Please carefully read and save these instructions before attempting to assemble, maintain, install, or operate this product. Observe all safety information to protect yourself and others. Failure to observe the instructions may result in property damage and/or personal injury. Please keep instructions for future reference.

Important Operating Instructions

8 Gallon Air Compressor

Model: **44039**

1-YEAR LIMITED WARRANTY
FOR NON-COMMERCIAL USE

STOP

DO NOT RETURN THIS PRODUCT TO THE RETAILER!

Replacement parts:

Replacement parts for this tool are available at our authorized services centers across the USA. For servicing, contact us at the email address or 800# below. Please be prepared to provide the model# located below the pump on the product (directly above the UPC code) and purchase date along with your proof of purchase. Please use the 4 digit number listed in the parts breakdown diagram for all parts orders (where applicable).

CALIFORNIA PROPOSITION 65

WARNING: You can create dust when you cut, sand, drill or grind materials such as wood,paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

WARNING: This product or its power cord may contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

Breathable Air Warning:

This compressor/pump is not equipped and should not be used "as is" to supply breathing quality air. For any application of air for human consumption, the air compressor/pump will need to be fitted with suitable in-line safety and alarm equipment. This additional equipment is necessary to properly filter and purify the air to meet minimal specifications for Grade D breathing as described in Compressed Gas Association Commodity Specification G 7.1 - 1966, OSHA 29 CFR 1910. 134, and/or Canadian Standards Associations (CSA).

Important Safety Instructions

RISK OF EXPLOSION OR FIRE:

It is normal for electrical contacts within the motor and pressure switch to spark. Always operate the compressor in a well ventilated area free of combustible materials such as gasoline and solvent vapors. If spraying flammable materials, place the compressor at least 20 feet away from the spray area (an additional length of hose may be required).

If electrical sparks from the compressor come in contact with flammable vapors, they may ignite, causing fire or explosion. Covering any of the compressor ventilation openings will cause serious overheating and possibly fire.

For warranty purchases, please keep your dated proof of purchase. File or attach to the manual for safekeeping.

Store flammable materials in a secure location away from the compressor. Never place objects against or on top of the compressor. Operate compressor in an open area at least 12 inches away from any wall or obstruction that would restrict the flow or fresh air to the ventilation openings. Operate compressor in a clean, dry and well ventilated area. Do not operate compressor indoors in a confined area.

Unattended operation of this compressor could result in personal injury or property damage. Always remain with the compressor when it is operating.

RISK OF BURSTING

Failure to properly drain condensed water from the tank can cause rust and thinning of the tank. Drain tank daily or after every use. If the tank develops a leak, replace tank or get a new air compressor. Never drill into, weld or make any modifications to the tank or its attachments. Never make any unauthorized modifications to the unloader valve, safety valve or any other components which control tank pressure.The tank is designed to withstand specific operating pressures. Never make any adjustments or parts substitutions to alter the factory set operating pressures.

Excessive vibration can weaken the air tank and cause rupture or explosion. Exceeding the operating pressure of air tools can cause them to explode. For essential control of air pressure, you must regulate the air using an air regulator (or install one if not provided) on the air outlet.

RISK OF BURNS

Touching exposed metal such as the compressor head or outlet tubes can result in serious burns. Never touch any exposed metal parts or compressor during or immediately after operation. The compressor will remain hot for several minutes after use. Do not touch areas around protective shrouds or attempt maintenance until the compressor has cooled down completely.

RISK OF PROPERTY DAMAGE WHEN TRANSPORTING

Oil can leak or spill and could result in fire or breathing hazards, serious injury , or death. Oil leaks will damage carpet, paint or other surfaces in vehicles or trailers. Always place compressor on a protective mat when transporting to protect against damage to vehicle from leaks. Remove compressor from vehicle immediately upon arrival.

AIR COMPRESSOR SPECIFICATIONS AND ELECTRICAL INFORMATION

Specifications:

Voltage……120V

Peak Horsepower……1.5

Amperage……13A

RPM (no load speed) ……3200

Phase ……..Single

Hertz……60Hz

Max operating pressure 125psi

POWER SUPPLY

WARNING: YOUR COMPRESSOR MUST BE CONNECTED TO A 120V BRANCH CIRCUIT WITH A MINIMUM 15-AMP. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE

GROUNDING

Your compressor must be properly grounded. Not all outlets are properly grounded and if you are unsure if your outlet is or not, contact a qualified electrician.

WARNING: NOT PROPERLY GROUNDING THIS COMPRESSOR CAN CAUSE ELECTRICAL SHOCK, ESPECIALLY WHEN USED IN DAMP LOCATIONS. IF THE POWER CORD IS WORN OR DAMACED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY TO AVOID SHOCK OR FIRE.

If this compressor malfunctions or breaks down, grounding provides a path of least resistance for the electric current and reduces the risk of shock. This cut-off is equipped with a cord that has a grounding conductor and plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

TO MAINTAIN PROPER GROUNDING, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MATTER.

120V OPERATION

Your compressor is ready to run using a 120V electrical supply straight from the factory. This machine is intended for use on a circuit that has an outlet and a plug which looks like the one illustrated in Fig.1.

WARNING: Do not use a two-prong adaptor, they are not in accordance with local codes and ordinances. Never use in Canada.

EXTENSION CORDS

The use of any extension cord will cause some loss of power. IT IS RECOMMENDED TO USE A LONGER AIR HOSE INSTEAD OF AN EXTENSION CORD. If you do not have a choice, use the table in Fig.2 to determine the minimum wire size (A.W.G. - American Wire Gauge) extension cord. Use only 3-wire extension cords that have 3-prong grounding type plugs and 2-hole receptors.

For circuits that are further away from the electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the compressor motor. Refer to Fig. 2 for wire length and size.

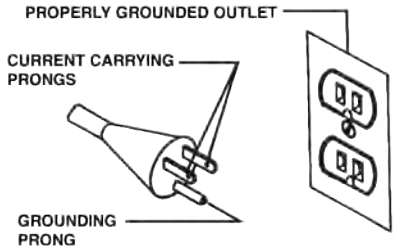


FIGURE 1

LENGTH OF CONDUCTOR	WIRE SIZES REQUIRED (AMERICAN WIRE GAUGE) 120V LINES
0-25 FEET	NO.12
26-50 FEET	NO.12
51-100 FEET	NO.10

FIGURE 2

AIR COMPRESSOR PUMP To compress air, the piston moves up and down in the cylinder. On the down stroke, air is drawn in through the intake valves. The exhaust valves remain closed. On the upstroke of the piston, air is compressed. The intake valves close and compressed air is forced out through the exhaust valves.

COOLING SYSTEM
This compressor contains an advanced cooling fan. The cooling fan is working when air is being expelled.

CHECK VALVE (A) FIG.3
When the air compressor is operating, the check valve is 'open', allowing compressed air to enter the air tank. When the air compressor reaches 'cut-out' pressure, the check valve 'closes', allowing pressurized air to remain inside the air tank.

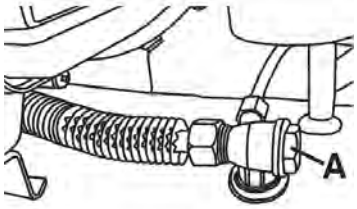


FIGURE 3

DRAIN VALVE (A) FIG.4
The drain valve is located at the bottom center of the air tank and is used to drain condensation from the tank at the end of each use. Turn valve clockwise to drain condensation.

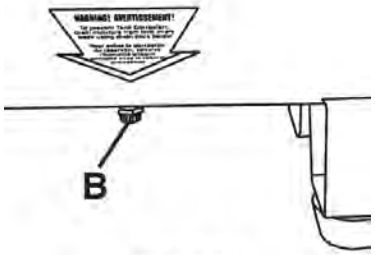


FIGURE 4

ON/AUTO-OFF SWITCH (C) FIG.5
Turn this switch ON to provide power to the automatic pressure switch and OFF to remove power at the end of each use.

PRESSURE SWITCH (D) FIG.5
The pressure switch automatically starts the motor when the tank pressure drops below the factory set 'cut-in' pressure. It also stops the motor when the air tank pressure reaches the factory set 'cut-out' or maximum pressure.

REGULATOR (E & F) FIG.5
The air pressure coming from the air tank is controlled by the regulator (E). To unlock the regulator, turn the regulator lock rink (F) counterclockwise and then turn the regulator clockwise to increase pressure and counterclockwise to decrease pressure, tighten the regulator lock rink to relock it into position. To avoid minor readjustment after making a change in the pressure setting, always approach the desired pressure from a lower pressure. When reducing from a higher to a lower setting, first reduce the pressure less than that desired, then bring it up to the desired pressure. Depending on the air requirements of each particular accessory, the outlet regulated air pressure may have to be adjusted while operating the accessory. This process may require expelling air from the air outlet, hose, tool, or accessory.

OUTLET PRESSURE GAUGE(G) FIG.5
The outlet pressure gauge indicates the air pressure available at the outlet side of the regulator. The pressure is controlled by the regulator and is always less than or equal to the tank pressure.

TANK PRESSURE GAUGE (H) FIG. 5. The tank pressure gauge indicates the air pressure in the tank.

SAFETY VALVE (I) FIG. 5. If the pressure switch does not shut off the air compressor at its cutout pressure setting, this safety valve will protect against high pressure by popping out at its factory set pressure (slightly higher than the pressure switch cut-out setting).

WARNING!: If the safety valve does not work properly, over pressurization may occur, causing air tank rupture or an explosion. Daily pull the ring on the safety valve to make sure that the safety valve operates freely. If the valve is stuck or does not operate smoothly, it must be replaced with the same type of valve.

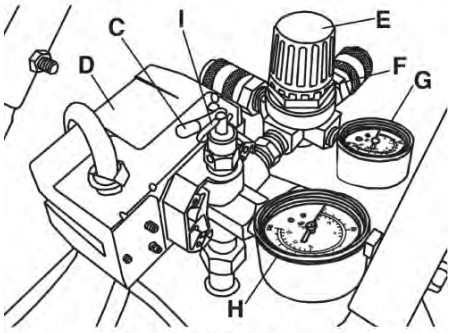


FIGURE 5

MOTOR THERMAL OVERLOAD PROTECTOR (RESET (J) FIG. 6). The electric motor has an automatic thermal overload protector. If the motor overheats for any reason, the thermal overload protector will shut off the motor. The motor must be allowed to cool before restarting. Press the reset button (J) after 15 minutes.

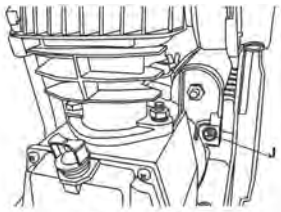


FIGURE 6

MOTOR THERMAL OVERLOAD PROTECTOR (RESET (J) FIG. 6). The electric motor has an automatic thermal overload protector. If the motor overheats for any reason, the thermal overload protector will shut off the motor. The motor must be allowed to cool before restarting. Press the reset button (J) after 15 minutes.

ASSEMBLY AND LOCATION OF THE AIR COMPRESSOR
Your compressor requires some assembly. Install intake filter (A) Fig.7 to the cylinder cover. Remove plastic cap and install the oil breather cap (B) to the crankcase cover. Install both wheels (C) using the large hex. bolts, spring washers and hex. nuts supplied. Then install the 2 rubber feet (D) using the small hex. bolts, washers, spring washers and hex. nuts. Install handle (E) and the storage compartment (not shown) to the tank using hex. bolts, washers, spring washers and hex. nuts. where applicable.

Operate the air compressor in a cool, dry, clean and well ventilated area. The air compressor pump and case are designed to allow for proper cooling. Clean or blow off dust or dirt that collects on the air compressor. A clean air

compressor runs cooler and provides longer service. The ventilation openings on your air compressor are necessary to maintain proper operating temperature. Do not place rags or other containers on or near these openings.

ADDITIONAL REGULATORS AND CONTROLS

Since the air tank pressure is usually greater than that which is needed, a regulator is employed to control the air pressure ahead of any individual driven device. Separate air transformers which combine the function of air regulation, moisture and dirt removal should be used where applicable.

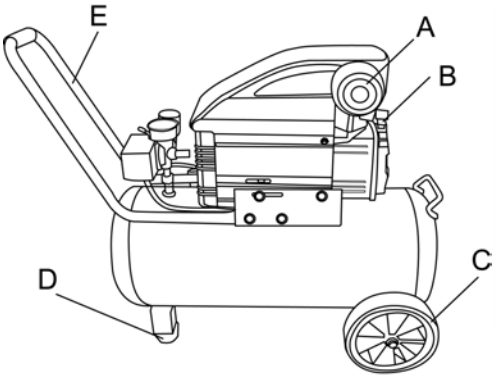


FIGURE 7

BREAK-IN PROCEDURES

NOTE: MAKE SURE THAT YOU HAVE FILLED THE CRANKCASE WITH COMPRESSOR OIL UP TO THE CENTER DOT OF THE OIL LEVEL AS DESCRIBED IN THE MAINTENANCE SECTION AND THAT ALL ASSEMBLY INSTRUCTIONS ABOVE HAVE BEEN FOLLOWED BEFORE DOING THE FOLLOWING BREAK-IN PROCEDURES. **SERIOUS DAMAGE MAY RESULT IF THE FOLLOWING BREAK-IN INSTRUCTIONS ARE NOT CLOSELY FOLLOWED. THIS PROCEDURE IS REQUIRED BEFORE THE AIR COMPRESSOR IS PUT INTO SERVICE, OR AFTER REPLACING THE CHECK VALVE, AND WHEN THE PISTON OR THE CYLINDER SLEEVE IS REPLACED.**

A. Set the pressure switch to the OFF position.

B. Plug the power cord into the correct branch circuit receptacle. C. Turn the drain valve (B) Fig. 4 clockwise, opening it fully, to prevent air pressure build-up in the tank.

D. Move the pressure switch to ON/AUTO. The compressor will start.

E. Run the compressor for 15 minutes. Make sure the drain valve is open and there is no tank pressure build-up.

F. After 15 minutes, close the drain valve by turning the knob. The air receiver will fill to cut-out pressure and the motor will stop. The air compressor is now ready for use.

OPERATING PROCEDURES

Preparation for use:

1. Before attaching air hose or accessories, make sure the OFF/AUTO is set to OFF and the air regulator is closed.

2. Attach hose and accessories.

WARNING: Too much air pressure causes a hazardous risk of bursting. Check the manufacturer's maximum pressure rating for air tools and accessories. The regulator outlet pressure must never exceed the maximum pressure rating of the tool being used.

3. Turn the OFF/AUTO to ON and allow tank pressure to build. Motor will stop when tank pressure reaches cut-out pressure.

4. Open the regulator by turning lock ring to unlock it and then turning the regulator clockwise. Adjust the regulator to the correct pressure setting.The compressor is ready for use.

5. Always operate the air compressor in well ventilated areas; free of gasoline or other solvent vapors. Do not operate the compressor near a spray gun operating area.

After Use:

6. Set the switch to OFF.

7. Lift then turn the regulator button counterclockwise to set the outlet pressure to zero and finally push the button down again to lock in place.

8. Remove the air tool or accessory.

9. Pull ring on safety valve (I) Fig. 5, allowing air to bleed from the tank until tank pressure is approximately 20psi. Release safety valve ring.

10. Drain water from air tank. Turn drain valve (B) Fig. 4, clockwise to open.

WARNING!: WATER WILL CONDENSE IN THE AIR TANK. IF NOT DRAINED WATER WILL CORRODE AND WEAKEN THE AIR TANK CAUSING A RISK OF AIR TANK RUPTURE

NOTE: If drain valve is plugged, pull ring on safety valve (I) Fig. 5, and hold until air pressure has been released. The valve can then be removed, cleaned, and reinstalled.

ALL ADJUSTMENTS OR REPAIRS MUST BE DONE WITH THE COMPRESSOR DISCONNECTED FROM THE POWER SOURCE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY.

MAINTENANCE

Before doing any maintenance or adjustments to your air compressor, the following safety precautions should be taken:

- Disconnect electrical power.

-Drain air tank of pressure.

Daily or before each use

1. With the compressor on a relatively level surface, check oil level. Oil level should be centered with the red dot.

2. Drain condensation from tank.

3. Check for any unusual noise or vibration.

4. Be sure all nuts and bolts are tight.

Monthly

1. Inspect air system for leaks by applying soapy water to all joints. Tighten those joints if leakage is observed.

250 hours of use or six months (which ever comes first)

1. Change compressor oil. See following instructions.

2. Replace oil more often if compressor is used near paint spraying operations or in dusty environments.

CHANGING OIL

To change oil, oil must be drained from the crankcase by removing oil sight glass (A) Fig.8. Drain oil into a small receptacle and replace oil sight glass. To fill the crank case with oil, first unscrew and remove oil breather cap (B), **pour approximately 300ml of air compressor oil (SAE 10W30 or SAE 10W20 non detergent oil)** into crankcase oil opening (C) until the oil level reaches the center red dot on the oil sight glass. Retighten oil breather cap (B).

KEEP TOOL CLEAN

Periodically blow out all air passages with dry compressed air. Clean all plastic parts with a soft damp cloth. NEVER use solvents to clean plastic parts. They could possibly dissolve or otherwise damage the material.

CAUTION: Wear safety glasses while using compressed air.

FAILURE TO START

If your compressor fails to start, check to make sure the plug is properly connected to the outlet. Also, check for blown fuses or open circuit breakers in the line. If using an extension cord, try using a longer air hose instead and try restarting the compressor.

STORAGE

1. Set the OFF/AUTO button to OFF

2.Lift and turn the regulator counterclockwise to set the outlet pressure to zero.

3. Remove the air tool or accessory .

4. Pull ring on safety valve (I) Fig. 5, allowing air to bleed from the tank, until tank pressure is approximately 20psi. Release safety valve ring.

5. Drain water from air tank. Turn drain valve (B) Fig. 4, clockwise, to open.

NOTE: If drain valve is plugged, pull ring on safety valve (I) Fig. 5, and hold until air pressure has been released. The valve can then be removed, cleaned, and reinstalled

6. After the water has been completely drained, turn drain valve to close. The air compressor can now be stored.

7. Protect the electrical cord and air hose from damage by winding them loosely around the air compressor.

8. Store the air compressor in a clean and dry location.

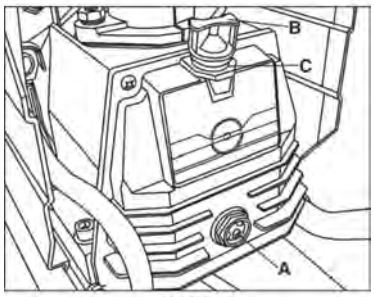


FIGURE 8

Troubleshooting Guide

Symptom	Possible Cause(s)	Corrective Action
Not starting	-Fuse blown or circuit breaker tripped -Loose electrical connections -Overheated motor	-Check voltage, eliminate extension cord or reset -Check wiring connections -Press the reset button or wait for automatic reset (15 minutes)
Low pressure	-Air leak in safety valve -Restricted air filter -Defective check valve	-Check valve manually by pulling upwards on ring. If condition persists replace valve -Clean or replace as necessary -Replace check valve
Safety valve releasing	-Defective pressure switch or improper adjustment	-Check for proper adjustment and if problem persists, replace pressure switch
Oil discharge in air	-Improper oil viscosity -Too much oil in crankcase -Compressor overheated -Restricted air filter	-Replace oil with SAE 10W30 or SAE 10W20 non detergent oil (300ML) -Drain crankcase and fill to proper level -Air pressure regulated too high - Replace filter

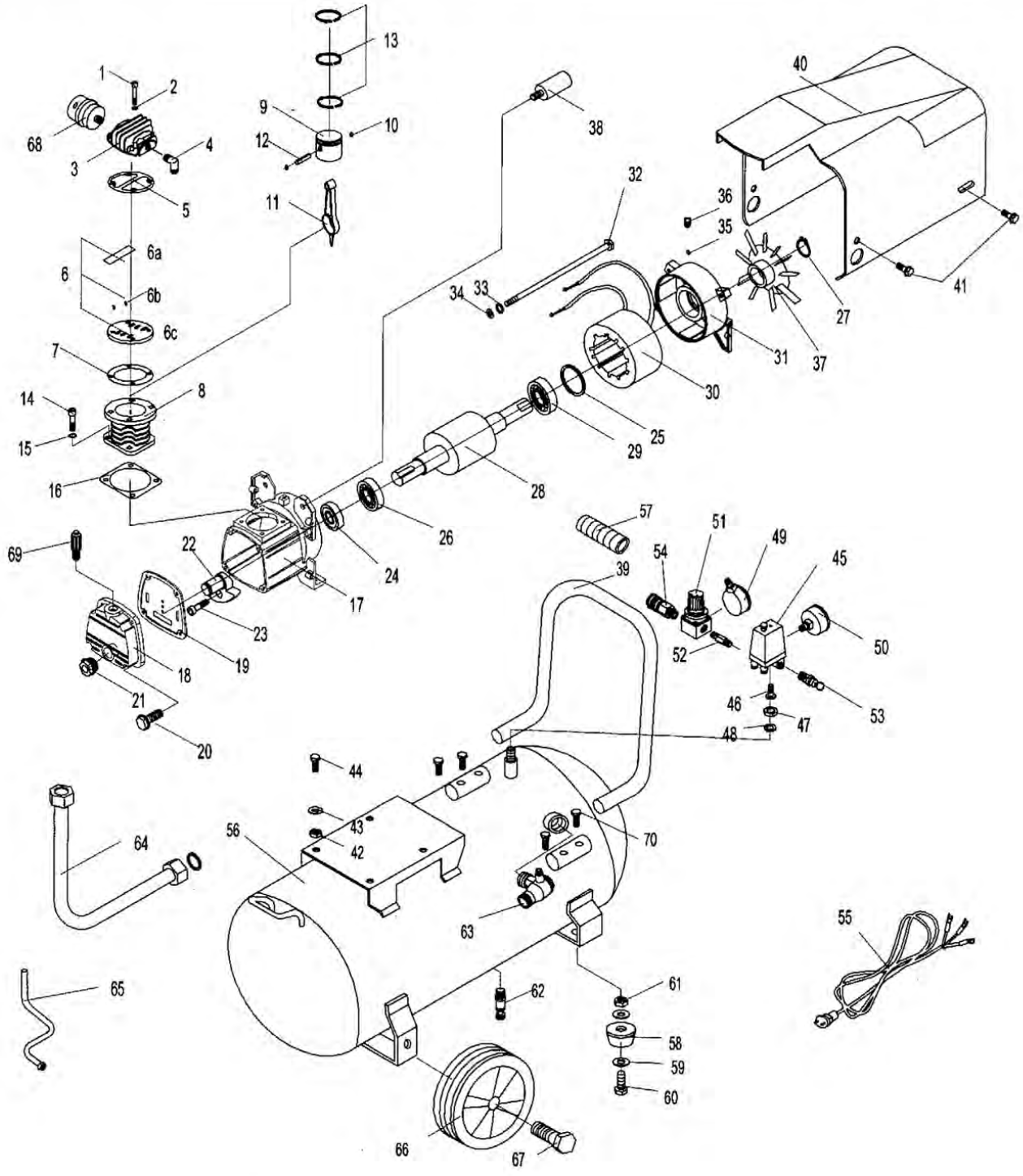
Limited Manufacturer Warranty

North American Tool Industries (NATI) makes every effort to ensure that this product meets high quality and durability standards. NATI warrants to the original retail consumer a 1-year limited warranty from the date the product was purchased at retail and each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, or accidents, repairs or alterations, or a lack of maintenance. NAT shall in no event be liable for death, injuries to persons or property, or for incidental, special, or consequential damages arising from the use of our products. To receive service under warranty, the original manufacturer part must be returned for examination by an authorized service center. Shipping and handling charges may apply. If a defect is found, NATI will either repair or replace the product at its discretion.

DO NOT RETURN TO STORE

For Customer Service:
Email: feedback@natitools.com or Call 1-800-348-5004

Parts List


1
2
3
4
5
6
6a
6b
6c
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70

Call 1-800-348-5004 for assistance or replacement parts

Please provide the following information:

- *Model number*
- *Part description and number as shown in parts list*
- *Serial number (if any)*

Address any correspondence to:

North American Tool Industries
84 Commercial Rd
Huntington, IN 46750

#	Description	QTY.	#	Description	QTY.
1	Socket Hex Screw	4	35	Lock Washer	1
2	Spring Washer	4	36	Earthling Mark	1
3	Cylinder Cover	1	37	Motor Fan (axial)	1
4	Elbow	1	38	Running Capacitor	1
5	Gasket of Cylinder Cover	1	39	Handle (U-Profile)	1
6	Reed Valve Assembly	1	40	Motor Cover	1
6a	Spring Plate	1	41	Hex Flange Screw	4
6b	Pin	2	42	Lock Nut	4
6c	Valve Plate	1	43	Plain Washer	4
7	Top Gasket of Cylinder	1	44	Socket Hex Screw	4
8	Cylinder	1	45	Pressure Switch	1
9	Piston	1	46	Nipple of Pressure Switch	1
10	Circlip for Hole	2	47	Nut of Pressure Switch	1
11	Rod	1	48	Gasket of pressure Switch	1
12	Piston Pin	1	49	Pressure Gauge Radial - 40	1
13	Piston Ring Assembly	1	50	Pressure Gauge Axial - 50	1
14	Socket Hex Screw	2	51	Regulating Valve Assembly	1
15	Spring Washer	2	52	Switch Nipple	1
16	Bottom Gasket of Cylinder	1	53	Safety Valve (1/4" NPT)	1
17	Crank Case	1	54	Quick Coupler (Female)	1
18	Cover of Crank Case	1	55	Power Cable with Plug (UL)	1
19	Gasket of Crank Case	1	56	Tank	1
20	Hex Flange Screw	4	57	Sleeve of Handle	1
21	Oil Gauge	1	58	Rubber Foot	2
22	Crank Shaft	1	59	Plain Washer	4
23	Socket Hex Screw	1	60	Hex Screw	2
24	Shaft Lip Seal	1	61	Nut	2
25	Wave Spring Washer	1	62	Drain Valve	1
26	Bearing	1	63	Check Valve	1
27	Circlet for Shaft	1	64	Air Delivery Pipe	1
28	Rotor	1	65	Release Pipe	AR
29	Bearing	1	66	Wheel	2
30	Stator	4	67	Axle	2
31	Rear Bracket	1	68	Air Filter	1
32	Hex Screw	4	69	Breathe Nozzle	1
33	Spring Washer	4	70	Hex Screw	4
34	Plain Washer	4			

Please carefully read and save these instructions before attempting to assemble, maintain, install, or operate this product. Observe all safety information to protect yourself and others. Failure to observe the instructions may result in property damage and/or personal injury. Please keep instructions for future reference.

Important Operating Instructions

HVLP TOUCH UP SPRAY GUN

Model: 52529

DO NOT RETURN TO STORE

Please call 800-348-5004 for parts and service

CALIFORNIA PROPOSITION 65

WARNING: You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

WARNING: This product or its power cord may contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

Important!

When using equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating manual with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, give them these operating instructions as well. We accept no liability for damage or accidents which arise due to non-observance of these instructions and the safety information herein.

SPECIFICATIONS

Air Inlet: 1/4 inch NPT

Avg. Air Consumption: 9 CFM

Max Air Pressure: 45 PSI

FEATURES

- Adjustable fan size
- The durable caps are made of brass (not aluminum)
- Lightweight, durable die-cast alloy gun body
- For use with lacquer, enamel, stain, primer, and urethane
- Designed for all your small jobs and touch up needs

CAUTION:

FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL COMPLETELY AND CAREFULLY BEFORE OPERATING THIS HVLP TOUCH UP SPRAY GUN.

Any failures made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

SAFETY INSTRUCTIONS

Keep work area clean and well lit. Cluttered, dim work areas invite accidents.

Observe work area conditions. Do not use the tool in the presence of flames or flammable liquids, gases, or dust.

Keep children away. Do not let them handle machines, tools, extension cords, or air hoses.

Store idle equipment. When not in use, the tool should be stored in a safe, dry location out of the reach of children.

Use the right tool for the job. Do not attempt to force a tool or attachment to do a job that it was not intended to do.

For warranty purchases, please keep your dated proof of purchase. File or attach to the manual for safekeeping.

The tool will do the job better and safer at the rate at which it was 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. Contain long hair.

Do not overreach. Keep proper footing and balance at all times. Do not reach over or across running tools or air hoses.

Disconnect air hoses and release any built-up pressure. Never service or disassemble the air sander with the air hose attached. Always release any built-up air even after disconnecting the hose. Disconnect the air sander when not in use.

Avoid unintentional starting. Be sure the trigger is in the OFF position before connecting the air supply. Do not carry the tool with your finger on the trigger, whether it is attached to the air source or not.

Stay alert. Watch what you are doing and use common sense when operating this tool. Do not use this tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating this tool increases the risk of injury.

Use clean, dry, regulated, compressed air at 90 PSI.

Never use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.

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. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Do not use the tool if the trigger does not operate properly.

Replacement parts and accessories. This product is to be serviced by a qualified technician. When servicing, use only identical replacement parts. Only use accessories intended for use with this tool. Use of any other parts will void the warranty.

Maintenance. For your safety, this product should be serviced or repaired regularly by a qualified technician.

Do not operate the spray gun near open flames, pilot lights, heaters, or any other heat source. Make sure you have adequate ventilation. Most solvents and paints are extremely flammable, especially when sprayed. Never smoke cigarettes in the same room you are working in.

Read labels on cleaning solvents and paint coatings.

Chlorinated solvents such as 111-Trichlorethane and Methylene Chloride (also known as methyl-chloride) can chemically react with aluminum and may explode. Many paint sprayers contain aluminum. Contact solvent manufacturer or paint supplier if you are in doubt.

Paints and solvents may be harmful or fatal if swallowed or inhaled. Always use a respirator when spraying. Avoid prolonged skin contact with solvents or paints as they will irritate skin. After contact, immediately wash off exposed area with hot, soapy water.

Check all spray gun seals and connections. Before use, make sure the lid is fully tightened on the cup, ensure that the screws and nuts are correctly tightened, and make sure the air hose is securely fastened and does not leak.

WARNING

Never point the paint gun at yourself or any other person or animal. Solvents and diluting agents can cause burns.

WARNING

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

OPERATING INSTRUCTIONS

OPERATION

WARNING

Check to see that all nuts and bolts are tight. Always disconnect the unit from the air supply before carrying out any repair work.

1. Mount the nozzle set tightly. Align the air nozzle so that the number stamped on it can be read from the right way round.

2. Blow out the air hose before attaching it to the air connection. (Air hose pressure-resistant up to a minimum 10 bar and solvent-resistant. Total electric resistance less than 100 million Ohm.)

3. The paint spray gun has been treated with an anticorrosive agent before leaving the factory and must therefore be flushed out thoroughly with thinner before use.

ADJUSTING THE AIR VOLUME

The air supply can be regulated to suit all operational conditions. When the air adjustment valve is in the vertical position (parallel to the gun body), you get maximum atomization. When the air adjustment valve is in the horizontal position (across gun body), you will achieve minimum atomization.

WARNING

During operation, never remove the fluid control valve.

REDUCING THE MATERIAL VOLUME

The volume of material flowing from the nozzle and thus the needle stroke can be reduced easily by screwing in the material-volume regulation screw.

CHANGING THE NOZZLE SET

Always change the complete nozzle set whenever changing the nozzle size. The components, which consists of the air cap, fluid nozzle, and paint needle, are supplied as a complete set. Insert the paint nozzle before the paint needle.

EXCHANGE THE AIR PISTON AND PISTON PACKING

To replace the air piston, remove the hollow screw and detach the air adjustment valve. Pull out the spring and air piston. Exchange the air piston. Unscrew the stuffing box screw and remove the old packing. Insert new packing with the flat end first, and gently tighten the stuffing box screw towards the packing.

CLEANING AND MAINTENANCE

1. Flush the material-conveying parts of the gun thoroughly with thinner.

2. Clean the air nozzle with a paintbrush. Do not immerse the nozzle in thinner.

3. Under no circumstance try to clean the clogged openings using an unsuitable tool, since the slightest amount of damage adversely affects the spray pattern.

Troubleshooting Guide

Symptom	Possible Cause(s)	Corrective Action
Gun leaks from fluid tip	Foreign substances between fluid tip and needle preventing sealing	Clean the fluid needle and fluid nozzle with thinner or use a new set of nozzles.
Paint merges from fluid needle - needle sealing	Self tensioning needle sealing damaged or lost	Replace needle sealing
Spray pattern in sickle shape 	Horn air hose or air circuit clogged	Soak in thinner, then clean the nozzle and needle
Drop like or oval shaped pattern 	Dirt on fluid pin tip or air outlet	Turn air nozzle 180 degrees. If defective pattern remains, clean fluid tip pin and air circuit
Paint spray flutters 	Too little material in cup	Refill material
	Fluid nozzle not tight self-adjusting	Tighten parts
	Needle sealing damaged	Replace needle sealing
	Nozzle set dirty or damaged	Clean or replace, as needed
Material bubbles or “boils” in paint cup	Atomization air flows through the paint channel to the cup. The paint nozzle is not sufficiently tightened. Air nozzle is not completely screwed on. The air net is clogged and the seal is defective or the nozzle insert is damaged	Tighten parts accordingly, clean or replace

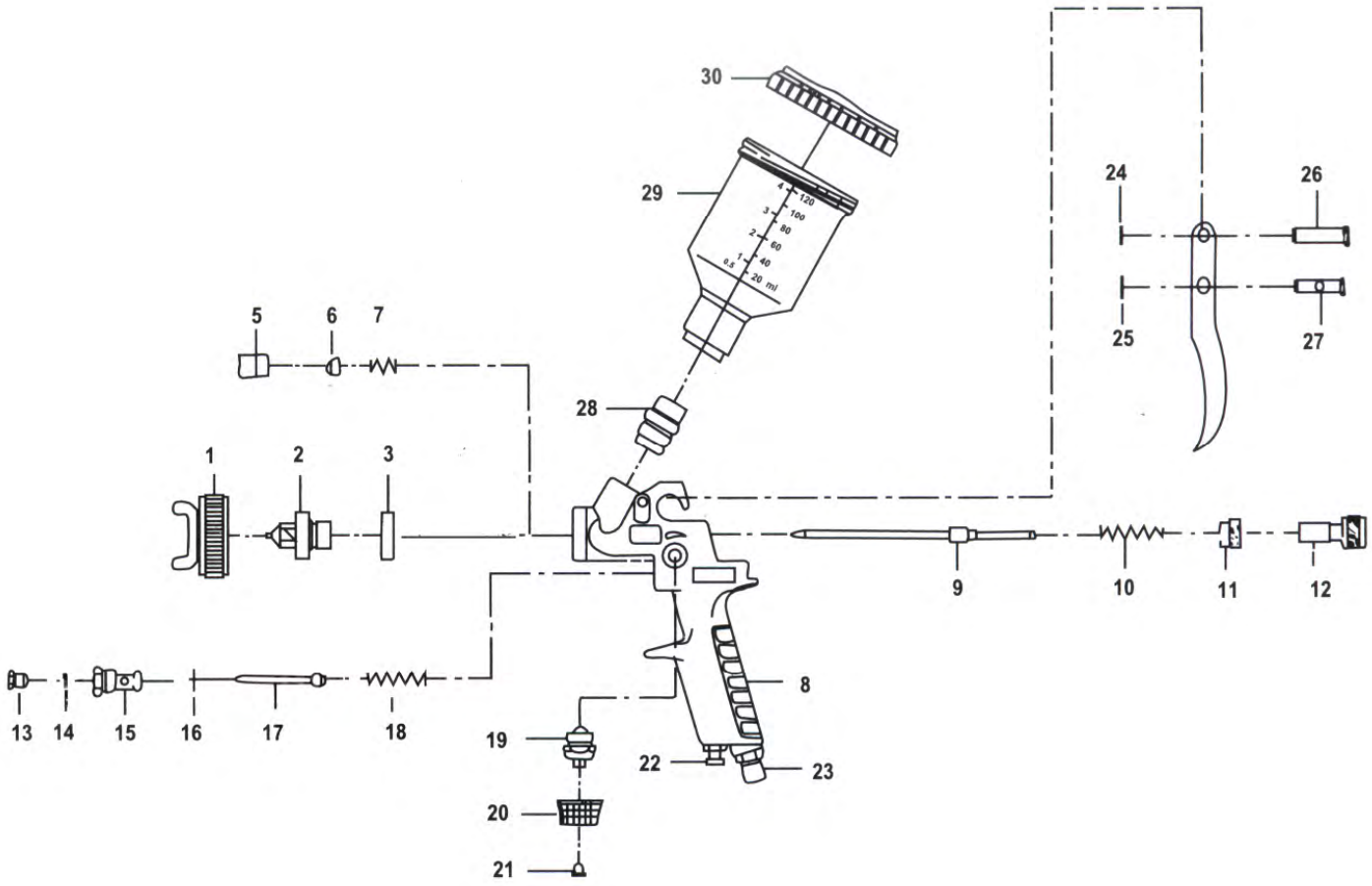
Limited Manufacturer Warranty

North American Tool Industries (NATI) makes every effort to ensure that this product meets high quality and durability standards. NATI warrants to the original retail consumer a 1-year limited warranty from the date the product was purchased at retail and each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, or accidents, repairs or alterations, or a lack of maintenance. NAT shall in no event be liable for death, injuries to persons or property, or for incidental, special, or consequential damages arising from the use of our products. To receive service under warranty, the original manufacturer part must be returned for examination by an authorized service center. Shipping and handling charges may apply. If a defect is found, NATI will either repair or replace the product at its discretion.

DO NOT RETURN TO STORE

For Customer Service:
Email: feedback@natitools.com or Call 1-800-348-5004

Parts List


30
29
28
5
6
7
1
2
3
24
26
25
27
9
10
11
12
13
14
15
16
17
18
19
22
23
8
20
21

Call 1-800-348-5004 for assistance or replacement parts

Please provide the following information:

- *Model number*
- *Part description and number as shown in parts list*
- *Serial number (if any)*

Address any correspondence to:

North American Tool Industries
84 Commercial Rd
Huntington, IN 46750

No.	Description
1	Air Nozzle w/ Brass Cap
2	Fluid Nozzle
3	Piston Ring
5	Compression Screw
6	Sealing for Air Piston
7	Compression Spring for Needle Seal
8	Gun Body
9	Fluid Needle
10	Spring for Paint Needle
11	Screw Nut
12	Fluid Control Knob
13	Stuffing Box for Air Piston
14	Packing for Air Piston
15	Air Switch Valve
16	Piston Ring

No.	Description
17	Air Piston Complete
18	Spring for Air Piston
19	Spindle Complete
20	Control Knob
21	Counter Sunk Screw
22	Air Adjust Valve Assembly
23	Air Correction Piece R 1/4 inch
24	Locking Plate
25	Locking Plate
26	Bolt
27	Trigger Sleeve
28	Paint Connection
29	Plastic Cup
30	Cover

Please carefully read and save these instructions before attempting to assemble, maintain, install, or operate this product. Observe all safety information to protect yourself and others. Failure to observe the instructions may result in property damage and/or personal injury. Please keep instructions for future reference.

Important Operating Instructions

3/8 INCH AIR RATCHET WRENCH

CALIFORNIA PROPOSITION 65

WARNING: You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

WARNING: This product or its power cord may contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

Important!

When using equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating manual with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, give them these operating instructions as well. We accept no liability for damage or accidents which arise due to non-observance of these instructions and the safety information herein.

SPECIFICATIONS

Free Speed: 150 RPM
Size: 3/8 inch
Working Pressure: 90 PSI
Air Consumption: 4 CFM @ 90 PSI
Maximum Torque: 50 ft/lb
Air Inlet: ¼ inch
Recommended Hose Size: 3/8”
Square Driver: 3/8”

The air ratchet is a pneumatic portable tool. The expected use it to screw and unscrew nuts, bolts an threaded screws.

CAUTION: Read all safety regulations and instructions

Any failures made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

Keep all safety regulations and instructions in a safe place for future use.

SAFETY INSTRUCTIONS

1) Keep work area clean and well lit.

2) Use caution when operating this tool.

3) Stay alert while operating the tool. Do not use while under the influence of drugs or alcohol.

4) Do not use the tool in wet or explosive environments, especially near flame, flammable materials or surfaces.

5) Check the tool carefully before each use. Do not use if problems are found.

6) Dress properly. Do not wear loose clothing or jewelry. Keep long hair pulled back.

7) Do not overreach when using this tool. Keep proper footing and balance at all times.

8) Use safety equipment. Wear eye protection, dust mask, safety shoes, hardhat and/or hearing protection in appropriate situations.

For warranty purchases, please keep your dated proof of purchase. File or attach to the manual for safekeeping.

9) Use clamps or other practical way to secure and support the piece a stable platform. Holding the work piece against your body or by hand is unstable and may lead to a loss of control.

10) Do not force the tool; use the correct tool for the application. The correct tool will allow the job to be completed in a better and safer way.

11) Disconnect the tool from the air compressor before making any adjustments, changing the accessories or storing the tool.

12) Maintain tools with care. Check for misalignment or binding of moving parts and for any other condition that may affect the tool's operation.

13) Some accessories suitable for one tool may not be suitable for use on another. Check to make sure that all accessories to be used are suitable.

14) Tool service may only be performed by qualified repair personnel.

15) Never touch the moving parts of the air tool.

16) Do not attempt to use the tool dismounted.

17) Do not attempt to modify or tamper with the tool.

18) Do not touch electrically live parts with the tool.

USE

1) Remove the top that is covering the air intake valve and screw the nozzle into the clutch.

2) Put a few drops of lubricant oil (make sure it is without resin acid) in the air intake valve.

3) Check for damage to the air supply tube. If it is damaged, broken or deformed, do not connect it to the tool and use it.

4) Make sure the working pressure does not exceed 90 PSI. Pressures higher than 90 PSI can cause excessive damage and wear to the tool.

5) When connecting the air supply tube to the tool, do not push the lever.

CONNECTING TOOLS

1) Disconnect the air tube before connecting or disconnecting the accessories.

2) Choose the head that matches the shape and size needed.

3) Push the head onto the square drive.

4) To remove the head, pull it with force.

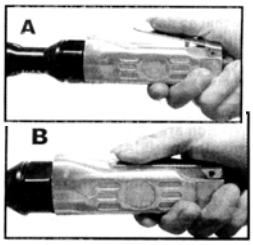
TURNING TOOL ON/OFF

1) After the sleeve and flexible tube are connected hold the air ratchet by the gun grip.

2) Push frontward with the thumb to release the safety lock and then push the lever to start the tool rotation.

3) The start lever is a hold-to-run control. When pressure is released, the tool stops rotating.

4) To turn off the ratchet, release the start lever.



Maintenance

1) Make sure to disconnect the tool from the air line before any cleaning or maintenance is performed.

2) A general cleaning is necessary to remove dregs, dust or dirt accumulation on the tool.

3) Do not use organic solvents because they may cause corrosion and fading. Never use paint thinner, gasoline or a similar substance to clean the nozzle.

4) Lubricate all rotating parts of the tool by inserting oil through the nozzle. Make sure the tool is disconnected from the air tube, put the tool in a vertical position with the nozzle upwards and place a few drops of oil in the nozzle. Be sure to use suitable air tool oil.

Storage

Avoid storing the tool in locations with high humidity because it may cause the tool to rust on the inside. Before storing for long periods of time, oil the tool at the air inlet and allow it to run for a few seconds.

Disposal

When the tool is seriously damaged or no longer functioning, recycle it according to local laws and regulations.

Replacement Parts

Contact North American Tool Industries (NATI) directly for all replacement parts and service needs. When ordering, be sure to have the spare part number and tool model #.

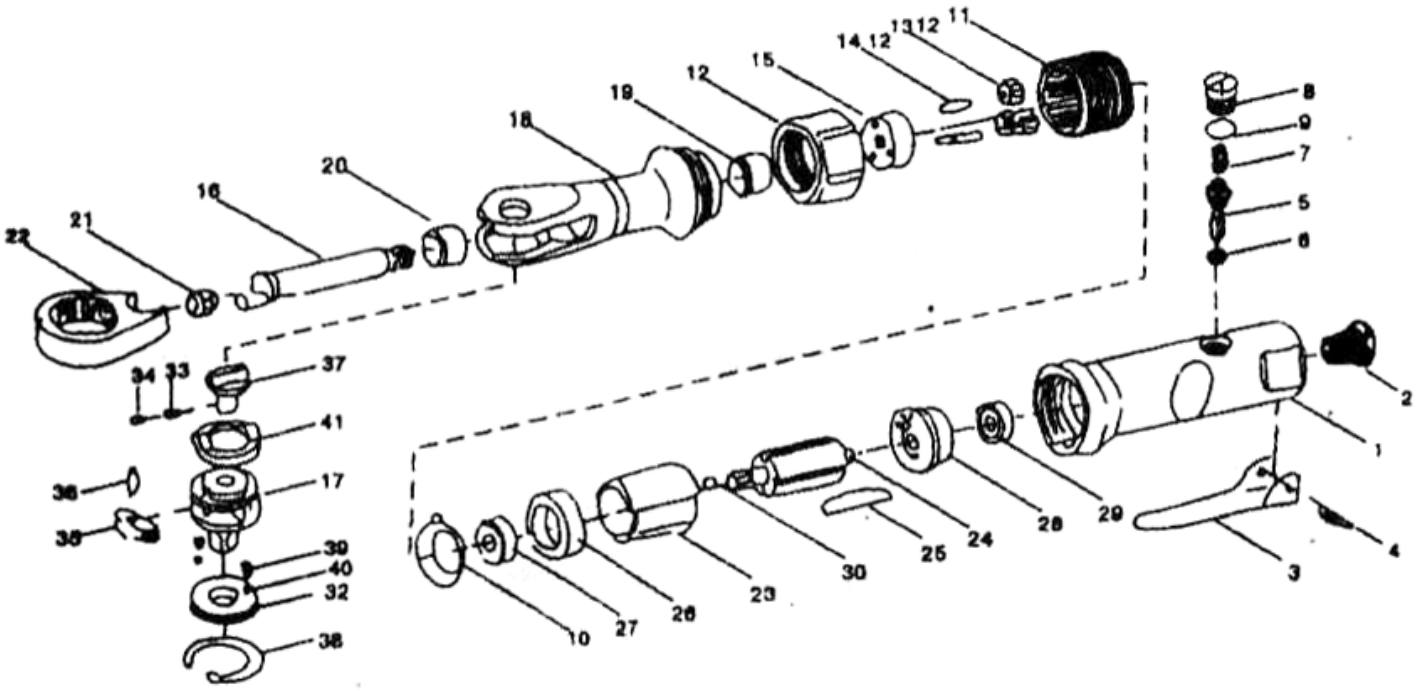
Limited Manufacturer Warranty

North American Tool Industries (NATI) makes every effort to ensure that this product meets high quality and durability standards. NATI warrants to the original retail consumer a 1-year limited warranty from the date the product was purchased at retail and each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, or accidents, repairs or alterations, or a lack of maintenance. NAT shall in no event be liable for death, injuries to persons or property, or for incidental, special, or consequential damages arising from the use of our products. To receive service under warranty, the original manufacturer part must be returned for examination by an authorized service center. Shipping and handling charges may apply. If a defect is found, NATI will either repair or replace the product at its discretion.

DO NOT RETURN TO STORE

For Customer Service:
Email: feedback@natitools.com or Call 1-800-348-5004

Parts List


11
12
13
14
15
12
19
18
20
16
21
22
8
9
7
5
6
2
1
4
3
29
28
24
25
30
23
26
27
10
37
34
33
41
17
36
35
39
40
32
38

Call 1-800-348-5004 for assistance or replacement parts

Please provide the following information:

- *Model number*
- *Part description and number as shown in parts list*
- *Serial number (if any)*

Address any correspondence to:

North American Tool Industries
84 Commercial Rd
Huntington, IN 46750

No.	Description	Quantity
1	Housing	1
2	Connection Head	1
3	Trigger	1
4	Roll Pin	1
5	Valve	1
6	O-Ring	1
7	Spring	1
8	Valve Plug	1
9	O-Ring	1
10	Washer	1
11	Thread Ring Gear	1
12	Clamp Nut	1
13	Idler Gear	3
14	Idler Gear Pin	3
15	Idler Gear Plate	1
16	Crank Shaft	1
17	Ratchet Anvil	1
18	Ratchet Housing	1
19	Bushing	1
20	Bushing	1
21	Drive Bushing	1

No.	Description	Quantity
22	Ratchet Yoke	1
23	Cylinder	1
24	Rotor	1
25	Rotor Blade	1
26	Front Plate	1
27	Front Bearing	1
28	Real Plate	1
29	Real Bearing	1
30	Cylinder Pin	1
31	Thrust Washer (3/8in.)	1
32	Thrust Washer (1/2in.)	1
33	Spring	1
34	Lock Pin	1
35	Ratchet Pawl	1
36	Pin	1
37	Reverse Button	1
38	Retainer Ring	1
39	Spring	1
40	Steel Ball	1
41	Washer	1

Please carefully read and save these instructions before attempting to assemble, maintain, install, or operate this product. Observe all safety information to protect yourself and others. Failure to observe the instructions may result in property damage and/or personal injury. Please keep instructions for future reference.

Important Operating Instructions

1/2 INCH AIR IMPACT WRENCH

CALIFORNIA PROPOSITION 65

WARNING: You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

WARNING: This product or its power cord may contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

Important!

When using equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating manual with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, give them these operating instructions as well. We accept no liability for damage or accidents which arise due to non-observance of these instructions and the safety information herein.

SPECIFICATIONS

Free Speed: 7,000 RPM
Air Consumption: 4 cubic feet
Maximum Torque: 230 ft/lb
Air Inlet: 1/4 inch
Clutch Type: Rocking dog

This air impact wrench is a pneumatic portable tool used to screw and unscrew nuts, bolts, and threaded screws by changing the high impact sockets.

CAUTION: Read all safety regulations and instructions

Any failures made in following the safety instructions may result in an electric shock, fire, and/or serious injury.

Keep all safety instructions and guidelines in a safe place for future use.

SAFETY INSTRUCTIONS

1) Keep the work area clean and well lit.

2) Use caution while operating this tool.

3) Stay alert while operating the tool. Do not use it while under the influence of drugs or alcohol.

4) Do not use the tool in wet or explosive environments, especially near flame, flammable materials, or surfaces.

5) Only use compressed air to run this tool. Do not use any other air sources.

6) Check the tool carefully before each use. Do not use if problems are found.

7) Dress properly. Do not wear loose clothing or jewelry. Keep long hair pulled back.

8) Do not overreach when

For warranty purchases, please keep your dated proof of purchase. File or attach to the manual for safekeeping.

using this tool. Keep proper footing and balance at all times.

9) Use safety equipment. Always wear eye protection, dust mask, safety shoes, hardhat, and/or hearing protection in appropriate situations.

10) Use clamps or other practical ways to secure and support the piece to a stable platform. Holding the work piece against your body or by hand is unstable and may cause loss of control.

11) Do not force the tool. Use the correct tool for the application. The correct tool will allow the job to be completed in a better and safer way.

12) Disconnect the tool from the air compressor before making any adjustments, changing the accessories, or storing the tool.

13) Do not change sockets with the air line connected or with the trigger depressed.

14) Carry the tool by the handle. Do not carry by the air hose or with the trigger depressed because it could cause the tool to start.

15) Maintain tools with care. Check for misalignment or binding of moving parts and for any other condition that may affect the tool's operation.

16) Do not attempt to use the tool when unplugged from the air source.

17) Do not attempt to modify or tamper with the tool.

SET UP

1) Remove the cap from the air intake valve and screw in the 1/4 inch nozzle.

2) Place a few drops of lubricant oil inside the air intake valve.

3) Check for damages to the air hose. If it is damaged or worn, do not use it.

USE

Caution: Do not exceed 90 PSI. Exceeding this amount can cause damage and excessive wear of the tool.

Disconnect the air hose before connecting or disconnecting the high impact socket.

DO NOT use sockets other than high impact sockets.

1) Choose the appropriate size and socket.

2) Push the socket hole onto the square driver. If an extension is needed, insert it between the square driver and the socket.

3) Connect the air supply line to the impact wrench.

4) To change the direction of the rotation, push the pin towards the F to screw clockwise (in) and R to screw counter-clockwise (unscrew).

5) To change the rotation speed, turn the knob at the base of the tool handle. 1 is the minimum speed and 4 is the maximum.

6) Press the trigger to start the impact wrench. It will turn off when the trigger is released.

7) Unplug the air supply line when finished with the impact wrench.

MAINTENANCE

Make sure to disconnect the tool from the air supply line before any cleaning or maintenance is performed.

Place a few drops of lubricating oil into the air supply area at the base of the handle before operation. Also be sure to clean the wrench after operation.

A general cleaning is necessary to remove dregs, dust, or dirt accumulation on the tool.

Do not use solvents because they may cause corrosion and fading. Never use paint thinner, gasoline or a similar substance to clean the nozzle.

Lubricate all rotating parts of the tool by daily inserting a few drops of lubricating oil through the air hose fitting. Make sure the air hose is disconnected, put the tool in a vertical position with the fitting facing upwards and then place a few drops inside fitting.

STORAGE

Disconnect the wrench from the air source before storing.

Avoid storing the tool in locations with high humidity because it may cause the tool to rust on the inside. Before storing for long periods of time, oil the tool at the air inlet and allow it to run for a few seconds.

DISPOSAL

When the tool is seriously damaged or no longer functioning, recycle it according to local laws and regulations.

REPLACEMENT PARTS

Contact North American Tool Industries (NATI) directly for all replacement parts and service needs. When ordering, be sure to have the spare part number and tool model number.

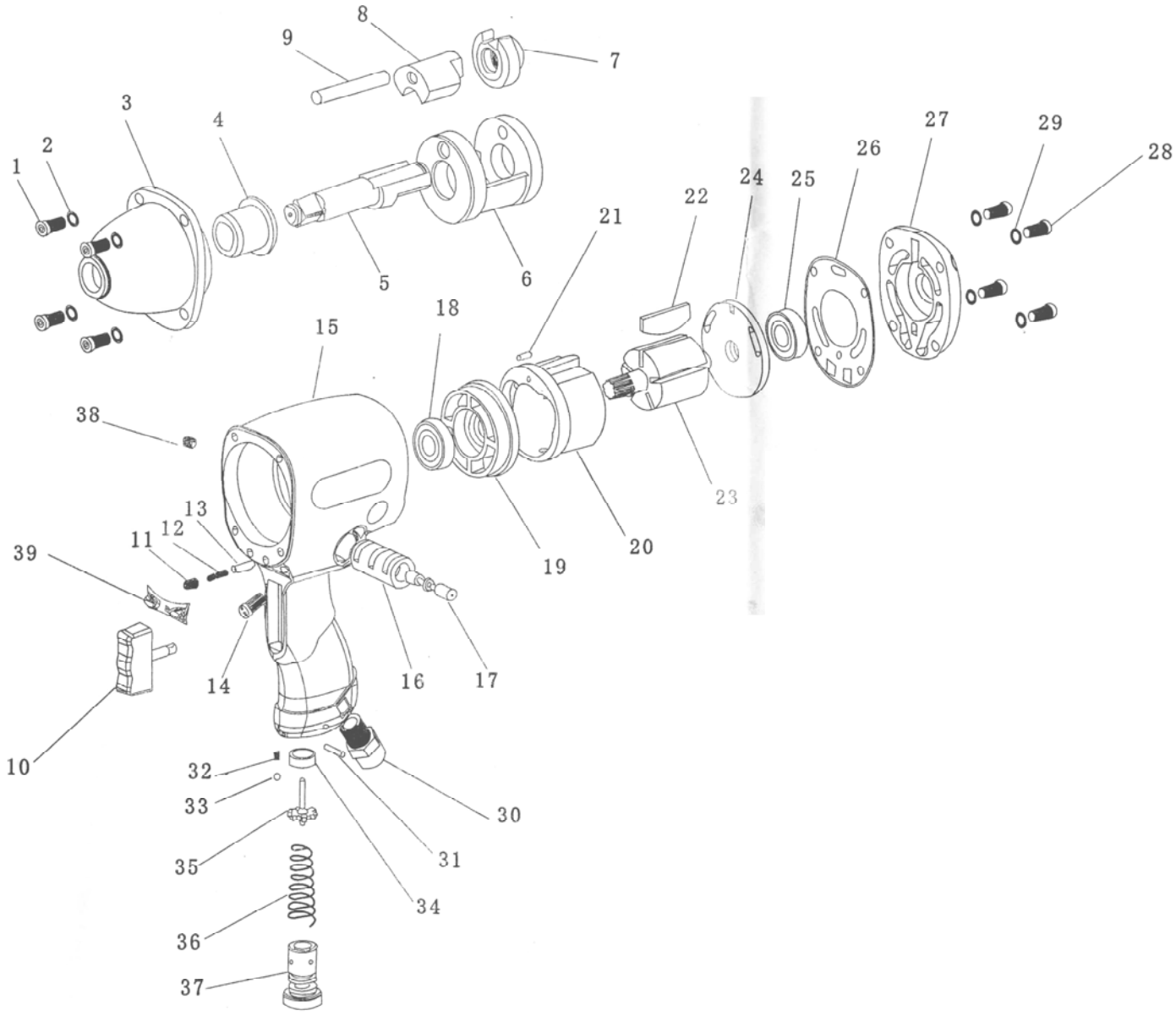
Limited Manufacturer Warranty

North American Tool Industries (NATI) makes every effort to ensure that this product meets high quality and durability standards. NATI warrants to the original retail consumer a 1-year limited warranty from the date the product was purchased at retail and each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, or accidents, repairs or alterations, or a lack of maintenance. NAT shall in no event be liable for death, injuries to persons or property, or for incidental, special, or consequential damages arising from the use of our products. To receive service under warranty, the original manufacturer part must be returned for examination by an authorized service center. Shipping and handling charges may apply. If a defect is found, NATI will either repair or replace the product at its discretion.

DO NOT RETURN TO STORE

For Customer Service:
Email: feedback@natitools.com or Call 1-800-348-5004

Parts List


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39

Call 1-800-348-5004 for assistance or replacement parts

Please provide the following information:

- *Model number*
- *Part description and number as shown in parts list*
- *Serial number (if any)*

Address any correspondence to:

North American Tool Industries
84 Commercial Rd
Huntington, IN 46750

No.	Description	Quantity
1	Cap Screw	4
2	Spring Washer	4
3	Protecting Rubber	1
4	Anvil Collar	1
5	Anvil	1
6	Hammer Cage	1
7	Drive Cam	1
8	Hammer Dog	1
9	Hammer Pin	1
10	Trigger	1
11	Oiling Screw	1
12	Spring	2
13	Pin	1
14	Cap Screw	1
15	Motor Housing	1
16	Valve Sleeve	1
17	Reverse Valve	1
18	Ball Bearing	1
19	Front End Plate	1
20	Cylinder	1

No.	Description	Quantity
21	Spring Pin	1
22	Rotor Blade	1
23	Rotor	1
24	Rear End Plate	1
25	Ball Bearing	1
26	Rear Gasket	1
27	Rear Cover	1
28	Cap Screw	4
29	Spring Washer	4
30	Air Inlet Bushing	1
31	Pin	1
32	Spring	1
33	Steel Ball	1
34	Throttle Bushing	1
35	Valve Stem	1
36	Spring	1
37	Air Regulator	1
38	Oiling Screw	1
39	Exhaust Collector	1