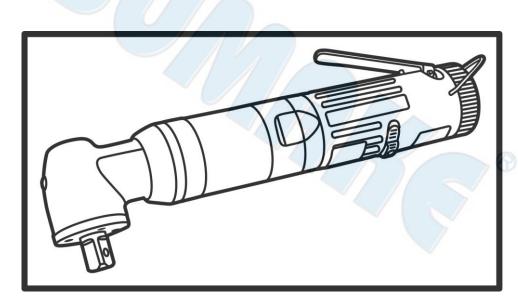


SUMAKE PNEUMATIC TOOLS



1/2" Square Drive Non Shut Off Oil Pulse Wrench IPW-2485AN

Specification:

Free Speed	3,500 r/min		
Square	1/2		
Bolt Capacity	10~12 mm		
Torque	44.4~66.6 ft-lb (60~90 Nm)		
Overall Length	11.42" (290mm)		
Air Consumption	17.7 CFM (504 L/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	4.08 lbs (1.85 kg)		

Noise and Vibration:

Vibration EN ISO 28927-2	Noise EN ISO 15744	Remark
Load: 3.0 m/s² Uncertainty K= 1.5 m/s²	Sound Pressure Level load: 80 dB(A) Sound power level load: 91 dB(A) Uncertainty K= 3dB	Please always wear ear protector at environment noise level > 80 dB(A) due to 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

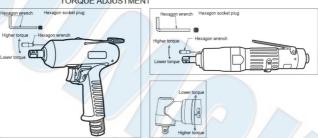
The pulse tool is a similar design to impact wrench, however with a integrated hydraulic oil pressure unit. Combination of torque control, forward/reverse operation. Low noise and low vibration.

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.

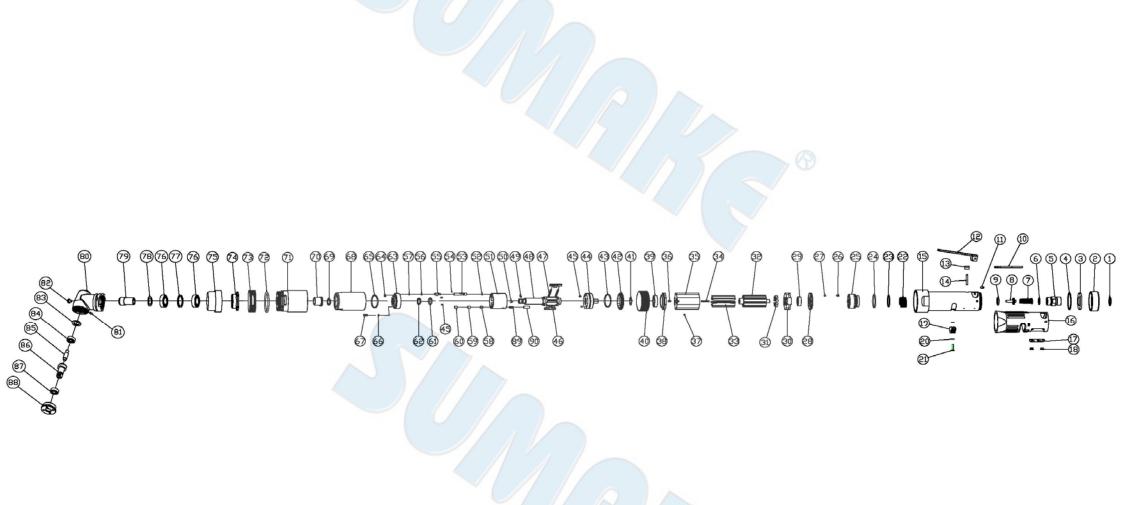
When tool is used for high torque (less number of pulses), the time of change oil will be extended.

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-2485AN 1/2" SQUARE DRIVE NON SHUT OFF OIL PULSE WRENCH (ANGLE TYPE)



IPW-2485AN 1/2" SQUARE DRIVE NON SHUT OFF OIL PULSE WRENCH (ANGLE TYPE)

	PARTS LIST									
No.	Parts No.	Description	Q'ty	No.	Parts No.	Description	Q'ty			
1	IP40900157032	Snap	1	46	IP35480320000	Drive Blade	2			
2	IP30800790160	Exhaust Block Set	1	47	IP35480330000	Blade Spring	2			
3	IP30800820000	Muffler	, 1/	48	IP35480310000	Main Shaft-D	1			
4	IP40300062010	O-Ring	1//	49	IP30881150000	Pin	1			
5	IP30460770030	Connect Set Fast 18NPT	1	50	IP30881160000	Spring	1			
5	IP30460780030	Connect Set Fast 19NPT	1//	51	IP35480290000	Oil Hydraulic Cylinder	1			
6	IP40300001010	O-Ring	/1/	52	IP40300011010	O-Ring	1			
7	IP30461190030	Spring	1	53	IP35561080000	Control Core	1			
8	IP30461200210	Air Inlet Valve	1	54	IP41320040000	Pin	1			
9	IP30461270020	Washer	1	55	IP35601220030	Adjust Screw	1			
10	IP30800440030	Suspension Loop	1	56	IP40300018010	O-Ring				
11	IP41230250030	Pin	1	57	IP35601330000	Spacer Sleeve	1			
12	IP30260510110	Handle	1	58	IP35602710000	Pressure Relief Valve Two	1			
13	IP35040660000	Switch Place	1	59	IP35602700000	Pressure Relief Valve	1			
14	IP35520650030	Valve Axle Of The Switch	1	60	IP35483410000	Jam	1			
15	IP35520170000	Straight Housing	1	61	IP30481250000	Xo-Ring	1			
16	IP35521830000	Rubber Grip	1	62	IP30301260210	Xo-Washer	1			
17	IP35582410000	The Positive Plate	1	63	IP35480280000	Liner Plate	1			
18	IP42117002000	Rivet	4	64	IP41330060002	Pin	1			
19	IP30800640010	R.L Switch	1 1	65	IP40300107010	O-Ring	1			
20	IP30460740030	Washer	2	66	IP40300040010	O-Ring	1			
21	IP30460750030	Screw	1	67	IP30221210030	Oil Screw	1			
22	IP30480930000	Spring	1	68	IP35480260030	Linet Casing	1			
23	IP40330015010	O-Ring	1 1	69	IP30060360000	Washer	1			
24	IP40340013011	O-Ring	1	70	IP35600090000	Bushing	1			
25	IP30800910000	Equilibrate The Switch	1	71	IP35910020220	Front Casing	1			
26	IP30080710000	Spring	1	72	IP40300069010	O-Ring	1			
27	IP40503000000	Ball	1	73	IP35910630030	Lever Bushing	1			
28	IP35520960230	Wind Direction Plate	1	74	IP35911420030	Plate	1			
29	IP40800001001	Bearing	1/	75	IP35912050030	Packing Nut	1			
30	IP35520500110	Front Plate	1/	76	IP40800025000	Bearing	2			
31	IP35361680000	Rubber Plug	9	77	IP30980100030	Washer	1			
32	IP35480560000	Rotor	1/	78	IP30981440030	Washer	1			
33	IP35480490000	Blade	9	79	IP30981450000	Drive Gear	1			
34	IP41220160030	Pin	//1	80	IP30981400100	90°Bendina	1			
35	IP35520550110	Cylinder	11/	81	IP40204040030	Screw	1			
36	IP41220050030	Pin	1//	82	IP41805050034	Screw	1			
37	IP41220040030	Pin	1	83	IP30981530030	Washer	1			
38	IP35480430110	Rear Plate	1	84	IP40800008001	Bearing	1			
39	IP40800014000	Bearing	1	85	IP30981460001	Bushing Protector	1			
40	IP35480390030	Connexion Sets	1	86	IP30981480000	Turning Shaft Gear	1			
41	IP35602430000	Driving Seat Gasket	1	87	IP40800026000	Bearing	1			
42	IP35480350030	Pressure Plate	1	88	IP30981510030	Bearing Cover	1			
43	IP40340013011	O-Ring	1	89	IP35482470000	The Pressure Relief Spring	1			
44	IP35560340220	Transmission Plate	1 1	90	IP35482720000	Pressure Relief Valve Three	1			
45	IP41329550000	Pin	4	91	IP40300045010	O-Ring	1			
70	11 +132/330000	1 111	7	/	11 70000070010	IDM 240EAN D	1700 / 05			



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 NON SHUT OFF OIL PULSE WRENCH (ANGLE TYPE)

Model/ Serial No.: IPW-2485AN

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

2024/12/9

Mike Su - Managing Director

Taipei, Taiwan



NOTE



www.SUMAKE.com www.AIRCOMPRESSOR.com.tw