



71pc Air Impact Wrench Tool Kit



Please read the manual carefully before operating or servicing the tool.

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WARNING

For Your Own Safety Read This Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



Indicates an imminently hazardous situation which, if not avoided, **WILL** result in dead or serious injury.







Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices



This symbol is used to alert the user to useful information about proper operation of the equipment.

	<p>WARNING LUNG/EAR INJURY HAZARD! Wear protective equipment when using this tool.</p>
	<p>WARNING ACCIDENTAL START HAZARD! Disconnect before service or tool changes.</p>
	<p>WARNING AIR PRESSURE HAZARD! Never exceed max PSI rating for tool.</p>
	<p>WARNING EYE INJURY HAZARD! Wear protective equipment when using these tools.</p>

SAFETY GUIDELINES

1. Read this manual. This tool may cause personal injury if used incorrectly. This manual contains proper safety and operating instructions based on ISO 25.140.10 that must be followed to reduce this risk.
2. Wear eye protection. This tool may throw small fragments during operation, which may cause serious eye injury. Always wear ANSI/ISO 13.340.20 approved safety glasses or face shield to reduce the risk of injury from this hazard.
3. Wear a respirator. This tool may produce fine dust during operation, which can cause respiratory injury if inhaled. Always wear a respirator NIOSH/ISO 13.340.30 approved for the type of material being processed.
4. Wear hearing protection. Operating this tool for a prolonged time period may damage your hearing. Your risk depends on length and frequency of use. To reduce the risk of this hazard, wear hearing protection.
5. Maintain safety guards. Your tool may be equipped with safety guards or other structural components designed to reduce the risk of injury during operation. Never modify or operate this tool with any guards or components removed or damaged.
6. Keep children away. Prevent children from possible injury by keeping them away from this tool. Disconnect and lock the tool away when not in use.
7. Avoid entanglements. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewellery which may get caught in the moving parts when the tool is in operation. Wear a hair tie or protective hair covering to contain long hair.
8. Use the correct air pressure. Exceeding the maximum PSI rating of this tool may cause unpredictable operation or bursting.
9. Disconnect the air pressure before servicing, changing accessories, or moving to another location. Never leave this tool unattended when air is still connected.
10. Secure the tooling. Always verify tooling is secured before starting the operating.
11. Be aware of sharp surfaces. Do not place hands near the tooling surfaces when in operation.
12. Remove adjusting keys and wrenches before use. These tools become dangerous projectiles if left on the tool when it is started.
13. Avoid flammable environments. Do not use this tool around any flammables that can ignite from sparks.

14. Secure the work. Use clamps or a vice to hold the workpiece when practical. It is safe than using your hand and frees both hands to operate the tool.
15. Maintain the tools with care. Keep tools lubricated and clean for better and safer performance. Follow instructions for lubricating and changing accessories.
16. Do not force the tool. It will do the job better and safer at the rate for which it was designed.
17. Check for damaged parts before using. Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect operation. Repair or replace damaged parts before operation.
18. Use good lighting. Keep work area well lit. Dark work areas are prone to risks and accidental injuries.
19. Avoid unintentional operation. Always disconnect the air when not in use, and do not carry the tool with the finger on the trigger.
20. Use the recommended accessories. Consult the owner's manual for recommended accessories. Using improper accessories may increase the risk of injury.
21. Never allow untrained operators to use this tool while unsupervised.
22. If you are unsure of the intended operation, stop using the tool. Seek formal training or research books or magazines that specialize in pneumatic tools.
23. Be aware of the hose location. Hoses can easily become a tripping hazard when laid across the floor in a disorganized fashion.
24. Do not use the tool when fatigued, under the influence of drugs or alcohol.

FUNCTIONAL DESCRIPTION

AIR RATCHET WRENCH

1. Direction Toggle
2. Exhaust
3. Housing
4. Trigger
5. Air Inlet
6. Nozzle
7. Anvil



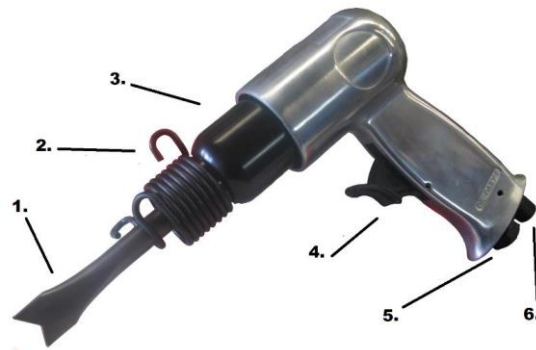
AIR IMPACT WRENCH

1. Oil Inlet
2. Housing
3. Anvil
4. Direction Pin
5. Trigger
6. Air Regulator Dial
7. Air Inlet



AIR HAMMER

1. Chisel
2. Retainer Spring
3. Cylinder
4. Trigger
5. Air Inlet
6. Air Regulator



AIR DIE GRINDER

1. Collet
2. Collet Jacket
3. Collet Holder
4. Safety Lock
5. Throttle Lever
6. Air Inlet
7. Housing



AIR BLOW GUN

1. Nozzle
2. Body
3. Trigger
4. Air Inlet



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AIR TOOL KIT INCLUSION

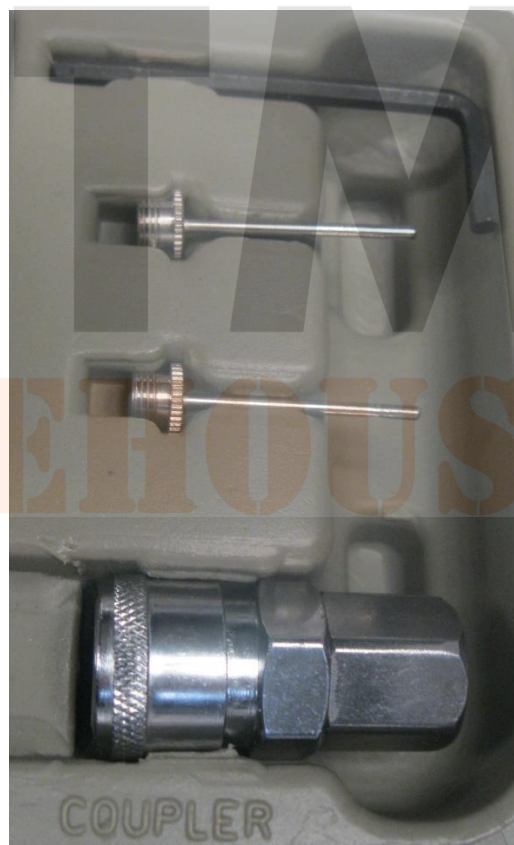
AIR TOOLS



CHISEL / SAND PAPER
/ OIL / TAPE



COUPLER



STONES



BITS



CONNECTORS



SOCKETS



ACCESSORIES



ASSEMBLY

AIR RATCHET WRENCH

1. Remove the protective cap from the air inlet. Attach the female connector into the tool.
2. Mount the male plug by hand into the air inlet.
3. Attach the appropriate socket into the anvil.
4. Place 2-3 drops of lubricant into the male plug before each operation.
5. Blow air out of the line to remove excess material or moisture.
6. Connect the tool to an air source by connecting air hose to the air inlet. Set the air pressure to 90 PSI (6.2 Bar).

AIR IMPACT WRENCH

1. Remove the protective cap from the air inlet. Attach the female connector into the tool.
2. Attach the appropriate socket into the anvil until it clicks into position.
3. Push in and rotate the air regulator speed selector dial to the desirable speed.
4. Place 2-3 drops of lubricant into the male plug before each operation.
5. Blow air out of the line to remove excess material or moisture.
6. Connect the tool to an air source by connecting air hose to the air inlet. Set the air pressure to 90 PSI (6.2 Bar).

AIR HAMMER

1. Remove the protective cap from the air inlet. Attach the female connector into the tool.
2. Mount the male plug by hand into the air inlet.
3. Unscrew retainer spring from the cylinder.
4. Insert the desired shank for the job into the cylinder.
5. Screw the retainer tool piece completely onto the threads on the cylinder until it stops to hold the piece in place. Pull firmly on the piece to make sure it is secured in place.
6. Place 2-3 drops of lubricant into the male plug before each operation.
7. Blow air out of the line to remove excess material or moisture.
8. Connect the tool to an air source by connecting the air hose to the air inlet. Set air pressure to 90 PSI (6.2 Bar).

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AIR DIE GRINDER

1. Remove the protective cap from the air inlet. Attach the female connector into the tool.
2. Mount the male plug by hand into the air inlet.
3. Loosen the collet jacket by hand or with a large wrench while holding the collet with the small wrench on the flats of the collet holder.
4. Insert a grinding stone into the collet. Tighten the collet with the same method above. Make sure the grinding stone is installed securely and tightened down.
5. Blow air out of the line to remove excess material or moisture. Connect the tool to an air source by connecting the air hose to the air inlet. Set air pressure to 90 PSI (6.2 Bar)

AIR BLOW GUN

1. Attach the female connector into the tool. Mount the male plug by hand into the air inlet.
2. Screw the appropriate nozzle for the job.
3. Place 2-3 drops of lubricant into the male plug before each operation.
4. Blow air out of the line to remove excess material or moisture.
5. Connect the tool to an air source by connecting air hose to the air inlet. Set the air pressure to 90 PSI (6.2 Bar).

OPERATION

AIR RATCHET WRENCH

To install/tighten a threaded fastener:

1. Rotate the air regulator to the desired speed setting (1 = Lowest, 4 = Highest).
2. Turn the F/R knob counter-clockwise to "F".
3. Push the trigger to rotate the anvil clockwise.

To remove/loosen a threaded fastener:

1. Rotate the air regulator to the desired speed setting (1 = Lowest, 4 = Highest).
2. Turn the F/R knob clockwise to "R".
3. Push the trigger to rotate the anvil counter-clockwise.

AIR IMPACT WRENCH

To loosen the nut or bolt:

1. Select the reverse direction.
2. Place the appropriate socket over the nut or bolt, holding a firm grip on the handle, and place the other hand over the top of the housing. Slowly squeeze the trigger.

Important: if the tool cannot loosen the nut or bolt, DO NOT raise the air pressure above 90 PSI. If the tool's air regulator setting is in the low setting, re-adjust and retry on a higher setting. **If the tool's setting is already at its maximum, do not continue using the tool to loosen the nut or bolt.** Look for an alternative method to loosen the nut.

3. Release the trigger to stop the impact wrench.

To tighten the nut or bolt:

1. Install the nut or bolt as tightly as possible by hand.
2. Select the forward direction.
3. Place the appropriate socket over the nut or bolt, holding a firm grip on the handle, and place the other hand over the top of the housing. Slowly squeeze the trigger.

Important: if the nut or bolt will not get tighten on the maximum setting, do not continue using the tool to tighten the nut or bolt. Look for an alternative method to tighten the nut or bolt.

4. Release the trigger to stop the impact wrench.

AIR HAMMER

1. Hold the tool with both hands and place the tip of the tool piece onto the workpiece.
2. Squeeze the trigger to start the tool.
3. Release the trigger to stop the tool.
4. If the tool requires more force to accomplish the job, verify that the tool is receiving unobstructed air flow (CFM) and increase the pressure (PSI) of the regulator till it is up to the maximum air pressure rating for the tool.

Important: if the tool still does not have sufficient force while at the maximum pressure and sufficient air flow, then a more powerful tool may be required.

AIR DIE GRINDER

1. Secure the workpiece onto a vice. Mark out the area you need to get cut.
2. Grip the tool with both hands so that the thumbs rest on top of the lever and safety stick. Make sure the cutting wheel is not in contact with the work piece.
3. Gently push down on the safety lock to disengage the safety while applying pressure onto the lever.
Note: speed of cutting is variable by the pressure acting on the lever. Use the appropriate speed as necessary for the work piece.
4. Position the grinding stone against the work piece with a constant pressure.
5. Release the throttle to stop the air tool.

AIR BLOW GUN

1. Hold the blow gun 15-30cm from the area intended for to be blown.
2. Squeeze the trigger to begin the flow of air.
3. Release the trigger to stop the flow of air.
4. When finished, turn the air supply off, exhaust the excess air and disconnect the blow gun.

Important: only use clean and dry compressed air. Never use oxygen, carbon dioxide, combustible gases or any other bottled gas as an air supply.

SPECIFICATIONS

AIR RATCHET WRENCH

Air Inlet	1/4" NPT/BSPP
Free Speed	150 ±10% RPM
Max Torque	61 Nm (45 ft-lb)
Average Air Consumption	4 CFM (113.28 L/min) @ 90PSI
Recommended Hose Size	3/8" (I.D.)
Working Pressure	90 PSI
Weight	1.15 Kg
Air Exhaust	Front Exhaust

AIR IMPACT WRENCH

Bolt Capacity	1/2"
Air Inlet	1/4" NPT/BSPP
Free Speed	7,000 ±10% RPM
Max Torque	312 Nm (230 ft-lb)
Average Air Consumption	5 CFM (141.58 L/min) @ 90 PSI
Working Pressure	90 PSI
Weight	2.20 Kg
Air Exhaust	Front Exhaust

AIR HAMMER

Chisel Shank (round)	10.2mm
Bore Diameter (I.D.)	19.05mm
Blows per minutes	4,500 BPM
Air Inlet	1/4" – 18 NPT/BSPP
Stroke	43mm
Average Air Consumption	4 CFM (113.28 L/min) @ 90 PSI
Maximum Pressure	90 PSI
Weight	1.12 Kg

AIR DIE GRINDER

Collet Size	1/8", 1/4", 3mm, 6mm
Free Speed	22,000 RPM
Air Inlet	1/4" NPT/BSPP
Air Consumption	4 CFM (113.28 L/min) @ 90 PSI
Recommended Pressure	90 PSI
Weight	0.6 Kg
Exhaust	Rear Exhaust

AIR BLOW GUN

Air Inlet	1/4" NPT/BSPP
Air Consumption	4 CFM (113.28 L/min) @ 90 PSI
Working Pressure	30 – 60 PSI (2 – 4 Bar)
Recommended Pressure	90 PSI (6.2 Bar)
Maximum Pressure	145 PSI (10 Bar)
Weight	0.05 Kg

MAINTENANCE

AIR SUPPLY

Always use clean dry air as excessive moisture will lower the available torque and rust the interior moving parts. Make sure all hoses and fittings are of the recommended size and be sure the units are not used with less than or more than the recommended pressure of the tool, 90 PSI.

LUBRICATION

Proper lubrication of this air tool is critical to the operation and life of the unit. Units can severely damaged or have excessive wear placed on working parts if not lubricated. We recommended and use of Marvel Mystery Oil which is available at most auto parts locations. The tool should be lubricated each time it is used. During daily prolonged use, lube heavily 3 or 4 times during the day.

MAINTENANCE

Daily – before putting the tool in operation, disconnect air hose and pour about one tablespoonful of Marvel Mystery Oil into the tool air inlet. Blow out airline to clear it of accumulated dirt and moisture. Connect and operate the tool to allow the oil to be carried to the interior of the tool.

ACCESSORIES

Use only accessories that are recommended by the manufacturer for your model.

Accessories that may be suitable for one tool may become hazardous when used on another tool.

TROUBLESHOOTING

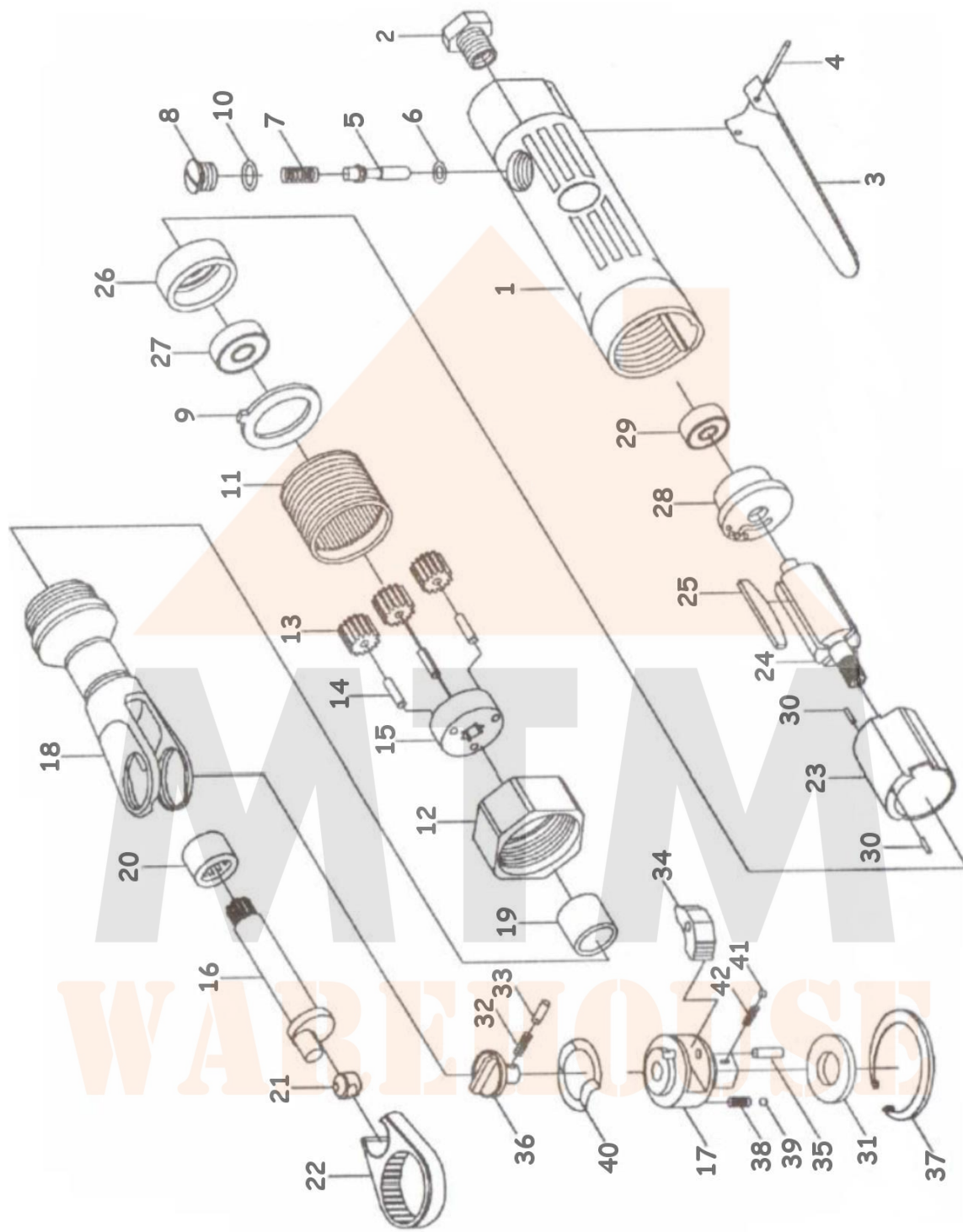
Most minor problems can be resolved quickly and easily using the troubleshooting table below.

Problem	Possible Cause	Solution
Unit will not work.	Plugged air inlets. Interior rusted.	Remove fitting and clean. Disassemble, clean, lube and reassemble.
Unit lacks power.	Low air supply. Lack of lubrication.	Check hoses, tanks, etc. Lube properly and retry.
Internal parts.	Dirty or gummed. Components worn.	Disassemble, clean, and lube. Disassemble, determine parts requiring replacement and repair.

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PARTS LIST AND DIAGRAM

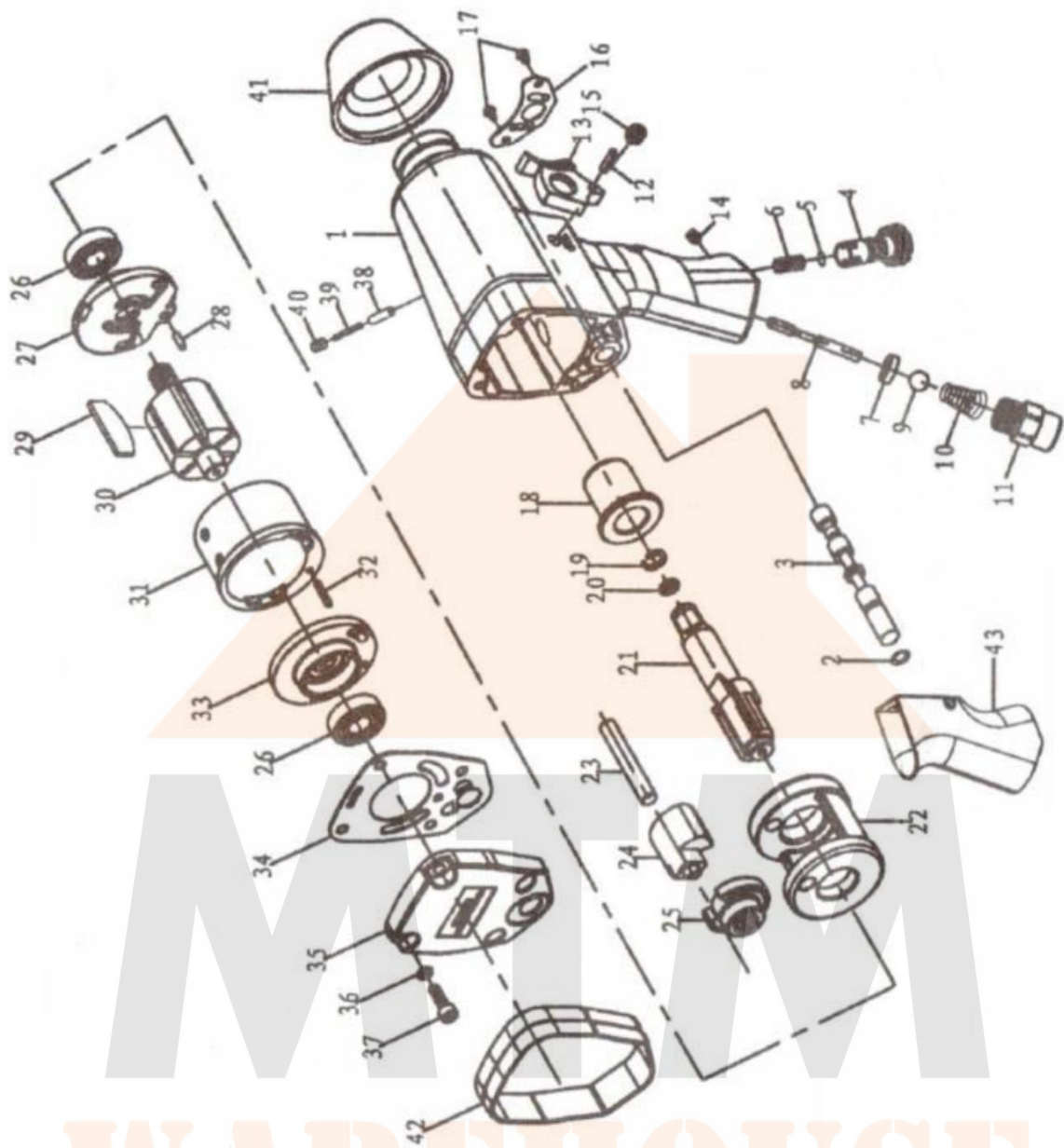
AIR RATCHET



Ref.	Part No.	Description	Qty	Ref.	Part No.	Description	Qty
1	1060-01	Housing	1	22	1060-21	Yoke	1
2	1060-02	Air Inlet	1	23	1060-22	Cylinder	1
3	1060-03	Trigger	1	24	1060-23	Rotor	1
4	1310-04	Trigger Pin	1	25	1060-24	Blade	4
5	1060-04	Pin	1	26	1060-25	Front Plate	1
6	1060-05	O-Ring	1	27	608-Z GB/T278-89	Bearing	1
7	1060-06	Spring	1	28	1060-26	End Plate	1
8	1060-07	Brass Nuts	1	29	626-Z GB/T278-89	Bearing	1
9	1060-08	Plain Washer	1	30	GB/T879.1 1.5*6	Pin	2
10	1060-09	O-Ring	1	31	1060-28	Lock Washer	1
11	1060-10	Ring Gear	1	32	1060-29	Spring	1
12	1060-11	Hex Nuts	1	33	1060-30	Ejector Rob	1
13	1060-12	Idle Gear	3	34	1060-31	Ratchet Pawl	1
14	1060-13	Pin	3	35	1060-32	Pin	1
15	1060-14	Planet Carrier	1	36	1060-33	Direction Switch	1
16	1060-15	Eccentric Shaft	1	37	GB/T893.1 30	Elastic Collar	1
17	1060-16	Anvil	1	38	1060-35	Spring	2
18	1060-17	Ratchet Housing	1	39	GB/T308-89 5/32"	Steel Ball	2
19	1060-18	Bushing	1	40	GB/T955 18	Elastic Washer	1
20	HK121812 GB/T290-98	Bearing	1	41	GB/308-89 3/16"	Steel Ball	1
21	1060-20	Drive Bushing	1	42	1060-39	Spring	1

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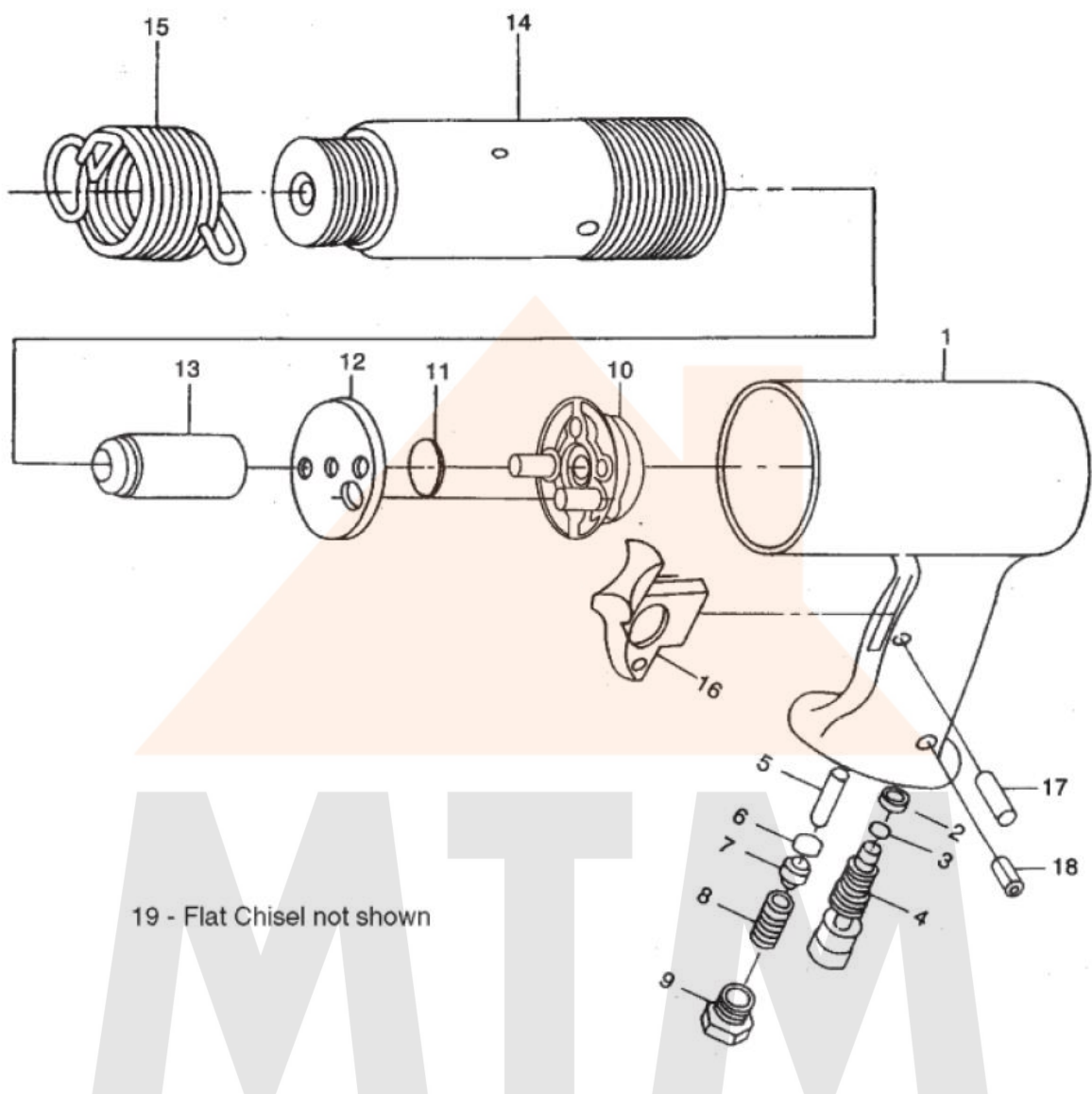
AIR IMPACT WRENCH



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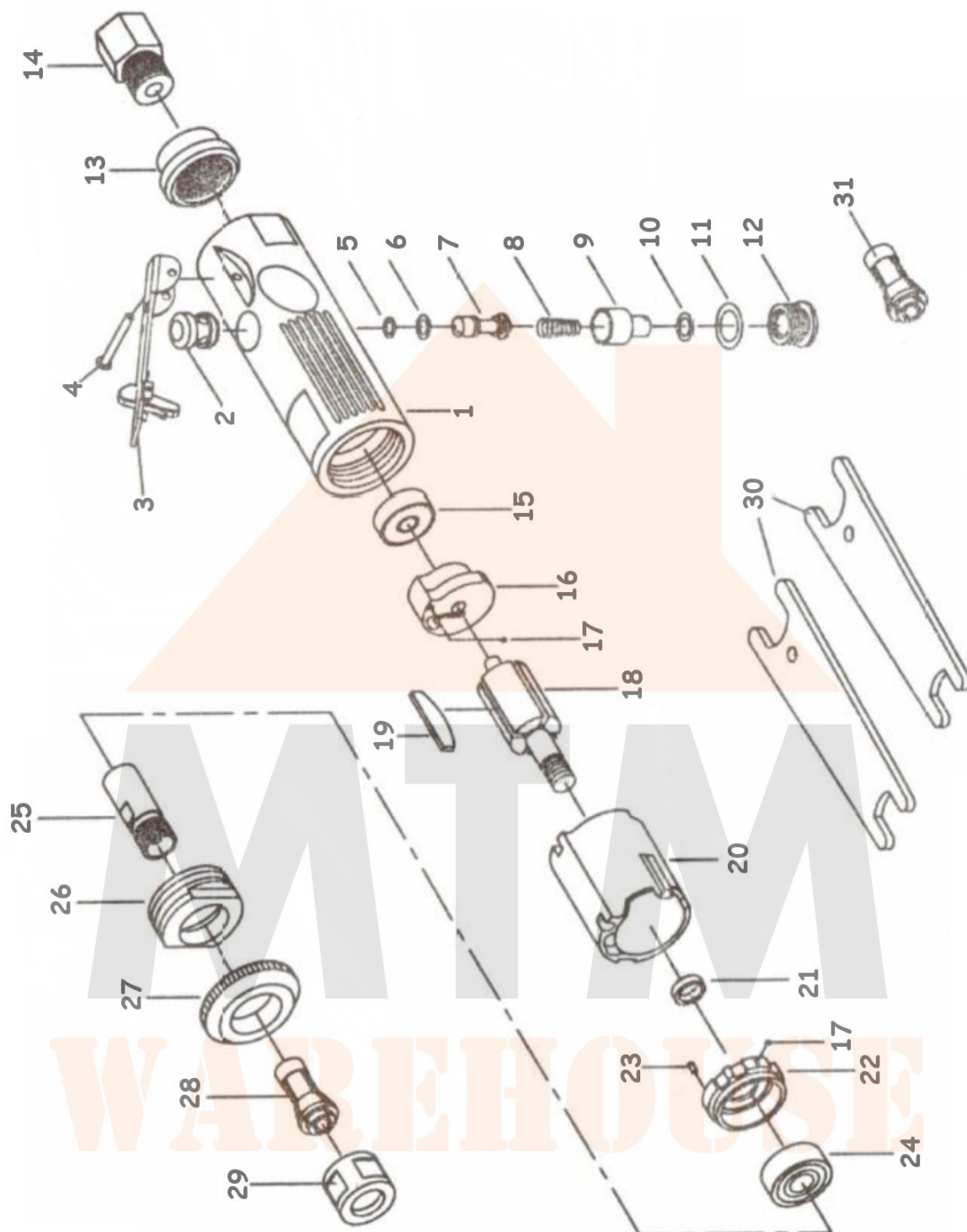
Ref	Part No.	Description	Qty	Ref	Part No.	Description	Qty
1	WFI-1070-01	Housing	1	23	WFI-1070-15	Pin	1
2	O RING 6.4*1.9	O-Ring	1	24	WFI-1070-16	Hammer Dog	1
3	WFI-1070-02	Reversal Regulator	1	25	WFI-1070-17	Drive Cam	1
4	WFI-1070-03	Flow Regulator	1	26	GB/T276-1994 6001-2Z	Bearing	2
5	JB/T6659-2007 8*2	O-Ring	1	27	WFI-1070-18	Front Cylinder Head	1
6	WFI-1070-04	Regulator Spring	1	28	GB/T879.2-2000 3*10	Straight Pin	1
7	WFI-1070-05	Bushing	1	29	WFI-1070-19	Blade	6
8	WFI-1070-06	Pin	1	30	WFI-1070-20A	Rotor	1
9	GB/T308-2002 9.525	Steel Ball	1	31	WFI-1070-21	Cylinder	1
10	WFI-1070-07	Taper Spring	1	32	GB/T879.2-2000 3*16	Straight Pin	1
11	WFI-1070-08	Air Inlet Connector	1	33	WFI-1070-22	Back Cylinder Head	1
12	GB/T879.2-2000 3*14	Straight Pin	1	34	WFI-1070-23	Sealing Gasket	1
13	WFI-1070-09	Trigger	1	35	WFI-1070-24	Real Cover	1
14	GB/T79-2000 M5*8	Screw	1	36	GB/T93-1987 5	Spring Gasket	4
15	GB/T77-2000 M8*6	Screw	1	37	GB/T70.1-2000 M5*16	Screw	4
16	WFI-1070-10	Steel Disc Cover	1	38	WFI-1070-25	Pin	1
17	Screw ST3.2*6	Screw	2	39	WFI-1070-26	Spring	1
18	WFI-1070-11	Oily Bushing	1	40	GB/T70.1-2000 M5*6	Screw	1
19	WFI-1070-12	Anti-Off Circle	1	41	WFI-1070-27	Front Jacket	1
20	GB/T3452.1-1992 6*1.8	O-Ring	1	42	WFI-1070-28	Back Jacket	1
21	WFI-1070-13A	Drive Shaft	1	43	WFI-1070-29	Handle Jacket	1
22	WFI-1070-14	Hammer Cage	1				

AIR HAMMER



Ref	Part No.	Description	Qty	Ref	Part No.	Description	Qty
1	N/A	Body	1	11	N/A	Valve Disk	1
2	N/A	Rubber Gasket	1	12	N/A	Front Valve	1
3	N/A	O-Ring	2	13	N/A	Piston	1
4	N/A	Regulator	1	14	N/A	Cylinder	1
5	N/A	Control Pin	1	15	N/A	Retainer Spring	1
6	N/A	O-Ring	1	16	N/A	Trigger	1
7	N/A	Ball	1	17	N/A	Pin	1
8	N/A	Spring	1	18	N/A	Pin	1
9	N/A	Air Inlet	1	19	N/A	Chisel	1
10	N/A	Rear Valve	1				

AIR DIE GRINDER



Ref	Part No.	Description	Qty	Ref	Part No.	Description	Qty
1	WFG-1310-01	Housing	1	17	GB/T308-2002 2.5	Steel Ball	2
2	WFG-1310-02	Valve Bushing	1	18	WFG-1310-11	Rotor	1
3	WFG-1310-03	Trigger Component	1	19	WFG-1310-12	Blade	4
4	GB/T873-86 3*24	Rivet	1	20	WFG-1310-13	Cylinder	1
5	O RING 4.8*1.6	O-Ring	1	21	WFG-1310-14	Washer	1
6	JB/T6659-2007 5.6*2	O-Ring	1	22	WFG-1310-15	Front Cylinder Head	1
7	WFG-1310-04	Pin	1	23	GB/T879.2-2000 2*6	Straight Pin	1
8	WFG-1310-05	Taper Spring	1	24	GB/T279-1994 6000-2Z	Bearing	1
9	WFG-1310-06	Adjusting Knob	1	25	WFG-1310-16	Collet Holder	1
10	O-Ring 7*2	O-Ring	1	26	WFG-1310-17	Locking Ring	1
11	O-Ring 12*3	O-Ring	1	27	WFG-1310-18	Lock Front Plate	1
12	WFG-1310-08	Nut	1	28	BQ04-01-01	1/4" Collet	1
13	WFG-1310-09	Muffle Cover	1	29	WFG-1310-19	Collet Nut	1
14	WFG-1310-09	Air Inlet Connector	1	30	WFG-1310-20	Spanner	2
15	GB/T276-1994 626-2Z	Bearing	1	31	BQ04-01-03	1/8" Collet	1
16	WFG-1310-10	Back Cylinder Head	1				

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Address: 5 Lyn Parade, PRESTONS, NSW 2170

E-mail: sales@mtmwarehouse.com.au

Telephone: (02) 9607 4300