



# Model 5264 & 5266 Lever Style Needle Scaler/Chipper

Form # Z495  
Date 2-02/A



## IMPORTANT

Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in a safe accessible place.

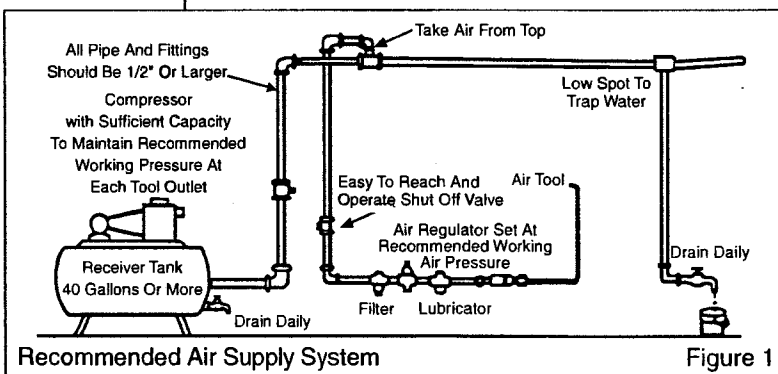
SAFETY MESSAGES		WARNING	Operator Instructions
Personal Safety Equipment			Includes:
Use – Safety Glasses	YES	Always Read Instructions Before Using Power Tools	<b>Safety Rules</b>
Use – Safety Gloves	YES	Always Wear Safety Goggles	<b>Foreseen Use</b>
Use – Safety Boots		Wear Hearing Protection	<b>Work Stations</b>
Use – Breathing Masks	YES	Avoid Prolonged Exposure To Vibration	<b>Putting Into Service</b>
Use – Ear Protectors	YES		<b>Operating</b>
			<b>Dismantling and Assembly.</b>

## Safety rules when using a 5264 & 5266 Needle Scaler/Chipper

- Always wear safety goggles.
- 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.
- Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects and other reproductive harm.
- 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 trigger/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.
- 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 throttle 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 – 5264 & 5266

This tool is designed for the purposes of scaling rust and dirt from metal surfaces, or chipping and riveting metals and stone. In general terms, a reciprocating free piston in the cylinder of the tool imparts a blow to the needles/chisel or working attachment. A list of suitable equipment to use with this tool can be provided by the manufacturer. Do not use the tool for any other purposes than that for which it was designed without consulting the manufacturer or an authorized representative.

Do not modify the tool even for its use as a needle scaler/chipper, etc. or for any other purpose without first checking any such modification with the manufacturer or the manufacturer's 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 extra safety precautions that must be observed when using a needle scaler or chisel.

## 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, depressurizing 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

Connect tool to a suitable air supply after having adjusted the position of the front needle cover, so that the needles project from the front end of the tool by the required amount. When using the tool, keep the tool loaded sufficiently to do the work. Do not overload the tool as this will reduce the power. Never operate the throttle lever unless the needles/chisel are in contact with the working surface. Do not run the tool unless the retainer is fitted. Always use correct size chisel shank to match the tool. Do not store needles/chisels at freezing or below freezing temperatures as this can make hardened steel tools brittle, which can cause breakage and lead to serious injury. Do not continue to use the tool with broken needles as this may damage the tool. Be aware that needles worn/blunt at cutting edge should not be used as such conditions promote tool breakage, reduce efficiency and increase vibration.

NOTE: Use only suitable pneumatic tool lubricants. When chipping/scaling in potentially explosive environments, use spark resistant chisels, usually made of beryllium copper. Consult the manufacturer of tool standard chisels about the source of supply.

## Dismantling & Assembly Instructions

Disconnect tool from air supply.

Unscrew hexagon socket bolt (28) with washer (29) and pull off needle cover (27) with spring (26), needles (24) and needle flange (25). Rotate chisel cover (20) until it is possible to see ball (18) centrally positioned in the hole in the side of the chisel cover (20) and it is then possible in this position to pull out needle shank (23) [or chisel (22) if used as a chipper]. Remove snap ring (21) and slide off chisel cover (20) and remove ball (18). The 4 O-rings (19) may be carefully pried off cylinder body (15). Pry off lock ring (17) noting how it locks via a tang located in a slot in cylinder cap (1) and a slot in the end of cylinder body (15). Place the chisel in a vise and locate tool on it using the square hole in the front of cylinder body (15) and with a spanner located on the flats on cylinder cap (1), unscrew the cylinder cap assembly. NOTE: when reassembling the tool, tighten cylinder cap (1) to cylinder body (15). Make sure that the threaded joint is tight and that a slot in the cylinder cap (1) lines up with a slot in the cylinder body (15) so that the lock ring (17) can be refitted by inserting the tang in matching slots. Drive out spring roll pin (8) and take off throttle lever (7). Unscrew throttle cap (6) and remove spring (5), throttle rod (3) and O-ring (4) from throttle rod (3). Do not press out throttle bushing (2) unless a replacement is required. Remove valve assembly from cylinder body (15) and pull the valve assembly apart to separate upper main valve (13), lower main valve (12), main valve case (10), main valve (9) and 2 pins (11), carefully noting and recording for reassembly how and where the 2 pins (11) locate. Note also at this time to replace the valve assembly into cylinder body (15) making sure that the two holes in the side of upper main valve (13) locate to line up with the two slots in the outer diameter of piston sleeve (16). Remove piston (14). Do not press out piston sleeve (16) unless a replacement is required.

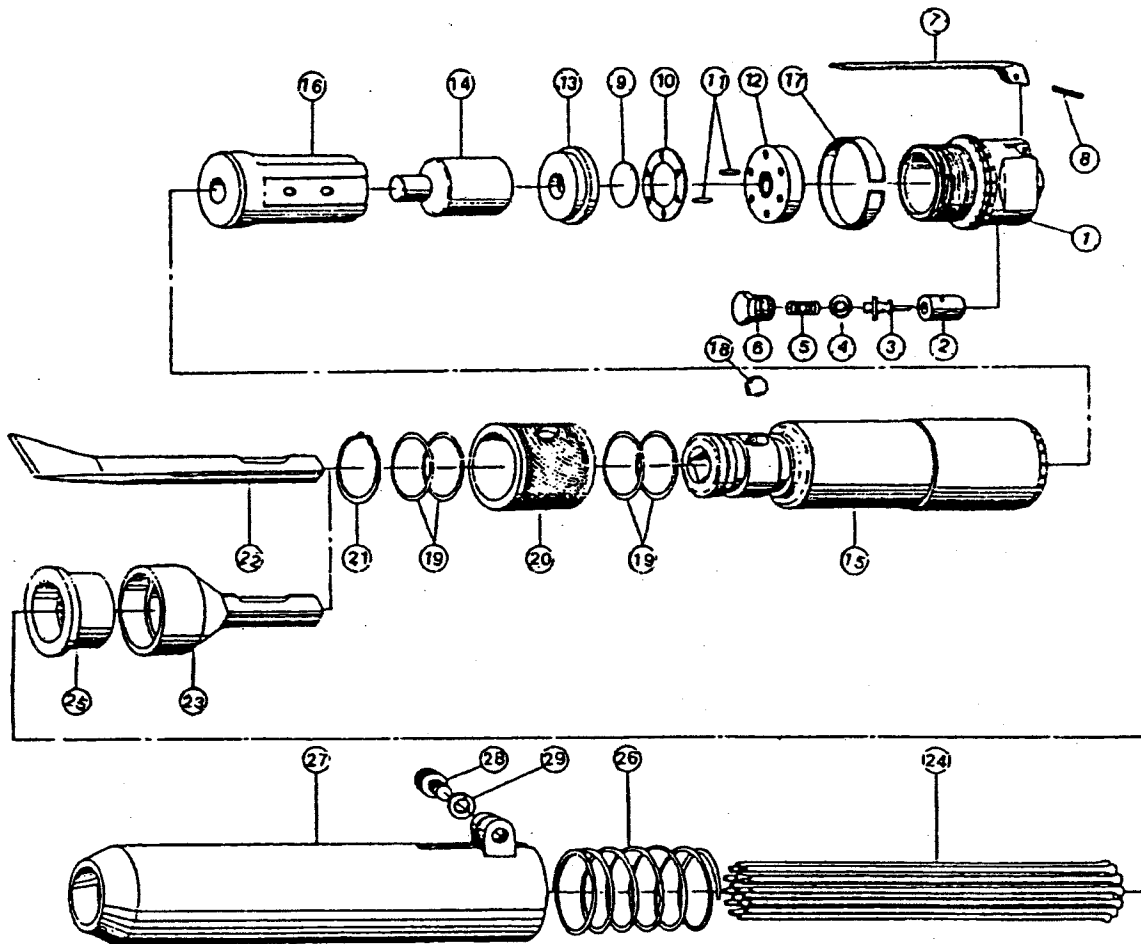
### *Reassembly*

Clean all parts and examine for wear and replace any worn parts or damaged parts with parts obtained from the manufacturer or an authorized distributor. Lightly coat all parts with a suitable pneumatic tool lubricating oil and assemble in reverse order.



5264 & 5266

## Lever Style Needle Scaler/Chipper



Ref. No.	Part No.	Description
1	505526	Cylinder Cap
2	505527	Throttle Bushing
3	505528	Throttle Rod
4	505529	O-Ring
5	505530	Spring
6	505531	Throttle Cap
7	505532	Throttle Lever
8	505533	Spring Roll Pin
9	505534	Main Valve
10	505535	Main Valve Case
11	505536	Pin (2)*
12	505537	Lower Main Valve
13	505538	Upper Main Valve
14	505539	Piston
15	505540	Cylinder Body

Ref. No.	Part No.	Description
16	505541	Piston Sleeve
17	505542	Lock Ring
18	505543	Ball
19	505544	O-Ring (4)*
20	505545	Chisel Cover
21	505546	Snap Ring
22	2267	Chisel (5264)
23	505547	Needle Shank (5266)
24	2261	Needle (Set of 19) (5266)
25	505548	Needle Flange (5266)
26	505549	Spring (5266)
27	505550	Needle Cover (5266)
28	505551	Hex Socket Bolt (5266)
29	505552	Washer (5266)
	505488	Warning Label (Not Shown)

\* Order Quantity As Required

Operation Specification	
Average Air Consumption	8.4 cfm (60 scfm)
Air Inlet Thread	1/4-18NPT
Overall Length	16.1" (410mm)
at 90 PSIG/6.2 bar	

Other Data	
Piston Diameter	25 x 50 x 11mm
Number Of Needles	19
Needle Diameter	3mm
Needle Length	180mm

#### NOTES

#### Manufacturer/Supplier

**Sioux Tools, Inc.**  
**117 Levi Drive**  
**Murphy, NC 28906**  
**U.S.A.**

**Tel No. 828-835-9765**

**Fax No. 828-835-9685**

**Product Type**  
**Lever type Needle**  
**Scaler/Chipper**

**RPM**  
**4,000**  
 Cycles Per Min.



**Model No/Nos**

**5264**  
**5266**

**Serial No.**

#### Product Net Weight

Scaler	Chipper	
<b>5.94</b>	<b>3.90</b>	lbs
<b>2.69</b>	<b>1.77</b>	Kg

#### Recommended Use Of

**Balancer Or Support**  
**NO**

#### Recommended Hose Bore

**Size – Minimum**  
**3/8 Ins 10 M/M**

#### Recommended Max.

**Hose Length**  
**30 Ft 10 M**

#### Air Pressure

<b>Recommended Working</b>	<b>6.2 bar</b>	<b>90 PSI</b>
<b>Maximum</b>	<b>6.2 bar</b>	<b>90 PSI</b>

**Noise Level: Sound Pressure Level 90.3 dB(A)**  
**Sound Power Level 101.7 dB(A)**

**Test Method: Tested in accordance with Pneurop**  
**test code PN8NTC1 and ISO Standard 3744**

#### SAFETY MESSAGES

##### Personal Safety Equipment

Use – Safety Glasses	<b>YES</b>
Use – Safety Gloves	<b>YES</b>
Use – Safety Boots	
Use – Breathing Masks	<b>YES</b>
Use – Ear Protectors	<b>YES</b>



#### WARNING



**Always Read Instructions**  
**Before Using Power Tools**



**Always Wear Safety**  
**Goggles**



**Wear Hearing Protection**



**Avoid Prolonged Exposure**  
**To Vibration**

**Vibration Level**

**14.5 Meters / Sec<sup>2</sup>**

**Test Method:**

**Tested in accordance with ISO**  
**standards 8662 Part 1**



#### Declaration of Conformity

**Sioux Tools Inc.**

**117 Levi Drive, Murphy, NC 28906, U.S.A.**

declare under our sole responsibility that the product

**Model 5264 & 5266 Needle Scaler/Chipper, 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 Part 1, Pneurop PN8NTC1**

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

**Gerald E. Seebeck (President)**

Name and signature or equivalent marking of authorized person