



**Chicago
Pneumatic**

Operator's Manual

CP9105QB / CP9106QB / CP9108QB

CP9110QB / CP9111QB / CP9112QB

Die Grinder



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, as well as separately provided safety instructions part number 6159948750, before performing any such task.

Air Diagram:

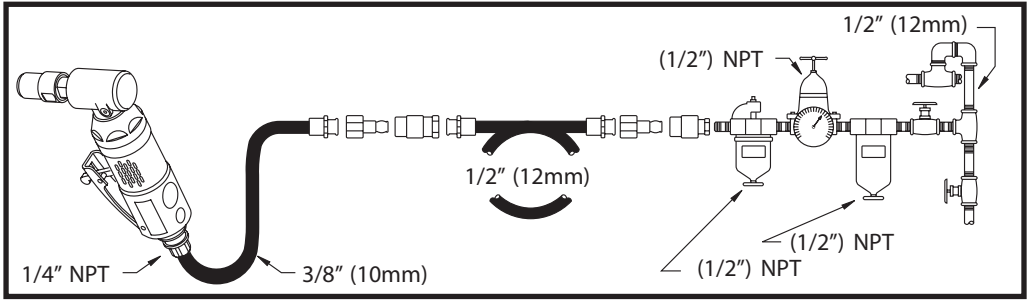


Fig. 1

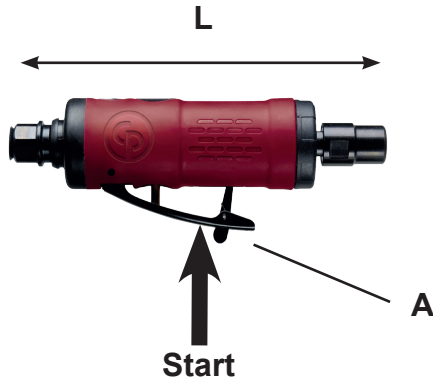


Fig. 2

Model	Speed	Power	Collet	Air consumption		Weight	Dimension L	Air Inlet.	Inner hose diameter	Sound Pressure	Sound Power	Vibrations									
				Free speed	at load							ahd	k								
				[RPM]	[HP] [W]							[inch] [mm]	[Nl/min] [SCFM]	[lb.] [kg]	[in.] [mm]	[in.]	[in.] [mm]	[dB(A)]	[dB(A)]	[m/s ²]	[m/s ²]
				1	2							3	4	5	6	7	8	9	10	11	12
CP9105QB	28,000	0.32	1/4"	558	311	0.8	6.3	1/4"	3/8"	80	91	3.6	2								
	240	6.35	19.7	8.7	0.4	160	10														
CP9106QB	23,000	0.32	1/4"	516	311	1.5	6.4	1/4"	3/8"	80	91	5.1	2.6								
	240	6.35	18.3	8.7	0.7	165	10														
CP9108QB	23,000	0.32	1/4"	516	311	1.1	7.9	1/4"	3/8"	80	91	5.1	1.6								
	240	6.35	18.3	8.7	0.5	200	10														
CP9110QB	27,000	0.32	1/4"	516	311	1.5	10.2	1/4"	3/8"	80	91	4.9	2.5								
	240	6.35	18.3	8.7	0.7	260	10														
CP9111QB	22,000	0.47	1/4"	600	311	1.5	6.3	1/4"	3/8"	80	91	3.7	1.6								
	350	6.35	23	8.7	0.7	160	10														
CP9112QB	22,000	0.47	1/4"	708	311	2.9	13.4	1/4"	3/8"	80	91	2.7	1.2								
	350	6.35	25	8.7	1.3	340	10														

1. Technical Data

Model	Speed	Power	Collet	Air Consumption		Weight	Dimension L	Air Inlet	Inner Hose Dia.	Sound pressure L_{pA}	Sound power L_{wA}	Vibrations	
				Free speed	at load							a_{hd}	K
	1	2	3	4	5	6	7	8	9	10	11	12	
	[RPM]	[Hp] [W]	[inch] [mm]	[l/min] [SCFM]	[kg] [lb]	[inch] [mm]	[inch]	[mm] [inch]	[dB(A)]	[dB(A)]	[m/s ²]	[m/s ²]	

max. pressure 6.3bar(90psi)

a_v : Vibration level, k Uncertainty ; L_{pA} Sound pressure dB(A), $K_{pA} = K_{wA} = 3$ dB Uncertainty.

Declaration of noise and vibration statement (ISO 15744 and ISO 28927-12)

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 TOOLS, 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.

2. Machine type(s)

- This product is designed for removing material using abrasives. No other use permitted. For professional use only.
- Please read the instructions carefully before starting the machine.

3. Operation

- Fix the accessories properly to the tool.
- Connect device as shown in Fig. 01.
- To start the machine, pull the trigger (A). Machine speed is increase by increasing pressure on the trigger. Release the trigger to stop.

4. 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.

5. Maintenance instruction

Follow local country environmental regulations for safe handling and disposal of all components.

- Maintenance and repair work must be carried out by qualified personnel using only original spare parts. Contact the manufacturer or your nearest authorised dealer for advice on technical service or if you require spare parts.
- Always ensure that the machine is disconnected from energy source to avoid accidental operation.
- Disassemble and inspect the tool every three 3 months if the tool is used every day. Replace damaged or worn parts.
- High wear parts are underlined in the parts list.
- To keep downtime to a minimum, the following service kits are recommended :

Tune-up kit : **see parts list**

6. Disposal

- The disposal of this equipment must follow the legislation of the respective country.
- All damaged, badly worn or improperly functioning devices MUST BE TAKEN OUT OF OPERATION.
- Repair only by technical maintenance staff.

7. EC Declaration of conformity

Machine type(s): Die grinder

Declare that the product(s): CP9105QB / CP9106QB / CP9108QB / CP9110QB / CP9111QB / CP9112QB Serial Number: 00001 - 99999

Origin of the product : TAIWAN

is in conformity with the requirements of the council Directives on the approximation of the laws of the Member States relating : to "Machinery" 2006/42/EC (17/05/2006)

applicable harmonised standard(s) : EN ISO 11148-9:2012

Name and position of issuer : Pascal Roussy (R&D Manager)

Place & Date : Saint-Herblain, 01/05/2016

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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

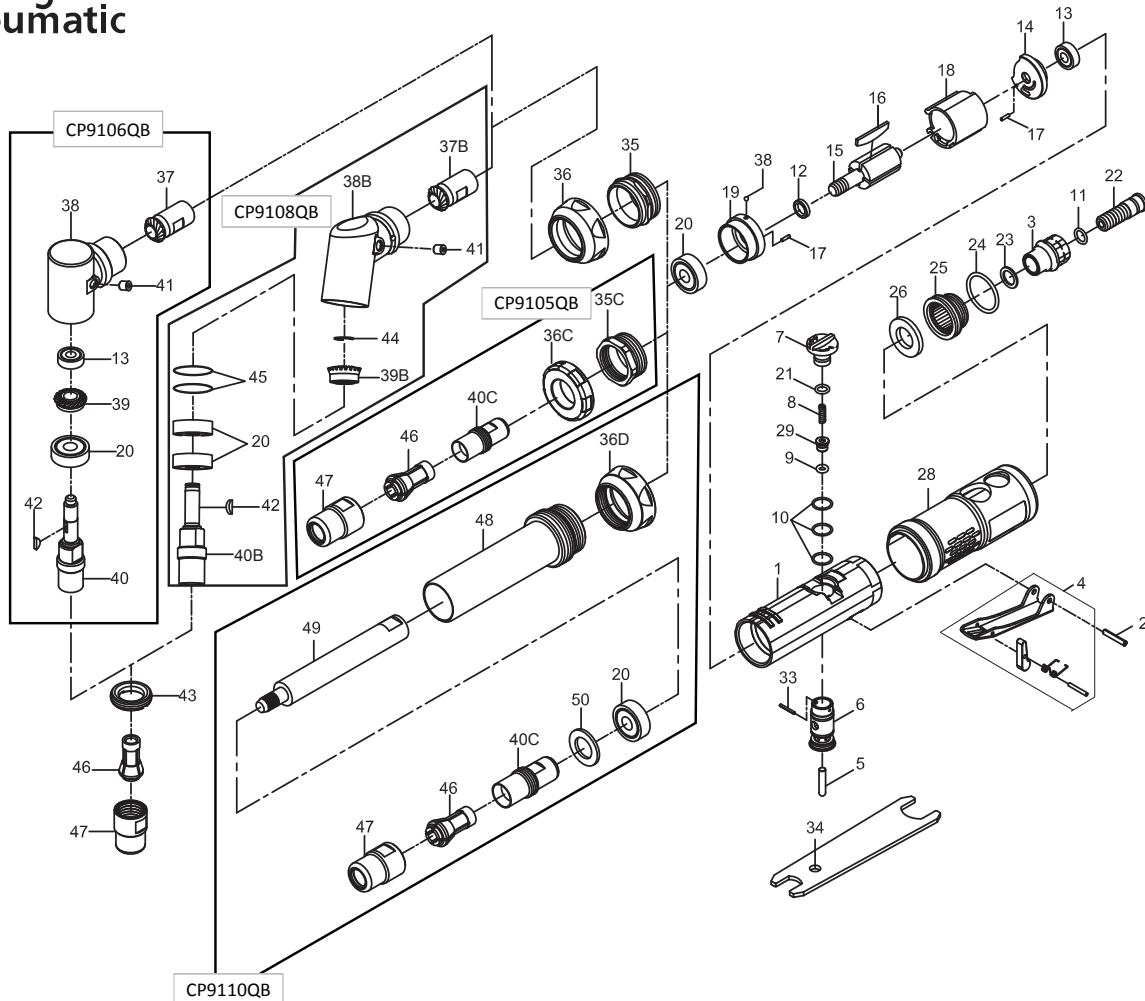
California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:

- 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.


- (4) declare that the product(s): **PNEUMATIC COLLET GRINDER**
(5) Machine type(s) :

CP9104Q CP9105QB CP9106QB CP9107 CP9108QB CP9110QB CP9111QB CP9112QB CP9104QK CP9107MK CP9111QB MKIT CP9111QB IKITCPXXXX	Serial #: From 00001 to 99999
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- (6) Origin of the product : TAIWAN
- (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 ISO 11148-9:2011
- (12) NAME and POSITION of issuer :
- Bruno BLANCHET
(General Manager)**
- (13) Place & Date : Saint-Herblain, 30/03/2012
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Index No.	Part No.	Description	Qty.	Index No.	Part No.	Description	Qty.
A	8940168865	Housing Kit		G	8940168873	Front coupling kit CP9105Q-B	
1		Motor Housing	1	35C		Front Coupling	1
28		Grip	1	36C		Front Cap	1
B	8940168866	Inlet Kit		H	8940168874	Head Kit CP9106Q-B (Incl. 41,42,43)	
3		Air Inlet	1	40	2050484463	Spindle	1
11		O-Ring 7,5*1,5	1	38		Head	1
22		Fixed Shaft	1	H1	8940168875	Bevel Kit CP9106Q-B	
23		Washer	1	13		Ball Bearing (696Zz)	1
24		O-Ring 22,8*2	1	20		Ball Bearing (608Zz)	1
25		Deflector	1	37		Pinion Gear	1
26		Damping Material	1	39	2050484433	Bevel Gear	1
C	8940168867	Lever kit		I	8940168876	Head Kit CP9108Q-B (Incl. 41,42,43)	
2		Lever Pin (3*18)	1			Head	1
4		Throttle Lever Assembly	1	38B		Spindle	1
D	8940168868	Reverse Kit		40B	2050484523		
5		Valve Shaft	1	I1	8940168877	Bevel Kit	
6		Valve	1	20		Ball Bearing (608Zz)	2
7		Knob	1	37B		Pinion Gear	1
8		Spring	1	39B		Bevel Gear	1
9		O-Ring 3,8*1,9	1	44		Crescent Ring	1
10		O-Ring 10,5*1	3	45		Shim (2)	1
21		O-Ring 6*1,5	1				
29		Throttle Valve	1	J	8940168878	Head Kit CP9110Q-B	
33		Spring Pin 1,5*12	1	20		Ball Bearing (608Zz)	1
E	8940168869	Motor Kit		48		Ext. Housing	1
12		Rotor Spacer	1	49		Tension Shaft	1
15		Rotor	1	50		Washer	1
16	2050484373	Vane (4)	1	34	2050484423	Spanner (2)	1
18		Cylinder	1	36D	2050487083	Front Cap CP9110Q-B	1
E1	8940168870	Rear plate kit		43	2050484443	Lock Ring	1
13		Ball Bearing (696Zz)	1	46	2050484293	Collet (1/4 ")	1
14		Rear End Plate	1		2050495833	Collet (6 Mm)	1
17		Spring Pin (1,5*6)	1	47	2050484413	Collet Nut	1
E2	8940168871	Front plate kit		40C	2050484533	Spindle	1
19		Front End Plate	1				
20		Ball Bearing (608Zz)	1				
17		Spring Pin (1,5*6)	1				
F	8940168872	Front coupling kit CP9106Q-B & CP9108Q-B					
35		Front Coupling	1				
36		Front Cap	1				

	8940168622	Operator's manual
	6159948750	Safety instructions
	8940168619	EC declaration

Spare parts without part number are not sold separately