SUMAKE®

CE

PNEUMATIC TOOLS



1/2”Heavy Duty Air Ratchet Wrench

ST-55525

SPECIFICATION

Free Speed (rpm)	225
Square Drive (inch)	1/2”
Bolt Capacity (inch)	1/2”
Air Consumption (cfm)	4
Max Torque(ft-lb/Nm)	100 / 136
Air Hose	3/8”
Air Inlet	1/4”
Overall Length (mm)	205
Air Pressure (bar)	6.3
Net Weight (kgs)	1.62

Vibration EN28662-1 EN ISO 28927-2	**Noise** EN ISO 15744:2008	**Remark**
No-load: 2.2 m/s^2	Sound pressure level 94.31 dB	Should wear an approved ear - protector and gloves while operating tool.
	Sound power level 105.31 dB	
	Instantaneous sound pressure 93.7 dB	

EC DECLARATION OF CONFORMITY FOR MACHINERY

Manufacturer: SUMAKE INDUSTRIAL CO.,LTD.

Address: 4F,-NO. 351, YANGGUANG ST., NEIHU DISTRICT
TAIPEI CITY 114, TAIWAN

herewith declares that:

1/2” Heavy Duty
Air Ratchet Wrench
ST-55525

- is in conformity with the provisions of the Machinery Directive (Directive 2006/42/EC), as amended, and with national implementing legislation:

-and have been tested according to:
EN ISO 12100-1:2003/A1:2009, EN ISO 12100-2:2003/A1:2009, EN 792-6:2000+A1:2008

Taipei,Taiwan Apr / 2 / 2010



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Signature

MIKE SU
.....
Full name

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Foreword

Sumake is a manufacturer and exporter of air tools since established. We have devote all our effort in improving quality and tools life. As well as the noise and vibration of tools. Bring all of your working efficiency, profits and enjoy using the tool is our principle.

Operator's instruction

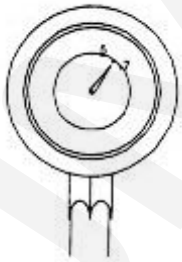
1.Main Applications

The ideal tool for the mechanic who can't afford downtime. Its dramatically longer life, combined with a powerful motor and comfortable ergonomic design, make it the best choice for work on exhaust systems, small engines, water pumps, fuel pumps, and radiator and air conditioner removal and replacement.

2.Cautions for Use

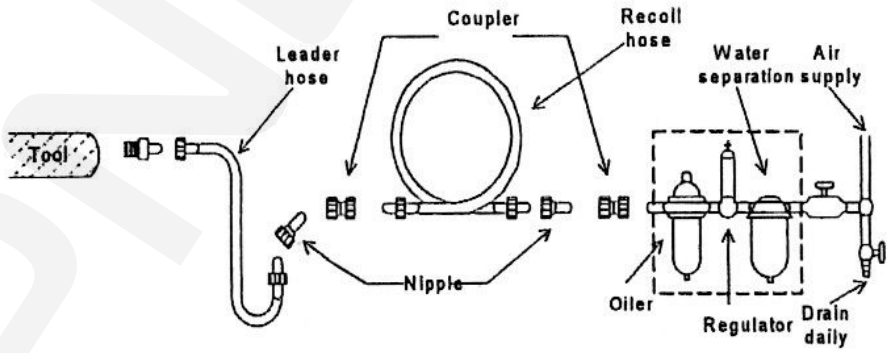
- 2-1 Air pressure

  Maximum performance is displayed at the proper sanding speed, obtainable at a gauge pressure of 6.2 bar. Range-wise, this is an air pressure from 5 to 7 bar (70 to 100 psi)



- 2-2 Air line

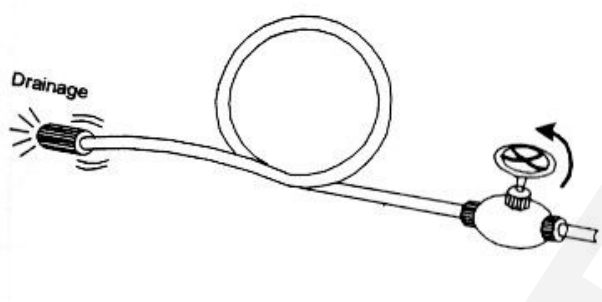
  Use a 3/4" air hose between the compressor and the tool. Compressed air is cooled and its water content separated, as soon as the air leaves the compressor. A portion of the water content, however, is condensed in the piping, and can enter the tool mechanism, and may cause trouble. So, install an air filter and on oiler between the compressor and the tool. Use a 3HP or larger compressor.



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- 2-3 Air hose

  Clean the hose with a blast of compressed air before connecting the hose to air tool. This will prevent both moisture and dust within the hose from entering the tool and causing possible rust or malfunction. To compensate for unusually long hose (over 25 ft), the line pressure should be increased accordingly.



- 2-4 Inserted tools

  Use only the socket or adapter which are in good condition for use. The intended socket and adapter for this air tool could are started as "Square Drive" on the specification list.
- 2-5 The approved eye protector, ear-muff, mouth-muffle, and gloves shall be worn when operate this tool.
- 2-6 The working place shall be ventilative.
- 2-7 Release the on-off device in the case of energy supply failure.

3.Operation Method

- 3.1 On-off device

  The on-off device is on the inner or outer contour of the grip. It is a "hold-to-run" type. This tool stops rotation within few sec, after releasing the lever. For the sake of safety, place it on a level plate or on hanger after it completely stops.
- 3.2 Torque Adjuster

  You can adjust the torque by rotating the knob which indicated by 1 to 6. "1" indicates the smallest torque output and "6" indicts the largest torque output.
- 3.3 Rotating Direction

  One shall make sure the direction of rotation before actuate this tool. The "F" indicts foreword and the "R" indicts reverse. Forward is defined as clockwise direction seen from the operator's position.

4. Maintenance

- 4-1 Lubrication

  Before connecting the hose, apply 4 or 5 drops of #60 spindle oil at the air inlet. Use of a thicker oil can lead to reduced performance or malfunction. If a thicker oil is used by accident, wash it away immediately. Also, every 3 or 4 hours of operation, oiling is necessary.
- 4-2 Storage

  Avoid storing the tool in a location subject to high humidity. If the tool is left as it is used, the residual moisture inside the tool can cause rust. Before storing and after operation, oil the tool at the air inlet with spindle oil and run it for short time.
- 4-3 Disposal

  If the tool is too seriously damaged to be used any more, drop it in a resource recycling can. Never drop it into fire.
- 4-4 Ordering service Parts

  For further operational and handling information or of replacement of parts and components, contact the sale agent from whom you purchased the tool or the service division of our company.

  ** In ordering parts and components, give each part number, name and quantity.*

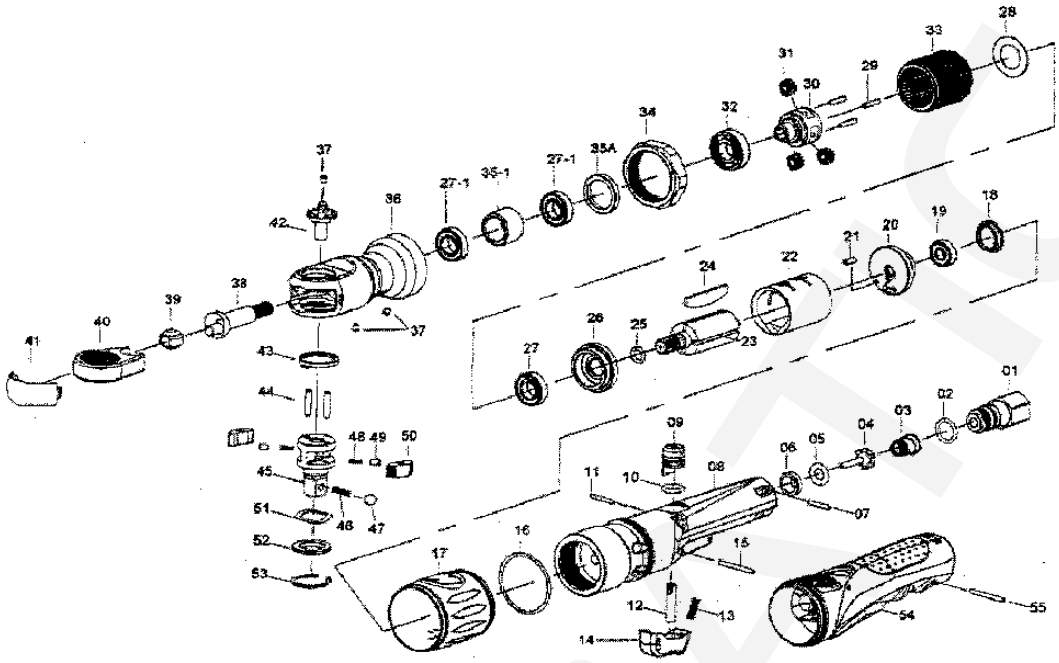
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Warning

- 1.The power toll shall not be used in potentially explosive atmospheres.
- 2.Disconnect the air hose before changing or adjusting any inserted tools.
- 3.Prevent long hair or loose clothing from drawing in while operate this tool.
- 4.Keep your body in well balanced position and always wear gloves to reduce the risk of crushing caused by torque between handle and workpiece.
- 5.Unexpected direction of rotating could cause a hazardous situation.
- 6.Slip/Trip/Fall is a major reason of serious injury or death. Beware of excess hose left on the walking or work surface.
- 7.Wearing eye/face protector could reduce the danger to person from high speed splinters being emitted from this tool in the case of inserted tool failure or emitted from workpiece
- 8.Wearing mouth-muff could avoid inhaling dust or handling debris from work process that can be harmful to your health.
- 9.Excessive high air pressure and too much free rotation may speed the wear of this tool and might cause danger situation.

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ST-55525 1/2" HEAVY DUTY AIR RATCHET WRENCH



PARTS LIST

No.	Parts No.	Description	Q'ty
01	55524-01	Inlet Bushing	1
02	55524-02	Swivel Inlet O-Ring	1
03	55524-03	Throttle Valve Spring	1
04	55524-04	Throttle Valve	1
05	55524-05	Throttle Valve O-Ring	1
06	55524-06	Throttle Valve Seat	1
07	55524-07	Swivel Inlet Retaining Pin (Short)	1
08	55524-08	Motor Housing	1
09	55524-09	Power Regulator	1
10	55524-10	Power Regulator O-Ring	1
11	55524-11	Power Regulator Pin	1
12	55524-12	Throttle Valve Plunger	1
13	55524-13	Trigger Spring	1
14	55524-14	Trigger	1
15	55524-15	Trigger Pin	1
16	55524-16	Exhaust Deflector Seal	1
17	55524-17	Exhaust Deflector	1
18	55524-18	End Cap	1
19	55524-19	Rear Rotor Bearing	1
20	55524-20	Rear End Plate	1
21	55524-21	End Plate Dowel	1
22	55524-22	Cylinder	1
23	55524-23	Rotor	1
24	55524-24	Vane Packet	4
25	55524-25	Rotor Seal	1
26	55524-26	Front End Plate	1
27	55524-27	Front Rotor Bearing	1
27-1	55524-27-1	Ratch Housing Bearing	2
28	55524-28	Spacer	1
29	55524-29	Spindle Planet Gear Shaft [Incl. 30]	3

No.	Parts No.	Description	Q'ty
30	55524-30	Spindle [Incl. 29(3)]	1
31	55524-31	Spindle Planet Gear	3
32	55524-32	Bearing	1
33	55524-33	Internal Gear	1
34	55524-34	Coupling Nut	1
35A	55524-35A	Bushing Spacer	1
35-1	55524-35-1	Bushing	1
36	55524-36	Ratchet Housing [Incl. 37(2)]	1
37	55524-37	Grease Fitting	3
38	55524-38	Crankshaft	1
39	55524-39	Drive Bushing	1
40	55524-40	Ratchet Yoke	1
41	55524-41	Ratchet Housing Cover	1
42	55524-42	Reverse Button [Incl. 37]	1
43	55524-43	Wear Washer	1
44	55524-44	Pawl Retaining Pin	2
45	55525-45	Ratchet Anvil 1/2" [Incl. 46, 47]	1
48	55524-48	Ratchet Lock Spring	2
49	55524-49	Ratchet Lock Pin	2
50	55524-50	Ratchet Pawl	2
51	55524-51	Friction Washer	1
52	55524-52	Thrust Washer	1
53	55524-53	Retaining Ring	1
54	55524-54	Composite Outer Housing	1
55	55524-55	Swivel Inlet Retaining Pin (Long)	1
TK1	55524-TK1	Ratchet Housing Bearing Rapair Kit 27-1(2)	
TK2	55524-TK2	Crank Shaft Mechanism Kit [Incl. 38,39, 40, 41]	
TK3	55524-TK3	Motor Tune-UP Kit [Incl. 02, 03, 04, 05, 07, 10, 11, 55]	
TK4	55524-TK4	1/2" Ratchet Head Repair Kit [Incl. 37(1), 42, 43, 44(2), 45, 46, 47, 48, 49, 50(2), 51, 52, 53]	