



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 Straight Line Air Sander	RPM 2,500 Cycles Per Min.
		Model No/Nos 5560	Serial No.
Product Net Weight 6.8 lbs 3.1 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 Recommended Working 6.2 bar 90 PSI Maximum 6.2 bar 90 PSI		Noise Level: Sound Pressure Level 87.0 dB(A) Sound Power Level 98.0 dB(A) 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 14.9 Meters / Sec² Test Method: Tested in accordance with ISO standards 8662 Parts 1 & 8 Tested at 90 PSIG Air Pressure	
Safety rules when using a 5560 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.	
		<p>Receiver Tank 40 Gallons Or More Compressor with Sufficient Capacity To Maintain Recommended Working Pressure At Each Tool Outlet Filter Lubricator Air Tool Air Regulator Set At Recommended Working Air Pressure Easy To Reach And Operate Shut Off Valve Take Air From Top Low Spot To Trap Water Drain Daily</p>	

Recommended Air Supply System

Figure 1

- 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 – 5560

The 5560 Straight Line Sander has a reciprocating sander pad and is designed for use in an automotive or industrial repair shop. It will produce a smooth and professional finish to most surfaces such as wood, sheet metal, machine steel, plastic fillers and fiberglass. Among its most common uses are for removing paint and/or rust from metal surfaces, feathering edges, shaping and smoothing welded or leaded surfaces and smoothing fiberglass and wood surfaces for further finishing.

It can be used with a variety of grades and grit size of abrasive paper which is held in position by 2 clamps. This 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 was 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 90 PSIG (6.2 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 trigger 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 90 PSI/6.2 bar.

Operating

The trigger (23) is the on/off valve for the tool and to vary the speed of the tool, it is necessary to adjust the pressure of the air supply fed to the tool. With the air supply disconnected fit abrasive paper tightly and squarely to the shoe. Connect to correct air supply. 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.

It is recommended always to use safety glasses and a breathing mask. The sanding of certain materials may cause a hazardous dust which may require the use of special breathing apparatus. 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 edges on the material being sanded or in the work area, wearing safety gloves is 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. An air strainer is in the inlet bushing (41). This should be checked periodically for blockage particularly if the tool starts to slow or lose power. It is necessary to remove the inlet bushing (41) from the rear cover (33) to clean the screen.

User Tips

- 1) Always hold sander with both hands applying equal pressure to front and rear hand holds.
- 2) For best results do not move sander back and forth along its own center line. Move sander in a side to side direction holding sander at an angle oblique to the direction it is being moved.
- 3) Use only premium grade sanding abrasives suited to the sanding operation to be performed.

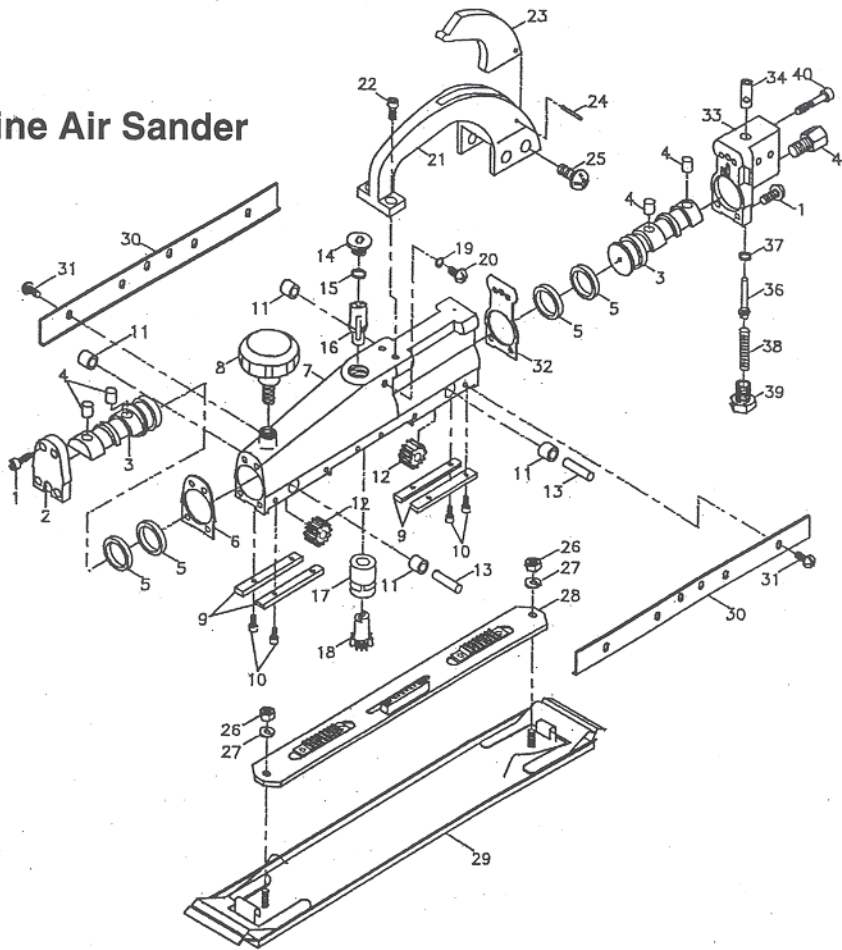
Dismantling & Assembly Instructions

Disconnect tool from air supply. Remove 2 nuts (26) with washers (27) and take off pad assembly (29). Remove 12 screws (31), remove straps (30), lift off carrier plate (28), and remove gear (18) from base of the tool. Unscrew plunger (14) with O-ring (15) and lift off adjusting shaft (16) from the top of the tool. Remove valve (17) if a replacement is required. Remove 4 screws (1) and take off front cover (2). Remove 2 screws (22) and 4 screws (25), then



5560

Straight Line Air Sander



Ref. No.	Part No.	Description
1	505051	Screw (6")
2	505052	Front Cover
3	505053	Piston (2")
4	505054	Plug (4")
5	505055	Piston Rings (4")
6	505056	Gasket
7	505057	Body
8	505058	Knob
9	505059	Wear Plate (4")
10	505060	Screw (8")
11	505061	Bearing (4")
12	505062	Gear (2")
13	505063	Gear Shaft (2")
14	505064	Plunger
15	505065	"O" Ring
16	505066	Adjusting Shaft
17	505067	Valve
18	505068	Gear
19	505069	"O" Ring
20	505070	Screw
21	505071	Handle
22	505072	Screws (2")

Ref. No.	Part No.	Description
23	505073	Trigger
24	505074	Roll Pin
25	505075	Screw (4")
26	505076	Nut (2")
27	505077	Washer (2")
28	505078	Carrier Plate
29	505079	Pad Assembly
30	505080	Strap (2")
31	505081	Screw (12")
32	505082	Gasket
33	505083	Rear Cover
34	505084	Bushing
36	505085	Valve Stem
37	505086	"O" Ring
38	505087	Spring
39	505088	Plug
40	505089	Screw (2")
41	505090	Hose Adapter
Not Shown	505050	Name Plate
Not Shown	505048	Warning Label
Not Shown	505049	Decal Sioux

*Order Quantity as Needed

remove handle (21). Drive out roll pin (24) and remove trigger (23.) Remove 2 screws (1) and 2 screws (40) and remove rear cover (33) and gasket (32). Remove hose adapter (41) and plug (39), then take out spring (38) and valve stem (36) with O-ring (37), remove bushing (34) if replacement is required. Tap out 2 gear shafts (13) to release gears (12) before removing pistons (3) from each end of housing (7) and replacing 2 plugs (4) and piston rings (5) if required, must tap out 4 bearings (11). Do not remove racks on the carrier plate (28) as these are riveted in position. Do not remove racks from the pistons (3). Unscrew knob (8) and 1 screw (20) with O-ring (19) and remove 8 screws (10) and 4 wear plates (9) from housing.

Reassembly

Clean all parts and examine for wear. Use only manufacturer or authorized distributor supplied spare parts. Coat all parts in pneumatic tool lubricating oil (one preferably containing a rust inhibitor) and reassemble in the reverse order, up to reassembly of the carrier plate (28). Looking at the underside of the tool with the rear cover (33) to the right, turn gear (12) fully clockwise, then turn gear (12) anti-clockwise 3 teeth at the middle. On the other side, turn gear (12) fully anti-clockwise, then turn gear (12) clockwise 3 teeth at middle place. Position point on gear (18) to point to the valve (17), then offer tool to carrier plate (28) level to the middle place. Fit straps (30) with screws (31) and check carrier plate (28) for the sliding movement. During this above process, grease racks on the carrier plate (28), gear (18), bearings (11), and gear (12). Refit pad assembly (29) with nuts (26) and washers (27). Check that all parts are tight and with trigger (23) depressed, pour 5 ml of a suitable pneumatic tool oil into hose adapter (41). Release trigger and connect to a suitable air supply and run 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	16" (406mm)
Width	2.75 ins. (70mm)
Paper Size	2.75 x 17.5 ins (70 x 444.5mm)
at 90 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 5560 Straight Line 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