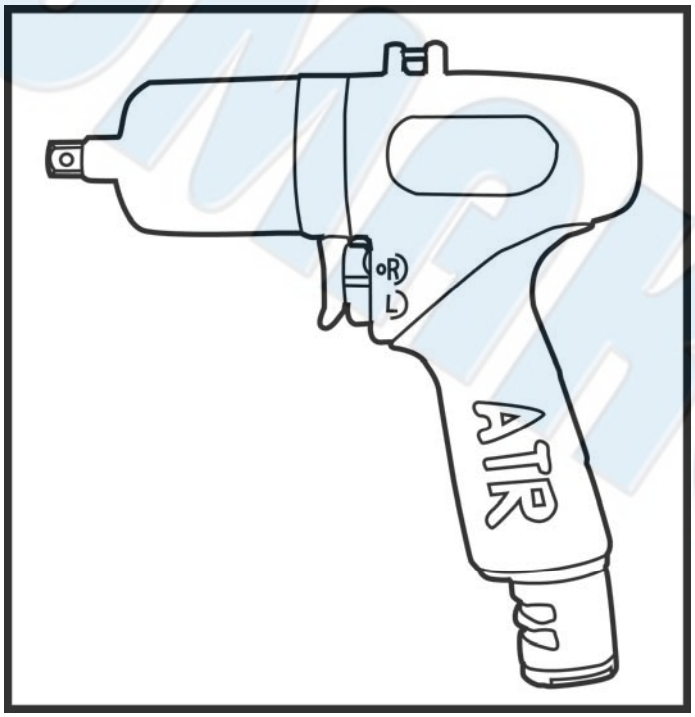
CE

SUMAKE *PNEUMATIC TOOLS*



3/8" Square Drive Non-Shut Off Oil Pulse Tool Pistol Type PN-5332P

Specification:

Free Speed	5,600 r/min
Square	3/8” (9.5 mm)
Bolt Capacity	5/16-3/8” (M8-M10)
Torque	14.8-23.6 ft-lb (20-32 Nm)
Air Consumption	0.43 m³/min (15.1 ft³/min)
Overall Length	6.3” (160 mm)
Air Hose (I.D.)	0.4” (12 mm)
Air Pressure	90 psi (6.3 bar)
Net Weight	2.07 lbs (0.94 kg)

Noise and Vibration:

Vibration EN ISO 28927-2	**Noise** ISO 15744	**Remark**
Load: 2.0 m/s²	Sound Pressure Level Load: 78.6 dB(A)	Please always wear ear protector at environment noise level > 80 dB(A) due to risk of impaired hearing!
	Sound power level load: 89.6 dB(A)	
Uncertainty K= 1.5 m/s²	Uncertainty K= 3dB	

SUMAKE INDUSTRIAL CO., LTD

4F,NO.351,Yangguang St.,Neihu District TAIPEI, TAIWAN, ZIP:114-91

EC DECLARATION OF CONFORMITY

We: **SUMAKE INDUSTRIAL CO., LTD.**

4F, No. 351, Yangguang St., Neihu District, Taipei City, Taiwan

declare in sole responsibility that the equipment

Equipment： 3/8" SQUARE DRIVE NON-SHUT OFF OIL PULSE TOOL PISTOL TYPE

Model/ Serial No.： PN-5332P

to which this declaration applies, complies with these normative documents:

- **Machinery Directive: 2006/42/EC**

and conforms to the following EN standard,

- **EN ISO 12100: 2010**
- **EN ISO 11148-6:2012**

Name and Signature/Position

Mike Su – Managing Director

Date and Place

2013/6/28

Taipei, Taiwan

PN-5332P-D-1404A-CPF

OIL-IMPULSE TOOLS INSTRUCTION MANUAL

Warning! It might be dangerous to operate the tool, if the instructions supplied are not followed.

Before using, installing, repairing or changing accessories, read and understand these instructions.

The tool is designed to tighten threaded fasteners utilizing an Oil-filled mechanism to deliver hydraulic pressure pulses.

Operator's Instruction Manual

Air Pressure
Tool is designed to be operated under the working air pressure of 5~6 bar = 0.5~0.6 MPa.

Air Hose & Fitting
Correct Hoses (the shorter, the better) and Fittings should be used for safety operation and correct performance.

Dry & Clean Air
Air Filter and Lubricator should be used and preferably sited in a position. within there (3) meters of the tool. Dust. corrosive fumes and/or excessive moisture can ruin the motor of the tool.

Socket
Connect female square drive Socket and Anvil by depressing Retainer Pin with small screwdriver or similar tool.

Reverse Lever
Set Reverse Lever to "R" for clockwise or to "L" for counter-clockwise rotation.

Air Supply
Connect the tool to the air line and make sure there is sufficient air pressure supplied.

Torque Adjustment
Warning! Disconnect the air supply before torque adjustment!!
Remove Allen Head Plug for torque adjusting hole in the Front Casing.
Rotate anvil manually until Relief Valve Spindle is exposed directly through the hole.

Turn Relief Valve Spindle clockwise to increase torque, and counter-clockwise to decrease the output torque. After this setting, use torque tester to check the current output torque.

Maximum torque
Turn Relief Valve Spindle clockwise until it stop then turn counter-clockwise half round.

Caution! Never remove Round Head Oil Plug in Oil Pulse Unit which causes oil Leakage and power-down.

Throttle Trigger/Lever
Grip the handle firmly and pull Throttle Trigger or Lever slowly to start fastening operation.

Exhaust Air
Adjust the direction of the exhaust air with Silencer to the best position for Eye and ear protection. Silencer can be turned 360 degree.

Warm Up
In case of low temperature, oil action may not be generated in the first use due to viscosity of hydraulic fluid. Warm up the pulse unit approximately ten (10) seconds by fixing Anvil on the vise before starting fastening operation.

Maintenance

●Lubrication

Do not lubricate the tool with flammable or volatile liquids such as kerosene, diesel or jet fuel.

For Air Motor: Supply light Turbine Oil properly through Air Inlet or line lubricator before and after every operation.
For example, Mobil Turbine Oil #32, Shell Turbine Oil #32, and/or equivalents.
For Bearing: Supply high quality Grease properly.
For example, Shell Alvania No.2, Mibilplex 2, and/or equivalents.

Disposal of tool
The tool is made of steel, aluminum alloy casting iron, plastic and rubber
When disposing the tool, make sure not to cause pollution to human being and environment.

●Overhaul

It is recommended that change the fluid in hydraulic cylinder after every 150,000 fastenings or 3 months whichever comes first. It is also recommended at such time, to apply grease on bearings in the air motor. If the presence of water is noted, it is recommended that a small amount of oil shall be run through the air motor to wash any rust in the air motor.

It is recommended to inspect oil pulse unit every after 200,000 fastening cycles or 6 months whichever comes first for damage or wearing of inner sealing materials. Replace damaged or worn sealing materials and fluid in the oil pulse unit shall be changed.

The inspection and overhaul requires trained personnel.

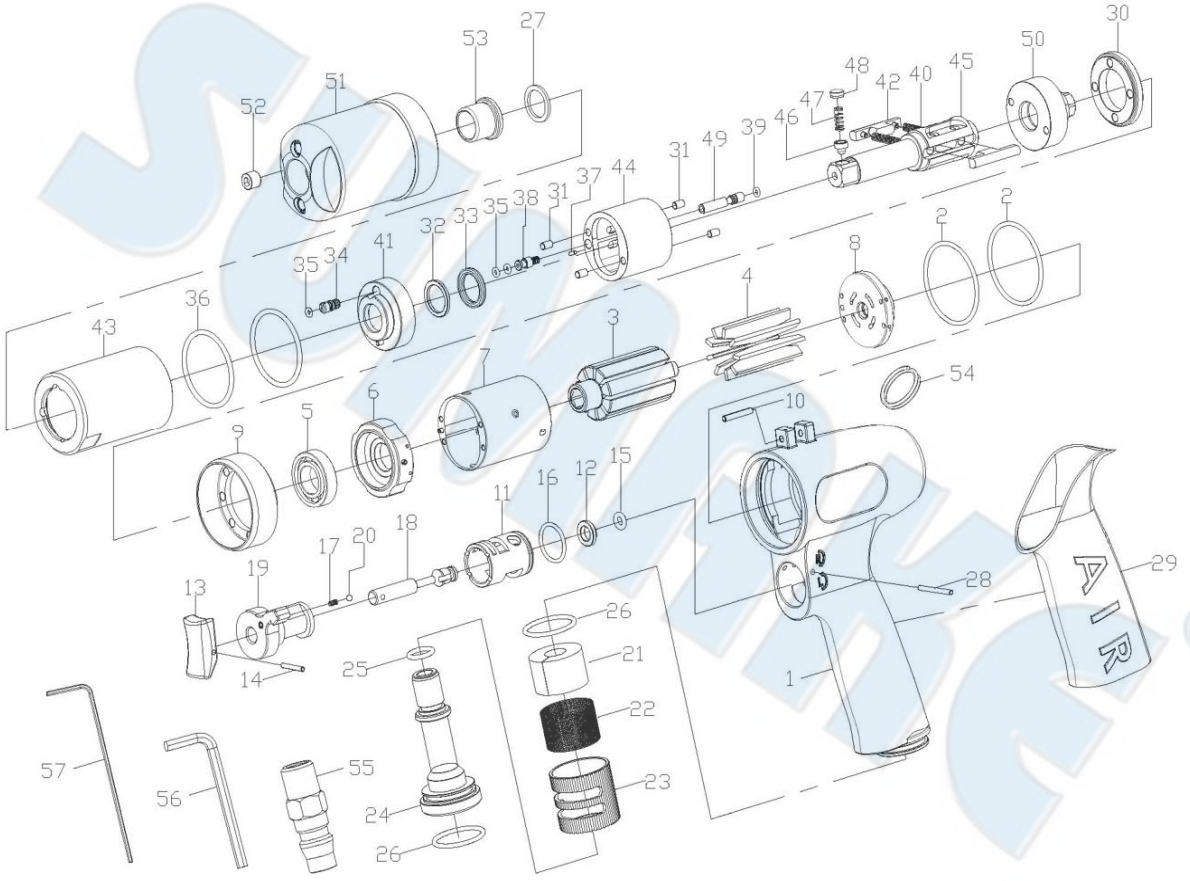
When the tool torque has dropped to less than 90% from pre-set torque. overhaul is required by trained personnel as oil leakage may be supposed.

Do not attempt to increase torque by adjusting the relief valve spindle as sudden torque drop may occur after this adjustment.

Ensure that the data plate and labels on the tool are kept in a legible condition. Replace any damaged date plate and label.

Maintenance and repair records should be kept on all tools.
For further information, contact with your nearest ZIPP distributor or to ZIPP in Taiwan.

PN-5332P
3/8" SQUARE DRIVE NON-SHUT OFF OIL PULSE TOOL PISTOL TYPE



PARTS LIST

No.	Parts No.	Description	Q'ty
1	PN5332P-01	Pistol	1
2	PN5332P-02	O-Ring	2
3	PN5332P-03	Rotor	1
4	PN5332P-04	Rotor Blade	9
5	PN5332P-05	Bearing	1
6	PN5332P-06	Front Plate	1
7	PN5332P-07	Cylinder	1
8	PN5332P-08	Rear Plate	1
9	PN5332P-09	Connection Sets	1
10	PN5332P-10	Spring Pin	1
11	PN5332P-11	Throttle Bushing	1
12	PN5332P-12	Valve Washer	1
13	PN5332P-13	Throttle Grip	1
14	PN5332P-14	Spring Pin	1
15	PN5332P-15	O-Ring	1
16	PN5332P-16	O-Ring	1
17	PN5332P-17	Orientation Spring	1
18	PN5332P-18	Valve Shaft	1
19	PN5332P-19	Valve Rod	1
20	PN5332P-20	Ball	1
21	PN5332P-21	Silencer	1
22	PN5332P-22	Air Filter	1
23	PN5332P-23	Exhaust Block Set	1
24	PN5332P-24	Exhaust Body	1
25	PN5332P-25	O-Ring	1
26	PN5332P-26	O-Ring	2
27	PN5332P-27	Back-up Ring	1
28	PN5332P-28	Pin	1
29	PN5332P-29	Rubber Grip	1

No.	Parts No.	Description	Q'ty
30	PN5332P-30	Liner Cap	1
31	PN5332P-31	Pin	4
32	PN5332P-32	Back-up Ring	1
33	PN5332P-33	X-Ring	1
34	PN5332P-34	Oil Screw	1
35	PN5332P-35	O-Ring	3
36	PN5332P-36	O-Ring	2
37	PN5332P-37	Pin	1
38	PN5332P-38	Adjust Screw	1
39	PN5332P-39	O-Ring	1
40	PN5332P-40	Blade Spring	2
41	PN5332P-41	Liner Plate	1
42	PN5332P-42	Drive Blade	2
43	PN5332P-43	Liner Casing	1
44	PN5332P-44	Liner	1
45	PN5332P-45	Main Shaft	1
46	PN5332P-46	Touch off	1
47	PN5332P-47	Touch off Spring	1
48	PN5332P-48	Touch off Cover	1
49	PN5332P-49	Liner Spindle	1
50	PN5332P-50	Transmission Plate	1
51	PN5332P-51	Front Casing	1
52	PN5332P-52	Screw Plug	1
53	PN5332P-53	Bushing	1
54	PN5332P-54	Key Ring	1
55	PN5332P-55	Air Inlet	1
56	PN5332P-56	Wrench	1
57	PN5332P-57	Wrench	1