• Operating Instructions • Warning Information
• Parts Breakdown

CORNWELL TOOLS

CAT-375

3/4" HD Impact Wrench

SPECIFICATIONS

	CAT-375
Bolt Capacity	1-1/8"
Max. Free Speed	4,500 RPM
Working Torque	300-1,000 ft. lbs.
Maximum Torque	1,500 ft. lbs.
Air Inlet	1/4" NPT
Recommended Hose Size	3/8"
Recommended Air Pressure	90 PSI
Overall Length	9.25"
Net Weight	11.88 lbs.
Avg. Air Consumption	89 dBA
Sound Level	1/4"

⚠WARNING

ALWAYS READ INSTRUCTIONS BEFORE USING POWER TOOLS

ALWAYS WEAR SAFETY GOGGLES

WEAR HEARING PROTECTION

AVOID PROLONGED EXPOSURE TO VIBRATION

⚠WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- **lead from lead-based paints,**
- **crystalline silica from bricks and cement and other masonry products, and**
- **arsenic and chromium from chemically-treated lumber.**

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 those dust masks that are specially designed to filter out microscopic particles.

⚠WARNING

FAILURE TO OBSERVE THESE WARNINGS COULD RESULT IN INJURY

THIS INSTRUCTION MANUAL CONTAINS IMPORTANT SAFETY INFORMATION.

READ THIS INSTRUCTION MANUAL CAREFULLY AND UNDERSTAND ALL INFORMATION BEFORE OPERATING THIS TOOL.

- Always operate, inspect and maintain this tool in accordance with American National Standards Institute Safety Code of Portable Air Tools (ANSI B186.1) and any other applicable safety codes and regulations.
- For safety, top performance and maximum durability of parts, operate this tool at 90 psig 6.2 bar max air pressure with 3/8" diameter air supply hose.

- Always wear impact-resistant eye and face protection when operating or performing maintenance on this tool.

- Always wear hearing protection when using this tool. High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or OSHA regulation.
- Keep the tool in efficient operating condition.
- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of this tool.

- Air powered tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions over extended periods of time may be harmful to your hands and arms. Discontinue use of tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.

- Air under pressure can cause severe injury. Never direct air at yourself or others. Always turn off the air supply, drain hose of air pressure and detach tool from air supply before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool. Failure to do so could result in injury. Whip hoses can cause serious injury. Always check for damaged, frayed or loose hoses and fittings, and replace immediately. Do not use quick detach couplings at tool. See instructions for correct set-up.
- Place the tool on the work before starting the tool.

- Slipping, tripping and/or falling while operating air tools can be a major cause of serious injury or death. Be aware of excess hose left on the walking or work surface.
- Keep body working stance balanced and firm. Do not overreach when operating the tool.
- Anticipate and be alert for sudden changes in motion during start up and operation of any power tool

- Do not carry tool by the hose. Protect the hose from sharp objects and heat.
- Tool shaft may continue to rotate briefly after throttle is released. Avoid direct contact with accessories during and after use. Gloves will reduce the risk of cuts or burns.

- Keep away from rotating end of tool. Do not wear jewelry or loose clothing. Secure long hair. 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.
- Impact wrenches are not torque control devices Fasteners with specific torque requirements must be checked with suitable torque measuring devices after installation with an impact wrench.
- Use only impact wrench sockets and accessories on this tool. Do not use hand
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
- Do not force tool beyond its rated capacity.
- Do not remove labels. Replace damaged labels.

OPERATION

The air regulator knob can be used as an air throttle, if there are no other means of regulating air. Turn the air regulator knob all the way to position 4 for maximum power.

The air regulator can be used to adjust torque to the approximate tightness of a known fastener.To set the tool to desired torque, select a nut or screw of known tightness of the same size, thread pitch and thread condition as those on the job. Turn air regulator to low position, apply wrench to nut and gradually increase power (turn regulator to admit more air) until nut moves slightly in the direction it was originally set. The tool is now set to duplicate that tightness - note regulator setting for future use. When tightening nuts not requiring critical torque values, run nut up flush and then tighten an additional one-quarter to one-half turn (slight additional turning is necessary if gaskets are being clamped). For additional power needed on disassembly work, turn regulator to its fully open position. This impact wrench is rated at 3/4" USS bolt size. Rating must be down graded for spring U bolts, tie bolts, long cap screws, double depth nuts, badly rusted conditions and spring fasteners as they absorb much of the impact power. When possible, clamp or wedge the bolt to prevent springback.

Soak rusted nuts in penetrating oil and break rust seal before removing with impact wrench. If nut does not start to move in three to five seconds use a larger size impact wrench. Do not use impact wrench beyond rated capacity as this will drastically reduce tool life.

The reversing valve is used to change the rotation of the tool. When the valve is out, the tool is in a forward or right hand rotation. When the valve is pushed in, the rotation is reverse or left hand.

NOTE: Actual torque on a fastener is directly related to joint hardness, tool speed, condition of socket and the time the tool is allowed to impact.

Use the simplest possible tool-to-socket hook up. Every connection absorbs energy and reduces power.

FEATURES

- Twin Hammer Impact Mechanism for outstanding power and durability
- Side handle for ease of use
- Comfort grip handle for secure grip, and ease of handling
- Rear handle forward/reverse lever for ease of use
  1,500 Ft. Lbs. of Maximum torque for big job applications
- Bottom handle exhaust to keep exhaust away from the work
- Only 11.88 Lbs. and 9.25" long for great balance and comfort

AIR SUPPLY

Tools of this class operate on a wide range of air pressures. It is recommended that air pressure of these tools measures 90 PSI at the tool while running free. Higher pressure and unclean air will shorten tool life because of faster wear and may create a hazardous condition.

Water in the air line will cause damage to the tool. Drain the air tank daily. Clean the air inlet filter screen on at least a weekly schedule. The recommended hook-up procedure can be viewed in Figure 1.

The air inlet (Figure 2), used for connecting air supply, has standard 1/4" NPT American Thread.

Line pressure should be increased to compensate for unusually long air hoses (over 25 feet). Minimum hose diameter should be 3/8" I.D. and fittings should have the same inside dimensions.

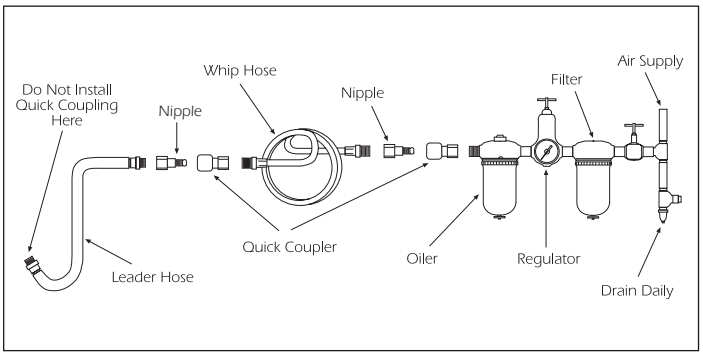


FIG. 1

TROUBLESHOOTING

Other factors outside the tool may cause loss of power or erratic action. Reduced compressor output, excessive drain on the air line, moisture or restrictions in air pipes or the use of hose connections of improper size or poor conditions may reduce air supply. If outside conditions are in order, and the tool still performs erratically, disconnect tool from hose and take tool to your nearest Cornwell Tools authorized service center.

LUBRICATION & MAINTENANCE

Lubricate the tool daily with a good grade of air tool oil. If no air line oiler is used, run a teaspoon of oil through the tool. The oil can be squirted into the tool air inlet Figure 2, or into the hose at the nearest connection to the air supply, then run the tool. A rust inhibitive oil is acceptable for air tools.

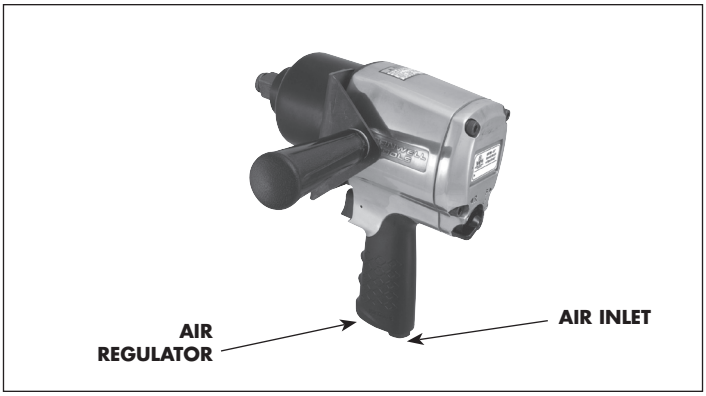


FIG. 2

Cornwell Tools™ 1 Year Limited Warranty for Air Tools

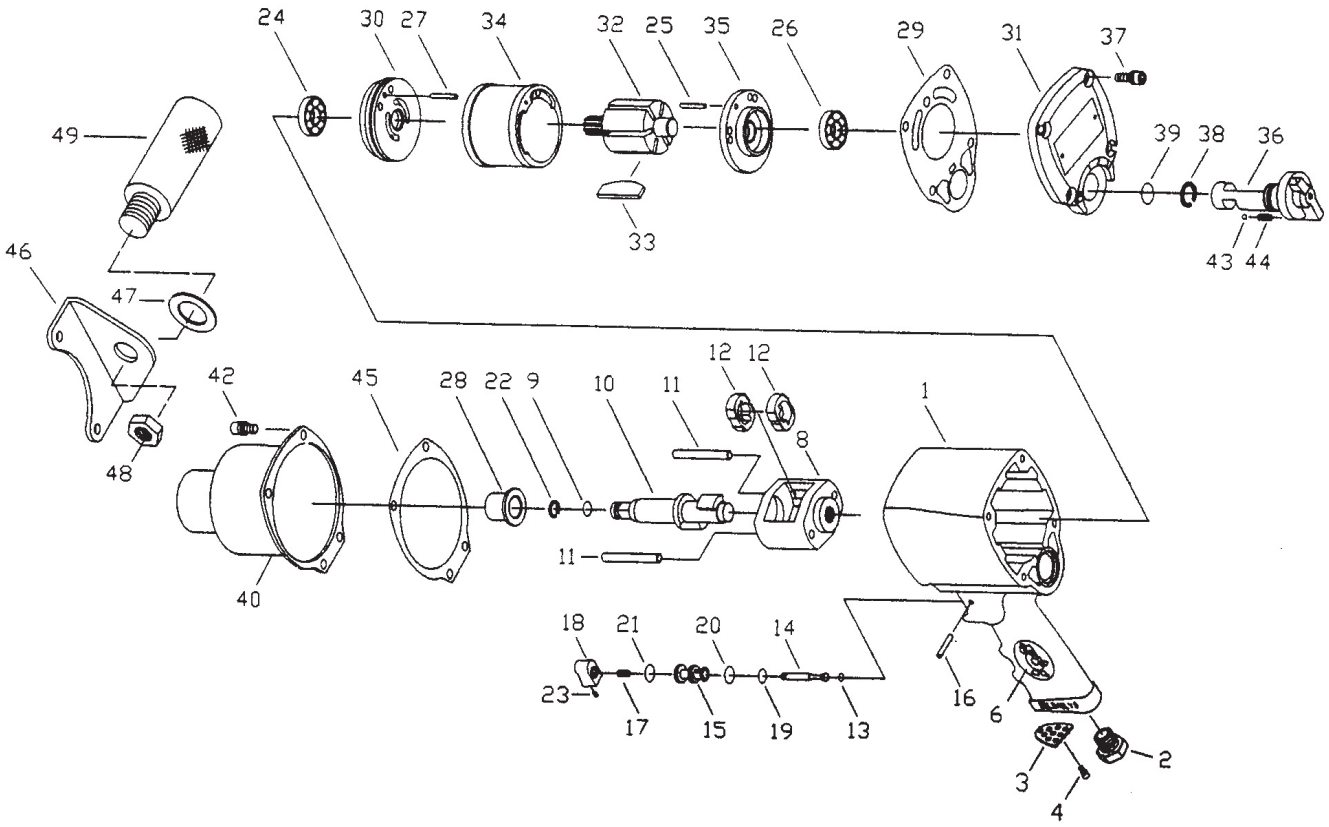
Cornwell Tools warrants its air tools for a period of 1 year to the consumer. We will repair any air tool covered under this warranty which proves to be defective in material or workmanship during the warranty period. In order to have your tool repaired, return the tool to any Cornwell Tools Authorized Warranty Center, freight prepaid. Please include a copy of your proof of purchase and a brief description of the problem. The tool will be inspected and if any part or parts are found to be defective in material or workmanship, they will be repaired free of charge and the repaired tool will be returned to you freight prepaid.

This warranty gives you specific rights. You may also have other rights which vary from state to state.

The foregoing obligation is Cornwell Tools' sole liability under this or any implied warranty and under no circumstances shall Cornwell Tools be liable for any incidental or consequential damages.

Note: Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

CAT-375 3/4" HD Impact Wrench



REF. NO.	PART NO.	DESCRIPTION	QTY.
1	RS37501	Housing/Valve Sleeve	1
2	RS37502	Air Inlet	1
3	RS37503	Exhaust Deflector	1
4	RS37504	Screw	1
6	RS37505	Rubber Grip	1
8	RS37506	Hammer Cage	1
9	RS37509	O-Ring	1
10	RS37510	Anvil	1
11	RS37511	Hammer Pin	2
12	RS37512	Hammer	2
13	RS37513	O-Ring	1
14	RS37514	Valve Stem	1
15	RS37515	Valve Bushing	1
16	RS37516	Spring Pin	1
17	RS37517	Spring	1
18	RS37518	Trigger	1
19	RS37519	O-Ring	1
20	RS37520	O-Ring	1
21	RS37521	O-Ring	1
22	RS37522	Anvil Collar	1
23	RS37523	Set Screw	1
24	RS37524	Ball Bearing	1
25	RS37525	Pin	1

REF. NO.	PART NO.	DESCRIPTION	QTY.
26	RS21109	Ball Bearing	1
27	RS37527	Pin	1
28	RS37528	Bushing	1
29	RS37529	Gasket	1
30	RS37530	Front End Plate	1
31	RS37531	Rear Cover	1
32	RS37532	Rotor	1
33	RS37533	Rotor Blade	1
34	RS37534	Cylinder	1
35	RS37535	Rear End Plate	1
36	RS37536	Regulator Knob	1
37	RS37537	Screw & Spring Washer	4
38	RS37538	Inverted Retaining Ring	1
39	RS37539	O-Ring	1
40	RS37540	Housing Cover	1
42	RS37542	Screw & Spring Washer	4
43	RS37543	Steel Ball	1
44	RS37544	Spring	1
45	RS37545	Gasket	1
46	RS37546	Plate	1
47	RS37547	Washer	1
48	RS37548	Nut	1
49	RS37549	Handle	1