5400, ext. 83255.

CLEANING AND LUBRICATION OF TOOL HEAD

Thorough cleaning and lubrication of the tool head is recommended annually, depending on usage. It is recommended that the CT-930 Tool be returned to Panduit Tool Solutions Division for proper maintenance by our trained service staff.

VISUAL INSPECTION

1. Visually inspect tool for cracks or damage that may affect tool performance.
2. Visually inspect dies for cracks, chips or damaged surfaces.
3. Visually inspect tool for loose or missing components and evidence of loss of hydraulic fluid.
4. If tool is damaged, or if parts are missing, contact Panduit Tool Solutions Division.

TOOL FORCE INSPECTION / CALIBRATION

Inspect the compression force of the crimp head monthly, whenever possible damage has occurred, or as often as operating conditions warrant.

The tool output force can be certified by using a Panduit Compression Gauge, CG-920 (purchased separately; see *Optional Accessories on Page 1*), or return tool to Panduit Tool Solutions Division for maintenance and calibration.

For further information or assistance, call Panduit Tool Solutions Division at 888-506-5400, ext. 83255; and ask for one of our Tool Service Technicians.