

### 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 sander throttle handle.

#### 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 92.5 dB(A) in accordance with Pneurop 8N-1. For sound power, add 10 dB(A).  
Vibration value 5.7 m/s<sup>2</sup>, re. ISO 8662-1.

#### Maintenance

1. Disassemble and inspect air motor and orbital assembly 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.
3. To keep downtime to a minimum, the following service kit, detailed on page 12, is recommended: CA144954 Tune-Up Kit

\*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, 1800 Overview Drive, 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** CP870 Dual-Action Sander

**Machine Type** Power tool equipped with flexible disc fitted with abrasive paper for sanding - No other use is permitted.

**Serial No.** Tools with No. 94001A or higher

#### Technical Data

Pad diameter 6 in.  
Free speed 10,000 RPM  
Air pressure 90 psi (6.2 bar)  
Air consumption 4 cfm  
Spindle size 5/16 in. - 24

**Harmonized Standards Applied** EN292

**National Standards Applied** ISO 8662-1, Pneurop 8N-1

**Name and Position of Issuer** W. A. LeNeveu, President, Chicago Pneumatic Tool Company

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.

## SAFETY INSTRUCTIONS

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); Council of the European Communities europe.osha.eu.int.
- ▲ "Safety Code For Portable Air Tools" (B186.1).
- ▲ "Safety Requirement For Hand-Held Non-Electric Power Tools" available from: European Committee for Standardization.

### 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 set-up.
- ▲ 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 drive.
- ▲ Do not wear jewelry or loose clothing.
- ▲ Choking can occur if neckwear is not kept away from tool and accessories.
- ▲ Scalping can occur if hair is not kept away from 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). Use deep sockets wherever possible.

### 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 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.

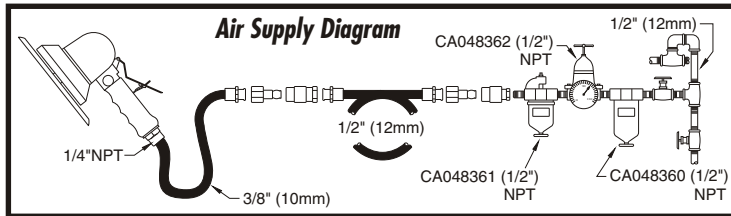
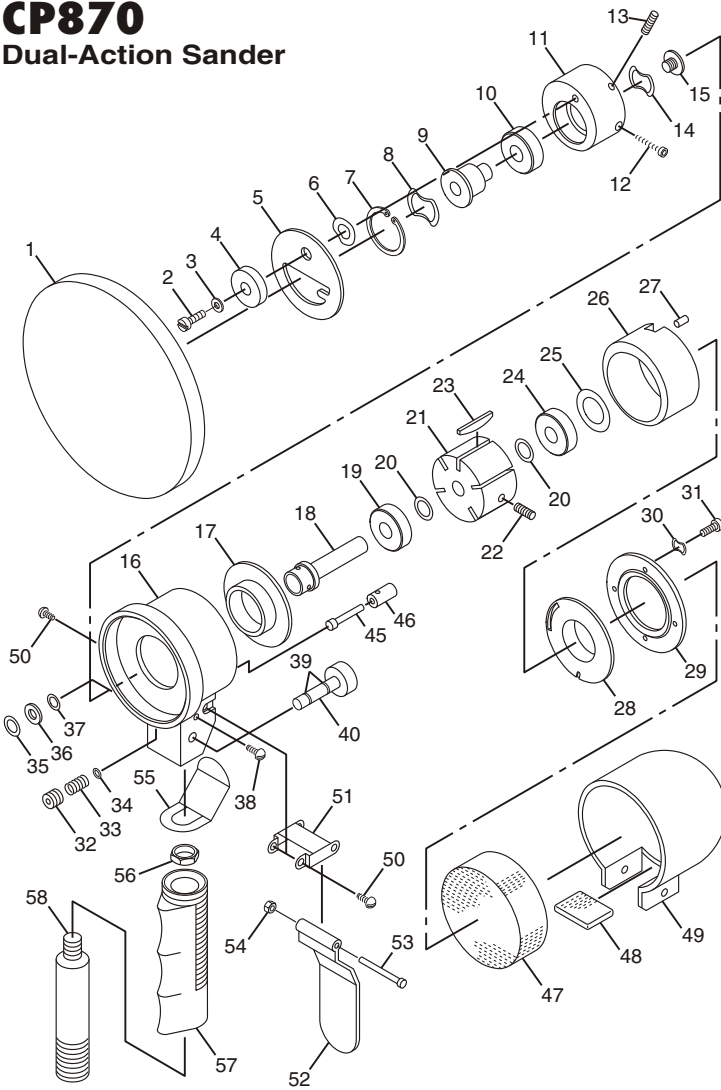
### Workplace Hazards

- ▲ Slip/Trip/Fall is a major cause of serious injury or death. Beware 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.
- ▲ 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 the 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.

# CP870 Dual-Action Sander



Index No.	Part No.	Description	No. Req'd.
1	CA145098	Pad-Sanding 6 in.	1
2	CA145099	Screw-Cap	1
3	CA145100	Washer	1
4	CA145101	Counterweight	1
5	CA145102	Plate-Drive	1
6	CA145103	Washer-Spring	1
7	CA145104	Ring-Retaining	1
8	CA145105	Washer-Spring	1
9	CA145106	Spindle Assembly (Incl: Index Nos. 8,10,14, & 15)	1
10	CA145107	Bearing-Ball	1
11	CA145108	Hub-Orbital (Incl: Index No. 13)	1
12	CA145109	Screw-Socket Head Cap	1
13	CA145110	Screw-Set	1
14	CA145111	Washer-Spring	1
15	CA145112	Screw-Spindle	1
16	CA145113	Housing-Motor (Incl: Index No. 46)	1
17	CA145114	Plate-Front End	1
18	CA145115	Shaft-Rotor	1
19	CA145116	Bearing-Ball	1
20	CA145117	Shim-Rotor	4
21	CA145118	Rotor (Incl: Index No. 22)	1
22	CA145119	Screw-Set	1
23	CA145120	Blade Set-Rotor	1
24	CA145121	Bearing-Ball	1
25	CA145122	Seal-Bearing	1
26	CA145123	Liner	1
27	CA145124	Dowel-Liner	1
28	CA145125	Plate-Rear End	1
29	CA145126	Plate-Exhaust Diffuser	1
30	CA145127	Washer-Spring	4
31	CA145128	Screw-Diffuser Plate Mounting	4
32	CA145129	Plug-Throttle Valve	1
33	CA145130	Spring-Throttle	1
34	CA145131	O-Ring	1
35	CA145132	Ring-Retaining	1
36	CA145133	Washer-Flat	1
37	CA145134	Washer-Rubber	1
38	CA145135	Screw	2
39	CA145136	O-Ring	2
40	CA145137	Valve-Regulator ( Incl: 2 of Item 39)	1
45	CA145142	Stem-Throttle Valve	1
46	CA145143	Bushing-Throttle Valve	1
47	CA145144	Foam-Muffler (Incl: Index No. 48)	1
48	CA145145	Foam-Muffler	1
49	CA145146	Cover-Motor Housing	1
50	CA145147	Screw	2
51	CA145148	Bracket-Throttle Lever	1
52	CA145149	Lever-Throttle	1
53	CA145150	Pin-Throttle Lever	1
54	CA145151	Nut	1
55	CA145152	Spring-Lever Return	1
56	CA145153	Nut-Locking	1
57	CA145154	Grip-Handle	1
58	CA145155	Handle	1

### Tune-Up Kit

CA144954 (Incl: Index Nos. 19, 20, 23, 24, 25, 33, 34, 39, 41 & 47)