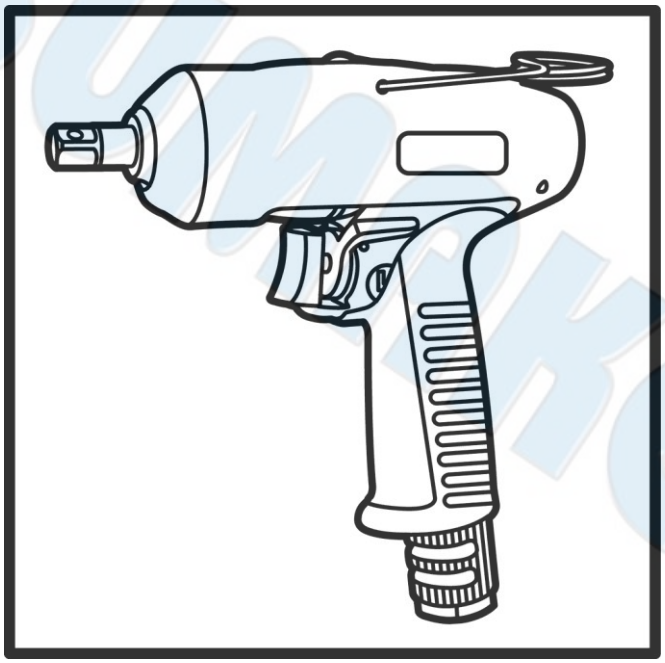
SUMAKE *PNEUMATIC TOOLS*



3/8" Square Drive Shut Off Oil Pulse Wrench (Pistol Type) -High Pressure Tool IPW-2308P

Specification:

Free Speed	4,500 r/min
Square	3/8
Bolt Capacity	5 mm
Torque	4~12Nm (3.0~8.9ft-lb)
Overall Length	6-1/3" (160.5mm)
Air Consumption	7 CFM (200 L/min)
Air Inlet (PT)	1/4" (6.35 mm)
Air Hose (I.D.)	6.5 mm
Air Pressure	72.5~87 psi (5~6 bar)
Net Weight	2.03lbs (0.92kgs)

Noise and Vibration:

Vibration EN ISO 28927-2	**Noise** EN ISO 15744	**Remark**
Load: 2.5 m/s²	Sound Pressure Level load: 75 dB(A)	Please always wear ear protector at environment noise level > 80 dB(A) due to risk of impaired hearing!
	Sound power level load: 86 dB(A)	
Uncertainty K= 1.5 m/s²	Uncertainty K= 3dB	

SUMAKE INDUSTRIAL CO., LTD
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SUMAKE®

OIL PULSE TOOL

IPS(W)-I-1709D-C5

OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT

WARNING

Read and carefully observe these operating instructions before unpacking and operating the tool! The tool must be operated, maintained and repaired exclusively by persons familiar with the operating instructions. Local safety regulations regarding installation and maintenance must be followed.

INSTALLING TOOL

- For safety, performance and durability of parts, operate this tool at 90psi (6.3kg/cm³) maximum air pre-ssure at inlet with 3/8" (10mm) inside diameter air supply hose.
- For safety reasons, the tool must always be disconnected from the air supply during connection and adjustment work.
- Do not use damaged, frayed air houses and fittings.
- Before sure all hoses and fitting are the correct size and are tightly secured.
- Always use clean, dry air at 90psi (6.3kg/cm3)maximum air pressure. moisture can ruin the motor of an air tool.
- Do not lubricate loots with flammable or volatile liquids such as kerosene, diesel or jet fuel.
- Do not remove any labels, replace Any damaged label.

USING THE TOOL

- Never work without protective goggles
- Always wear hearing protection when operating this tool.
- Be aware of the direction of rotation when operating the throttle.
- Keep hands, loose clothing and long hair away from rotating end of tool.
- Keep body stay balanced and firm. Do not over reach when operating this tool. High reaction torque can be occur at or below the recommended air pressure.
- Use power sockets only, For safe and economic use-replace worn sockets.
- This tool, together with any attachments and accessories, must never be used for anything other than the designed purpose.

SYMBOLS

	Caution				
This symbol identifies the potential for a hazardous situation. If this warning is not followed, a serious injury could occur.	This symbol identifies the potential for a damanging situation. If a caution note is not followed, the product or parts of the product could be damanged	Aviod direct skin contact when working with oil to prevent skin irrita-tions	Always wear eye protection when operating or performing maintance on this tool	Always wear hearing protection when operating this tool.	Recycling raw materials instead of disposing as waste.

CE

OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT

NOTICE

The use of other than genuine replacement parts may result in safey hazards, decreased tool performance, and increased maintenance, and may invalidate all warranties.
Repairs should be made only by authorized trained personnel.
For parts and service information, contact your local distributors.

PRODUCT DESCRIPTION

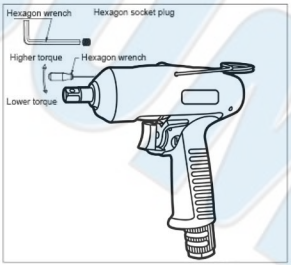
The pulse tool is a similar design to impact wrench, however with a integrated hydraulic oil pressure unit. Combination of torque control, forward/reverse operation. Low noise and low vibration.

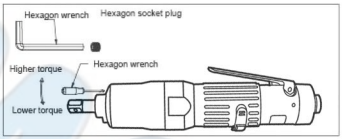
TORQUE ADJUSTMENT

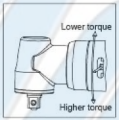
To adjust the torque on oil pulse tool, proceed as follows :

1. The cold weather could influence pulse oil quality. please reheat fastener 10-15times to warm up the oil then adjust torque screw.
2. Remove the adjustment hole plug.
3. Rotate the drive shaft until the torque adjustment screw is visible in the opening.
4. Use a hex wrench, rotate the adjustment crew clockwise to increase the torque output and counterclockwise to decrease the torque output. Do not rotate the oil plug. (with about 3-4 turns, set the desired torque)

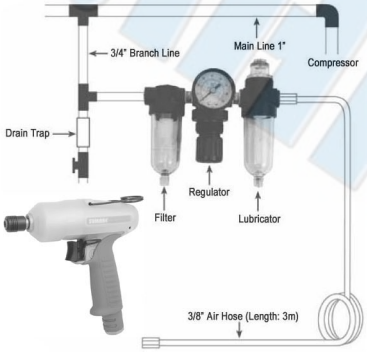
NOTICE PLEASE USE TORQUE TESTER FOR CALIBRATION AFTER TORQUE ADJUSTMENT







COMPRESSED AIR SCHEMATIC



RECOMMENDED COMPRESSED AIR SYSTEM

Caution

Lubrication

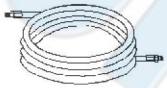
While installing air compressor system, be sure to have filters, separators for oil and water, regulators, and lubricators to increase work efficiency, prolong the life of air tools and reduce maintenance cost.

Suggestion air hose size :

Main Line : 3 times air tool inlet size
Branch Line : 2 times air tool inlet size

To keep the best performance of tool, please install the air hose size correctly

NOTICE



3/8" I.D Hose
Ideal for increasing working distance in high CFM applications.

Q&A

Q : What is the air pressure and air hose size that I should use with pulse tool ?

A : The tools should be run at 90psi dynamic （This means that the air pressure should be checked with the tool running free speed）. The inside diameter of your air hose should be one size larger than the size of the air inlet of the tool.

Example : 1/4" NPT air inlet should be run on a 3/8" inside diameter air hose.

INSPECTION AND MAINTENANCE

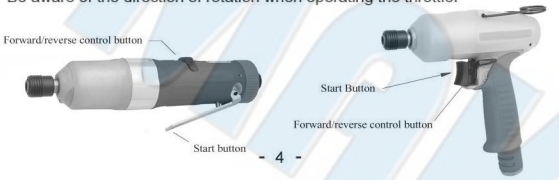
Placing tool in service :

1. Please install line with R.F.L unit (R-REGULATOR, F-Filter, L-Lubricator)
2. Air hose must be 3/8" inside diameter, don't use coil hose, it may affect torque stability.
3. Please check the air pressure before using. The air pressure should be 90psi in dynamic.
4. Ensure the air supply is clean and does not exceed 90psi during operation. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury.
5. Please check compressed air system everyday and keep it clean and dry.
6. Use proper connector, coupling, coupling, threaded connections and accessories.

Using tool in service :

Lubricate tool

1. Please lubricate tool daily to avoid wearing and rustiness. Running tool for 2-3 seconds after lubrication.
2. Always wear eye and ears protection when operating the tool
3. the bearing needs to be lubricated with LDS18 every 3 months.
4. Please follow the instruction for assembly or disassembly this tool
5. Please do not make any adjustment during operation. Please disconnect the air hose from air supply.
6. The use of other than genuine replacement parts may cause the damage of the tools.
7. Ues only impact socket and accessories. Do not use hand (chrome) sockets or accessories.
8. Be aware of the direction of rotation when operating the throttle.



FLUID CHANGE

In order to avoid the costs of malfunction or maintenance increase, routine inspections are necessary.
When tighten fasteners, used in different ways can cause the time of change oil difference, so we recommend that user should assess the self-condition to adjust the time of change oil.

For example: Tighten hard joint fasteners about spending 0.5~1 second (pulse), tighten soft joint fasteners exceeds more than 1 second (pulse), the time of change oil will be different.

Pulse number: It means when the screws are exposed to tighten the object surface, the number of strokes that driven by hydraulic cylinder.

When tool spends less time to tighten the object; quickly achieve the required torque, the time of change oil (number) will be extended.
When tool spends more time to tighten the object; to reach the required torque, the time of change oil (number) will be increased.

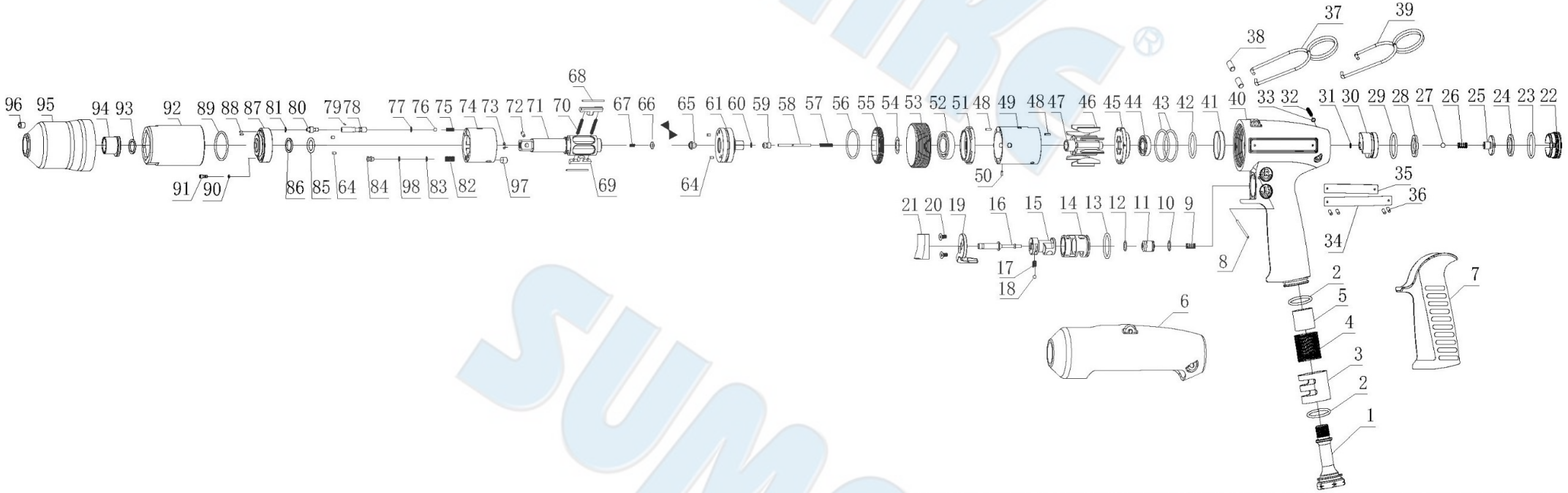
When tool is used for high torque (less number of pulses), the time of change oil will be extended.
When tool is used for low torque (more number of pulses), the time of change oil will be increased.

NOTICE

On the narrative, we reserve the right to change, without prior notice.

IPW-2308P

3/8" SQUARE DRIVE SHUT OFF OIL PULSE WRENCH (PISTOL TYPE) -HIGH PRESSURE TOOL



IPW-2308P

3/8" SQUARE DRIVE SHUT OFF OIL PULSE WRENCH (PISTOL TYPE) -HIGH PRESSURE TOOL

PARTS LIST

No.	Parts No.	Description	Q'ty
1	IP35241370030	Exhaust Body 19NPT	1
	IP35241380030	Exhaust Body 18NPT	1
2	IP40330015010	O-Ring	2
3	IP30520790160	Exhaust Block Set	1
4	IP30520810000	Exhaust Nets	1
5	IP30520820000	Muffler	1
6	IP35122500000	A Gun Shaped Body	1
7	IP35241810160	Rubber Grip	1
8	IP41320230030	Pin	1
9	IP35240680000	Spring	1
10	IP40300167030	O-Ring	1
11	IP35240670000	Valve Cap Of The Switch	1
12	IP40300086010	O-Ring	1
13	IP40320009010	O-Ring	1
14	IP35240630030	Lever Bushing	1
15	IP35240620030	Reverse Valve	1
16	IP35240720030	Valve Rod	1
17	IP35240710000	Spring	1
18	IP40503000000	Ball	1
19	IP35240730100	R.L Lever	1
20	IP40103060030	Screw	2
21	IP35240690000	Throttle Grip	1
22	IP35240120030	Back Casing	1
23	IP40330040010	O-Ring	1
24	IP35241040000	Washer	1
25	IP35240940030	Piston	1
26	IP35000930000	Spring	1
27	IP40504000000	Ball	1
28	IP35240920000	Washer	1
29	IP40320005010	O-Ring	1
30	IP35120910000	Equilibrate The Switch	1
31	IP40300018010	O-Ring	1
32	IP35240990030	Screw	1
33	IP40300029010	O-Ring	1
34	IP35242410000	The Positive Plate	1
35	IP35002420000	The Negative Plate	1
36	IP42117001000	Rivet	4
37	IP35242360030	Before The Rings	1
38	IP41240060030	Pin	2
39	IP35242370030	After The Rings	1
40	IP35120180220	Pistol Housing	1
41	IP35241640070	Check Plate	1
42	IP40300088010	O-Ring	1
43	IP40330007010	O-Ring	2
44	IP40800001001	Bearing	1
45	IP35240500110	Front Plate	1
46	IP35120490000	Rotor Blade	9
47	IP35120560000	Rotor	1
48	IP41220050030	Pin	2

No.	Parts No.	Description	Q'ty
49	IP35000550110	Cylinder	1
50	IP41320040000	Pin	1
51	IP35240430110	Rear Plate	1
52	IP40800014000	Bearing	1
53	IP35240390030	Connexion Sets	1
54	IP35242430000	Driving Seat Gasket	1
55	IP35240350030	Pressure Plate	1
56	IP40330039010	O-Ring	1
57	IP35000950000	Spring	1
58	IP35122390000	Transmission Plate Piston Pole	1
59	IP3524050000	Front Plate	1
60	IP40340020011	O-Ring	1
61	IP35120340000	Transmission Plate	1
64	IP41325047000	Pin	4
65	IP35242400030	Oil Return Valve	1
66	IP35242750001	Oil Return Valve Piston	1
67	IP35242730000	Oil Return Spring	1
68	IP35121110000	Pin	2
69	IP30090320001	Drive Blade	2
70	IP30090330000	Blade Spring	2
71	IP35120310000	Main Shaft-D	1
72	IP30501150000	Pin	1
73	IP30501160000	Spring	1
74	IP35120290000	Oil Hydraulic Cylinder	1
75	IP35001070000	Spring	1
76	IP40503000000	Ball	1
77	IP40300011010	O-Ring	1
78	IP35001080000	Control Core	1
79	IP41315040000	Pin	1
80	IP35241220030	Adjust Screw	1
81	IP40300012010	O-Ring	1
82	IP35122460000	Temperature Control Valve Spring	1
83	IP40340002011	O-Ring	1
84	IP35122450030	Temperature Control Valve	1
85	IP35001250000	XO-Ring	1
86	IP30221260210	XO-Washer	1
87	IP35120280000	Liner Plate	1
88	IP41215050030	Pin	2
89	IP40300042010	O-Ring	1
90	IP40300040010	O-Ring	1
91	IP30221210030	Oil Screw	1
92	IP35120260030	Linet Casing	1
93	IP30060360000	Washer	1
94	IP30070090000	Bushing	1
95	IP35120020220	Front Casing	1
96	IP40116280030	Screw	1
97	IP35631680000	Rubber Plug	1
98	IP35122690000	Washer	1

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 SHUT OFF OIL PULSE WRENCH (PISTOL TYPE) -HIGH PRESSURE TOOL

Model/ Serial No.： IPW-2308P

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

2022/12/1

Taipei, Taiwan

NOTE