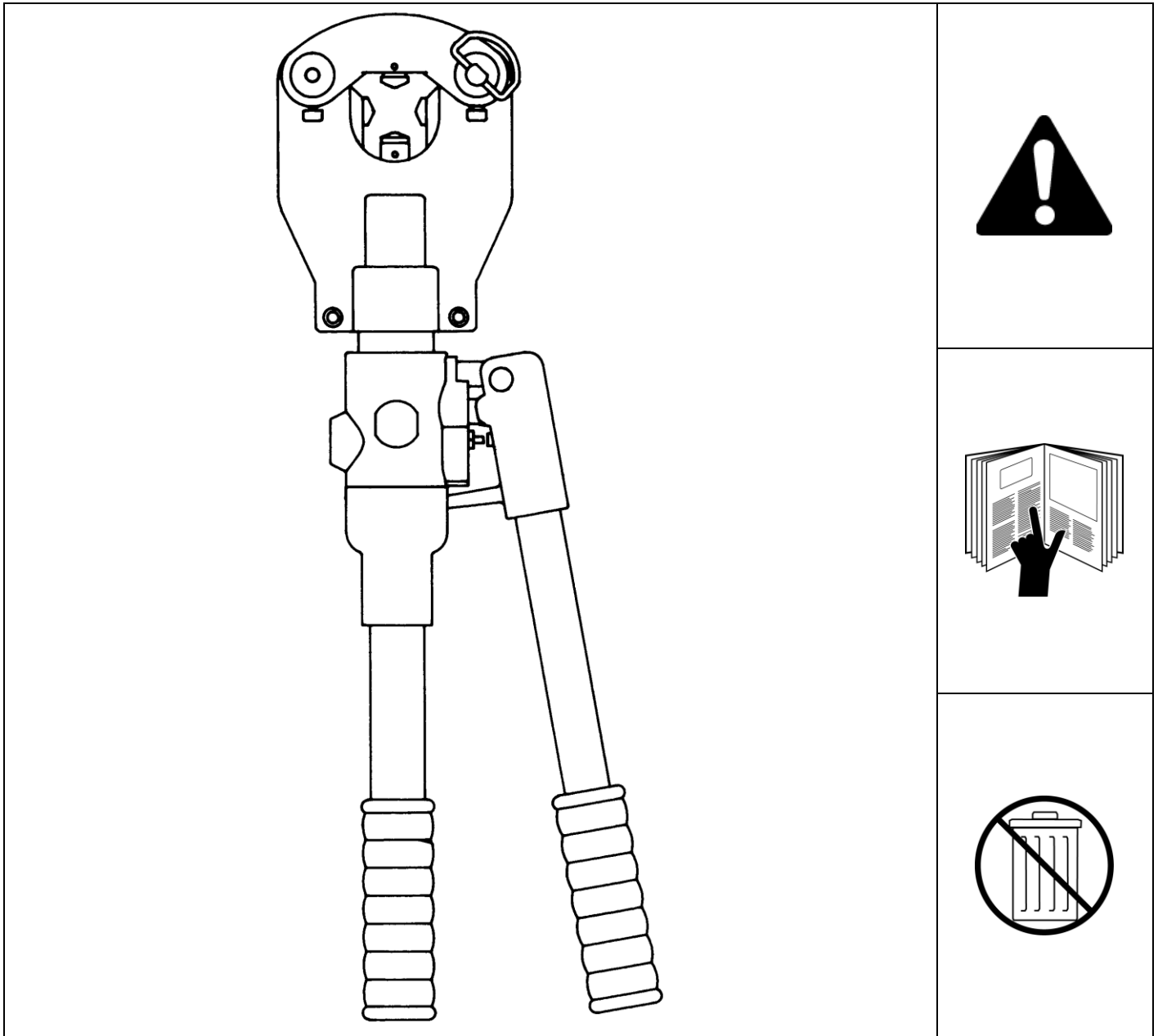


Uni-Die DIELESS MANUAL HYDRAULIC COMPRESSION TOOL

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Website: www.panduit.com
Email: techsupport@panduit.com

EU Website:
www.panduit.com/emea

EU Email: emeatoolservicecenter@panduit.com



Panduit Corp. • Tinley Park, IL USA
Technical Support
Tel: 888-506-5400, ext. 3255

Panduit Europe • EMEA Service Center
Almelo, Netherlands
Tel: +31 546 580 452 • Fax: +31 546 580 441



TABLE OF CONTENTS

SYSTEM SPECIFICATIONS 1

OPTIONAL ACCESSORIES 1

PRECAUTIONS AND GENERAL GUIDELINES 2

TOOL OPERATION 4

MAINTENANCE 7

Periodic Maintenance..... 7

Cleaning and Lubrication of Tool Head 7

Visual Inspection 7

Force Inspection/Calibration 7

SYSTEM SPECIFICATIONS

Output:	6.2 tons / 5.6 (metric tons)
	NOTE: CONNECTIONS UTILIZING THIS TOOL ARE U.L. LISTED AND C.S.A. CERTIFIED ONLY WHEN PANDUIT COPPER COMPRESSION CONNECTORS ARE USED. USE OF ANY OTHER BRAND OF COMPRESSION CONNECTORS IS NOT RECOMMENDED.
	Consult product packaging, Panduit catalog or website for information on recommended connectors.
Weight:	11.4 lbs. / 5.2 (kg)
Dimensions:	23.0 L x 7.25 H x 2.5 W in. 585 L x 185 H x 65 W (mm)
Handle Span:	15.00 in / 380 (mm) Open 5.75 in. / 145 (mm) Closed
CT-980 Carrying Case:	Included with CT-980 Tool

	NOTE: In the interest of higher quality and value, Panduit products are continually being improved and updated. Consequently, pictures may vary from the enclosed product.
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OPTIONAL ACCESSORIES (sold separately)

CG-980 Compression Gauge	Verifies the compression force of the CT-980 Dieless Hydraulic Compression Tool
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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.

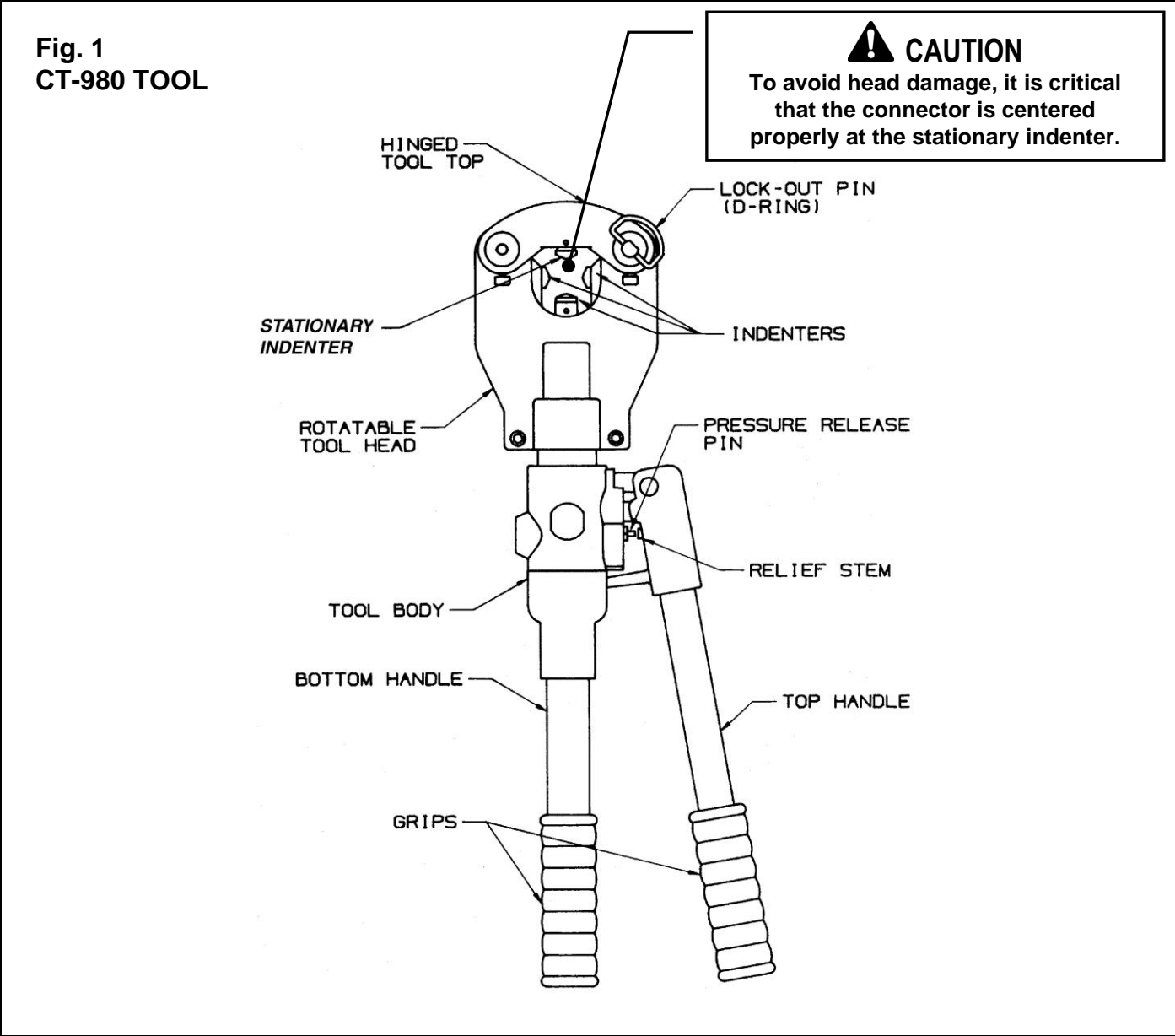
PRECAUTIONS AND GENERAL GUIDELINES

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



	<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. • 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. • Always verify the proper size connector for the conductor, by checking the color code and the printing on the connector. 	



TOOL OPERATION

To simplify operation, the tool head of the crimping tool may be rotated, by hand, 360° relative to the tool body. Also, the tool top may be opened to accommodate splices and large connectors (see Fig. 2 on Page 5). **NOTE:** The tool top does not have to be opened, except for larger connectors and special applications. To open the tool top, pull the "D-ring" to disengage the lockout pin so that the tool top can swing open. Before crimping, lock the tool top in the closed position by lowering the tool top, and sliding the lockout pin completely through the tool head and both surfaces of the tool top.



Failure to lock the tool top in the closed position may result in damage to the tool and personal injury.

1. Verify that the open areas between the indenters in tool head are free of foreign matter and debris that could jam or damage the tool during operation.
2. Verify the proper size connector for the conductor, by checking product packaging, Panduit catalog or website.


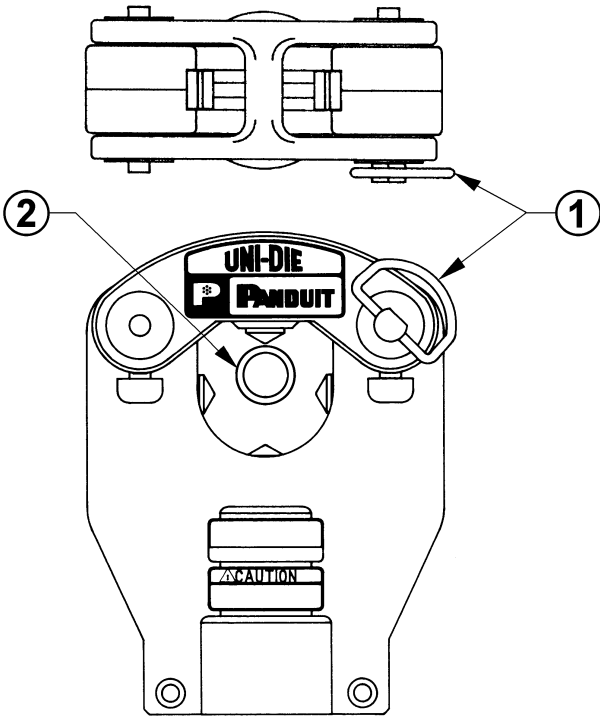
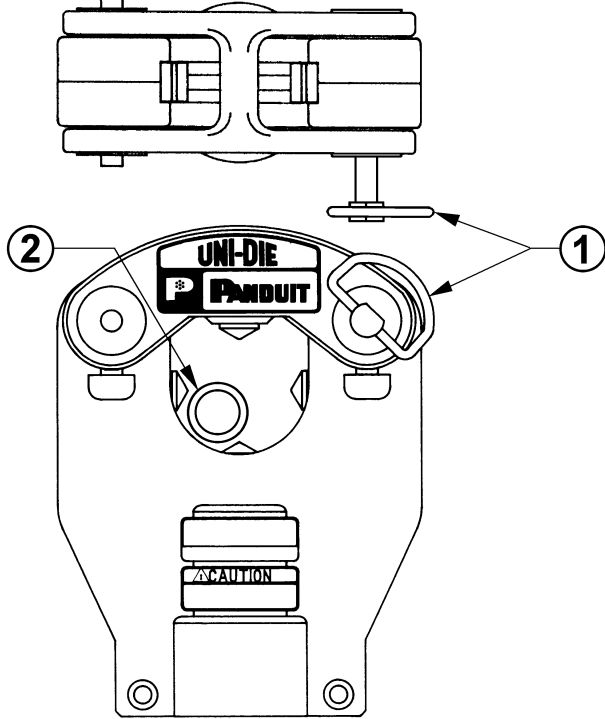
NOTE: CONNECTIONS UTILIZING THIS TOOL ARE U.L. LISTED AND C.S.A. CERTIFIED ONLY WHEN PANDUIT COPPER COMPRESSION CONNECTORS ARE USED. USE OF ANY OTHER BRAND OF COMPRESSION CONNECTORS IS NOT RECOMMENDED.

3. Verify that the hinged tool top is locked in the closed position with the lockout pin (see Fig. 2 on Page 5). Carefully position the connector against the stationary indenter in the hinged tool top.
4. With the tool supported, pump the top handle to initiate rapid advance of the indenters toward the connector. Stop pumping immediately when the indenters contact the connector.
5. Verify that the connector matches the conductor size. Insert the conductor completely into the connector barrel.

NOTE: For number of crimps needed, refer to product packaging, Panduit catalog or website.

6. Verify connector placement as shown in Fig. 4 on Page 6.

CAUTION	
<p>Before crimping a connection, verify that the tool top on the tool head is locked in the closed position.</p>	<p>The lockout pin must be engaged completely through the tool head and both surfaces of the tool top.</p>
<p>Fig. 2</p>	<p>Fig. 3</p>

 <p>CAUTION:</p>	<p>Do not crimp connector at this time.</p>
	<p>To avoid head damage, it is critical that the connector is centered properly at the stationary indenter. (See Fig. 4)</p>
	<p>If connector is not centered, go to Step 9 to retract indenters, then repeat Step 4.</p>
 <p>Fig. 4</p>	 <p>Fig. 5</p>
<p>PROPER CRIMP METHOD</p>	<p>IMPROPER CRIMP METHOD</p>

7. While holding the conductor in the connector barrel, begin pumping the top handle (10-15 strokes) to simultaneously advance the indenters, and crimp the connector.
8. When full crimping pressure is attained, a pressure relief valve will automatically activate and, the pump handle effort will suddenly decrease. Stop pumping the top handle when this occurs. The crimp is complete.
9. To retract the indenters, raise the top handle of the tool. Rotate the top handle clockwise (approx. 1/8 turn) until it stops. With the handle in this position, the relief stem in the handle will be aligned with the pressure release pin in the tool body. Lower the top handle until the relief stem depresses the pressure release pin to retract the indenters. When the indenters have retracted the desired amount, raise the top handle to stop retraction of the indenters. Retraction stops immediately when the pressure release pin is no longer depressed by the top handle relief stem.



MAINTENANCE

PERIODIC MAINTENANCE

1. Daily maintenance is important to keep the tool in good working condition. Keep the tool head portion clean and free from debris. Excessive dirt and grit can contribute to the premature wear of the tool's internal mechanical parts. Wipe the tool surfaces with a damp cloth and mild detergent.

Check the indenters for wear and damage such as cracks, gouges, or chips. Inspect the tool for damage or oil leaks. Return a damaged tool to Panduit Tool Solutions Division for repair by contacting Panduit Tool Service at 1-888-506-5400, extension 3255.

Fully retract the ram and store the tool in its clean, dry carrying case when not in use.

2. Avoid humidity wherever possible for efficient operation and the prevention of corrosion.
3. The hydraulic tool has been calibrated and sealed at the factory. Contact Panduit Tool Service if hydraulic problems are experienced. 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.

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-980 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 indenters 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.

FORCE INSPECTION / CALIBRATION

The tool output force can be certified by using a Panduit Compression Gauge, CG-980 (purchased separately), 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. 3255; and ask for one of our Tool Service Technicians.