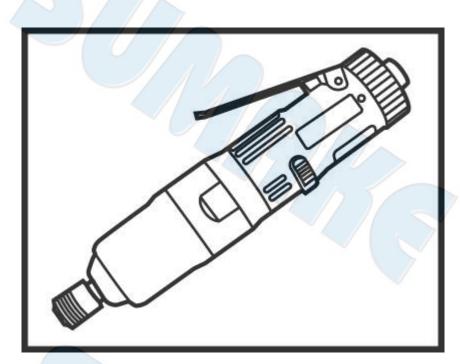


SUMAKE PNEUMATIC TOOLS



Auto Shut Off Oil Pulse Screwdriver (Straight Type) -High Pressure Tool IPS-2228

Specification:

Free Speed	6,200 r/min		
Square	1/4" (6.35mm)		
Bolt Capacity	M6~M8		
Torque	21~34Nm(15.5~25.2ft-lb)		
Overall Length	9" (230.5mm)		
Air Consumption	10.6 CFM (300 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	1.92 lbs (0.87 kg)		

Noise and Vibration:

	Vibration EN ISO 28927-2	Noise EN ISO 15744	Remark
	Load: 2.5 m/s ²	Sound Pressure Level load: 80 dB(A)	Please always wear ear
		Sound power level load: 91 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

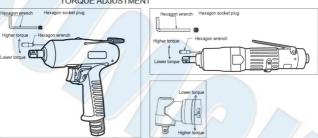
The pulse tool is a similar design to impact wrench, however with a integrated hydraulic oil pressure unit. Combination of torque control, forward/reverse operation. Low noise and low vibration.

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.

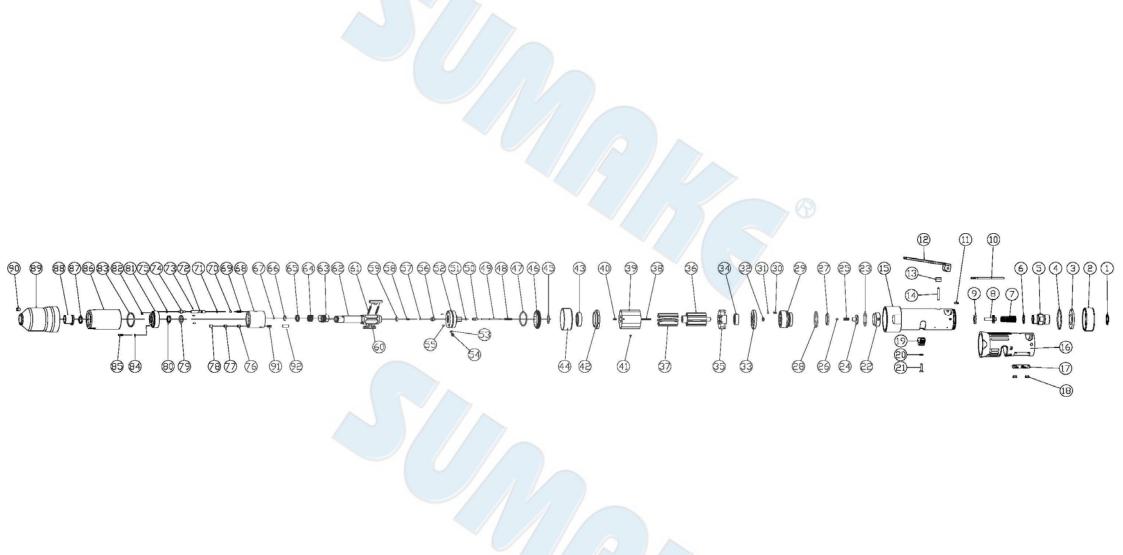
When tool is used for high torque (less number of pulses), the time of change oil will be extended.

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.

IPS-2228 AUTO SHUT OFF OIL PULSE SCREWDRIVER (STRAIGHTE TYPE) -HIGH PRESSURE TOOL



IPS-2228 AUTO SHUT OFF OIL PULSE SCREWDRIVER (STRAIGHTE TYPE) -HIGH PRESSURE TOOL

PARTS LIST						
No.	Parts No.	Description	'ty No	. Parts No.	Description	Q'ty
1	IP40900157032	Snap	1 47		O-Ring	1
2	IP30480790160	Exhaust Block set	1 48	IP35240950000	Spring	1
3	IP30480820000	muffler	1 49	IP35282390000	Transmission Plate Piston Pole	1
4	IP40300041010	O-Ring	1 50	IP35241050030	Transmission Plate Piston	1
5	IP30460770030	Connect set fast-18NPT	1 51	IP40340020011	O-Ring	1
3	IP30460780030	Connect set fast-19NPT	1 52	IP35240340000	Transmission Plate	1
6	IP40300001010	O-Ring	1 53	IP40300035010	O-Ring	2
7	IP30461190030	Spring	1 54	IP30661220030	Adjust Screw	1
8	IP30461200210	Air inlet Valve	1 55	IP41325047000	Pin	4
9	IP30461270020	Washer	1 56		Oil Return Valve	1
10	IP30080440030	Suspension loop	1 57	IP40502500000	Ball	1
11	IP41230250030	Pin	1 58	IP35242730000	Oil Return Spring	1
12	IP30070510110	Handle	1 59	IP35242380030	Oil Return Valve At	1
13	IP35040660000	Switch place	1 60	IP30130320000	Drive Blade	2
14	IP35040650030	Valve axle of the switch	1 61	IP30090330000	Blade Spring	2
15	IP35280170000	Straight Housing	1 62	IP35260300000	Main Shaft-H	1
16	IP35281830000	Rubber Grip	1 63	IP30060410030	Sleeve	1
17	IP35302410000	The plate	1 64	IP30060420030	Spring	1
18	IP42117002000	Rivet	4 65	IP30060400030	Washer	1
19	IP30480640010	R.L switch	1 66	IP30061310000	Snap	1
20	IP30460740030	Washer	1 67	IP40503000000	Ball	1
21	IP30460750030	Screw	1 68	IP35240290000	Oil Hydraulic Cylinder	1
22	IP30580970210	Rear Balanced Switch	1 69	IP35241070000	Spring	1
23	IP40330015010	O-Ring	1 70	IP40503000000	Ball	1
24	IP30490940030	piston	1 71	IP40300011010	O-Ring	1
25	IP30660930000	Spring	1 72		Control Core	1
26	IP40503500000	Ball	1 73	IP41315040000	Pin	1
27	IP30490920210	Washer	1 74	IP35241220030	Adjust Screw	1
28	IP40330017010	O-Ring	1 75	IP40300012010	O-Ring	1
29	IP35040910000	Equilibrate the switch	1 76	IP35242710000	Pressure Relief Valve Two	1
30	IP30080710000	Spring	1 77	IP35242700000	Pressure Relief Valve	1
31	IP40503000000	Ball	1 78	IP35243410000	Jam	1
32	IP40300018010	O-Ring	1 79	IP30481250000	Xo-Ring	1
33	IP35040960230	Wind direction plate	1 80	IP30221260210	Xo-Washer	1
34	IP40800001001	Bearing	1 81	IP35240280000	Liner Plate	1
35	IP35280500110	Front plate	1 82	IP41215050030	Pin	2
36	IP35240560000	Rotor	1 83	IP40300042010	O-Ring	1
37	IP35240490000		9 84	IP40300040010	O-Ring	1
38	IP41220160030	Pin	1 85	IP30221210030	Oil Screw	1
39	IP35280550110	Cylinder	1 86	IP35240260030	Linet Casing	1
40	IP41220050030	Pin	1 87	IP30060360000	Washer	1
41	IP41320040000	Pin	1 88	IP30070090000	Bushing	1
42	IP35240430110	Rear plate	1 89	IP35240020220	Front Casing	1
43	IP40800014000	Bearing	1 90	IP40116280030	Screw	1
44	IP35240390030	Connexion sets	1 91	IP35242470000	The Pressure Relief Spring	1
45	IP35242430000	Driving seat gasket	1 92	IP35242720000	Pressure Relief Valve Three	1
46	IP35240350030	Pressure plate	1		/	
		<u> </u>		•	IDC 0000	D 17004 CE

IPS-2228-P-1709A-C5



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: AUTO SHUT OFF OIL PULSE SCREWDRIVER (STRAIGHTE TYPE)

-HIGH PRESSURE TOOL

Model/ Serial No.: IPS-2228

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

2022/12/1

Mike Su - Managing Director

Taipei, Taiwan



NOTE



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