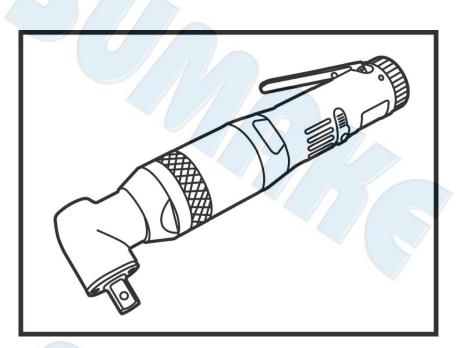


SUMAKE PNEUMATIC TOOLS



1/2" Square Drive Auto Shut Off Oil Pulse Wrench (Angle Type) -High Pressure Tool IPW-2440A

Specification:

Free Speed	3,800 r/min			
Square	1/2			
Bolt Capacity	8 mm			
Torque	30~50Nm (22.2~37ft-lb)			
Overall Length	11.6" (295mm)			
Air Consumption	12.4CFM (350/min)			
Air Inlet (PT)	1/4" (6.35 mm)			
Air Hose (I.D.)	8.0 mm			
Air Pressure	72.5~87 psi (5~6 bar)			
Net Weight	3.621lbs(1.64kgs)			

Noise and Vibration:

Vibration EN ISO 28927-2	Noise EN ISO 15744	Remark
Load:	Sound Pressure Level load: 78 dB(A)	Please always wear ear
2.5 m/s ²	Sound power level load: 89 dB(A)	protector at environment noise level > 80 dB(A) due to
Uncertainty K= 1.5 m/s ²	Uncertainty K= 3dB	risk of impaired hearing!

SUMAKE®



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
- 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



Aviod direct skin fies the potential for contact when worknt skin irrita-tions this tool



Always wear hearoperating this tool.



This symbol identifies the potential for a hazardous situation. If this warning is not followed, a scrious injury could occur

This symbol identia damanging situa- Ing with oil to prevetion. If a caution note is not followed, the product or parts of the product could be damanged

Always wear eye protection when op- ing protection when erating or performing maintance on

Recycling raw materials instead of disposing as waste.

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

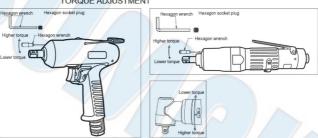
The pulse tool is a similar design to impact wrench, however with a integrated hydraulic oil pressure unit. Combination of torque control, forward/reverse operation. Low noise and low vibration.

TORQUE ADJUSTMENT

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

- 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.
- Rotate the drive shaft until the torque adjustment screw is visible in the opening.
- Use a nex 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



OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT 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.

A&O

- 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.

OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT INSPECTION AND MAINTENANCE

Placing tool in service:

- Please install line with R.F.L unit (R-REGULATOR, F-Filter, L-Lubricator)
- Air hose must be 3/8" inside diameter, don't use coil hose, it may affect torque 2.
- 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.
- Use proper connector, coupling, coupling, threaded connections and accessories.

Using tool in service:



- Turning axis oil seal
- 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
- the bearing needs to be lubricated with LDS18 every 3 months. 3.
- 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.
- The use of other than genuine replacement parts may cause the damage of the
- Ues only impact socket and accessories. Do not use hand (chrome) sockets or 7. accessories.
- 8 Be aware of the direction of rotation when operating the throttle.



OIL PULSE TOOL & TORQUE MEASUREMENT EQUIPMENT

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-2440A

1/2" SQUARE DRIVE AUTO SHUT OFF OIL PULSE WRENCH (ANGLE TYPE) -HIGH PRESSURE TOOL



IPW-2440A

1/2" SQUARE DRIVE AUTO SHUT OFF OIL PULSE WRENCH (ANGLE TYPE) -HIGH PRESSURE TOOL

ARTS No. 1	Parts No.	Description	Q'tv	No.	Parts No.	Description	Q't
1	IP40900157032	Snap	1	54	IP40300010010	O-Ring	7
2	IP30480790160	Exhaust Block set	/ 11/	55	IP35602440030	Pulse Screw	1
3	IP30480820000	muffler	// 1//	56	IP41329550000	Pin	4
4	IP40300041010	O-Ring	// 1	57	IP35242400030	Oil Return Valve	1
E	IP30460770030	Connect set fast-18NPT	111	58	IP35242750000 IP35242730000	Oil Return Valve Piston	1
5	IP30460780030	Connect set fast-19NPT	1//	59	IP35242730000	Oil Return Spring	1
6	IP40300001010	O-Ring	1	60	IP35242380030	Oil Return Valve At	1 1
7	IP30461190030	Spring	4 1	61	IP30220320001	Drive Blade	2
8	IP30461200210	Air inlet Valve	41	62	IP30220330000	Blade Spring	2
9	IP30461270020	Washer	1	63	IP35360310000	Main Shaft-D	1
10	IP35562370030	After the rings	1 1	64	IP35360290000	Oil Hydraulic Cylinder	1
11	IP41230250030 IP30070510110	Pin	1	65	IP35361070000 IP40503000000	Spring	1
12	IP30070510110	Handle	1	66	IP40503000000	Ball	1
13	IP35040660000	Switch place	1	67	IP40300011010	O-Ring	1
14	IP35400650030	Valve axle of the switch	1	68	IP35361080000	Control Core	1
15	IP35400170000	Straight Housing	1	69	IP41315041000	Pin	1
16	IP35401830000	Rubber Grip	1	70	IP35871220030	Adjust Screw	1
17	IP36452410000	The positive plate	1	71	IP40300018010	O-Ring	1
18	IP42117002000	Rivet	4	72	IP35601330000	Spacer Sleeve	1
19	IP30480640010	R.L switch	1	73	IP35242710000	Pressure Relief Valve Two	1
20	IP30460740030	Washer	1	74	IP35242700000	Pressure Relief Valve	1
21	IP30460750030 IP35040970210	Screw	1	75	IP35243410000 IP30481250000	Jam	1
22	IP35040970210	Rear Balanced Switch	1	76	IP30481250000	Xo-Ring	1 1
23	IP40330015010	O-Ring	1	77	IP30221260210	Xo-Washer	1
24	IP30490940030 IP30820930000	piston	1	78	IP35360280000	Liner Plate	1
25	IP30820930000	Spring	1	79	IP41330060000	Pin	1
26	IP40504000000	Ball	1	80	IP40300112010	O-Ring	1
27	IP30490920210 IP40330017010	Washer	1	81	IP40300040010	O-Ring	1
28	IP40330017010	O-Ring	1	82	IP30221210030	Oil Screw	1
29	IP35040910000	Equilibrate the switch	1	83	IP35360260030	Linet Casing	1
30	IP30080710000	Spring	1	84	IP30060360000	Washer	1
31	IP40503000000	Ball	1	85	IP30070090000	Bushing	1
32	IP40300018010	O-Ring	/ 1	86	IP35870020220	Front Casing	1
33	IP35400960230	Wind direction plate	1	87	IP35362640000	Washer	
34	IP40800001001	Bearing	1	88	IP35362470000 IP35362720000 IP40320010010	The Pressure Relief Spring	
35	IP35400500110	Front plate	1	89	IP35362720000	Pressure Relief Valve Three	
36	IP35361680000 IP35360560000 IP35360490000	Rubber plug	9	90	IP40320010010	O-Ring	
37	IP35360560000	Rotor	1	91	IP35870630030	Lever Bushing	
38	IP35360490000	Rotor Blade	9	92	IP35791420030	Plate	
39	IP41220160030	Pin	1 1	93	IP35872050030	Packing Nut	1
40	IP35400550110	Cylinder		94	IP40800015000	Bearing	
41	IP41220050030	Pin Pin		95	IP30920100030 IP30921440030	Washer	
42	IP41320040000	Pin		96	IP30921440030	Washer	
43	IP35360430110	Rear plate		97	IP40900138032	Snap	
44	IP40800014000	Bearing	7.4	98	IP35871450000	Drive Gear	
45	IP35360390030	Connexion sets		99	IP40300036010	O-Ring	- 1
46	IP35362430000	Driving seat gasket	1	100	IP35871400100	90°Bending	
47	IP35360350030	Pressure plate		101	IP35870100030	Washer	
48	IP40300112010	O-Ring		102	IP40800001001	Bearing Protector	
49	IP35360950000	Spring		103	IP35871460000	Bushing Protector	-]
50	IP35402390000	Transmission Plate piston pole	1	104	IP36351480000 IP40505000000	Turning Shaft Gear	
51	IP35241050030	Transmission Plate piston	1	105	IP40505000000	Ball Paging Cover	14
52	IP40340020011	O-Ring Transmission Plate		106	IP36351510030	Bearing Cover	
53	IP35360340000	Transmission Plate		107	IP40300141010	U-Rina II	



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: 1/2" SQUARE DRIVE AUTO SHUT OFF OIL PULSE WRENCH

(ANGLE TYPE) -HIGH PRESSURE TOOL

Model/ Serial No. : IPW-2440A

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

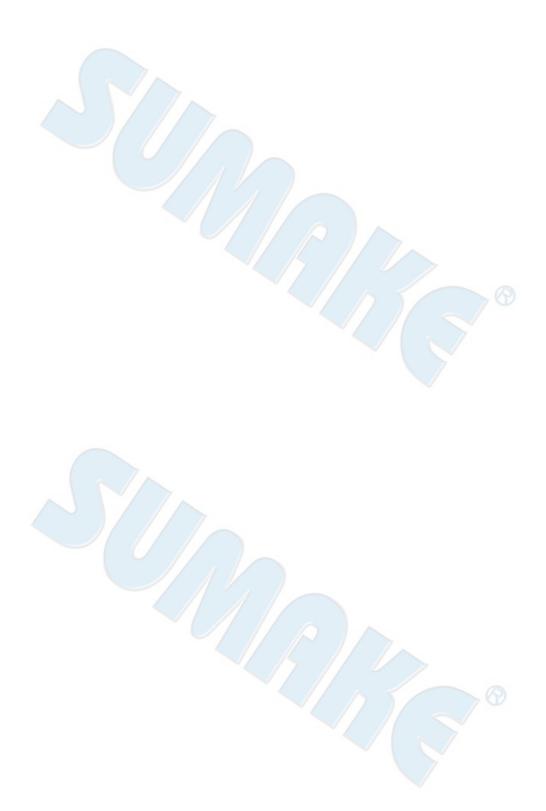
EN ISO 11148-6:2012

Name and Signature/Position

Date and Place

2022/6/1

Taipei, Taiwan



NOTE



www.SUMAKE.com www.aircompressors.com.tw