

# Operator's Manual



## **CP797 Series Impact Wrench**

1" Sq. Dr. Std. Model "K"



### **⚠ 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.*

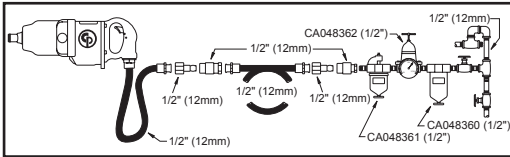


## INSTRUCTION MANUAL

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 (6.3 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. Check clutch oil once each month. Use 6 oz. (177ml) of SAE #30 oil or equivalent.

### Operation

1. The intended use of this impact wrench is with impact rated sockets operating upon threaded fasteners. To operate, pull trigger on handle. To operate in forward rotation, turn reverse valve toward forward arrow position. To operate in reverse, turn valve toward reverse arrow position.
2. This impact wrench is equipped with a regulator to enable adjustment of output power.

### Maintenance

1. After first year, disassemble and inspect air motor and impacting clutch every three (3) months if the tool is used every day. Replace damaged or worn parts.
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

CA131501 (Incl: 7, 24, 41, 55, 62, 68, 106, 107, 110, 111, 115, 118)

#### Clutch Housing Kit

CA144478 (Incl: 92, 113, 118)

## EC DECLARATION OF CONFORMITY

We, Chicago Pneumatic Tool Co, declare under our sole responsibility that the product to which this declaration relates, is in conformity with the requirements of the Council Directive of June 1998 on the approximation of the laws of the Member States relating to machinery (98/37/CE).

**Machine Name** CP797 Impact Wrench

**Machine Type** Assembly Power Tool for Threaded Fasteners - No other use is permitted.

**Serial No.** Tools with No. 2009000P or higher

### Technical Data

1" (25mm) Sq. Dr. Std.

Air pressure 90 psi (6.3 bar)

Air consumption 283 l/min (10 cfm)

Max. torque: 1898 Nm (1400 ft. lbs.)

Torque range: 203-1220 Nm (150-900 ft. lbs.)

**Harmonized Standards** Applied EN792-6

**National Standards** Applied ISO 8662-7, ISO 15744-2002

**Name and Position of Issuer** Bruno Blanchet, General Manager

**Signature of Issuer** \_\_\_\_\_

**Date of Issue** March 15, 2009

### Noise & Vibration Declaration\*

Sound pressure level 110 dB(A) impacting, uncertainty 3 dB(A), in accordance with ISO

15744-2002. For sound power, add 11 dB(A).

Vibration value 7.6 m/s<sup>2</sup>, re. ISO 8662-7.

For making estimates of daily vibration exposures, useful information may be found in CEN/TR 15350: 2006, "Mechanical vibration - Guideline for the assessment of exposure to hand-transmitted vibration using available information including that provided by manufacturers of machinery"

\*These declared values were obtained by laboratory type testing in compliance with the stated standards and are not adequate for use in risk assessments. Values measured in individual work places may be higher than the declared values. 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 as 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.



## **⚠ 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.**

*The goal of Chicago Pneumatic Tool Co. LLC 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.*

### **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 repairs.
- ⚠ 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.
- ⚠ Do not wear jewelry or loose clothing.
- ⚠ Scalping can occur if hair is not kept away from the tool and accessories.
- ⚠ Choking can occur if neckwear is not kept away from the tool and accessories.
- ⚠ Avoid direct contact with accessories during and after use. Gloves will reduce the risk of cuts or burns.
- ⚠ Use only proper accessory retainers (see parts list).

### **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.
- ⚠ 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.
- ⚠ Always use the simplest hook-up possible. Long, springy extension bars and adapters absorb impact power and could break. Use deep sockets wherever possible.
- ⚠ Never operate the tool off of the work. It may run too fast and

cause the accessory to be thrown off the tool.

- ⚠ 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.

### **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.
- ⚠ Maintain a balanced body position and secure footing.
- ⚠ High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or OSHA regulation (see 29 CFR part 1910).
- ⚠ Be in control of the throttle at all times. Do not get caught between the tool and the work.
- ⚠ Repetitive work motions, awkward positions and exposure to vibration can be harmful to hands and arms. If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.
- ⚠ Avoid inhaling dust or handling debris from the work process which can be harmful to your health. Use dust extraction and wear respiratory protective equipment when working with materials which produce airborne 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.
- ⚠ 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.

### **Additional Safety Topics**

- ⚠ This tool and its accessories must not be modified.
- ⚠ This tool is not recommended for use in explosive atmospheres.
- ⚠ Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
- ⚠ For professional use only.

# **SAFETY INSTRUCTIONS**

## **DO NOT DISCARD - GIVE TO USER**

# 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
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- 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.

- (4) declare that the product(s): **PNEUMATIC IMPACT WRENCH**
- (5) Machine type(s) :

**Chicago Pneumatic brand**

**CP721, CP7735, CP7735Q, CP7735H, CP7735HQ, CP734H,  
CP734HKM, CP734HK, CP772H, CP772HK, CP772HKM, CP772H-6,  
CP797, CP797-6, CP797SP-6, CP7774, CP7774-6, CP7775, CP7775-6,  
CP7775SP-6, CP7778, CP7778-6, CP7778SP-6, CP7750, CP7750-2.  
RP9521, RP9540-B, RP9560**

**RediPower brand**

**RP9521, RP9540-B, RP9560**

**Serial # : See on tool doc.**

- (6) Origin of the product : Japan
- (7) is in conformity with the requirements of the council Directives on the approximation of the laws of the Member States relating :
- (8) to "**Machinery**" 2006/42/EC (17/05/2006)
- (11) applicable harmonised standard(s) : EN ISO11148-6:2012
- (12) NAME and POSITION of issuer :
- Nicolas LEBRETON  
(R&D Manager)**
- (13) Place & Date : Saint-Herblain, **20 May 2013**



Impact wrench	Part n°	ISO 28927-2 (3 axis)		ISO 8662-7 (1 axis)	ISO 15744	
		$a_{hd}$ m/s <sup>2</sup>	<b>K</b> m/s <sup>2</sup>	$a_n$ m/s <sup>2</sup>	$L_{pA}$ dB(A)	$L_{WA}$ dB(A)
Models						
CP719 CP719Q	T025366 T025367	2.7	1.3	<2.5	98	109
CP721	T021963	4.7	3.3	4.9	87	98
CP724H	T025113	3.4	1.7	<2.5	93	104
CP726H	T025114	3.1	1.6	<2.5	93	104
CP7735 CP7735Q CP7735H CP7735HQ	8941077350 8941077351 8941077352 8941077353	4.9	1.6	3.9	96	107
CP734H CP734HK, CP734HKM	T024351	7.2	3.3	3.4	93	104
CP772H, CP772HK, CP772HKM CP772H-6	T024598 T024757	6.1	2.3	4.9	96	107
CP796	T019799	18.2	3.8	13.0	101	111
CP897 CP897-6	T025379 T025368	12.1	4.1	7.5	101	111
CP797 CP797-6 CP797SP-6	T019139 T013901 T018653	12.8	4.3	7.6	110	121
CP7778	8941077780	11.2	3.5	9.1	106	117
CP7778-6 CP7778SP-6	8941077786 8941077781	10,1	2,9	9,1	106	117
CP7774 CP7774-6	8941077740 8941077746	13,7	4,9	8,7	100,9	111,9
CP7775 CP7775-6 CP7775SP-6	8941077750 8941077756 8941077751	14,9	8,2	9,1	96	107
CP5000	T024585	8.5	2.6	8.9	103	113
CP7750 CP7750-2	89401077520 89401077522	6,5	1,9	4,4	100	111
RP9521	6151909521	4.7	3.3	4.9	87	98
RP9540-B	6151902540	7.2	3.3	3.4	93	104
RP9560	6151909560	6.1	2.3	4.9	96	107

$a_{hd}, a_n$ : Vibration levels

$L_{pA}$  Sound pressure level

$K_{pA} = K_{WA} = 3dB$  Uncertainty