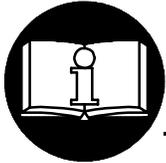


**MODEL LA431 ORBITAL SANDER****▲ WARNING**

**IMPORTANT INFORMATION CONTAINED IN OPERATION AND  
MAINTENANCE MANUAL FOR SAFE TOOL OPERATION.  
THIS MATERIAL MUST BE READ PRIOR TO OPERATING THE TOOL.**

**FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD RESULT IN INJURY.**

1. Always operate, inspect and maintain this tool in accordance with Recommendations for Proper Use of Hand Operated/Hand Held Pneumatic Tools (PNEUROP 18/1986).
2. For safety, top performance, and maximum durability of parts, operate this tool at 90 psig (6.2 bar/620 kPa) maximum air pressure with 3/8" (10 mm) inside diameter air supply hose.
3. Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool.
4. Keep hands, loose clothing and long hair away from rotating end of tool.
5. Anticipate and be alert for sudden changes in motion during start up and operation of any power tool. High reaction torques can occur with tools that control output rpm through stall, geared or clutch type mechanisms at or below the recommended air pressure.
6. Check for excessive speed and vibration before operating.
7. Sanding Pad may continue to rotate briefly after throttle is released.
8. Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
9. For personal protection, do not remove any labels. Replace any damaged label.
10. Use only recommended Ingersoll-Rand accessories.
11. These sanders will operate at the free speed specified on the nameplate if the air supply line furnishes 90 psig (6.2 bar/620 kPa) air pressure at the tool. Operation at higher air pressure will result in excessive speed.

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**LUBRICATION**


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**Oil:** A good quality SAE20 or 20W motor oil.  
**Grease:** Ingersoll-Rand No. 67.

We recommend the use of Ingersoll-Rand No. C11-04-G29 Filter-Lubricator-Regulator Unit in the air supply line. Attach the unit as close to the tool as practical.

**After each eight hours of operation**, unless an air-line lubricator is used, inject 1/2 cc of the recommended oil into the air inlet before attaching the hose.

**NOTICE**

The use of other than genuine Ingersoll-Rand replacement parts may result in safety hazards, decreased tool performance, and increased maintenance, and may invalidate all warranties.

Ingersoll-Rand is not responsible for customer modification of tools for applications on which Ingersoll-Rand was not consulted.

Repairs should be made only by authorized trained personnel. Consult your nearest Ingersoll-Rand Authorized Servicenter.

It is the responsibility of the employer to place the information in this manual into the hands of the operator.

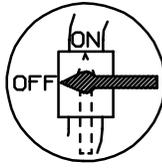
# WARNING LABEL IDENTIFICATION

## ⚠ WARNING

FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD RESULT IN INJURY.

	<b>⚠ WARNING</b>
	Always wear eye protection when operating or performing maintenance on this tool.

	<b>⚠ WARNING</b>
	Always wear hearing protection when operating this tool.

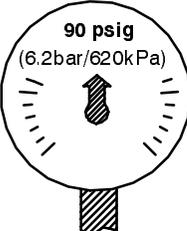
	<b>⚠ WARNING</b>
	Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool.

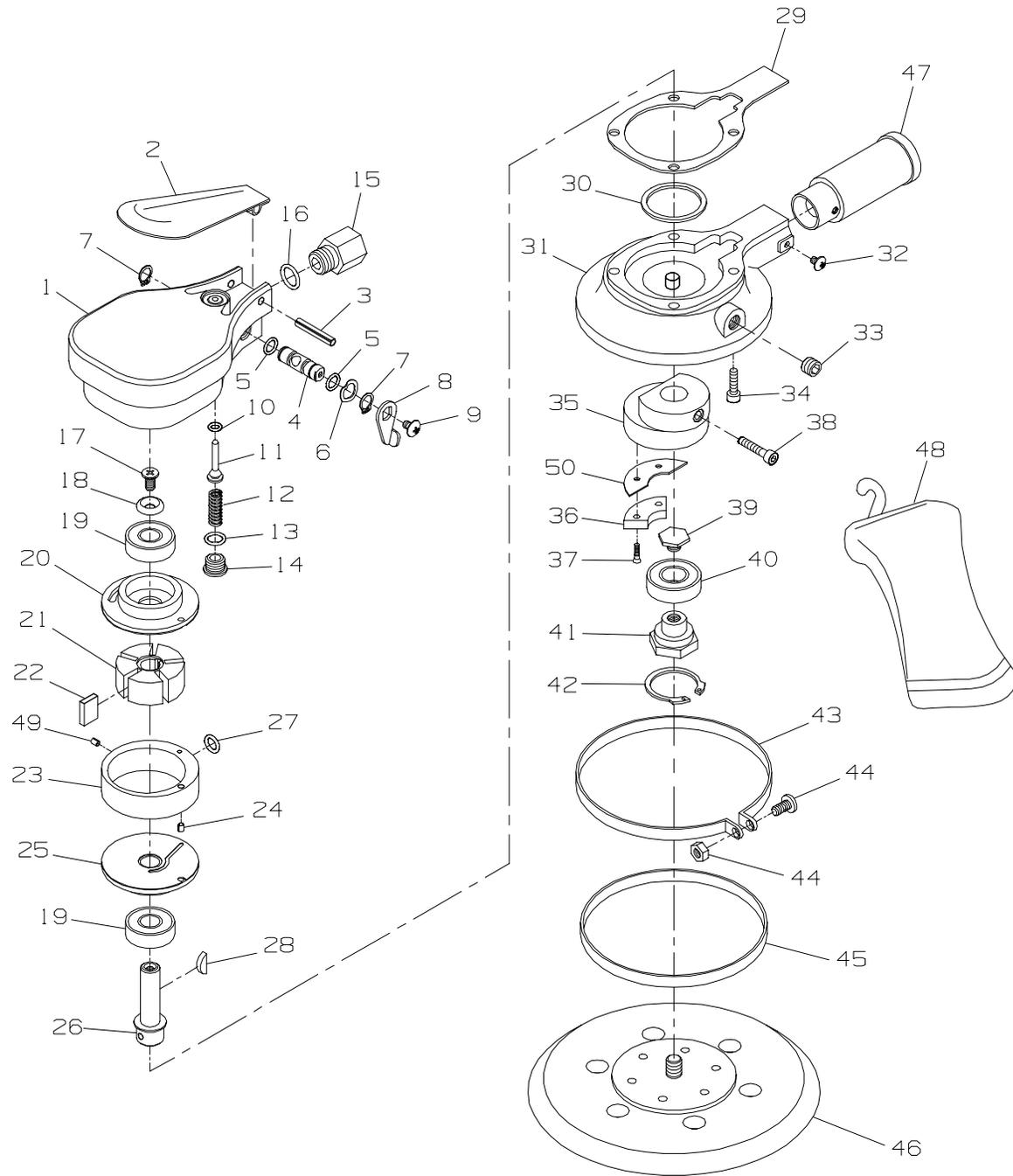
	<b>⚠ WARNING</b>
	Air powered tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions may be harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.

	<b>⚠ WARNING</b>
	Do not carry the tool by the hose.

	<b>⚠ WARNING</b>
	Do not use damaged, frayed or deteriorated air hoses and fittings.

	<b>⚠ WARNING</b>
	Keep body stance balanced and firm. Do not overreach when operating this tool.

	<b>⚠ WARNING</b>
	Operate at 90 psig (6.2 bar/620 kPa) Maximum air pressure.



PART NUMBER FOR ORDERING



PART NUMBER FOR ORDERING



1	Body .....	LA431-1	27	O-ring .....	LA431-24-2
2	Lever .....	LA431-2	28	Key .....	LA431-28
3	Pin .....	LA431-3	29	Gasket .....	LA431-29
4	Valve .....	LA431-4	30	Gasket .....	LA431-30
5	O-ring (2) .....	LA431-5	31	Lower Body .....	LA431-31
6	Wave Washer .....	LA431-6	32	Screw .....	LA431-32
7	Snap Ring (2) .....	LA431-7	33	Plug .....	LA431-33
8	Regulator .....	LA431-8	34	Screw (4) .....	LA431-34
9	Screw .....	LA431-9	35	Balancer .....	LA431-35
10	Throttle Valve O-ring .....	LA431-100	36	Weight .....	LA431-36
11	Throttle Valve .....	LA431-101	37	Screw (2) .....	LA431-37
12	Throttle Valve Spring .....	LA431-12	38	Screw .....	LA431-38
13	Screw O-ring .....	LA431-13	39	Bolt .....	LA431-39
14	Screw .....	LA431-14	40	Bearing .....	LA431-40
15	Inlet Bushing .....	LA431-15	41	Spindle .....	LA431-41
16	O-ring .....	LA431-16	42	Snap Ring .....	LA431-42
17	Screw .....	LA431-17	43	Clamp .....	LA431-43
18	Washer .....	LA431-18	44	Screw Set .....	LA431-44
19	Bearing (2) .....	LA431-19	45	Rubber Cover .....	LA431-45
20	Bearing Plate .....	LA431-20	46	Pad .....	LA431-46
21	Rotor .....	LA431-21	47	Vacuum Hose .....	LA431-47
22	Vane (5) .....	LA431-22	48	Dust Bag .....	LA431-48
23	Cylinder .....	LA431-24-1	49	Pin .....	LA431-24-3
24	Pin .....	LA431-24-4	50	Spacer .....	LA431-102
25	Bearing Plate .....	LA431-20	*	Nameplate .....	LA431-301
26	Shaft .....	LA431-27			

\* Not illustrated.

### NOTICE

**SAVE THESE INSTRUCTIONS. DO NOT DESTROY.**

**When the life of the tool has expired, it is recommended that the tool be disassembled, degreased and parts be separated by material so that they can be recycled.**