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INTRODUCTION

- THIS PRODUCT has many features for making the use of this product more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

▲ WARNING: Do not attempt to use this product until you thoroughly read and completely understand the operator's manual. Pay close attention to the safety rules, including Dangers, Warnings, and Cautions. If you use your product properly and only as intended, you will enjoy years of safe, reliable service.

- ▲ !** Look for this symbol to point out important safety precautions. It means attention!!! Your safety is involved.



▲ WARNING: The operation of any tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always wear eye protection which is marked to comply with ANSI Z87.1.

GENERAL SAFETY RULES

⚠ WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment. Read all instructions before using the tool!

- **Work area conditions.** Cluttered areas invite injuries.
- **Additional work area conditions.** Do not use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted.
- **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools or extension cords.
- **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
- **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
- **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
- **Use eye protection.** Always wear ANSI approved impact safety glasses underneath a full face shield during use. Also, wear heavy duty work gloves.
- **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
- **Maintain tools with care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. The handles must be kept clean, dry, and free from oil and grease at all times.
- **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before starting work.
- **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
- **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Any part that is damaged should be replaced.
- **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Cummins Industrial Tools.
- **Do not operate tools if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.

⚠ WARNING: The warnings, cautions, and instructions discussed in this instruction manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which can not be built into this product, but must be supplied by the operator.

SPECIFIC SAFETY RULES

- If it takes more than 8 seconds to tighten or loose a bolt or nut with an air impact wrench, the air wrench is too small or the air compressor CFM is not powerful enough for the job. Continued use in either capacity will cause damage to the tool, following information will assure proper performance.
- Never allow an air tool to operate at full throttle without a workload on the tool.
- Never start a percussion type air tool (Chippers, breakers, buster, etc.) without securing the tooling in the retainer and placing the tip against the work surface.
- When opening on air grinder, place the abrasive wheel against the work surface immediately after starting.
- Never operate an air tool without proper eye and hand protection.

PRODUCT SPECIFICATIONS

- 1200 ft. lbs. of torque.
- 6" extension.
- D style handle, single hammer mechanism.
- Dimensions: 20 1/8" long, 1 1/4" bolt capacity.
- 10 CFM Air inlet 1/2" N.P.T., recommended hose size: 1/2" I.D.

UNPACKING

INSTRUCTIONS

When unpacking the tool:

- Carefully remove the tool and accessories from the box.
- Make sure that all items listed in the packing list are included.
- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.

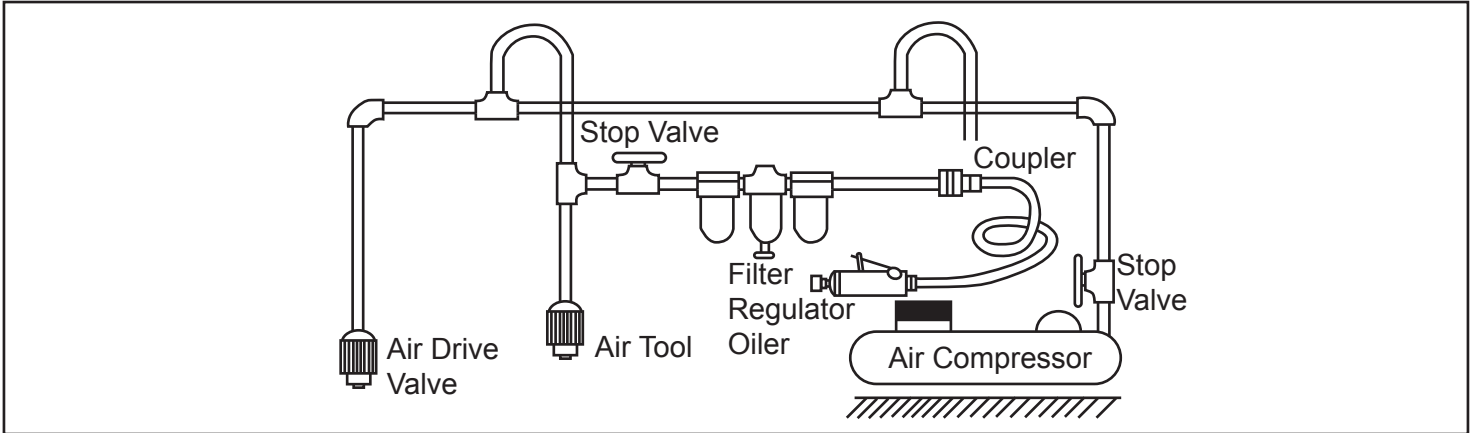
⚠ WARNING: If any part are missing do not operate the tool until the missing parts are replaced. Failure to do so could result in possible serious personal injury.

OPERATION

Air System

- Make sure the compressor being used with the air tool supplies adequate output (CFM).
- Equip the air compressor intake with a replaceable air filter that can be easily cleaned.
- Always use moisture traps at the compressor for the main distribution line. Use moisture traps and inline oilers on each downlink that is to be used for air tools.
- Place oiler as close to the air tool as possible for the best lubrication. (See figure)

OPERATION



Tol Pressure

- All the air tools operate on 70-100PSI air pressure (90PSI preferred) measured at the tool when the tool is operating. Pressure in excess of 100PSI will shorten the life of the tool and cause unnecessary down time.

TROUBLESHOOTING

Common Problems

- Contaminated air such as a dirty air system or water in the system.
- Using the wrong size tool for the job.
- Poor maintenance practices, such as using excessive air pressure or air volume.
- Improper or no lubrications.

Air Pressure And Volume Malfunctions

- **If the tool is not performing the specifications jobs, check the following:**
- Check the air compressor to see that it has the CFM output to support the air tool.
- Check compressor regulator settings.
- Check to see if the air transmission lines are too small.
- Check to see if the air hose is too small.
- Check to see if the hose fittings and couplings are too small.
- Refer to the catalog specifications for proper air hose size. Use hose that is just long enough to serve the working area. Excessive lengths of hose will cause a drop in pressure.

TROUBLESHOOTING

Others

Problem	Cause	Action
<ul style="list-style-type: none"> ● Tool runs slowly or not at all. Air flows only slightly from exhaust. 	<ul style="list-style-type: none"> ● Flow blocked by accumulation of dirt. ● Motor parts jammed with dirt particles. ● Power regulator may have simply vibrated to a closed position. 	<ul style="list-style-type: none"> ● Check air inlet strainer for blockage. ● Pour liberal amount of air tool oil in air inlet. ● Operate tool in short bursts-quick reversing rotation back and forth. ● Repeat as needed. ● If this fail to improve performance, tool should be serviced by an authorized service center.

Problem	Cause	Action
<ul style="list-style-type: none"> ● Tool will not run. ● Exhaust air flows freely. 	<ul style="list-style-type: none"> ● One or more motor vanes stuck due to sludge or varnish build-up. ● Motor jammed due to rust. 	<ul style="list-style-type: none"> ● Pour liberal amount of air tool oil in air inlet. ● Operate throttle in short bursts of forward and reverse rotation. ● Tap motor housing lightly with plastic mallet. ● Disconnect air supply then attempt to free motor by rotating drive. ● If tool remains jammed, it should be serviced by an authorized service center.

TROUBLESHOOTING

Problem	Cause	Action
<ul style="list-style-type: none"> ● Sockets will not stay on 	<ul style="list-style-type: none"> ● Worn socket retainer ring or soft back-up ring. 	<ul style="list-style-type: none"> ● Wear safety glasses. ● Disconnect air supply. ● Using external retaining ring pliers, expand old retaining ring and remove, OR if retaining ring pliers are not available, clamp tool “lightly” in soft jaw vice. ● Holding square drive with appropriate open-end wrench, pry old retainer ring out of groove with small screwdriver. ● Always pry off ring away from your body-it can be propelled outward at high velocity. ● Replace back-up “O” ring and retainer ring with correct new parts. (See parts list that accompanied tool). ● Place retaining ring on table, press tool shank into ring in a rocking motion. Snap into groove by hand.

TROUBLESHOOTING

Problem	Cause	Action
<ul style="list-style-type: none"> ● Premature shank wear 	<ul style="list-style-type: none"> ● Use of chrome sockets or excessively worn sockets. ● Recommended Action. ● Discontinue use of chrome socket. Remember that chrome sockets have a hard surface and relatively soft core. ● Drive hole will become rounded-but still be very hard. Besides the danger of splitting, they will wear out wrench shanks prematurely. 	<p>OIL LUBED</p> <ul style="list-style-type: none"> ● Check for presence of clutch oil (where oil is specified for clutch) and (a) removing oil fill plug. (b) tilt to drain all oil from clutch, (c) refill with 30 weight SAE oil or that recommended by manufacture, but only the amount specified. ● Check for excess clutch oil. Overfilling can cause drag on high speed clutch parts. A typical 1/2" oil-lubed wrench requires only 1/2 ounce of clutch oil. <p>GREASED LUBED</p> <ul style="list-style-type: none"> ● Check for excess grease by rotating drive shank by hand. It should turn freely. Excess is usually expelled automatically. ● If disassembly is required for greasing, it should be done carefully to maintain orientation of mating parts.
<ul style="list-style-type: none"> ● Tool gradually losing power but still runs at full free speed 	<ul style="list-style-type: none"> ● Clutch parts worn, perhaps due to lack of lubricant. ● Engaging cam of clutch worn or sticking due to lack of lubricant. 	

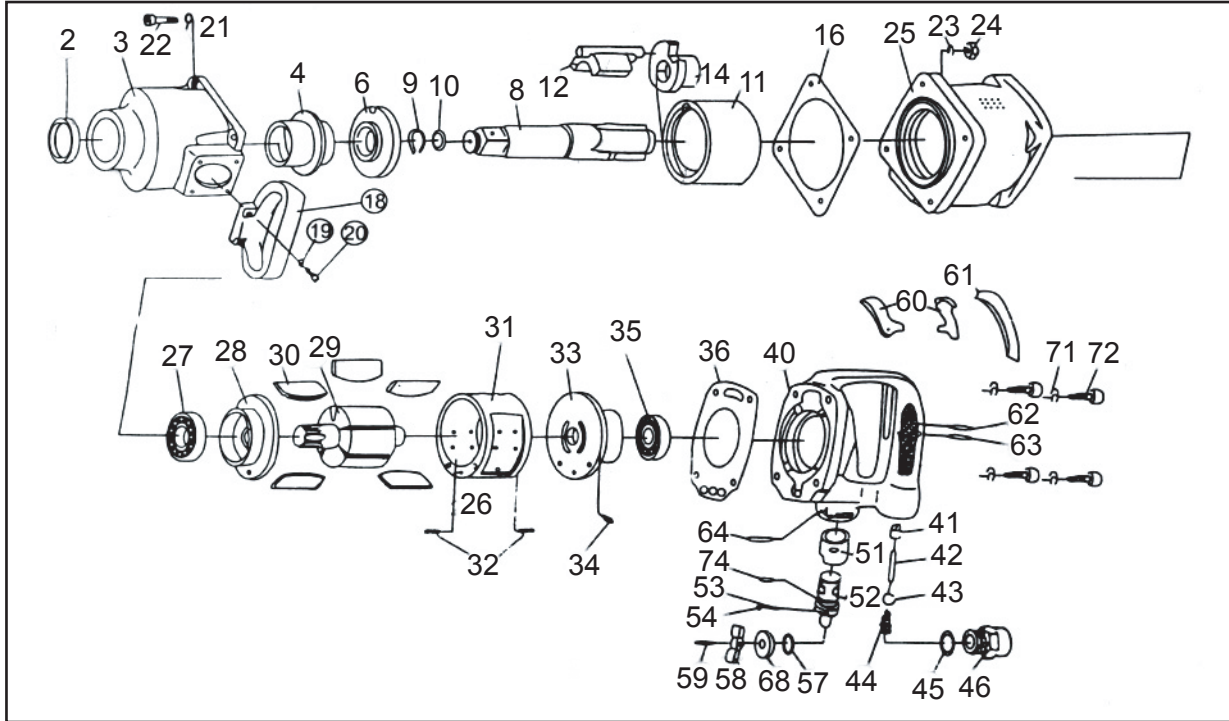
TROUBLESHOOTING

Problem	Cause	Action
<ul style="list-style-type: none">● Tool will not shut off	<ul style="list-style-type: none">● Throttle valve “O” ring broken or out of position.● Throttle valve stem bent or jammed with dirt particles.	<ul style="list-style-type: none">● Remove assembly and install new “O” ring.● Lubricate with air tool oil and operate trigger briskly. If operation cannot be restored tool should be checked by an authorized service center. <p>NOTE: Vibration and heat usually indicate insufficient grease in the clutch chamber. The average greasing interval is specified in the parts list. Sever operating conditions may require more frequent lubrication.</p>

MAINTENANCE

- Use a light oil containing rust inhibitors, such as SAE # 5W or SAE # 10W.
- Use a grease that is highly water resistant for the front case components on air impact wrenches, grinders, and sanders.

EXPLODED DIAGRAM & PARTS LIST



PARTS NO	NAME OF PARTS	PER SET	PART CODE
2			040525VB
3A	Hammer Case Assembly (No.2-No.1)		2285511
3	Hammer Case	1	22855370
4	Hammer Case Bushing	1	23225420
6	Side Plate	1	22855160
8A	Anvil Assembly (No.8-No.10)		2400312
8	Anvil (8")	1	22855A20
8A	2" Anvil Assembly (No.8- No.10)		2400212
8	2" Anvil (for 400SA-2)	1	22856A20
9	Retainer Ring	1	23225470
10	O-Ring	1	001400JR
11	Hammer Frame	1	22855D00
12	Pin Hammer	1	22855D20
14	Driver	1	22855C30
16	Hammer Case Packing	1	22855350
18	D-Handle	1	10325C10
19	Spring Washer (for D-Handle)	4	006000SW
20	Hex. Cap Bolt (for D-Handle)	4	0016160CB
21	Spring Washer	4	006000SEW
22	Hex. Cap Bolt	4	006300CB
25A	Motor Case Assembly (No.23- No.36)		2400A2
25	Motor Case	1	22855461

EXPLODED DIAGRAM & PARTS LIST

26	Helisen	4	008100DN
27	Ball Bearing	1	06205Z00
28	Front End Plate	1	23225040
29	Rotor	1	22855490
30	Vane	6	23225500
31A	Cylinder Assembly (No.31.No.32)		2285523
31	Cylinder	1	22855190
32	Spring Pin	2	060180SP
33A	Rear End Plate Assembly (No.33.No.34)		2325522
33	Rear End Plate	1	23225050
34		1	040100SP
35	Ball Bearing	1	06204000
36	Motor Case Packing	1	22855351
40A	Outside Lever Frame Handle Assembly (No.40- No.60.No.62- No.74)		2322Q3
40A	Inside Lever Frame Handle Assembly (No.40- No.74)		2322R3
40	Frame Handle	1	23265D40
41	Throttle Bushing	1	10325422
42	Throttle Pin	1	23255280
43	Throttle Valve	1	002010GB
44	Throttle Spring	1	23215230
45	O-Ring	1	002000PR
46	Inter Bushing	1	23215422
51	Valve Bushing	1	23255420
52	Adjust Valve	1	23265010
53	Spring	1	20191230
54	Steel Ball	1	00400USB
57	O-Ring	1	001600PR
58	Reverse Lever	1	24005E20
59	Spring Pin	1	03016USP
60	Outside Lever	1	10325180
	Inside Lever	1	23215180
61	Rubber (for Inside Lever)	1	23215A90
62	Spring Pin	1	040260SP
63	Needle Pin	1	040218NK
64	Spring Pin	1	0400300SP
68	Valve Washer	1	23265510
71	Spring Washer	4	008000SW
72	Hex. Cap Bolt	4	008250CB
74	Spring Pin	1	03008USP