

Tools Renewed Inc
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CP4129 CHIPPING HAMMER

RHP 985

**FIRST EDITION
MARCH, 1998**



**WARNING - TO REDUCE RISK OF INJURY,
READ AND UNDERSTAND THIS INSTRUCTION
MANUAL BEFORE OPERATING TOOL.**

Instruction and Parts Book for

PNEUMATIC SIMPLATE HEAVY DUTY CHIPPING HAMMER

CP 4129 Model "A" & "U"

**PROTECT YOUR INVESTMENT
IN THE WORLD'S FINEST AIR TOOLS
USE GENUINE CP REPLACEMENT PARTS**

The purchase of replacement parts for your CP tools deserves the same good judgement that resulted in the purchase of the tools themselves. Each genuine CP part is made from carefully selected and inspected material, subjected to sophisticated machinery and finishing processes

and heat-treated to produce just the right combination of hardness, ductility and impact resistance for its intended use. Each parts is identical to, and made concurrently with, parts used in production tools. The use of parts other than genuine CP replacement parts can lead to sub-standard performance, early failure, possible damage of other parts and, in some instances, unsafe conditions.



**Chicago
Pneumatic**

Chicago Pneumatic Tool Company • 1800 Overview Drive • Rock Hill, SC 29730 (803) 817-7000

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Tools covered by this instruction and parts book have catalog numbers starting With CP4129 followed by catalog code letters such as 4ROT, 3ROT, 2ROT, 1ROT, 4HOT, 3HOT, 2HOT, 1HOT, 4RIT, 3RIT, 2RIT, 1RIT, 4HIT, 3HIT, 2HIT, 1HIT,

The following index indicates the options & brief features.

THROTTLE HANDLE	VALVE	PISTON & CYLINDER	BUSHING
Description	Description	Description	Description
D Handle Inside Trigger (IT)	Simplat	1" Nominal Stroke	680" Dia. Round (R)
D Handle Outside Trigger (OT)		2" Nominal Stroke	.580 Hexagon (H)
		3" Nominal Stroke	
		4" Norminal Stroke	

CAUTION : THIS CODE LETTERS INDEX DOES NOT NECESSAIRLY INDICATE INTERCHANGEABILITY OR SAFE PARTS COMBINATIONS. REFER TO THE LATEST CHICAGO PNEUMATIC CATALOG FOR APPROVED TOOL DESIGNATIONS AND ASSEMBLY COMBINATIONS.

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GENERAL INSTRUCTIONS

Air Supply

For satisfactory performance, 90 PSIG (6.2 bar) of clean, dry air is required AT THE TOOL with tool operating. Whip hose 3/8" I.D. may be used at th air inlet, but longer runs should be 1/2" hose size or larger, used with couplings or a minimum 7/16" I.D. The use of C-132194 CHICAGO PNEUMATIC Air Line Separator and Filter and a CA- 048362 Air Line Pressure Regulator mounted as closely as possible to the tool is recommended.

Instructions for Safe Operation

BEFORE PLACING THIS TOOL IN OPERATION, READ THE FOLLOWING SECTIONS EXCERPTED FROM THE COMPRESSED AIR AND GAS INSTITUTES " SAFETY CODE FOR PORTABLE AIR TOOLS ." (APRIL 1974)

1. EYE PROTECTION - Eye and face protection shall be worn at all times while operating power tools.
2. RETAINERS - A retainer shall be integral with or installed on a percussion tool which, without such a retainer, can eject the chisel, rivet set, punch or such equipment, when the tool is operated off a work surface.
3. QUICK DISCONNECT COUPLINGS - If a quickdisconnect coupling is used on a percussion tool it shall be separated from the tool by a whip hose.
4. OPERATOR INSTRUCTIONS - A percussion tool shall not be operated unless the chisel, rivet set, scalling tool, or other, is in position in the tool and in contact with the work piece. Tools shall not be used in such a manner that ejection of an accessory might endanger adjacent personnel.

5. REMOVE TOOLS - When percussion tools are not in use, the dies and accessories shall be removed, unless they are retained in a positive manner.

Preparing for Operation

Daily before using and after each eight hours service, disconnect air hose from Chipping Hammer, and blow out air line to clear it of accumulated dirt and moisture. Pour about one tablespoonful of recommended oil into air inlet, connect air hose and operate tool to allow oil to be carried to the interior.

Lubrication

The use of synthetic oils is not recommended because of possible damage to seals, "O" rings , hose, rotor blades and polycarbonate oiler and filter bowls.

The use of a Chicago Pneumatic Air Line Lubricator installed as closely as possible to the tool, preferably between the air pipe and the hose leading to the tool, is recommended with all pneumatic tools to assure a constant and adequate supply of lubricant to the working parts of the tools.

Recommended Lubricants

CHICAGO PNEUMATIC Airoilene Oil which contains moisture absorbent, rust inhibiting additives and will use with CP Simplat Chipping Hammers and may be purchased under the following symbols :

- 1 gal. can P-089507
- 5 gal. can P-089508

If recommended oil is not available, use a turbine or spindle grade oil with a viscosity of 100-150 SUS at 100F which contains a rust inhibitor.

Loss of Power / Erratic Action

Loss of power and erratic action may be caused by factors outside the tool proper. Make the following checks :

1. Check Air Pressure.- For rated performance 90 PSIG (6.2 bar) air pressure AT THE TOOL is required with the tool operating on the job. A drop in air pressure may be caused by lowered compressor output , excessive drain on the air line or by the use of hose or connections of improper size or poor condition.
2. Check for wet or dirty air. - Excessive moisture in the air supply tends to wash lubricant away from the working parts of the tool and rust or corrode the interior. Grit will damage the interior by scoring closely fitted parts, and impede the action of the tool. If the above are found in order, disconnect tool and pour a liberal amount of recommended oil or an SAE # 10 oil cut with an equal quantity of kerosene into the air inlet. Operate the tool to allow lubricant to flush accumulated gum and grit out the exhaust.

CAUTION : When operating tool to flush our gum and foreign matter direct tool exhaust away from operator and co-workers.

If outside factors are not to blame, disassemble the tool, thoroughly clean and inspect all part and replace those worn or broken. Coat parts with light oil and reassemble.

Maintenance

Do not penalize the operator by requiring him to use a tool which is not in first class condition. Regular inspection and immediate repair of minor faults will avoid more extensive future repairs and maintain the tool at its highest efficiency.

1. Keep tool properly lubricated
2. Provide 90 PSIG (6.2bar) of clean, dry air AT THE TOOL.
3. CAUTION : Clamp ring should be replaced periodically to prevent cylinder from rotating and protect parts from damage.
4. Set up and maintain an inspection and repair program regularly scheduled at intervals governed by the degree of use to which the tool is subjected.

Inspection Standards

Check tool after disassembly for plugged air porting and for worn parts. As the parts of the tool wear, power will slowly decrease. Depending on the requirements of the particular application tolerable wear can vary. As a guide in maintaining maximum power output, parts listed in the following table should not be worn in excess of the given dimensions.

Part	Maximum ID (in.)	Part	Minimum OD (in.)
Cylinder (20)	1.127"	Piston (22)	1.1220"
Sleeve (23)	.6910"		

Replace piston if cracked or worn hollow on striking end. Valve seats and edges of valve should be inspected visually for wear and pitting .

Malfunctions and Repairs

This section covers the use of the repair tools listed on page 5 and enumerates the most usual causes and corrections of malfunctions of the tool proper. It is designed to help the user make rapid and efficient repairs to the dimensions required by matting parts of the tool.

1. Throttle Valve Leakage

Remove throttle valve (7) from tool and remove "O" ring (9) from valve. Slip a new "O" ring on the throttle valve and reassemble. Replace throttle valve bushing (4) if worn, ream (.280"ream) before installing throttle valve.

2. Rotating Cylinder

Replace ring-clamp (19) if ring appears torn or flaked. Replace ring-clamp (19) if cylinder (20) rotates relative to the flange (26) when turned by both hands after assembly.

Assembly Cautions

1. With bumper (28) and washer (29) in place, assemble flange (26) against handle by tightening the four bolts (27) evenly till the gap between the flange and the handle disappears. As a guide, use approx. 15 - 18 ft.-lb. Torque on the bolts. Recheck the torque on all bolts after the tightening sequence to ensure that all bolts are properly torqued.

2. With tool completely assembled, check the ability of turning the cylinder (20) with both hands relative to the flange (26) . If the cylinder rotates, it is time to replace the ring- clamp (19). Also, replace bumper (28) if compression takes a set at 1/4" thickness (total height) or if bumper appears to be cracked.

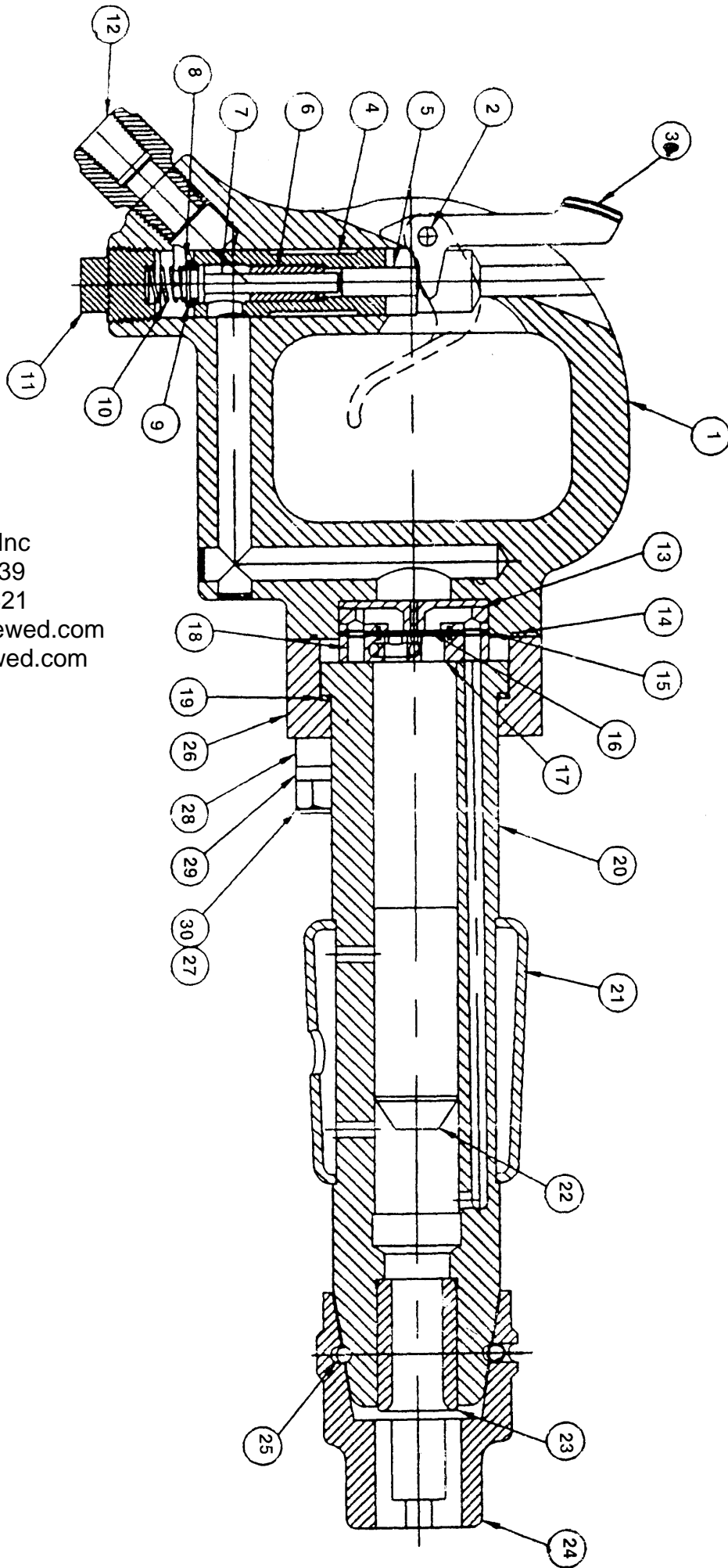
WARNING : Frequently inspect lock spring (25) for excessive wear and replace if necessary. Failure to observe this practice may result in serious injury to operator.

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CP 4129 CHIPPING HAMMERS Model "A" & "U"

Index No.	Part No.	Description	No Reqd	Index No.	Part No.	Description	No. Reqd
1	P155427	Handle	1	21	P155535	Muffler	1
2	Ro75404	Pin - Lever	1	22	P118662	Pistion	1
3	P003070	Lever - Throttle Valve	1	23	P001550	Bushing - Round	1
4	P005154	Bushing- Throttle Valve	1	24	P107243	Retainer - Sleeve (Incl. No.25)	1
5	P005156	Pin- Push	1	25	P070994	Retainer - Spring	1
6	P005157	Bushing-Push Pin	1		P139189	Retainer - Spring Hvy. Dutty	1
7	P092090	Valve- Throttle	1	26	P155418	Flange	1
8	P092091	O - Ring Retainer	1	27	P155420	Bolt	4
9	CA088867	O - Ring (110)	1	28	P155421	Bumper	4
10	P006170	Spring - Throttle	1	29	P155422	Washer	4
11	P001884	Plug - Throttle Valve	1	30	P155536	Hex Nut - Insert Nylock	4
12	P001995	Bushing - Air Inlet	1	31	P155582	Partsbook	1
13	P071350	Lid - Upper - Valve	1	32	P155583	CG Papers	1
14	P155584	O - Ring (038)	1	33	CA144007	Decal - Warning	1
15	P071352	Case - Valve	1				
16	P071358	Valve	1				
17	P071351	Lid - Lower - Valve	1				
18	A041797	Pin - Dowel	2				
19	P144153	Ring - Clamp	1				
20	P155423	Cylinder, 3" (Rd) Bare	1				
	P155430	1" Cyl incl. Round Bush	1				
	P155431	1" Cyl incl. Hex Bush	1				
	P155705	2" Cyl incl. Round Bush	1				
	P155706	2" Cyl incl. Hex Bush	1				
	P155707	3" Cyl incl. Round Bush	1				
	P155708	3" Cyl incl. Hex Bush	1				
	P155709	4" Cyl incl. Round Bush	1				
	P155710	4" Cyl incl. Hex Bush	1				

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