PROFESSIONAL AIR TOULS



THIS INSTRUCTION
MANUAL CONTAINS
IMPORTANT SAFETY
INFORMATION

READ CAREFULLY AND

UNDERSTAND

ALL INFORMATION

BEFORE OPERATING

THIS TOOL!

SAVE THIS MANUAL FOR FUTURE REFERENCE.

1/2" DRIVE SUPER DUTY
IMPACT
WRENCH

6-749

AWARNING!

FAILURE TO OBSERVE THESE WARNINGS COULD RESULT IN INJURY.

THIS INSTRUCTION MANUAL CON-TAINS IMPORTANT SAFETY INFORMATION.



READ THIS INSTRUC-TION MANUAL CARE-FULLY AND UNDER-STAND ALL INFORMA-TION <u>BEFORE</u> OPERAT-

ING 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 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.

 Air powered tools can vibrate in use. Vibration, repetitive motions or uncom-

fortable 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 re-

suming use.

- Place the tool on the work before starting the tool. Do not point or indulge in any horseplay with this tool.
- Slipping, tripping and 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

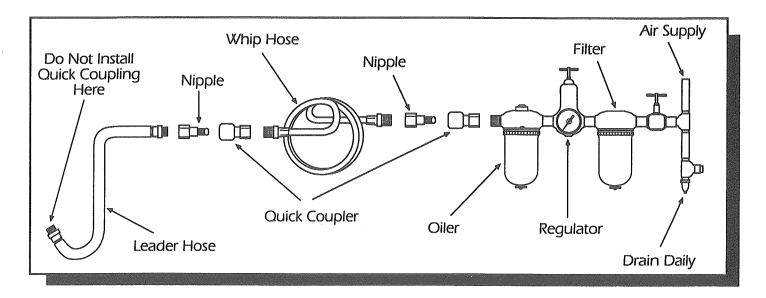
or loose clothing. Secure long hair. Scalping can occur if hair is not kept away from tool and accessories.

Choking can occur if eckwear is not kept away from

neckwear is not kept away from tool and accessories.

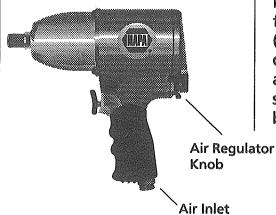
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
- Impact wrenches are not torque control devices. Fasteners with specific torque requirements must be checked with suitable torque measuring devices after installation with an impact wrench.
- Use only impact wrench sockets and accessories on this tool. Do not use hand sockets and accessories.
- Don't force tool beyond its rated capacity.
- Do not remove any labels. Replace any damaged labels.
- Use accessories recommended by NAPA Professional Air Tools.

AIR SUPPLY



Tools of this class operate on a wide range of air pressures. It is recommended that air pressure of these tools measure 90 PSI at the tool while running free. Low pressure (under 90 psig; 6/2bar) reduces the speed of all air tools. Low air pressure not only wastes time, but also costs money. Higher pressure (over 90 psig; 6/2 bar) raises performance beyond the rated capacity of the tool which will shorten the tool's life because of faster wear and could cause injury.

Always use clean, dry air.
Dust, corrosive fumes and/or
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 hookup procedure can be viewed in the above figure.

The air inlet 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 and be tightly secured.

LUBRICATION

Lubricate the air motor daily with NAPA 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 or into the hose at the

nearest connection to the air supply, then run the tool. The oil plug is ONLY for adding standard SAE 10 or 20 grade oil after repair or maintenance of the impact mechanism. The

amount of oil to be used is 1 ounce. Overfilling will cause a reduction in the power of the tool.

OPERATION

The air regulator knob can be used as an air throttle in the forward position, if there are no other means of regulating air. Turn the air regulator knob all the way to forward position #3 for maximum power.

The air regulator can be used to adjust torque to the approximate tightness of a known fastener.

(W)

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 1/2" 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.

Air

Knob

Valve

Air Inlet

Regulator

Reversing

(MPA

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 turned to the right, to "F", the tool is in a forward or right hand rotation. When the valve is turned to the left, to "R", 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.

oil *SPECIFICATIONS*I break

Drive 1/2*
Torque Range 25-350 ft./lbs
Max. Torque 600 ft./lbs.
Overall Length 7.72"
Net Wt 5.95 Lbs.
Avg. Air Cons 4 CFM
Air Inlet 1/4" NPT
Min. Hose Size 3/8" ID
Rec. Air Pressure 90 PSIG
Free Speed 7,000 RPM
Sound Level 87.5 dBA

TROUBLESHOOTING

IMPACT WRENCHES

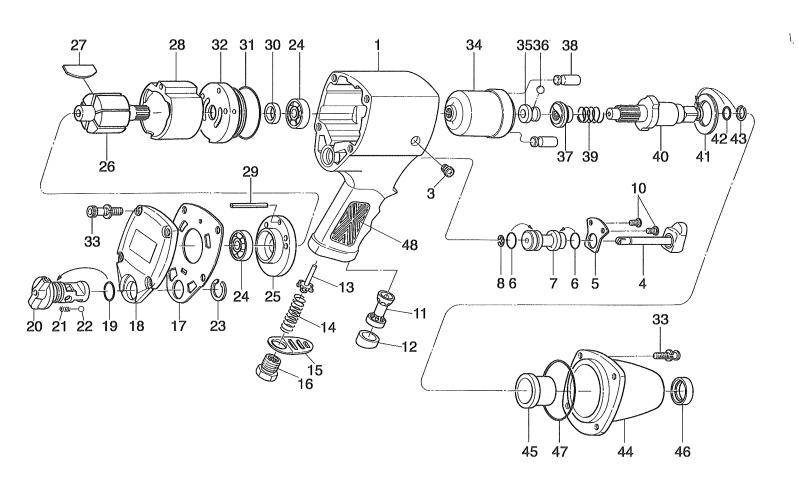
- TOOL RUNS SLOWLY OR NOT AT ALL AND/OR AIR FLOWS ONLY SLIGHTLY FROM EXHAUST This is probably caused by: air flow blocked by dirt build-up; motor parts jammed with dirt; power regulator has vibrated to closed position.
- YOU SHOULD: Check air inlet strainer for blockage. Pour a generous amount of air tool oil into air inlet. Operate tool in short bursts, in both forward and reverse motion. Repeat if necessary. If tool performance is not improved, it should be serviced at an authorized service center.
- TOOL WILL NOT RUN, EXHAUST AIR FLOWS FREELY. This is probably caused by one or more motor vanes stuck due to accumulation of sludge or varnish; motor rusted.
- YOU SHOULD: Pour a generous amount of air tool oil into air inlet. Operate tool in short bursts, in both forward and reverse motion. Lightly tap motor housing with plastic mallet. Detach air supply. Try to free motor by turning drive shank manually, if possible. If tool remains jammed, it should be serviced at authorized service center.
- SOCKETS WILL NOT STAY ON. This is probably caused by: worn socket retainer ring or soft back-up ring.
- YOU SHOULD: Wear safety goggles. Detach air supply. Using external retaining ring pliers, remove old retaining ring. Holding square drive with appropriate open-end wrench, use small screwdriver to pry old retainer ring out of groove. 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 breakdown). Place retaining ring on table, press tool anvil into ring in a rocking motion. Snap into groove by hand.
- PREMATURE ANVIL WEAR. This is probably caused by: use of chrome sockets or worn sockets.
- YOU SHOULD: Stop using chrome sockets. Chrome sockets have a hard surface and a soft core. Drive hole becomes rounded but will still be very hard. Besides the danger of splitting, wrench anvils will wear out prematurely when used with chrome sockets.
- TOOL SLOWLY LOSES POWER BUT STILL RUNS AT FULL FREE SPEED. This is probably caused by: worn or sticking clutch parts, due to inadequate lubrication.
- YOU SHOULD: FOR OIL LUBED WRENCHES check for presence of clutch oil (where oil is specified for clutch) and remove oil fill plug; tilt to drain all oil from clutch case; refill with 30 weight SAE oil or that recommended by manufacturer, in the specified amount. Also check for excess clutch oil. Clutch cases need only be filled 50%. Overfilling can cause drag on high speed clutch parts. A typical 1/2" oil-lubed wrench only requires 1/2 ounce of clutch oil. FOR GREASE LUBED WRENCHES Check for excess grease by rotating drive shank by hand. It should turn freely. Excess is usually expelled automatically.
- TOOL WILL NOT SHUT OFF. This is probably caused by: throttle valve O-ring broken or out of position or throttle valve stem bent or jammed with dirt particles.
- YOU SHOULD: Remove assembly and install new O-ring. Lubricate with air tool oil and operate trigger briskly. If operation cannot be restored, tool should be serviced at authorized service center.

AIR RATCHETS

- MOTOR RUNS. SPINDLE DOESN'T TURN, OR TURNS ERRATICALLY This is probably caused by: worn teeth on ratchet or pawl; weak or broken pawl pressure spring; weak drag springs fail to hold spindle while pawl advances for another bite.
- YOU SHOULD: have replacement parts installed by authorized service center.
- TOOL DOESN'T RUN, RATCHET HEAD INDEXES CRISPLY BY HAND— This is probably caused by: dirt or sludge build-up in motor parts.
- YOU SHOULD: Pour a generous amount of air tool oil into air inlet. Operate throttle in short bursts. With socket engaged on bolt, alternately tighten and loosen bolt by hand. If tool remains jammed, it should be serviced at authorized service center.

NOTE

Disassembly of this tool by other than an authorized service center WILL VOID the warranty on this tool. (Continued on page 8)



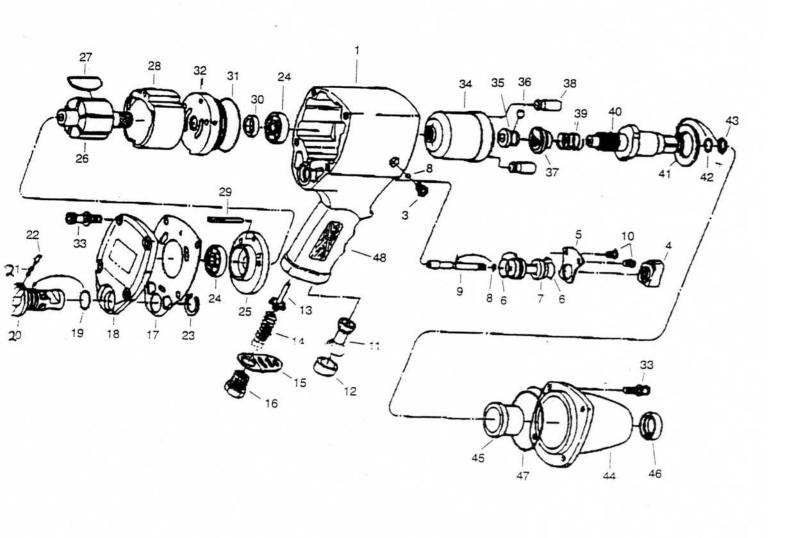
PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	700700A	Motor Housing	1
3	729739	Oil Plug	1
4	700781	Throttle Trigger Pin	1
5	700492	Stop Cover	1
6	700303	O-Ring	2
7	700782	Throttle Bushing	1
8	700736	E-Ring	1
10	700077	Screw	2
11	700495	Power Silencer	1
12	700496	Support Rubber	1
13	700361	Valve Stem	1
14	700362	Valve Spring	1
15	700525	Exhaust Deflector	1
16	700064	Hose Adaptor	1
17	700411	Gasket	1
18	700836	End Cap	1
19	700072	O-Ring	1
20	700311B	Air Regulator Reverse	1
21	700312	Spring	1
22	729902	Steel Ball	1
23	700074	CE Ring	1
24	729478	Ball Bearing	2
25	700409	Rear Plate	1
26	700748	Rotor	1
27	700747	Rotor Blade	6
28	700407	Cylinder	1
29	730032	Guide Pin	1
30	729477	Oil Seal	1
31	730036	O-Ring	1
32	700406	Front Plate	1
33	729462A	Screw with Washer	8
34	700095	Hammer Cage	1
35	572035	Cam Ball Polot	1
36	572034	Cam Ball	1
37	700096	Hammer Cam	1
38	700315	Hammer Pin	2
39	700098	Cam Release Spring	1
40	572030	Anvil - Standard	1
41	572027	Anvil Spacer	1
42	1008695	O-Ring	1
43	1013129	Socket Ring	1
44	700799	Steel Housing	1
45	700099	Anvil Bushing	1
46	730022	Oil Seal	1
47	1011084	O-Ring	1
48	700499	Handle Rubber	1
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PARTS BREAKDOWN

6-749) VERSION |



6-749 1) VETZS 10N 1

REF.	PART		
NO.	NO.	DESCRIPTION	QTY.
1	700700	Motor Housing	1
3	700309	Oil Plug	1
4	700491	Throttle Trigger	. 1
5	700492	Stop Cover	1
6	700303	O-Ring	2
7	700493	Throttle Bushing	1
8	700308	O-Ring	2
9 .	700494	Throttle Pin	1
10	700077	Screw	2
11	700495	Power Silencer	1
12	700496	Support Rubber	1
13	700361	Valve Stem	1
14	700362	Valve Spring	1
15	700525	Exhaust Deflector	1
16	700064	Hose Adaptor	1
17	700411	Gasket	1
18	700410	End Cap	1
19	700072	O-Ring	1
20	700372 700311A	Air Regulator Reverse	1
20	700317A	Spring	1
	700312	Stop Pin	1
22		CE Ring	1
23	700074	Ball Bearing	.2
24	729478	Rear Plate	1
25	700409	Rotor	1
26	700408	Rotor Blade	6
27	729913A	Cylinder	1
28	700407	Guide Pin	1
29	730032		1
30	729477	Oil Seal	1
31	730036	O-Ring	1
32	700406	Front Plate	8
33	729462A	Screw with Washer	1
34	700095	Hammer Cage	1
35	572035	Cam Ball Pilot	1
36	572034	Cam Ball	1
37	700096	Hammer Cam	2
38	700315	Hammer Pin	
39	700098	Cam Release Spring	1
40	572030	Anvil - Standard	1
41	572027	Anvil Spacer	1
42	1008695	O-Ring	1
43	1013129	Socket Ring	1
44	700497	Chrome Steel Housing	1
45	700099	Anvil Bushing	1
46	730022	Oil Seal	1
47	1011084	O-Ring	1
	700499	Handle Rubber	1

AIR DRILLS

- TOOL WILL NOT RUN, RUNS SLOWLY, AIR FLOWS SLIGHTLY FROM EXHAUST, SPINDLE TURNS FREELY This is probably caused by: air flow blocked by dirt build-up; motor parts jammed with dirt.
- YOU SHOULD: Check air inlet for blockage. Pour a generous amount of air tool oil into air inlet. Operate trigger in short bursts Detach air supply; turn empty and closed drill chuck by hand. Reconnect air supply. If tool performance is not improved, it should be serviced at an authorized service center.
- TOOL WILL NOT RUN. AIR FLOWS FREELY FROM EXHAUST. SPINDLE TURNS FREELY This is probably caused by: Build up of dirt or varnish on rotor vanes.
- YOU SHOULD: Pour a generous amount of air tool oil into air inlet. Operate trigger in short bursts Detach air supply; turn empty and closed drill chuck by hand. Reconnect air supply. If tool performance is not improved, it should be serviced at an authorized service center.
- TOOL LOCKED UP, SPINDLE WILL NOT TURN This is probably caused by: a broken motor vane; gears broken or jammed by foreign object.

YOU SHOULD: Send the tool to an authorized service center.

TOOL WILL NOT SHUT OFF — This is probably caused by: throttle valve O-ring blown off seat.

YOU SHOULD: See breakdown for part number and replace O-ring or send the tool to an authorized service center.

AIR HAMMERS

TOOL WILL NOT RUN — This is probably caused by: cycling valve or throttle valve clogged with dirt or sludge.

YOU SHOULD: Pour a generous amount of air tool oil into air inlet; check for dirt. Operate trigger in short burst (chisel in place and against solid surface). If not free, detach air supply. Tap nose or barrel lightly with plastic mallet, reconnect air supply, and repeat above steps. If still not free, detach air supply, insert a 6" piece of 1/8" diameter rod in nozzle and lightly tap to loosen piston in rear direction. Reconnect air supply and repeat above steps.

CHISEL STUCK IN NOZZLE— This is probably caused by: the end of the shank being disformed.

YOU SHOULD: Send the tool to an authorized service center.

WARRANTY POLICY: NAPA PROFESSIONAL AIR TOOLS are warranted against defects in material and workmanship for a period of one (1) year from the date of the original purchase. We will repair or replace at our option any defective part or unit which proves to be defective in material or workmanship during this one year period. All NAPA PROFESSIONAL AIR TOOLS must be repaired only by authorized NAPA PROFESSIONAL AIR TOOL Service Centers. This warranty does not cover damage to tools rising from alteration, abuse, misuse and does not cover any repairs made by anyone other than an authorized NAPA PROFESSIONAL AIR TOOL Warranty Center. Tools sent to a Warranty Center in a dissembled condition will not be covered as a warranty repair.

Return tools to Service Centers transportation prepaid. Be certain to include your name, address and phone number along with proof of purchase information, with each tool.