Owner's Manual

CRAFTSMAN

Pneumatic 1/2" Drive

IMPACT WRENCH

Model No.
875.199830

WARNING:
Before operating tool, read this manual and follow all Safety Recommendations and Operating Instructions.

- Safety
- Warranty
- Features & Operation
- Maintenance
- Español

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www.Sears.com

SAFETY INSTRUCTIONS

Read Operating Instructions
Please become familiar with all the instructions and warnings before operating any pneumatic tool.

Always Wear Approved Eye Protection
Impact resistant eye protection should meet or exceed the standards set forth in ANSI Z87.1, Occupational and Educational Eye and Face Protection. Look for marking Z87.1 on your eye protection to ensure that it is an approved style.

Hearing Protection is Recommended
Hearing protection should be used when the noise level exposure equals or exceeds an 8 hour time-weighted average sound level of 85dBA. Process noise, reflective surfaces, other tools being operated nearby, all add to the noise level in a given work area. If you are unable to determine your noise level exposure, we recommend the use of hearing protection.

Avoid Prolonged Exposure to Vibration
Pneumatic tools can vibrate during use. Prolonged exposure to vibration or very repetitive hand and arm movements can cause injury. Discontinue the use of any tool if you experience tingling, numbness, discomfort or pain in your hands or arms. You should consult your physician before resuming use of tool.

90 PSI Maximum
This tool is designed to operate at an air pressure of 90 pounds per square inch gauge pressure (90 PSI) maximum, at the tool. Use of higher air pressure can, and may cause injury. Also, the use of higher air pressure places the internal components under loads and stresses they were not designed for, causing premature tool failure.

NOTE: THE AIR SUPPLY SHOULD BE CLEAN, DRY AND PREFERABLY LUBRICATED. FOR BEST RESULTS DRAIN THE MOISTURE FROM YOUR COMPRESSOR DAILY.

Use Only Impact Sockets & Accessories
Only use sockets designated "FOR USE WITH IMPACT WRENCHES." Hand tool sockets can break, creating a hazard from flying pieces. Always check sockets, retainers and drives regularly for wear or damage and replace when necessary.

WARNING: Some dust created by using power tools contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Some examples of these chemicals are:
- Lead from lead based paint
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

⚠WARNING

Your risk from those exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specifically designed to filter out microscopic particles.

WARRANTY

FULL ONE YEAR WARRANTY ON CRAFTSMAN AIR-DRIVE TOOLS
If this Craftsman tool fails to give complete satisfaction within one year from the date of purchase, RETURN IT TO THE NEAREST SEARS STORE IN THE UNITED STATES, and Sears will repair it free of charge. If this Craftsman tool is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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FEATURES/SPECIFICATIONS

The Craftsman Model 875.1998300 1/2" Square Drive Impact Wrench is ideal for general assembly, automotive, agricultural and industrial applications.

Features

- Built-in regulator for power output adjustment.
- Pin type clutch for increased power output.
- Ring-type socket retainer allows quick socket changes.

Specifications

Drive size	1/2"
Impacts per minute	900 IPM
Free speed (No Load)	7,500 RPM
Ultimate torque	400 ft. lbs.
Weight	5.1 lbs.
Overall length	$7^{5/8}$"
Average air consumption	6.5 CFM
Recommended hose size	3/8" I.D.
Air inlet	1/4" NPT
Maximum Air Pressure	90 PSI

INSTALLATION / PRE-OP

Pre-Operation

Before the tool is connected to the air supply, clear the air hose of accumulated dust and moisture by running air freely through the air hose for 5-10 seconds. Before removing a tool for service or changing sockets, make sure the air line is shut-off at the compressor. This will prevent the tool from operating if the throttle is accidently engaged.

Installation (See figure 1)

This tool is designed to operate at 90 psi. Lower pressure (below 90 psi) will reduce performance of the tool while higher air pressure (over 90 psi) raises the performance of the tool beyond its rated capacity and could cause serious damage to tool and user.

Always use clean dry air. Excessive moisture and dirt will greatly reduce the life of any air motor. We recommend the installation of an in-line filter-regulator-lubricator as close to the tool as possible.

A 3/8" air hose is required up to a length of 8 ft. If more length is required a 1/2" air hose should be used at the compressor. Attach a 3/8" whip hose for the remaining 4 - 8 ft. for flexibility. Be sure all hoses and fittings are the correct size and tightly secured before using air tool.

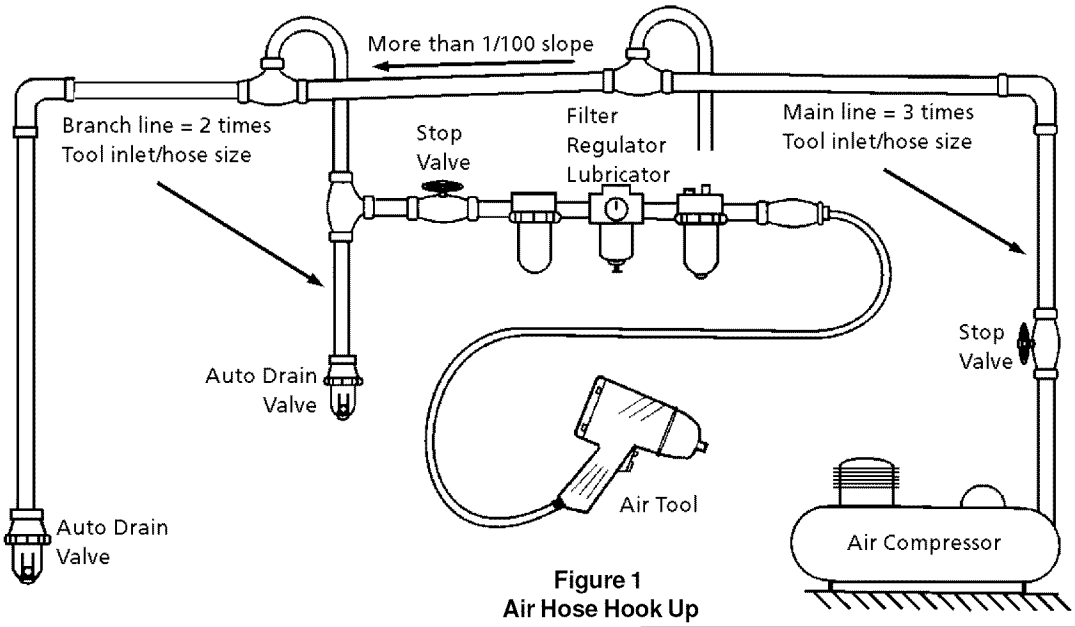


Figure 1
Air Hose Hook Up

OPERATION

This tools power regulator valve (fig. 2). Rotate regulaotor until desired output is achieved. The settings on the regulator are only for reference only and do not denote a specific power output. Turn regulator to position with smaller circle being the least amount of power and larger circle being for the most amount of power. The tool operates in maximum power in reverse.

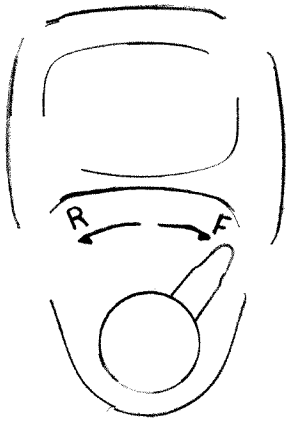


Figure 2
Regulator Valve

⚠WARNING

Once a bolt or fastener is seated, impacting for longer than five (5) seconds will cause excessive wear and possible damage to the impacting mechanism. If it takes longer than five seconds to tighten or loosen your bolt or fastener, we recommend the use of a larger size impact wrench.

MAINTENANCE

Lubrication
An in-line filter-regulator-lubricator (fig 1) is recommended as it increases tool life and keeps the tool in sustained operation. The in-line lubricator should be regularly checked and filled with air tool oil. Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the tools exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.

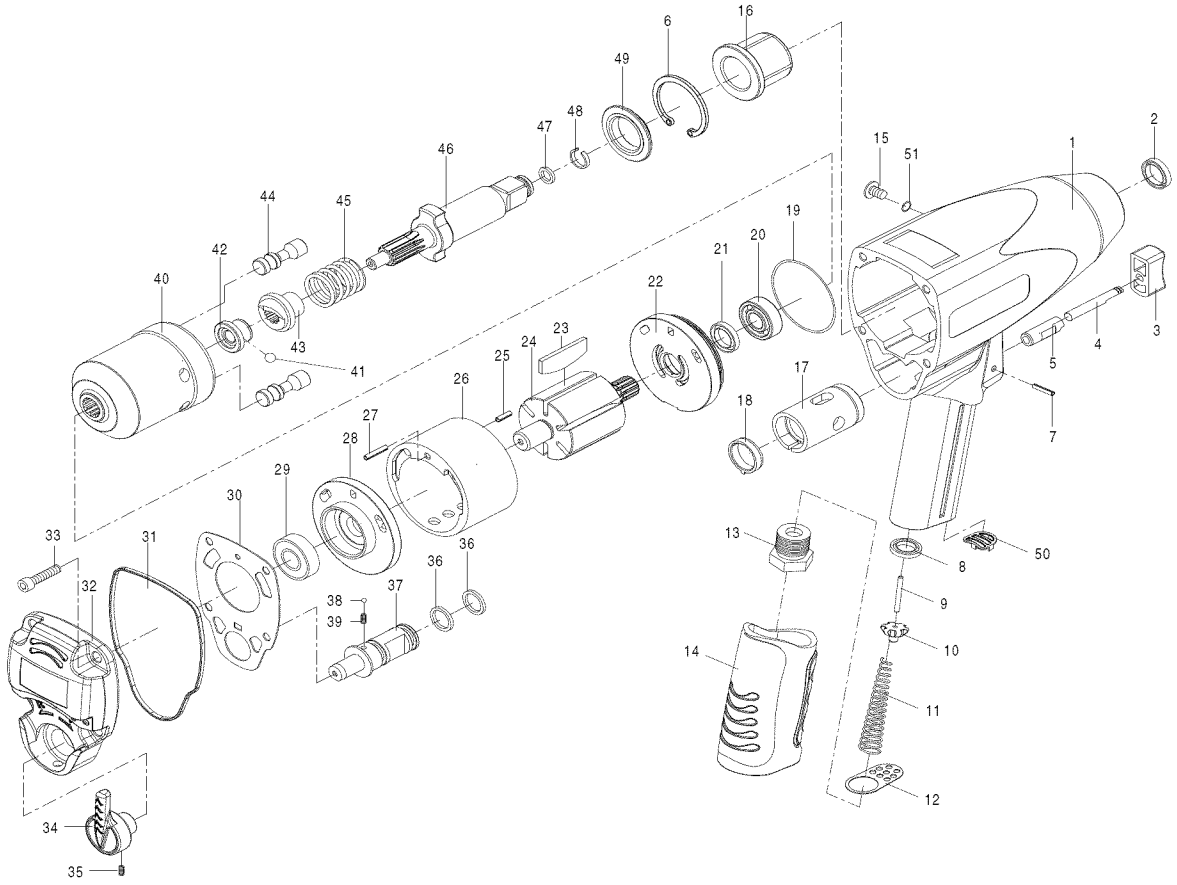
In the event that it becomes necessary to store the tool for an extended period of time (overnight, weekend, etc.), it should receive a generous amount of lubrication through the air inlet. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.

Recommended lubricants: Use air tool oil or any other high grade turbine oil containing moisture absorbent, rust inhibitors, metal wetting agents and an EP (extreme pressure) additive.

Impact clutch lubrication: The oil reservoir in the anvil housing should be checked every 40 hours of operation Remove the oil plug from the housing and hold tool so the the oil port is lower than the anvil housing. Drain oil. Measure and refill with approximately 1 oz. (30 ml) of SAE 30 weight oil. Never over fill the anvil.

Sears CRAFTSMAN Model 875.199830
Pneumatic 1/2" Drive Impact Wrench

Exploded View and Parts List



Ref.	Part No.	Description	Q'ty
1	9106100	Housing	1
2	9106101	Oil Seal	1
3	9106102	Trigger	1
4	9106103	Trigger Pin	1
5	9106104	Tigger Sleeve	1
6	9106105	Retainer Ring	1
7	9106106	Dowel Pin	1
8	9106107	Valve Seat	1
9	9106108	Valve Stem	1
10	9106109	Throttle Valve	1
11	9106110	Valve Spring	1
12	9106111	Exhaust Deflector	1
13	9106112	Air Inlet Bushing	1
14	9106113	Handle Grip	1
15	9106114	Oil Plug	1
16	9106115	Anvil Bushing	1
17	9106116	Reverse Bushing	1
18	9106117	Regulator Ring	1
19	9106118	O-Ring	1
20	9106119	Ball Bearing	1
21	9106120	Oil Seal	1
22	9106121	Front End Plate	1
23	9106122	Rotor Blade	6
24	9106123	Rotor	1
25	9106124	Dowel Pin	1

Ref.	Part No.	Description	Q'ty
26	9106125	Cylinder	1
27	9106126	Dowel Pin	1
28	9106127	Rear End Plate	1
29	9106128	Ball Bearing	1
30	9106129	Gasket	1
31	9106130	Ornamental Gasket	1
32	9106131	End Cap	1
33	9106132	Cap Screw	4
34	9106133	Reverse Switch	1
35	9106134	Screw	1
36	9106135	O-Ring	2
37	9106136	Reverse Valve	1
38	9106137	Steel Ball	1
39	9106138	Spring	1
40	9106139	Hammer Cage	1
41	9106140	Steel Ball	1
42	9106141	Drive Ball Seat	1
43	9106142	Cam	1
44	9106143	Hammer Pin	2
45	9106144	Spring	1
46	9106145	Anvil	1
47	9106146	O-Ring	1
48	9106147	Socket Retainer	1
49	9106148	Washer	1
50	9226050	Muffler Cover	1
51	921017	O-Ring	1