Chicago Pneumatic

Operator's Manual

CP 734H Series

1/2“ Impact Wrench

Model L

⚠ 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 6159948710 , before performing any such task.

Air Diagram:

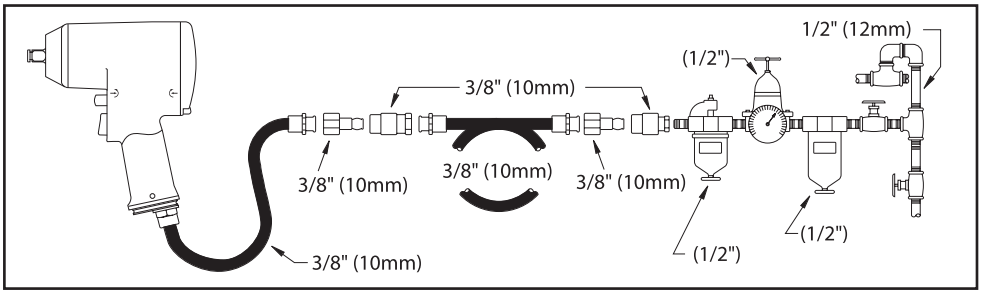


Fig. 01

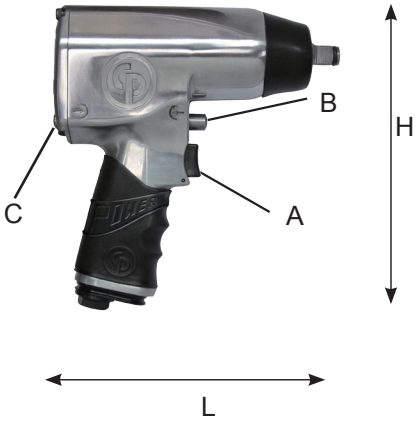


Fig. 02

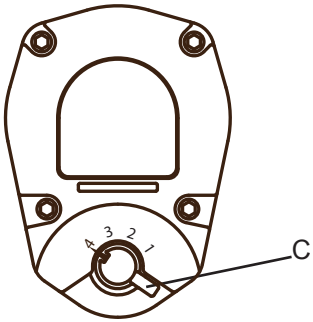


Fig. 03

Model	Drive	Torque		Speed	Weight	Dimension L x W x H	Air Consumtion		Inner Hose Dia.	Sound pressure L_{pA}	Soundpower L_{wA}	Vibrations	
		Working	Max				Average	continuous				a_h	k
	1	2		3	4	6	7		8	9		10	11
	[inch]	[ft.lbs] [Nm]	[ft.lbs] [Nm]	[min-1]	[lb] [kg]	mm	[SCFM] [Nl/s]		[inch] [mm]	dB(A)	dB(A)	m/s^2	m/s^2
CP734H	1/2"	25-310 34-420	445 600	9500	5.13 2.32	191x63x200	3.75 1.8	15 7.1	3/8" 10	97.4	108.4	5.07	1.74

1.Technical Data

Model	Drive	Torque		Speed	Weight	Dimension L x W x H	Air Consumption		Inner Hose Dia.	Air Inlet	Sound pressure L_{pA}	Sound power L_{wA}	Vibrations	
		Working	Max				Average	continuous					a_{hd}	k
														
	1	2		3	4	5	6		7	8	9		10	11
	[inch]	[ft.lbs] [Nm]	[ft.lbs] [Nm]	[min-1]	[lb] [kg]	[inch.] [mm]	[SCFM] [Nl/s]		[inch] [mm]	[inch.]	[dB(A)]	[dB(A)]	[m/s²]	[m/s²]

max. pressure 6.3bar(90psi)

a_h : 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 28927-2)

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 installing and removing threaded fasteners in wood, metal and plastic. No other use permitted. For professional use only.
- Please read the instructions carefully before starting the machine.

3. Mounting instruction

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

⚠ Use the reverse switch (B) only when the drive spindle comes to a complete stop. Changing the speed before the drive spindle stops may damage the machine.

- To switch rotation, push the switch (B) as shown in Fig. 02
- To adjust output power, turn the regulator (C) as shown in Fig. 03.

4. Lubrication

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.

Recommended lubricant : CP Oil Protecto-lube
- 4 oz (0.12l) P/N: CA149661 (Air Tool oil)
- 20.8 oz (0.591l) P/N: CA000046 (Air Tool oil)
- 1gal (3.8l) P/N: P089507 (Airoilene oil)

Clutch

- Check clutch oil once each month. Use 3/4 oz. (22ml) of SAE #30 oil or equivalent.

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.
- 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 part 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. EU Declaration of conformity

Machine type(s) : **impact wrench**
Declare that the product(s) : **CP734H** Serial Number : **00001 - 99999**
Origin of the product : **Japan**
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 11148-6:2012**

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

Place & Date : **Saint-Herblain**, **05/01/2017**

Chicago Pneumatic

(1) **DECLARATION OF CONFORMITY**

(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**

Chicago Pneumatic

(1) **DECLARATION OF CONFORMITY** CE

Impact wrench	**Part n°**	ISO 28927-2 (3 axis)		ISO 8662-7 (1 axis)		ISO 15744	
Models		a_{hd} m/s^2	**K** m/s^2	a_h m/s^2		L_{pA} dB(A)	L_{WA}dB(A)
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_h : Vibration levels

L_{pA} Sound pressure level

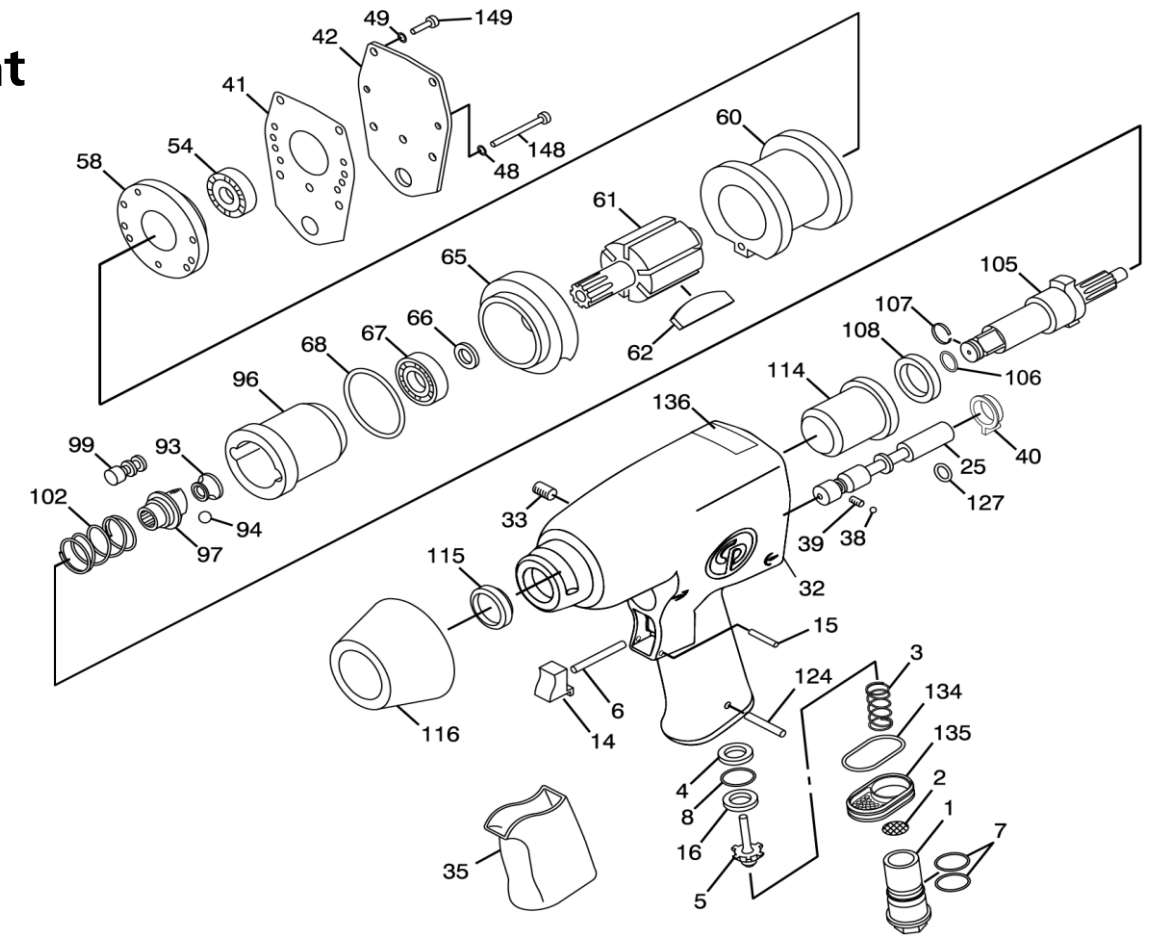
$K_{pA} = K_{WA} = 3dB$ Uncertainty

Chicago Pneumat

CP734H Series

Impact Wrench 1/2"

Model L



Assembly Instructions

Item #	Tightening torque	Dir.	Glue / comment
149 - 32	4.8 ft.lb - 6.5 N.m	↻	
33 - 32	3.7 ft.lb - 5 N.m	↻	3/4 oz. (22ml) of oil in clutch
148 - 65	2.45 ft.lb - 3.3 N.m	↻	final torque after motor tuning

	6159948710	Safety instructions
	8940174788	Operator's Manual
	CA155779	Warning Label

Index No	Part No	Description	Qty
32	8940174786	Hsg-Motor	1
35	8940158432	Handle-cover	1
41	CA147020	Gasket motor housing	1
42	CA147013	Cover-Motor Housing	1
60	CA147025	Liner	1
61	CA147024	Rotor	1
62	KF131274	Set-Rotor Blade (set of 6)	1
96	KF144076	Cage-Clutch	1
105	CA045907	Anvil CP734H (incl. 106, 107)	1
	CA046723	Anvil CP734H-2 (incl. 106, 107)	1
108	KF129046	Spacer	1
114	CA099916	Bushing-Clutch	1
115	CA088095	Seal-Oil	1
116	KF129085	Shield-Nose	1
136	CA155779	Warning Label	1
A	**8940168242**	**Inlet Kit**	
1		Bushing-Air Inlet	1
2		Straine-Air	1
7		O-Ring	2
124		Pin Roll	1
B	**8940173359**	**Exhaust Kit**	
134		Gasket Exhaust Deflector	1
135		Deflector-Exhaust	1
C	**8940168243**	**Throttle Kit**	
3		Spring Throttle	1
4		Spacer	1
5		Valve Throttle	1
8		O-Ring	1
16		Seat Throttle	1
D	**8940168244**	**Reverse Valve Kit**	
25		Valve-Reverse	1
38		Ball Steel	1
39	CA147021	Spring-Detent	1
40		Lever Regulator	1
127		O-Ring	1

Index No	Part No	Description	Qty
E	**8940168245**	**Trigger Kit**	
6		Pin Throttle	1
14		Trigger	1
15		Pin Roll	1
F	**8940168246**	**Screw Hex / Washer kit**	
48		Lockwasher	3
49		Lockwasher	4
148		Screw	3
149		Screw	4
G	**8940168248**	**Rear End Plate kit**	
54	C075878	Bearing-Ball	1
58		Plate-Rear End	1
H	**8940168249**	**Front End Plate kit**	
65		Plate-Front End	1
66		Seal-Oil	1
67	C066342	Bearing-Ball	1
68		O-ring	1
I	**8940168250**	**Cam kit**	
93		Pilot	1
94		Ball-Steel	1
97		Cam	1
J	**8940168252**	**Pin kit**	
99		Pin	2
102		Spring	1
K	**8940170244**	**Anvil-Retainer kit**	
106		O-ring	1
107		Retainer-Socket	1
O	**8940173361**	**SMALL PARTS KIT**	
Incl. 2, 15, 33, 38, 39, 43, 124			
P	**CA147716**	**TUNE UP KIT**	
Incl. Index No. 7, 8, 41, 62, 66, 68, 106, 107, 115, 127			

Recommended Accessories

Clutch Oil

(for clutch lubrication)

SAE #30

Protecto-lube Oil

(for cleaning motor parts)

CA149661 (4 oz - 0.12 L)

CA000046 (20 oz - 0.59 L)

Airoilene Oil

(for air lubrication)

P089507 (1 gal - 3.8 L)

Spare parts without part number are not sold separately. High wear parts are underlined.

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.

⚠ 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

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.

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
  - 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.
- 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.