# OPERATORS' GUIDE



# PDY-1220

# 12 TON HYDRAULIC CRIMPING TOOL

### -WARNING -



All information found in this guide must be read and understood before use or testing of this tool.

Failure to read and understand these warnings and safe handling instructions could result in severe personal injury and or death.



# RELIABLE EQUIPMENT & SERVICE CO., INC.

### DISTRIBUTED BY

## REGISTRATION

UPON RECEIPT OF THIS TOOL, COMPLETE THE REGISTRATION BELOW.

COMPANY		 
ADDRESS		
PHONE	FAX	 
SERIAL NUMBER		 
DATE OF PURCHASE		 
DEALER NAME		



CAU-TION The information in this manual is intended to guide the user in the use and application of this tool. It is not intended as a substitute for proper training and experience in safe work practices for this type of equipment.

Consult your supervisor or safety personnel if you have any questions regarding the safe operation of this tool.

# TABLE OF CONTENTS

DISTRIBUTOR INFORMATION	2
REGISTRATION	2
TABLE OF CONTENTS	3
TOOL SPECIFICATIONS	
PDY 1220	4
SAFETY INFORMATION AND WARNINGS	5-8
DAILY MAINTENANCE	9
OPERATING INSTRUCTIONS	9
TYPICAL DOUBLE ACTING SET-UP	10
LABELS	10
MAINTENANCE	11
PDY 1220	
PARTS DRAWING	12
PARTS LIST	13
MAINTENANCE RECORDS	14
CONTACT INFORMATION	14

If you have any questions regarding the information found in this manual please contact RELIABLE EQUIPMENT at 800-966-3530 or FAX 215-357-9193.



### THIS SYMBOL INDICATES ITEMS OF EXTREME IMPORTANCE.

Safety of user and others may be in jeopardy if these instructions are not read and understood.



# RELIABLE EQUIPMENT & SERVICE CO., INC.



### 12 TON DOUBLE ACTING HYDRAULIC CRIMPING TOOL

The **PDY-1220** is the industry's most commonly used Crimping Head. Easy, one-hand operation, and 360° rotating head allows easy head orientation for precision control of crimping to improve safety and reliability. Designed for connectors requiring 12 ton crimping forces, and feature double-acting hydraulic power to eliminate die hang-up.

### **Optional Configuration:**

PCY-1220 Features high pressure couplings installed for double acting coupled applications.

### **SPECIFICATIONS**

System	Double-Acting	
Jaw Capacity	1-3/16"	
Crimping Force	24,300 lb.	
Return Force	4,030 lb.	
Oper. Pressure	<b>10,000 psi</b> (690 bar)	
Return Pressure	<b>5,000 psi</b> (345 bar)	
Couplers	Direct Connect	
Dies Accepted	Y-35 or Equal	
Head Rotation	360°	

Weight: 10 lbs. Length: 9.5 inches Width: 3 inches



# RELIABLE EQUIPMENT & SERVICE CO., INC.

301 Ivyland Road • Warminster, PA 18974 Phone: 800-966-3530 • Fax: 215-357-9193 Visit us on the web at www.Reliable-Equip.com



WARNING

BEFORE USING THIS TOOL, READ THE WARNINGS and the recommended practices described in this manual. Failure by the operator to read and fully understand these warnings will leave this person unqualified to use and

Failure by the operator to read and fully understand these warnings will leave this person unqualified to use and operate this tool. Property damage, severe personal injury, and/or death could result by not following these warnings.

These warnings will appear in appropriate locations when they are pertinent to the particular subject being shown. Read each one carefully and follow them strictly.



Eye Protection

#### WARNING

Always wear eye protection to avoid injury from flying debris or hydraulic oil leaks. Failure to do so can result in serious personal injury.



### **Dust Mask**

#### **WARNING**

Always wear a dust mask. Failure to observe this warning may result in serious health issues and/or breathing difficulty.



### **Hard Hat**

#### WARNING

Always wear a hard hat to avoid injury from falling debris. Failure to do so can result in serious personal injury.



# Foot Protection

#### WARNING

Always wear foot protection. Failure to do so can result in serious personal injury.



# Hearing Protection

### WARNING

Always wear hearing protection, to avoid hearing loss due to long term exposure to high noise levels.



# Protective Gloves

### **WARNING**

Always wear protective gloves Failure to do so can result in serious personal injury.



### **SAFE OPERATION & CARE**

USE THIS TOOL FOR ITS INTENDED PURPOSE ONLY Any other use can result in personal injury or property damage. INSPECT TOOL BEFORE USE. Replace any worn, damaged or missing parts. A damaged or improperly assembled tool may malfunction, injuring operator and/or nearby personnel.

INSPECT HYDRAULIC HOSES AND COUPLINGS before each use. Repair or replace if any cracking, leakage, wear or damage is found. Worn or damaged hoses may fail resulting in personal injury or property damage.

CLEAR WORK AREA of all bystanders and unnecessary personnel before operating this tool.

KEEP ALL PARTS OF THE BODY AWAY FROM MOVING PARTS.

Failure to observe this warning could result in serious injury.



### **HYDRAULIC POWER SUPPLY**

DO NOT attempt to make any changes to any of the component parts or accessories when connected to the power source.

DO NOT adjust, inspect, or clean tool while the tool is connected to the power source. The tool could accidentally start up and cause serious injury.

DO NOT lock the tool in the On Position. In an emergency, serious damage or injury could occur during the time required to stop the tool.



### **OIL INJECTION INJURY**

Hydraulic oil or fluid under the skin is a serious injury. Oil under pressure can penetrate the skin and may cause dismemberment or loss of life. Seek medical assistance immediately if such an injury should occur.

Always wear safety gloves, eye protection and all required safety equipment when operating or handling this tool. DO NOT use fingers or hands to attempt to locate a leak. DO NOT handle hoses or couplers while system is pressurized. NEVER open or service the system before depressurizing.



# HOSES AND FITTINGS

There exists the potential for shock in using anything other than certified nonconductive hoses and hydraulic oil with dielectric properties, when using system components near energized electrical lines. Failure to recognize these conditions could cause electrocution.

Hoses and fittings used with this tool must comply with S.A.E. J1273 which covers recommended practice for selection, installation, and maintenance of hose and hose assemblies. The correct hoses and fittings are available from your supplier.

**WARNING:** Failure to comply with these warnings could result in severe bodily injury.



## UNIT/HOSE CONNECTIONS

ALWAYS DISCONNECT pump/power source and move toggle switch to OFF before connecting or disconnecting any components. ALWAYS DEPRESSURIZE hydraulic system, before slowly disconnecting this unit or any of the systems components. ALWAYS TIGHTEN couplings completely. Loose or improperly tightened couplings will not allow fluid to pass through the

**ALWAYS INSPECT HOSES AND CONNECTORS** before connection to tool. Replace or repair if any leakage is evident. Leakage is a sign of deterioration in component parts. Worn or leaking parts must be repaired or replaced, or tool damage or severe injury could result.

hose creating a blockage in the supply or return line.



## HOSE INSTALLATION

#### **ALWAYS ENSURE CONNECTORS ARE CLEAN**

CAUTION

**DOUBLE ACTING** - Care must be taken to assure the correct connection of the hoses to the pressure and return (tank) ports. Connect the return hose to the return (tank) port on the power source, then to the return port on the tool.

Connect the pressure hose to the pressure port on the tool, then to the "P" pressure port on the power source.

Operation with hydraulic flow reversed can cause malfunction. Failure to fully comply can result in severe injury or death.



Operation/Safety methods may vary in accordance with the working guidelines established by each utility or contractor.

For your own safety, ensure that you fully comply with all safe operation guidelines required by your employer.



### **ELECTRICAL SHOCK HAZARD**

Always wear and use the necessary clothing, equipment and safety practices to protect against electrical shock. Failure to follow these rules can result in serious personal injury or death.



**USE ALL APPROPRIATE AND APPLICABLE PERSONAL SAFETY EQUIPMENT** as required by the operating company.

**ALWAYS INSPECT** TOOL for wear or deterioration every day.

Replace all parts that show signs of wear or damage.

INSPECT TOOL BEFORE USE. Replace any worn, damaged or missing parts. A damaged or improperly assembled tool may injure operator and/or nearby personnel.

KEEP ALL PARTS OF THE BODY AWAY from moving parts of the tool.

KEEP HANDS OUT FROM BETWEEN CRIMPING JAWS AT TOOL HEAD.

ALL BODY PARTS SHOULD BE OUTSIDE DANGER ZONE PRIOR TO CRIMPING.

MAKE SURE there is no person in close proximity to you or the tool who could be injured by any operation being performed, tool malfunction or flying debris.

**DO NOT OVEREXTEND** your position by overreaching or unbalancing the footing necessary to maintain physical control of your body and the tool.

**ALWAYS MAINTAIN** a firm grip on the tool to avoid loss of control during an operation, causing property damage, serious injury or death.

USE THIS TOOL FOR THE MANUFACTURERS' INTENDED PURPOSE ONLY.
OBSERVE CLOSELY ALL SAFETY RULES FOR A PARTICULAR JOB CLASS

FAILURE TO HEED THESE WARNINGS COULD RESULT IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR DEATH.

### DAILY MAINTENANCE

The life, reliability, and safety of the tool is dependent on proper maintenance. Clean all surfaces including head, die seat, ram, and body.

Inspect for wear and damage. Worn or damaged parts may malfunction during operation.

All parts must be replaced with new parts if signs of wear or damage are evident.

Keep Label Set clean and legible. Replace decals when necessary.

# **OPERATION**

Read entire manual prior to using this tool. (Refer to all safety recommendations and warnings)

Observe all safety precautions and procedures required by the operating company. Also refer to SAFETY information found on pages 5 and 6)

Before crimping, ensure that crimp is within the capacity listed for the tool.

Ensure that you are using the proper die, as recommended by the connector manufacturer. Insert proper die into die seat using die buttons.



### NEVER OPERATE TOOL WITHOUT DIES



Serious damage or personal injury could occur.

Place tool over connector.

Advance ram to connector with fast advance feature on handle.

Align jaw as necessary to ensure proper crimp.

**NOTE:** Jaw may be released as needed at any point in the crimp cycle.

Continue pumping until desired pressure has been achieved.

Crimp is complete.

To release ram from connector, operate directional valve. (Double Acting Models)

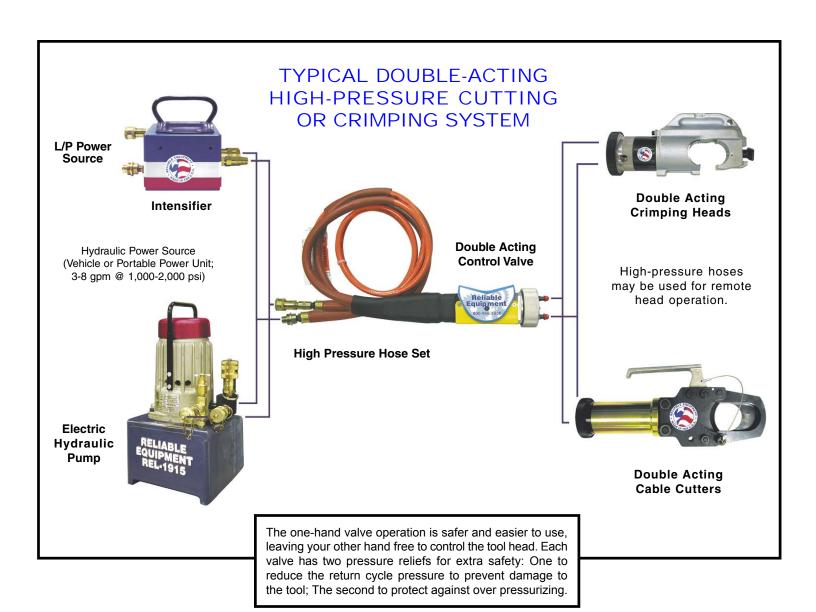
Ram will retract automatically when pressure is released. (Single Acting Models)

Repeat steps above as necessary.

Manufacturer recommends regular testing for proper pressure and operation.

Test at least every 6 months, test more often under heavy usage.

IF YOU HAVE ANY QUESTIONS REGARDING THE PROPER USE AND/OR OPERATION OF THIS TOOL, CONSULT YOUR AREA SUPERVISOR, OR CONTACT RELIABLE EQUIPMENT AT 800-966-3530





BEFORE USING THIS PRODUCT READ THE SAFETY WARNINGS

and recommended practices described in the manual. Failure by the operator to read and fully understand the warnings will leave this person unqualified to use and operate the tool.

Failure to observe all warnings and instructions could result in property damage, severe personal injury, and/or death.



operations and surjoin minus many variy in accordance with the guidelines established by each utility. For your safety, ensure that you fully comply with all safe operation guidelines established by your respective power utility.





Do not operate without dies.

NOTE: Keep Label Set clean and legible. Replace decals when necessary.

# **MAINTENANCE**

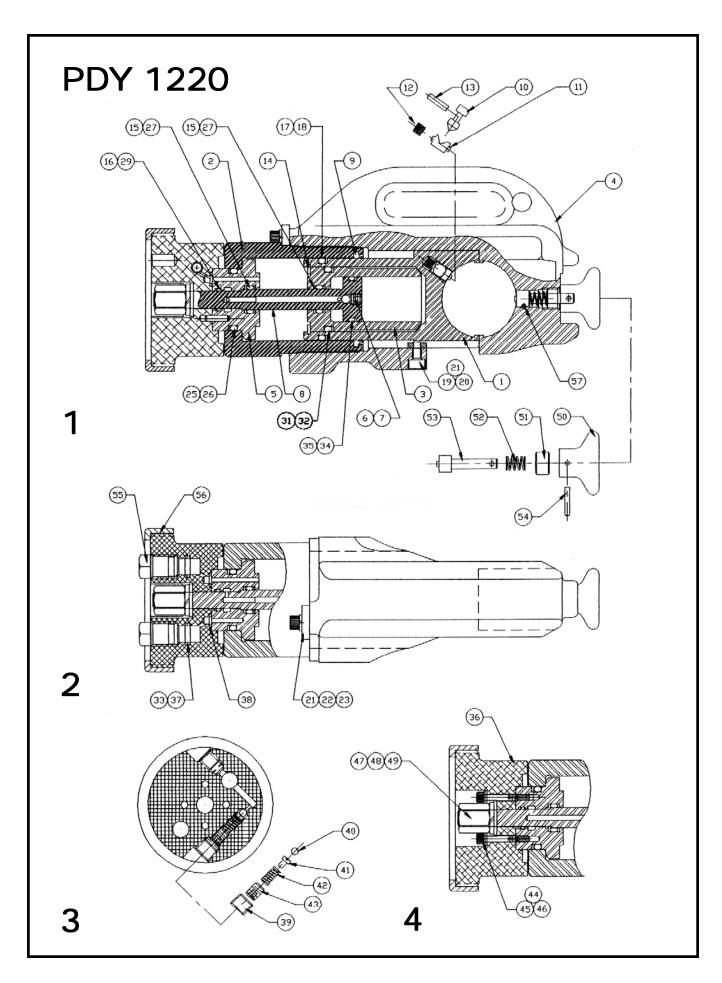
Complete disassembly is not recommended. Return the unit to an authorized dealer for total disassembly and/or repair.

All maintenance or disassembly should take place on a flat, clean work surface covered with towels or wipers so as to have a clean space for the disassembled parts.

Inspect each part during disassembly for wear, scratches, and cuts. Discard the worn or damaged parts and replace with new factory authorized parts.

O-rings are sensitive to sharp edges. Inspect closely for cuts or damage. A small cut will cause a leak. When assembling or disassembling O-rings, use hydraulic fluid as a lubricant to help disassembly or installation.

IF YOU HAVE QUESTIONS REGARDING THE REPAIR AND MAINTENANCE OF THIS TOOL CONTACT RELIABLE EQUIPMENT AT 800-966-3530



# PDY 1220 PARTS LIST

Temporary   Temp	ITES:	OT\(	DADTNO	DECORIDATION	DD AVAUNO #
2	ITEM	QTY	PART NO	DESCRIPTION	DRAWING #
3		1	l		1
4		l	l	· · · · · · · · · · · · · · · · · · ·	1
5		l	l		1
6		l	l		1
7			l		1
8		l			1
9°   1		1	l		1
10		1	l		1
11		l			1
12		l	l		1
13			l		1
14		l	l		1
15°		1	l		1
16'					1
17'		l			1
18"   1		1			1
19		l			1
20		1			1
21			l		1
22			l		
23		1	l		
25°   1	22	1	28004	SCREW	
26*		1	28005K	STOPPER	2
27*		1	*	O-RING	1
29*			*	BACK UP RING	1
31*		2	*	O-RING	1
32*		1	*	O-RING	1
33*# 2		1	*	BACK UP RING	1
34*	32*			O-RING	
35*		2	* #	BACK UP RING	2
36         1         12120         END CAP         (# ITEMS ARE INCLUDED WITH END CAP)         4           37*#         2         *#         O-RING         2           38*         3         *         O-RING         2           39#         2         #         PIPE PLUG         3           40#         1         #         CHECK BALL         3           41#         1         #         PINTLE         3           42#         1         #         COMPRESSION SPRING         3           43#         1         #         SET SCREW         3           44         4         1220-10         FLAT VWASHER         4           45         4         1220-12         SCREW         4           46         4         1220-11         LOCK WASHER         4           47         1         1220-8         NUT         4           48         1         1220-14         LOCK WASHER         4           49         2         1220-23         SCREW         1           50         2         1220-20D         DIPPED BUTTON         1           51         2         1220-3         SCREW	34*	1	*	O-RING	1
37*# 2	35*	1	*		
38*       3       *       O-RING       2         39#       2       #       PIPE PLUG       3         40#       1       #       CHECK BALL       3         41#       1       #       PINTLE       3         42#       1       #       COMPRESSION SPRING       3         43#       1       #       SET SCREW       3         44       4       1220-10       FLAT VWASHER       4         45       4       1220-12       SCREW       4         46       4       1220-11       LOCK WASHER       4         47       1       1220-8       NUT       4         48       1       1220-14       LOCK WASHER       4         49       2       1220-13       FLAT WASHER       4         50       2       1220-20D       DIPPED BUTTON       1         51       2       1220-3       SCREW       1         52       1       1220-4       SPRING       1         53       1       1220-5       PIN, DIE RETAINER       1         54       1       1220-16       ROLL PIN       1         55			· ·	· ·	•
39#       2       #       PIPE PLUG       3         40#       1       #       CHECK BALL       3         41#       1       #       PINTLE       3         42#       1       #       COMPRESSION SPRING       3         43#       1       #       COMPRESSION SPRING       3         43#       1       #       COMPRESSION SPRING       3         44       4       1220-10       FLAT VWASHER       4         45       4       1220-12       SCREW       4         46       4       1220-11       LOCK WASHER       4         47       1       1220-8       NUT       4         48       1       1220-14       LOCK WASHER       4         49       2       1220-13       FLAT WASHER       4         50       2       1220-20D       DIPPED BUTTON       1         51       2       1220-3       SCREW       1         52       1       1220-4       SPRING       1         53       1       1220-5       PIN, DIE RETAINER       1         54       1       1220-16       ROLL PIN       1         <			* #	O-RING	
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47       1       1220-8       NUT       4         48       1       1220-14       LOCK WASHER       4         49       2       1220-13       FLAT WASHER       4         50       2       1220-20D       DIPPED BUTTON       1         51       2       1220-3       SCREW       1         52       1       1220-4       SPRING       1         53       1       1220-5       PIN, DIE RETAINER       1         54       1       1220-16       ROLL PIN       1         55       2       1/4"       CAP PLUG       2         56       1       1220-19       THREAD PROTECTOR       2         57       1       1220-17       ROLL PIN       1	45	4	1220-12	SCREW	4
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49       2       1220-13       FLAT WASHER       4         50       2       1220-20D       DIPPED BUTTON       1         51       2       1220-3       SCREW       1         52       1       1220-4       SPRING       1         53       1       1220-5       PIN, DIE RETAINER       1         54       1       1220-16       ROLL PIN       1         55       2       1/4"       CAP PLUG       2         56       1       1220-19       THREAD PROTECTOR       2         57       1       1220-17       ROLL PIN       1	47	1	1220-8	NUT	4
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51       2       1220-3       SCREW       1         52       1       1220-4       SPRING       1         53       1       1220-5       PIN, DIE RETAINER       1         54       1       1220-16       ROLL PIN       1         55       2       1/4"       CAP PLUG       2         56       1       1220-19       THREAD PROTECTOR       2         57       1       1220-17       ROLL PIN       1	49	2	1220-13	FLAT WASHER	4
52     1     1220-4     SPRING     1       53     1     1220-5     PIN, DIE RETAINER     1       54     1     1220-16     ROLL PIN     1       55     2     1/4"     CAP PLUG     2       56     1     1220-19     THREAD PROTECTOR     2       57     1     1220-17     ROLL PIN     1	50		1220-20D	DIPPED BUTTON	1
53       1       1220-5       PIN, DIE RETAINER       1         54       1       1220-16       ROLL PIN       1         55       2       1/4"       CAP PLUG       2         56       1       1220-19       THREAD PROTECTOR       2         57       1       1220-17       ROLL PIN       1	51	2	1220-3	SCREW	1
54     1     1220-16     ROLL PIN     1       55     2     1/4"     CAP PLUG     2       56     1     1220-19     THREAD PROTECTOR     2       57     1     1220-17     ROLL PIN     1	52	1	1220-4	SPRING	1
55         2         1/4"         CAP PLUG         2           56         1         1220-19         THREAD PROTECTOR         2           57         1         1220-17         ROLL PIN         1	53	1	1220-5	PIN, DIE RETAINER	1
56         1         1220-19         THREAD PROTECTOR         2           57         1         1220-17         ROLL PIN         1	54	1	1220-16	ROLL PIN	
56         1         1220-19         THREAD PROTECTOR         2           57         1         1220-17         ROLL PIN         1	55	2	1/4"	CAP PLUG	
57 1 1220-17 ROLL PIN 1	56	1	1220-19	THREAD PROTECTOR	
* 1 PDY1220SK SEAL KIT INCLUDES PARTS MARKED *	57	1	1220-17	ROLL PIN	
	*	1	PDY1220SK	SEAL KIT INCLUDES PARTS MARKED *	

### **Maintenance Records**

Date	Parts or Service Required	

If you have any questions regarding the information found in this manual please contact RELIABLE EQUIPMENT at the address, phone or fax numbers shown below.



301 Ivyland Road • Warminster, PA 18974 Phone: 800-966-3530 • Fax: 215-357-9193 Visit us on the web at www.Reliable-Equip.com