



Operator Instructions Includes – Foreseen Use, Work Stations, Putting Into Service, Operating, Dismantling, Assembly and Safety Rules.		Important Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in a safe accessible place.	
Manufacturer/Supplier Sioux Tools Inc. 2901 Floyd Boulevard P.O. Box 507 Sioux City, IA 51102 U.S.A. Tel No. 712-252-0525 Fax No. 712-252-4267		Product Type Jitterbug Air Sander	RPM 8,000 Cycles Per Min.
		Model No/Nos 5559	Serial No.
Product Net Weight 4.5 lbs 2.0 Kg	Recommended Use Of Balancer Or Support NO	Recommended Hose Bore Size – Minimum 5/16 Ins 8 M/M	Recommended Max. Hose Length 30 Ft 10 M

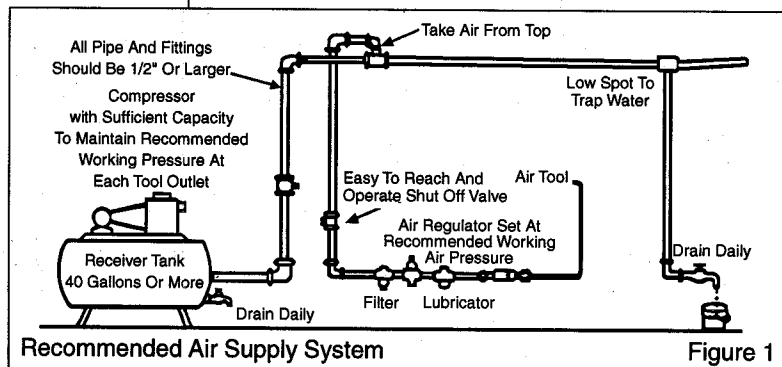
Air Pressure		Noise Level: Sound Pressure Level 84.5 dB(A)	
Recommended Working Maximum	4.2 bar 60 PSI 4.2 bar 60 PSI	Test Method: Tested in accordance with Pneurop test code PN8NTC1 and ISO Standard 3744	

SAFETY MESSAGES Personal Safety Equipment Use – Safety Glasses YES Use – Safety Gloves Use – Safety Boots Use – Breathing Masks Use – Ear Protectors YES	WARNING Always Read Instructions Before Using Power Tools Always Wear Safety Goggles Wear Hearing Protection Avoid Prolonged Exposure To Vibration	Vibration Level 4.5 Meters / Sec² Test Method: Tested in accordance with ISO standards 8662 Parts 1 & 8 Tested at 60 PSIG Air Pressure
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Safety rules when using a 5559 Sander

- Do not use as a grinder.
- Do not use polystyrene pads.
- Use accessories rated above 10,000 RPM.
- Prolonged exposure to vibration may cause injury.
- Read all instructions before using this tool. All operators must be fully trained in its use and aware of these safety rules.
- Do not exceed the maximum working air pressure.
- Use personal protection equipment as recommended.
- Use compressed air only at the recommended conditions.
- If the tool appears to malfunction, remove from use immediately and arrange for service and repair. If it is not practical to remove tool from service, then shut off the air supply to the tool and write or have written a warning note and attach it to the tool.
- If tool is to be used with a balancer or other suspension device, ensure that the tool is firmly attached to the suspension/support device.
- When operating the tool, always keep the body and particularly the hands away from the working attachment fixed to the tool.
- The tool is not electrically insulated. Never use the tool if there is any chance of coming into contact with live electricity.

- Always when using the tool, adopt a firm footing and/or position and grip the tool sufficiently only to overcome any reaction forces that may result from the tool doing work. Do not overgrip.
- Use only correct spare parts for maintenance and repair. Do not improvise or make temporary repairs. Major servicing and repairs should only be carried out by persons trained to do so.
- Do not lock, tape, wire, etc. the 'On/Off' valve in 'On' position. The throttle lever, etc. must always be free to return to the 'Off' position when released.
- Always shut off the air supply to the tool and press the 'On/Off' valve to exhaust the air from the feed hose before fitting, removing or adjusting the working attachment fitted to the tool.



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- Before using the tool, make sure that a shut off device has been fitted to the supply line and the position is known and easily accessible so that the air supply to the tool can be shut off in an emergency.
- Check hose and fittings regularly for wear.
- Take care against entanglement of the moving parts of the tool with clothing, hair, ties, cleaning rags, rings, jewelry, watches, bracelets, etc. This could cause the body or parts of the body to be drawn towards and in contact with the moving parts of the tool and could be very dangerous.
- It is expected that users will adopt safe working practices and observe all local, regional or country legal requirements when installing, using or maintaining the tool.
- Take care that the exhaust air does not point towards any other person or material or substance that could be contaminated by oil droplets. When first lubricating a tool or if the tool exhaust has a high oil content, do not allow the exhaust air to come near very hot surfaces or flames.
- Never lay the tool down until the working attachment has stopped moving.
- When the tool is not in use, shut off the air supply and press trigger/lever to drain the supply line. If the tool is not to be used for a period of time, first lubricate, disconnect from air supply and store in a dry average room temperature environment.
- If the tool is passed from one user to a new or inexperienced user, make sure these instructions are available to be passed with the tool.
- Do not remove any manufacturer fitted safety devices where fitted, i.e., wheel guards, safety trigger, speed governors, etc.
- Wherever possible, secure workpiece with clamps, a vise, etc. to make it rigid so it does not move during the work operation. Keep good balance at all times. Do not stretch or overreach.
- Try to match the tool to the work operation. Do not use a tool that is too light or heavy for the work operation. If in doubt, seek advice.
- In general terms, this tool is not suitable for underwater use or use in explosive environments — seek advice from manufacturer.
- Try to make sure that the work area is clear to enable the work task to be performed safely. If practical and possible, try to clear unnecessary obstructions before starting work.
- Always use air hose and couplings with minimum working pressure ratings at least 1 1/2 times the maximum working pressure rating of the tool.

Foreseen Use Of The Tool – 5559

The tool is designed for the purpose of cleaning or sanding of a variety of materials typically metal, wood, plastic materials, etc. The orbital action reduces the amount of abrasive grinding marks and hence is primarily a finishing sanding tool. It can be used with a variety of grades of abrasive paper which is held in position by two clamps.

The tool can be used in conjunction with water if this is a requirement for improved finishing to reduce dust or with wet and dry abrasive paper.

Do not use the tool for any other purpose than that for which it has been designed and use only abrasive paper as described.

Do not modify the tool for any other use or for its use as a sander without first consulting the manufacturer or his authorized representative.

Work Stations

The tool should only be used as a handheld, hand operated tool. It is always recommended that the tool is used when standing on a solid floor. It can be used in other positions, but before any such use, the operator must be in a secure position having a firm grip and footing and be aware of the safety rules to be obeyed when using the sander.

Putting Into Service

Air Supply

Use a clean lubricated air supply that will give a measured air pressure at the tool of 60 PSIG (4.2 bar) when the tool is running with the trigger/lever fully depressed. Use recommended hose size and length. It is recommended that the tool is connected to the air supply as shown in figure 1. Do not connect the tool to the air line system without incorporating an easy to reach and operate air shut off valve. The air supply should be lubricated. It is strongly recommended that an air filter, regulator, lubricator (FRL) is used as shown in Figure 1 as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equipment can be obtained from your supplier. If such equipment is not used, then the tool should be lubricated by shutting off the air supply to the tool, depressurising the line by pressing the lever on the tool. Disconnect the air line and pour into the hose adaptor a teaspoonful (5ml) of a suitable pneumatic motor lubricating oil preferably incorporating a rust inhibitor. Reconnect tool to air supply and run tool slowly for a few seconds to allow air to circulate the oil. If tool is used frequently, lubricate on daily basis and if tool starts to slow or lose power.

It is recommended that the air pressure at the tool while the tool is running is 60 PSI/4.2 bar.

Operating

Select a suitable abrasive paper (see Section "Foreseen Use Of The Tool") and make sure that it is fixed securely to the tool. Connect to suitable air supply as recommended.

Apply the sander lightly to the work and allow the abrasive paper to cut. Take great care when sanding around sharp edges and surfaces to avoid the pad snagging i.e. the pad may be brought to an abrupt stop or considerably slowed which will cause the tool to kick in the hands. It is always recommended to use safety glasses and a breathing mask. The sanding of certain materials may create a hazardous dust which may require special breathing equipment. Check before using the tool. Even if the machine has a low noise level, the actual sanding process may cause a noise level such that ear protectors will be required. If there are sharp areas on the material being sanded, safety gloves are recommended.

Do not continue to use abrasive sheets that are worn or clogged. This will make the sanding process inefficient and the need to apply unnecessarily high forces to the tool.

Do not use undersized or oversized sanding sheets. The lever on the top of the tool is the on/off valve (1). It can be used to vary the volume of compressed air fed to the motor which will vary the speed of the sander. Turn regulator (5) with a screwdriver to vary air flow. An air strainer is located in the inlet bushing (3). Check periodically for blockage, particularly if the tool slows or loses power. To clean strainer, remove inlet bushing (3) from body (2).

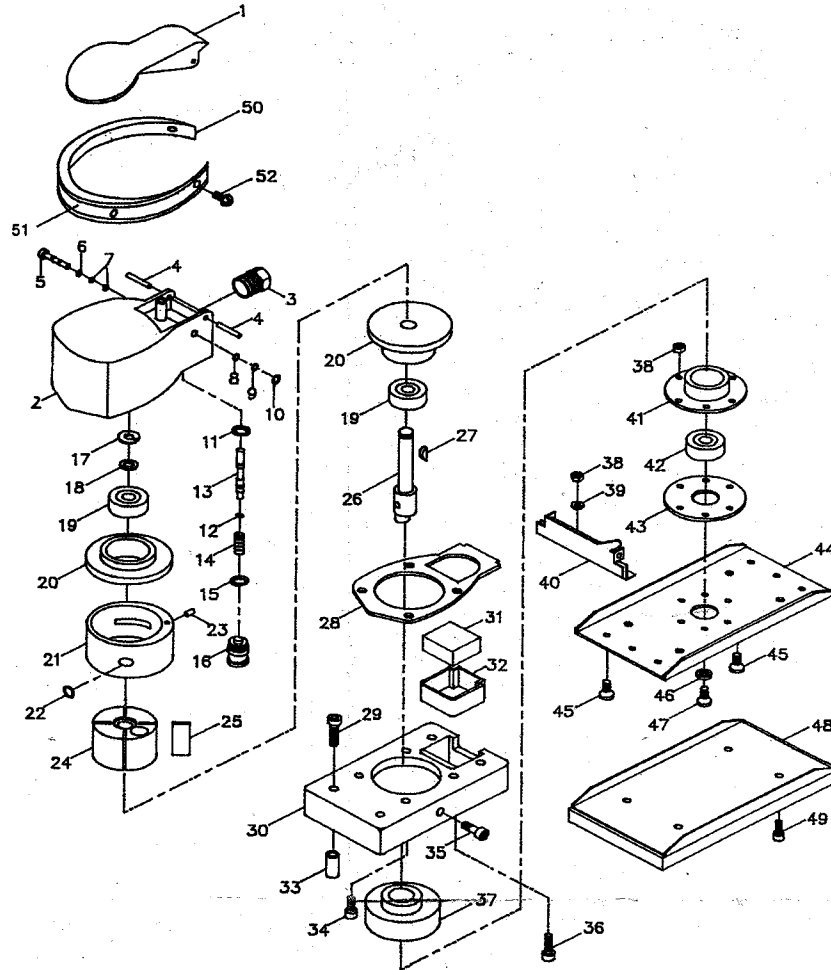
Dismantling & Assembly Instructions

Disconnect tool from air supply. Operate clamps fitted to shoe plate to release abrasive paper as fitted. Remove 4 screws (52) and remove rubber grip (50) and steel grip (51). Remove 4 screws (49) and release sanding pad (48). Remove 1 screw (47) with washer (46) and pull off shoe plate (44) and remove 12 screws (45), 12 nuts (38), and 6 spring washers (39) to release paper clamps (40), bearing housing (41), ball bearings (42), and bearing plate (43). Insert an allen key through the hole in the side of base (30) into balance lock screw (35), (Note: it may be necessary to apply heat to the balance lock screw (35) to soften the locking sealant used on the thread), then unscrew it to pull off balance (37). Remove 4



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**Jitterbug
Air Sander**



Ref. No.	Part No.	Description
1	505002	Lever
2	505005	Body
3	505006	Inlet Bushing
4	505007	Lever Pin
5	505011	Regulator
6	505092	Rubber Washer
7	505010	"O" Ring (3")
8	505093	Rubber Washer
9	505094	Washer
10	505009	Retaining Ring
11	505046	"O" Ring
12	505014	"O" Ring
13	505015	Plunger
14	505013	Spring
15	505095	"O" Ring
16	505033	Plug
17	505016	Retaining Ring
18	505044	Wave Washer
19	505017	Ball Bearing (2")
20	505018	End Plate (2")
21	505019	Cylinder
22	505096	"O" Ring
23	505045	Pin
24	505021	Rotor
25	505091	Rotor Blade (Set of 4)
26	505022	Rotor Shaft
27	505023	Key
28	505024	Gasket

Ref. No.	Part No.	Description
29	505026	Mount Screw (4")
30	505025	Base
31	505043	Muffler
32	505012	Deflector
33	505028	Rubber Post (4")
34	505029	Cap Screw (2")
35	505031	Balance Lock Screw
36	505030	Cap Screw (2")
37	505020	Balance
38	505032	Nut (12")
39	505027	Spring Washer (6")
40	505038	Paper Clamp (2")
41	505034	Bearing Housing
42	505035	Ball Bearing
43	505036	Bearing Plate
44	505041	Shoe Plate
45	505040	Screw (12")
46	505037	Washer
47	505039	Screws
48	505042	Sanding Pad
49	505097	Screw (4")
50	505003	Rubber Grip
51	505098	Steel Grip
52	5050004	Grip Screw (4")
Not Shown	505047	Name Plate
Not Shown	505048	Label Warning
Not Shown	505049	Decal Sioux

*Order Quantity as Needed

mount screws (29) and remove rubber posts (33). Remove 4 cap screws (34) and take off gasket (28). From base (30), take out muffler (31) and deflector (32). Unscrew plug (16) with O-ring (15) and remove spring (14) and plunger (13) with O-rings (12 & 11). Remove lever pins (4) to free lever (1). Remove inlet bushing (3) and ease off retaining ring (10) and push out regulator (5) from body (2) to release rubber washer (6), 2 O-rings (7), rubber washer (8), and washer (9). Pull out motor assembly from body (2) noting for reassembly how locating pin (23) in the side of cylinder (21) locates in a slot in body (2). Remove O-ring (22) from cylinder (21) and retaining ring (17) from rotor shaft (26) and take off wave washer (18). Pull off end plate (20) with ball bearing (19). Remove cylinder (21) and take out 4 rotor blades (25) from rotor (24). Pull off rotor (24) and take out key (27), then remove end plate (20) with ball bearing (19) assembly from rotor shaft (26). With a suitable punch, tap out ball bearings (19) from each end plate.

Reassembly

Clean all parts and examine for wear. Use only manufacturer or authorized distributor supplied spare parts. Look in particular for wear on seals, ball bearings and blades. Coat all parts in a pneumatic tool lubricating oil, one preferably containing a rust inhibitor, and reassemble in the reverse order. Assure all parts are tight and that lever and regulator mechanism operate freely. With lever depressed, pour 5 ml of a suitable pneumatic tool oil into inlet bushing (3) and release lever. Connect to a suitable air supply and run this tool for 2 or 3 seconds to allow the oil to circulate.

Operation Specification	
Air Consumption	Average cfm 3.0
Air Inlet Thread	1/4-18NPT
Length	8" (203mm)
Width	3.75 ins. (95mm)
Paper Size	3.75 x 9.0 ins (95 x 229mm)
at 60 PSIG	

Notes

Notes

Declaration of Conformity Sioux Tools Inc.

2901 Floyd Boulevard, P.O. Box 507, Sioux City, Iowa 51102

declare under our sole responsibility that the product

Model 5559 Jitterbug Air Sander, Serial Number

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

EN792 (Draft), EN292 Parts 1 & 2, ISO 8662 Parts 1 & 8, Pneurop PN8NTC1

following the provisions of **89/392/EEC as amended by 91/368/EEC & 93/44/EEC Directives**


R.V. Caskey (President)

Name and signature or equivalent marking of authorized person

This pdf incorporates the following model numbers:
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