

Operator's Manual



CP7830Q & CP7830HQ **3/8" & 1/2" Ratchet Wrench**



⚠ WARNING

To reduce risk of injury, everyone using, installing, repairing, maintaining, changing accessories on, or working near this tool must read and understand these instructions before performing any such task.

CP7830Q & CP7830HQ

3/8" & 1/2" Ratchet Wrench

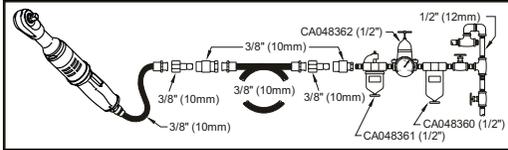
INSTRUCTION MANUAL

Machine Type:

This product is designed for installing and removing threaded fasteners in wood, metal and plastic. No other use permitted. For professional use only.

Air Supply Requirements

1. Supply tool with 90 psig (6.2 bar) of clean, dry air. Higher pressure drastically reduces tool life.
2. Connect tool to air line using pipe, hose and fitting sizes shown in the diagram below.



Lubrication

1. Use an air line lubricator with SAE #10 oil, adjusted to two (2) drops per minute. If an air line lubricator cannot be used, add air motor oil to the inlet once a day.
2. Monthly, lubricate the drive bushing and ratchet yoke with a good grade bearing grease. Periodically, depending upon use, the ratchet head assembly should be removed, cleaned and re-greased.

Reducing sound level by rotation of exhaust deflector

The tool is packaged with the exhaust air slots aligned with the trigger and square drive. Rotating the exhaust deflector will further reduce noise levels, with the lowest noise levels at approximately 180° from the as-shipped position.

Maintenance

1. Tool should be oiled on a daily basis for best performance. Every 3 to 6 months the tool's head should be greased using approved CP Gear Grease. If the tool loses performance over time, tool should be sent to a CP Certified Service Center to be checked and repaired as needed.
2. High wear parts are underlined in the parts list.
3. To keep downtime to a minimum, the following service kits are recommended:
Tune-Up Kit: see part list 8940169404

Technical Data

Free speed; 190 RPM

Original Instructions

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All rights reserved. Any unauthorized use or copying of the contents or part thereof is prohibited. This applies in particular to trademarks, model denominations, part numbers and drawings. Use only authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability.

Noise & Vibration Declaration

Sound pressure level 85 dB(A), uncertainty 3 dB(A), in accordance with EN ISO 15744. For sound power, add 11 dB(A).

Vibration value:

4.1 m/s², uncertainty k = 1.4 m/s², re. ISO 28927-2.

Declaration of noise and vibration emission

All values are current as of the date of this publication.

These declared values were obtained by laboratory type

testing in accordance with the stated standards and are suitable for comparison with the declared values of other tools

tested in accordance with the same standards. These

declared values are not adequate for use in risk assessments and values measured in individual work places may be higher.

The actual exposure values and risk of harm experienced by

an individual user are unique and depend upon the way the user works, the workpiece and the workstation design, as well

upon the exposure time and the physical condition of the user.

We, Chicago Pneumatic, cannot be held liable for the

consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment

in a work place situation over which we have no control.

This tool may cause hand-arm vibration syndrome if its

use is not adequately managed.

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We recommend a programme of health surveillance to detect early symptoms which may relate to noise or vibration exposure, so that management procedures can be modified to help prevent future impairment.

SAFETY INSTRUCTIONS

DO NOT DISCARD - GIVE TO USER

- Our goal is to produce tools that help you work safely and efficiently. The most important safety device for this or any tool is YOU. Your care and good judgment are the best protection against injury. All possible hazards cannot be covered here, but we have tried to highlight some of the important ones.
- Only qualified and trained operators should install, adjust or use this power tool.
- This tool and its accessories must not be modified in any way.
- Do not use this tool if it has been damaged.
- If the rated speed, operating pressure or hazard warning signs on the tool cease to be legible or become detached, replace without delay.

⚠ Air Supply And Connection Hazards

- Air under pressure can cause severe injury.
- Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repair.
- Never direct air at yourself or anyone else
- Whipping hoses can cause serious injury. Always check for damaged or loose hoses and fittings.
- Do not use quick disconnect couplings at tool. See instructions for correct setup.
- Whenever universal twist couplings are used, lock pins must be installed.
- Do not exceed maximum air pressure of 90 psi/6.3 bar or as stated on tool nameplate.

⚠ Entanglement Hazards

- Keep away from rotating drive. Choking, scalping and / or lacerations can occur if loose clothing, gloves, jewellery, neck ware and hair are not kept away from tool and accessories.
- Gloves can become entangled with the rotating drive, causing severed or broken fingers.
- Rotating drive sockets and drive extensions can easily entangle rubber-coated or metal reinforced gloves.
- Do not wear loose-fitting gloves or gloves with cut or frayed fingers.
- Never hold the drive, socket or drive extension.

⚠ Projectile Hazards

- Always wear impact-resistant eye and face protection when involved with or near the operation, repair or maintenance of the tool or changing accessories on the tool.
- Be sure all others in the area are wearing impact-resistant eye and face protection. Even small projectiles can injure eyes and cause blindness.
- Serious injury can result from over-torqued or under-torqued fasteners, which can break, or loosen and separate. Released assemblies can become projectiles. Assemblies requiring a specific torque must be checked using a torque meter.

Note: So-called "click" torque wrenches do not check for potentially dangerous over-torque conditions.

- Use only impact wrench sockets and accessories in good condition. Sockets in poor condition or hand sockets and accessories used with impact wrenches can shatter.
- Never operate the tool off of the work. It may run too fast and cause the accessory to be thrown off the tool.
- Ensure that the workpiece is securely fixed.

⚠ Accessory hazards

- Use only proper accessory retainers (see parts list). Use deep sockets wherever possible.
- For tools using the pin and O-ring socket retention system, use the O-ring to retain the socket pin securely.
- Always use the simplest hook-up possible. Long, springy extension bars and adapters absorb impact power and could break. Use deep sockets wherever possible.

⚠ Operating hazards

- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
- Hold the tool correctly; be ready to counteract normal or sudden movements – have both hands available.
- Do not use with reduced air pressure or in a worn condition: the clutch may not operate, resulting in sudden rotation of the tool handle.
- Be in control of the throttle at all times. Do not get caught between the tool and the work.

⚠ Repetitive motion hazards

- When using a power tool to perform work-related activities, the operator might experience discomfort in the hands, arms, shoulders, neck, or other parts of the body.
- Adopt a comfortable posture whilst maintaining secure footing and avoiding awkward or offbalance postures. Changing posture during extended tasks can help avoid discomfort and fatigue.
- Do not ignore symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation, or stiffness. Stop using the tool, tell your employer and consult a physician.

⚠ Noise and Vibration hazards

- High sound levels can cause permanent hearing loss and other problems such as tinnitus. Use hearing protection as recommended by your employer or occupational health and safety regulations.
- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms. Wear warm clothing and keep your hands warm and dry. If numbness, tingling, pain or whitening of the skin occurs, stop using tool, tell your employer and consult a physician.
- Hold the tool in a light but safe grip because the risk from vibration is generally greater when the grip force is higher. Where possible use a suspension arm or fit a side handle.
- To prevent unnecessary increases in noise and vibration levels:
 - Operate and maintain the tool, and select, maintain and replace the accessories and consumables, in accordance with this instruction manual;
 - Do not use worn or ill-fitting screwdriver bits, sockets or extensions.
 - Do not touch sockets or accessories during impacting.

⚠ Workplace Hazards

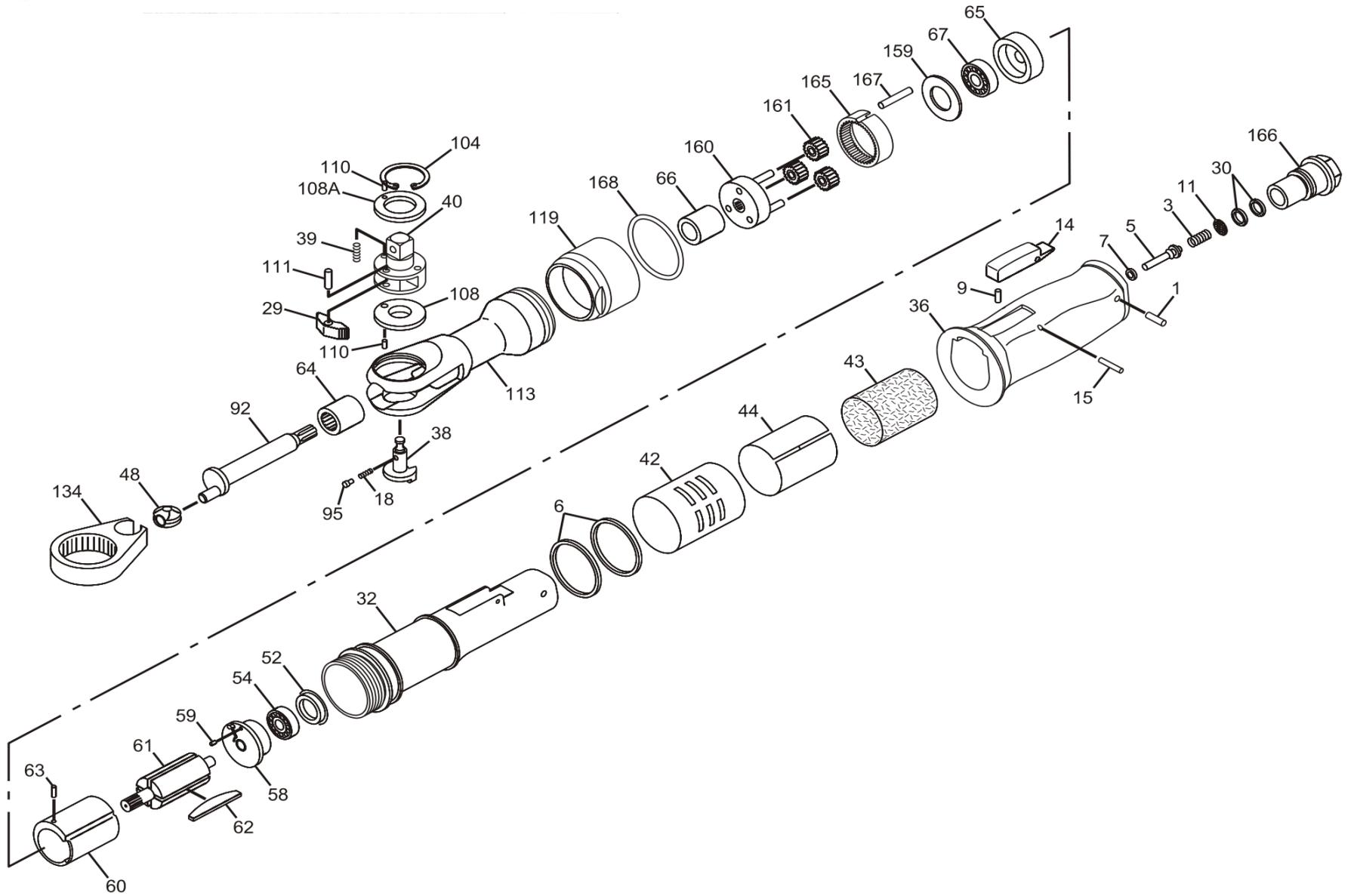
- Slip/Trip/Fall is a major cause of serious injury or death. Be aware of excess hose left on the walking or work surface.
- Avoid inhaling dust or fumes or handling debris from the work process which can be harmful to your health (for example, cancer, birth defects, asthma and/or dermatitis). Use dust extraction and wear respiratory

protective equipment when working with materials which produce airborne particles.

- Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead based paints
 - Crystalline silica bricks and cement and other masonry products
 - And Arsenic and chromium from chemically- treated rubber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

- Proceed with care in unfamiliar surroundings. Be aware of potential hazards created by your work activity. This tool is not insulated for coming into contact with electric power sources.
- This tool is not recommended for use in explosive atmospheres.



Index No.	Part No.	Description	No. Req'd	Index No.	Part No.	Description	NO. Req'd
1	P001631	Pin-Dowel	1	64	KF124500	Bearing-Needle	1
3	CA148523	Spring-Throttle	1	65	CA147980	Plate-Front End	1
5	CA142460	Valve-Throttle	1	66	KF134167	Bearing-Plain	1
6	CA147994	O-Ring	2	67	C087834	Bearing-Ball	1
7	C139037	Seat-Throttle	1	92	KF134165	Shaft-Crank	1
9	S014764	Pin-Dowel	1	95	KF124418	Pin-Lock	1
11	CA059037	Strainer-Air	1	104	C089956	Ring-Internal Retaining	1
14	CA147983	Lever-Throttle	1	108	8940158566	Washer-Thrust (CP7830Q)	2
15	KF137213	Pin-Roll	1			Washer-Thrust (CP7830HQ)	1
18	KF124395	Spring-Ratchet	1	108A	8940158617	Washer-Thrust (CP7830HQ)	1
29	KF124397	Pawl-Ratchet	1	110	KF140185	Pin-Dowel	2
30	C105693	O-Ring-017	2	111	KF124425	Pin-Dowel	2
32	8940158541	Housing-Motor	1	113	8940158534	Housing-Ratchet (Incl.: Index Nos. 64 & 66)	1
36	8940158542	Cover-Housing	1	119	8940158545	Coupling Nut	1
38	CA147984	Button-Reverse	1	134	KF124428	Yoke-Ratchet	1
39	CA154958	Spring-Friction	3	159	KF124429	Washer	1
40	CA154957	Shank-Ratchet (CP7830Q)	1	160	KF134168	Spindle-Idler	1
	CA155094	Shank-Ratchet (CP7830HQ)	1	161	KF134170	Gear-Idler	3
42	8940161578	Deflector-Exhaust (CP7830Q)	1	165	8940158543	Housing-Spindle	1
	8940158558	Deflector-Exhaust (CP7830HQ)	1	166	CA147022	Bushing-Air Inlet	1
43	8940161580	Foam Exhaust Sleeve	1	167	8940158544	Pin-Alignment	1
44	8940161587	Screen-Exhaust	1	168	8940158565	Coupling Nut Retainer	1
48	KF124404	Bushing-Drive	1		CA144813	Decal-Safety Warning (not shown)	1
52	CA147982	Cap-Bearing	1		CA147993	Cover-Ratchet Head (not shown)	1
54	S025101	Bearing-Ball	1		CA131376	Decal-Oil Daily	1
58	CA147979	Plate-Rear End	1		C146211	Label-Pending	1
59	KF124410	Pin-Roll	1				
60	CA147976	Liner	1				
61	CA147977	Rotor	1				
62	CA148012	Set-Rotor Blade (4)	1				
63	CA147995	Pin-Roll	1				
						TUNE UP KIT	
					8940158552	Incl: Index Nos 3, 6, 18, 30, 39, 43, 52, 62, 95, & 104	
						HEADSET REPLACEMENT KIT (CP7830Q)	
					8940158613	Incl: Index Nos 18, 29, 38, 39, 40, 95, 104, 108 & 111	
						HEADSET REPLACEMENT KIT (CP7830HQ)	
					8940158614	Incl: Index Nos 18, 29, 38, 39, 40, 95, 104, 108, 108A & 111	
	8940161586	OPERATOR'S MANUAL					
	8940169407	CE DECLARATION OF CONFORMITY					
	6159948710	SAFETY INSTRUCTIONS					

Spare parts without part number are not sold separately