

**INSTRUCTION MANUAL**

**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 on page 12.
3. Do not install a quick coupler directly into the grinder throttle handle.
4. Minimum compressor requirement: 3hp (2238 w), 60 gal. air tank.

**Lubrication**

Use an air line lubricator with SAE #10 oil, adjusted to two drops per minute. If an air line lubricator cannot be used, add air motor oil to the inlet once a day.

**Noise & Vibration Declaration\***

Sound pressure level 101 dB(A), re. EN ISO 15744. For sound power, add 10 dB(A).  
Vibration value < 2.5 m/s<sup>2</sup>, re. ISO 8662-13.

**Maintenance**

1. Disassemble and inspect air motor every three months if the tool is used every day. Replace damaged or worn parts.
2. High wear parts are underlined in the parts list.

\*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 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.

**For Additional Safety Information Consult:**

- ▲ Your employer, union and/or trade association.
- ▲ US Department of Labor (OSHA); [www.osha.gov](http://www.osha.gov); Council of the European Communities [europe.osha.eu.int](http://europe.osha.eu.int)
- ▲ "Safety Requirements for the Use, Care and Protection of Abrasive Wheels" (ANSI B7.1) and "Safety Code for Portable Air Tools" (ANSI B186.1) available from: [www.ansi.org](http://www.ansi.org)
- ▲ "Safety Requirements for Hand-Held Non-Electric Power Tools" available from: European Committee for Standardization, [www.cenorm.be](http://www.cenorm.be)

**Air Supply And Connection Hazards**

- ▲ Never direct air at yourself or anyone else. 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.
- ▲ 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/6.2 bar or as stated on tool nameplate.

**Entanglement Hazards**

- ▲ Keep away from rotating spindle and accessory.
- ▲ Do not wear jewelry or loose clothing.
- ▲ Scalping can occur if hair is not kept away from tool and accessories.
- ▲ Choking can occur if neckwear is not kept away from tool and accessories.

**Operating Hazards**

- ▲ Never mount a grinding wheel, cut off wheel or router cutter on a die grinder or tire buffer. A grinding wheel or other accessory that bursts can cause very serious injury or death.
- ▲ Grinding accessory's rated speed must be equal to or greater than the speed of the die grinder.
- ▲ Use only mounted wheels or tire buffing accessories with adequate speed rating and the correct shaft diameter.
- ▲ Do not use wire brushes, drill bits, or any other accessory other than mounted wheels, burrs and tire buffing accessories.
- ▲ Damaged, worn or incorrectly mounted accessories can cause higher vibration. To reduce exposures to vibration ensure burring tools are sharp and this tool and all accessories are in proper working condition.

**CP872 Die Grinder**

Model "A" & "B"  
CA144911 Rev. H

**EC DECLARATION OF CONFORMITY**

We, Chicago Pneumatic Tool Company, 1800 Overview Road, Rock Hill, SC 29730 USA, 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 1989 on the approximation of the laws of the Member States relating to machinery (89/392/EEC).

**Machine Name** CP872 Die Grinder

**Machine Type** Power tool equipped with 1/4 in. or 6 mm collet chuck for use with various burrs for polishing and grinding - No other use is permitted

**Serial No.** Tools with No. 94001A, 98001B or higher

**Technical Data**

1/4 in. or 6 mm collet


Free speed 22,000 RPM

Air pressure 90 psi (6.2 bar)

**Harmonized Standards Applied** EN792-9

**National Standards Applied** ISO 8662-13, EN ISO 15744

**Name and Position of Issuer** Stéphane Rakotoarivelo, General Manager, CP TechnoCenter, Saint Herblain, France

**Signature of Issuer** 

**Place and Date of Issue** 44818 Saint Herblain, FRANCE, February 6, 2007

**MANUFACTURER'S LIMITED WARRANTY**

Limited Warranty: The "Products" of the Chicago Pneumatic Tool Company ("CP") are warranted to be free from defects in material and workmanship for one year from the date of purchase. This Warranty applies only to Products purchased new from CP or its authorized dealers. Of course, this Warranty does not apply to products which have been abused, misused, modified, or repaired by someone other than CP or its Authorized Service Representatives. If a CP Product proves defective in material or workmanship within one year after purchase, return it to any CP Factory Service Center or Authorized Service Center for CP tools, transportation prepaid, enclosing your name and address, adequate proof of date of purchase, and a short description of the defect. CP will, at its option, repair or replace defective Products free of charge. Repairs or replacements are warranted as described above for the remainder of the original warranty period. CP's sole liability and your exclusive remedy under this Warranty is limited to repair or replacement of the defective Product. **(There Are No Other Warranties Expressed Or Implied And CP Shall Not Be Liable For Incidental, Consequential, Or Special Damages, Or Any Other Damages, Costs Or Expenses Excepting Only The Cost Or Expense Of Repair Or Replacement As Described Above.)**

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Use only authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability.

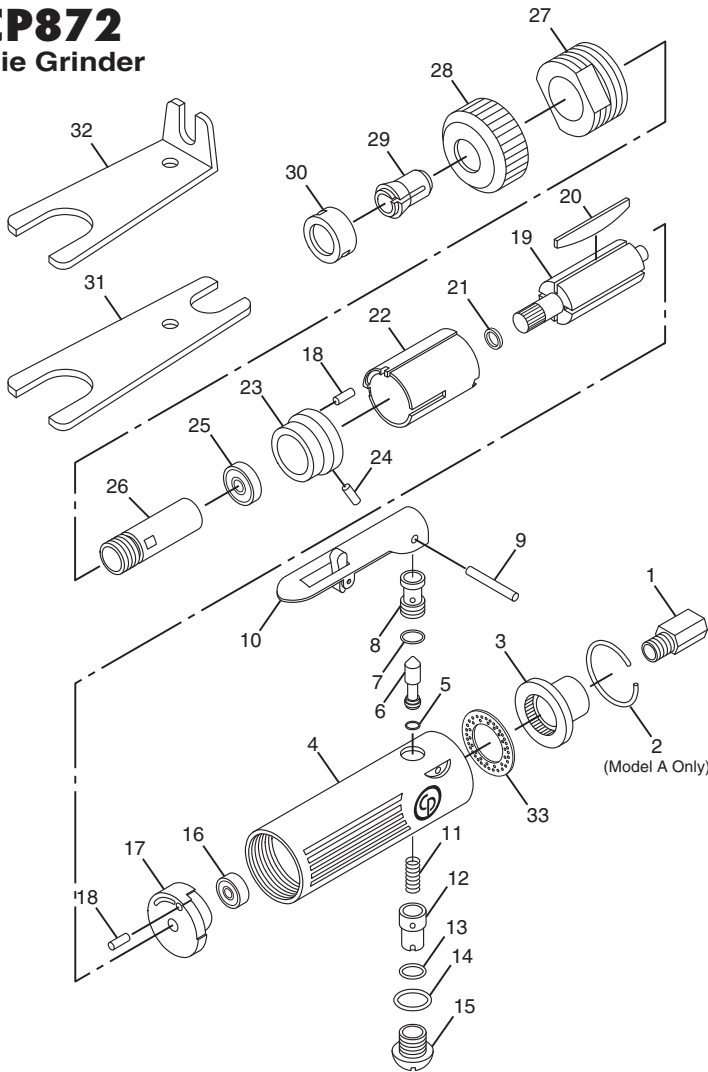
SAFETY INSTRUCTIONS

- ▲ Ensure that the workpiece is properly supported.
- ▲ Avoid direct contact with rotating spindle and accessory to prevent cutting of hands or other body parts. Wear gloves to help protect hands. Tool continues to run after the throttle lever has been released.
- ▲ Do not disable the lock off feature on the throttle lever.
- ▲ This tool and its accessories must not be modified.
- ▲ Operators and maintenance personnel must be physically able to handle the power of the tool and capable of performing the job task.
- ▲ 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. Gloves and protective clothing are recommended.
- ▲ Even small projectiles can injure eyes and cause blindness.
- ▲ Be sure all others in the area are wearing impact-resistant eye and face protection.
- ▲ Daily measure the air tool speed with a tachometer to make sure it is not greater than the RPM marked on the grinding accessory.
- ▲ Maximize the gripping length of the accessory, it must not be less than .390 in. (10mm). Increased overhang of a mounted wheel reduces its permitted speed - Refer to manufacturer's recommendations and (ANSI B7.1)

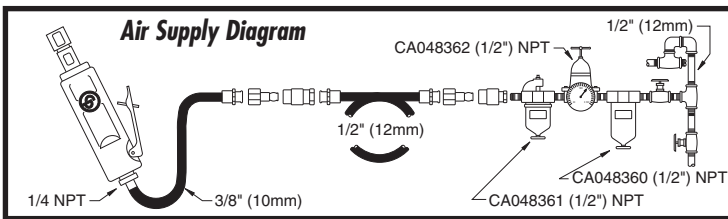
**Workplace Hazards**

- ▲ Slip/Trip/Fall is a major cause of serious injury or death. Be aware of excess hose left on the walking or work surface.
- ▲ High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or OSHA regulation (see 29 CFR part 1910).
- ▲ Maintain a balanced body position and secure footing.
- ▲ 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.
- ▲ This tool is not intended for use in explosive atmospheres and is not insulated for contact with electric power sources.
- ▲ Potentially explosive atmospheres can be caused by dust and fumes resulting from sanding or grinding. Use dust extraction or suppression system which are suitable for the material being processed.
- ▲ 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 based 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.
- ▲ For professional use only.

# CP872 Die Grinder



Index No.	Part No.	Description	No. Req'd.
1	CA144870	Bushing-Air Inlet (Model A)	1
	CA157739	Bushing-Air Inlet (Model B)	1
2	CA144871	Ring-Retaining (Model A Only)	1
3	CA144872	Deflector-Exhaust (Model A)	1
	CA157734	Deflector-Exhaust (Model B)	1
4	CA144873	Housing-Motor (Model A)	1
	CA157736	Housing-Motor (Model B)	1
5	CA144874	O-Ring	1
6	CA144875	Valve-Throttle	1
7	CA144876	O-Ring	1
8	CA144877	Bushing-Throttle Valve	1
9	CA144878	Pin-Roll	1
10	CA144879	Lever-Throttle	1
11	CA144880	Spring-Throttle Valve	1
12	CA144881	Regulator-Air	1
13	CA144882	O-Ring	1
14	CA144883	O-Ring	1
15	CA144884	Plug-Throttle Valve	1
16	CA144885	Bearing-Ball	1
17	CA144886	Plate-Rear End (Incl: Index No. 18)	1
18	CA144887	Pin-Roll	2
19	CA144888	Rotor	1
20	CA144889	Blade Set-Rotor (4)	1
21	CA144890	Collar-Rotor	1
22	CA144891	Liner	1
23	CA144892	Plate-Front End (Incl: Index Nos. 18 & 24)	1
24	CA144893	Pin-Roll	1
25	CA144894	Bearing-Ball	1
26	CA144905	Spindle	1
27	CA144896	Nut-Clamp	1
28	CA144897	Cap-Housing	1
29	C138727	Collet (1/4 in.)	1
	C139289	Collet (6 mm)	1
30	KF124525	Nut-Collet	1
31	CA144908	Wrench-Spindle	1
32	CA144909	Spanner-Angle	1
33	CA157735	Silencer (Model B)	1
	CA144813	Decal-Safety Warning (Not Shown)	1
	CA145448	Motor Assy. (Incl: Index Nos. 16, 17, 19, 20, 21, 22, 23, 25 & 26) (Not Shown)	1
	CA127175	Rear Exhaust Accessory Kit (Not Shown) (Model A)	1



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