

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 tool handle.

Lubrication

1. Motor - 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.
2. Gears - Use grease gun C098689 with Mobilux EP-2 or equal grease. Grease fitting is on side of angle head.

Noise & Vibration Declaration*

Sound pressure level 101.3 dB(A) in accordance with EN ISO 15744. For sound power, add 10 dB(A).
Vibration value 3.0 m/s², 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.

EC DECLARATION OF CONFORMITY

We, Chicago Pneumatic Tool Company, 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/EC).

Machine Name CP875 Mini-Angle Die Grinder / CP876 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 or higher

Technical Data

1/4 in. or 6 mm collet

Free speed 22,500 RPM (CP875), Free speed 30,000 RPM (CP876)


Air pressure 90 psi (6.2 bar)

Air consumption 22 cfm (CP875), Air consumption 24 cfm (CP876)

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 



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.

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.

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

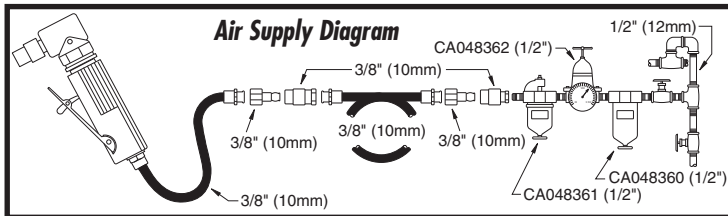
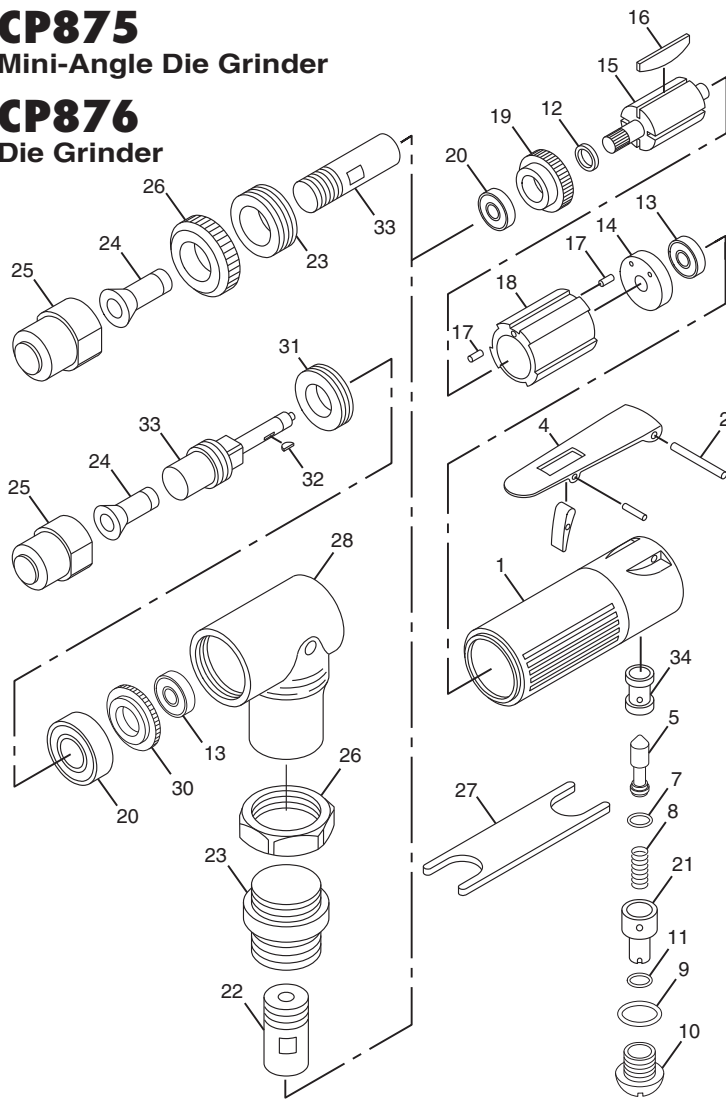
- ▲ Slip/Trip/Fall is a major cause of serious injury or death. Be aware of excess hose left on the walking or work surface.
 - ▲ High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or OSHA regulation (see 29 CFR part 1910).
 - ▲ Maintain a balanced 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 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.
- ▲ For professional use only.

CP875

Mini-Angle Die Grinder

CP876

Die Grinder



Index No.	Part No.	Description	No. Req'd.
1	CA144786	Housing-Motor (Incl: Index No.34)	1
2	CA144787	Pin-Throttle	1
4	CA144788	Lever-Throttle (Incl: Lockout)	1
5	CA144789	Valve-Throttle	1
7	CA144842	O-Ring (P4)	1
8	CA144790	Spring-Throttle Valve	1
9	CA144843	O-Ring (P10)	1
10	CA144791	Plug-Throttle Valve	1
11	CA144844	O-Ring (P7)	1
12	CA144792	Collar-Rotor	1
13	CA144793	Bearing-Ball (CP875)	2
	CA144793	Bearing-Ball (CP876)	1
14	CA144794	Plate-Rear End	1
15	CA144795	Rotor	1
16	CA144796	Blade Set-Rotor (4)	1
17	CA144797	Pin-Roll	2
18	CA144798	Liner	1
19	CA144799	Plate-Front End (CP875)	1
	CA144855	Plate-Front End (CP876)	1
20	CA144800	Bearing-Ball (CP875)	2
	CA144800	Bearing-Ball (CP876)	1
21	CA144801	Regulator-Air	1
22	CA144802	Pinion (CP875)	1
23	CA144803	Nut-Clamp (CP875)	1
	CA144856	Nut-Clamp (CP876)	1
24	C138727	Collet (1/4 in.)	1
	C139289	Collet (6 mm)	1
25	C138728	Nut-Collet	1
26	CA144806	Cap-Housing (CP875)	1
	CA144857	Cap-Housing (CP876)	1
27	CA144807	Wrench-Spanner	2
28	CA144808	Head-Housing. (Incl: Grease Fitting)	1
30	CA144809	Gear-Bevel (CP875)	1
31	CA144810	Ring-Lock (CP875)	1
32	CA144811	Key (CP875)	1
33	CA144812	Spindle (CP 875)	1
	CA144858	Spindle (CP 876)	1
34	CA147745	Bushing-Throttle Valve	1
35	CA144813	Decal Safety Warning (not shown)	1
	CA145217	Motor Assy. (Incl: Index Nos. 13, 14, 15, 16, 17, 18, 19, 20 & 22) (CP875)	1
	CA145315	Motor Assy. (Incl: Index Nos. 13, 14, 15, 16, 17, 18, 19, 20 & 33) (CP876)	1
	CA145218	Gear Housing Assy. (Incl: Index Nos. 13, 20, 28, 30, 31, 32, & 33) (CP875)	1
	CA145219	Housing Assy. (Incl: Index Nos. 1, 5, 7, 8, 9, 10, 11 & 21) (CP875, CP876)	1



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.



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 judgement 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 repairs.
- Never direct air at yourself or anyone else.
- Whipping hoses can cause severe injury. Always check for damaged or loose hoses and fittings.
- Do not use quick disconnect couplings at tool. See instructions for correct set up.
- Whenever universal twist couplings are used, lock pins must be installed.
- Do not exceed maximum air pressure of 6.3 bar / 90 psig, or as stated on tool nameplate.

Entanglement hazards

- Keep away from rotating drive spindle and abrasive. Rotation may continue for several seconds after the throttle has been released. Do not lay the tool down until rotation has stopped.
- Choking, scalping and / or lacerations can occur if loose clothing, gloves, jewellery, neck ware and hair are not kept away from tool and accessories.

Projectile hazards

- Failure of the accessory or abrasive, or of the workpiece, can generate high-velocity projectiles. Even small projectiles can injure eyes and cause blindness.
- 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
- Use barriers to protect others from wheel fragments and grinding sparks.
- Daily measure the air tool speed with a tachometer to make sure that it is not greater than the RPM marked on the grinding accessory.
- Ensure that the abrasive is securely clamped to the die grinder using the tools provided.

- Ensure that the workpiece is securely fixed.

Accessory hazards

- Always shut off air supply, relieve hose of air pressure and disconnect tool from air supply when changing accessories.
- Use only recommended sizes and types of accessories and consumables.
- Do not use mounted wheels which are chipped or cracked, or may have been dropped.
- Never mount a grinding wheel, cut-off wheel or router cutter on a die grinder. A grinding wheel that bursts can cause very serious injury or death.
- Never use an abrasive with a permitted speed lower than the air grinder speed.
- Correct mounting is necessary to prevent injury from broken mounted wheels.
- Ensure the shaft diameter of the accessory is correct for the size of collet.
- Maximise the gripping length of the accessory: it must not be less than 10mm (0.39 inch). Increased overhang of a mounted wheel reduces its permitted speed – refer to manufacturer's recommendations and ANSI B7.1.
- Before grinding, test mounted wheel by briefly running tool at full throttle. Be sure to use a barrier (such as under a heavy work table) to stop any possible broken wheel parts. Stop immediately if vibration is excessive.

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.
- You can be cut or burned if you come into contact with the accessory, grinding sparks or the work surface. Avoid contact and wear protective equipment such as gloves, apron and helmet.
- Do not use if vibration becomes excessive: check the accessory for damage or incorrect mounting.
- Ensure that sparks do not cause a hazard to people or materials.
- There is a risk of electrostatic discharge if used on plastic and other non-conductive materials.

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 off-balance 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 support

the weight of the tool with a balancer.

- 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;
 - Use damping materials to prevent workpieces from "ringing".

⚠ 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 cause ill 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
- 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. Hidden hazards may exist, such as electricity or other utility lines.
- Potentially explosive atmospheres can be caused by dust and fumes resulting from sanding or grinding. Always use dust extraction or suppression systems which are suitable for the material being processed.
- This tool is not intended for use in potentially explosive atmospheres and is not insulated from coming into contact with electric power.