

FOR PARTS AND TOOLS CALL:

CP 22 SINKER DRILL

UTICA ROCK DRILL 740

FIRST EDITION

MARCH, 1985

TOOLS RENEWED, INC.

TEL: 800-247-3639

FAX: 860-665-9821

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Instruction and Parts Book for

SINKER DRILLS

CP22 , Model "F"

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 judgment 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 part 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.

UTICA ROCK DRILL 740

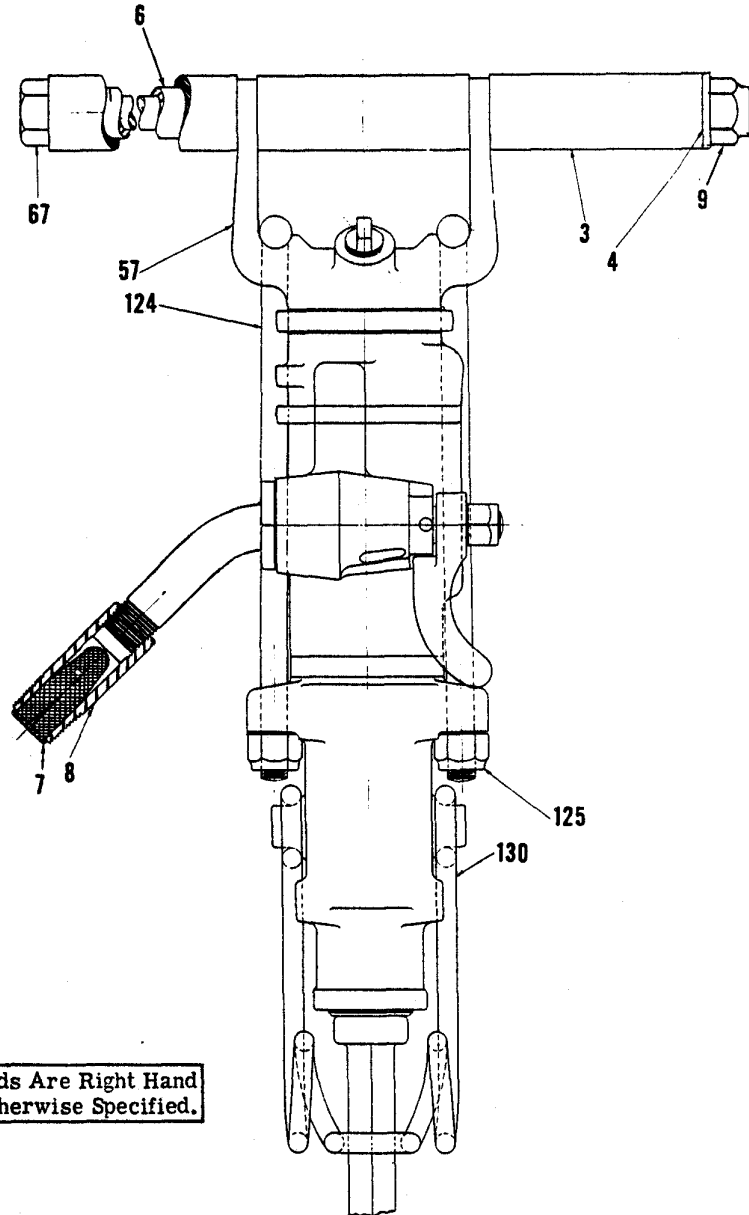
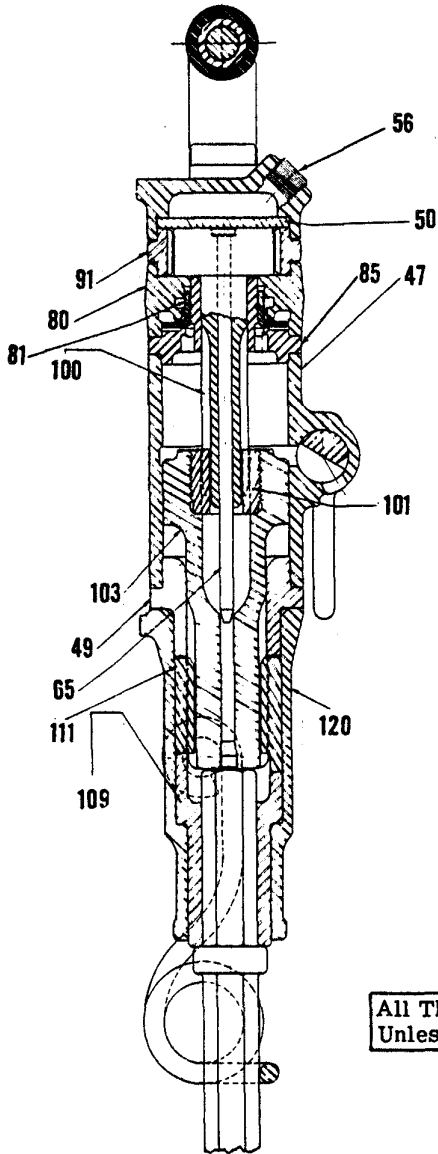
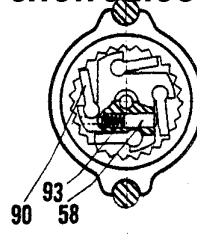
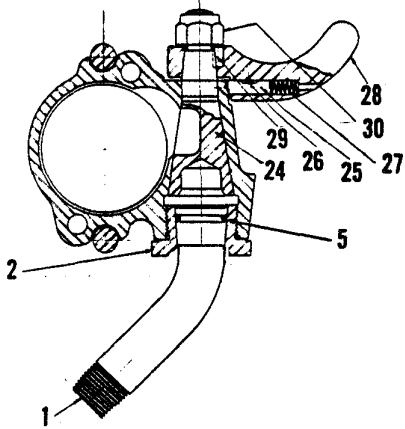


TOOL DIVISION
Chicago Pneumatic

UTICA, NEW YORK 13501

CP 22 SINKER DRILL (DRY) Model "F"

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**All Threads Are Right Hand
Unless Otherwise Specified.**

Index No.	CP Part No.	Description	No. Req'd.	Index No.	CP Part No.	Description	No. Req'd.
1	F814720	Swivel-Air Inlet	1	56	C077941	Plug-Pipe (3/8")	1
2	R075599	Nut-Air Swivel	1	57	F035373	Backhead(Incl: Index No. 50)	1
3	R000692	Grip-Handle	3	58	R009224	Plunger-Pawl	4
4	R000142	Washer-Bolt Key	3	65	R075598	Rod-Air	1
5	C106884	O'Ring (-019)	1	67	R075584	Bolt-Handle	1
6	R000694	Liner-Handle	3	80	R075583	Case-Valve	1
7	R005584	Screen-Air Inlet	1	81	R075581	Valve	1
8	R005744	Sleeve-Air Inlet	1	85	R075582	Bushing-Valve Guide	1
9	R005742	Nut-Elastic Stop	1	90	R000617	Pawl	4
24	R075588	Valve-Throttle	1	91	R075585	Ring-Ratchet	1
25	R075590	Plunger-Throttle Handle	1	93	R000619	Spring-Pawl Plunger	4
26	P089767	Pin-Throttle Valve (3/32" x 5/16")	1	100	R075586	Bar-Rifle	1
27	R000528	Spring-Throttle Valve	1	101	R075587	Nut-Rifle Bar	1
28	R075589	Handle-Throttle Valve (Incl: Index No. 29)	1	103	R000037	Piston	1
29	R075592	Key-Throttle Handle	1	109	R075596	Chuck (7/8 Hex. x 3-1/4)	1
30	R075593	Nut-Elastic Stop (1/2"-20)	1	111	R075597	Nut-Chuck Rotation	1
47	R075577	Cylinder	1	120	R075645	Fronthead (7/8 Hex.)	1
49	R075578	Bushing-Cylinder	1	124	R075601	Bolt-Thru	2
50	R075580	Washer-Backhead	1	125	R085164	Nut-Through Bolt	2
				130	R075646	Retainer (7/8" Hex.)	1

GENERAL INSTRUCTIONS

The modern Rock Drill is a high speed machine with a number of close-fitting, precision made parts, but is subject to a terrific amount of punishment. Therefore, it is highly important that your drill receive reasonable care, adequate lubrication at all times and regular inspections.

WARNING: "PROLONGED USE OF VIBRATING TOOLS BY CERTAIN USERS MAY BE HARMFUL TO HANDS AND ARMS."

Always wear approved safety footwear and eye protection to avoid personal injury.

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

Lubrication

As it comes from the factory, the inside of the tool is coated with heavy, rust inhibiting oil. After unpacking, pour a small amount of kerosene into air connection and operate tool on partial throttle to clean interior. Follow immediately with a liberal amount of light, rock drill oil. During operation the use of a one pint line oiler R051776 is recommended.

During operation keep oiler filled - a one pint oiler holds an average four hour supply, but if a high rate of feed is required by oil characteristics or the air consumption of the tool, more frequent filling will be necessary. At least twice a shift remove oil plug (56) and fill reservoir with recommended oil.

When properly lubricated, a mist of oil, enough to be visible on the bare hand, will be present in the exhaust air. A slight film of oil should be visible on the drill steel.

Proper lubrication is important. A few minutes operation without oil will wear out the rifle bar, rifle bar nut, chuck rotation nut and the pawls and will severely score the cylinder, cylinder bushing, valve and fronthead.

Recommended Lubricants

The use of synthetic oils is NOT RECOMMENDED due to possible damage to seals, "O" rings, hoses, blades and polycarbonate oiler/filter bowls.

Manufacturer	Below 40°F	40°F to 90°F	Above 90°F
CP	C139180		
Esso	Aroclor EP45	Aroclor EP65	
Mobiloil	Almac 525	Almac 527	Almac 532
Tesaco	Regal Oil 8 (R & O)	Regal Oil PE (R & O)	Regal Oil F (R & O)
Dalton	Silcolene 773	Silcolene 848/T	Silcolene 881
Shell	Tonna R27	Tonna R41	Tonna R72
Burmah Castrol	Magna SPX	Castrol RD Oil Light	Castrol RD Oil 3
BP Power Petroleum	RD90	RD150	RD220
	HP10-C	HP20-C	HP60-C
Duckham	Zero Flo 5	Garnet 8	Garnet 7
Sternol	Martin 54	Martin 71	Martin 87
Paroline	Purifac 32	Purifac 48	Purifac 63
Chevron	Vitac Oil 9X	Vitac Oil 19X	Vitac Oil 18X
Caltex	Caltex XL	Caltex XM	Caltex XM

Preparing for Operation

WARNING: "ALWAYS CHECK FOR DAMAGED OR LOOSE HOSES AND FITTINGS BEFORE OPERATION. WHIPPING HOSES CAN CAUSE SERIOUS INJURY."

Daily before placing drill in service blow out the air line to clear it of accumulated dirt and moisture. Check tool and make sure the air and water inlets and the exhaust ports are free from obstruction. Be sure the air strainer is clean and not torn or distorted.

Pour about one ounce of Rock Drill oil directly into the air inlet of the tool before connecting air hose to the tool. (C139190 1 gal. can)

Inspect drill steel shanks and make sure they are the correct size and length for the chuck used. Shanks which are chipped, rounded, out of square or too hard on the striking end will operate inefficiently and cause premature piston failure.

Inspect bits: Dull bits will slow down drilling speed and overstrain the drill mechanism. When changing bits be sure new bit is of the correct gauge to follow the previous bore.

Be sure compressor delivers between 80 and 90 psi air pressure at the tool. High pressure will cause rough operation and excessive breakage. Low pressure results in slow drilling speed.

Always hold the drill down to its work with the machine in line with the drill steel to ease the rotational load.

Never continue to drill with a plugged drill steel.

Maintenance

A drill in constant use should be dismantled, cleaned and inspected at least weekly. Worn parts should be replaced to maintain drilling efficiency and avoid high upkeep costs.

Check the condition of the chuck, worn, bell mouthed chucks hold the steel out of line which spalls or fractures the striking end of the piston.

The splines of the rotation parts, rifle bars, rifle bar nuts and chuck rotation nuts, should be inspected for excessive wear. Too much play in the parts results in lost rotational force. Worn pawls, worn ratchet rings and broken or weak pawl springs should be replaced.

Reface spalled or cupped pistons to avoid uneven force on drill steel and eventual fracture of the piston.

With adequate lubrication the cylinder bushing is a long lived part. If worn, however, it should be replaced to preserve the front cushion and avoid breakage of piston and fronthead parts.

Be sure that valve parts work freely and are clean and free from grit. Be careful in disassembling and assembling valve to avoid burring or scoring faces.

When assembling tool, draw up thru bolts evenly and tightly. Rotate chuck by hand to make sure that chuck does not bind in fronthead.

When ordering spare parts, give Name, Speed or Size, Model and Serial Number of the tool and Part Number and Description of each part desired.

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