



NOTE: Parts are no longer available for this tool.

The manual will continue on the next page.



Model 8250

7" Polisher

Form # Z550

Date 4-99/A



IMPORTANT



READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

GENERAL SAFETY RULES

WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. **Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulated eliminates the need for the three wire grounded power cord and grounded power supply system.
2. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet.** Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
5. **When operating a power tool outside, use an outside extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

PERSONAL SAFETY

1. **Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
3. **Avoid accidental starting. Be sure switch is OFF before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch ON invites accidents.
4. **Remove adjusting keys or wrenches before turning the tool ON.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enable better control of the tool in unexpected situations.
6. **Use safety equipment. Always wear eye protection.** Dust mask, nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

1. **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
2. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
3. **Do not use the tool if switch does not turn it ON or OFF.** A tool that cannot be controlled with the switch is dangerous and must be repaired.
4. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.

5. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
6. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
8. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.






SERVICE





1. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel may result in a risk of injury.
2. **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual.** Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES FOR POLISHERS

- **Accessories must be rated for at least the speed recommended on the tool warning label.** Wheels and other accessories running over rated speed can fly apart and cause injury.
- **Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- **Wear safety goggles.**
- **Wear hearing protection.**
- **Do not use this tool as a grinder.** This tool is not guarded for use as a grinder and serious injury can result if used as a grinder.
- **Avoid prolonged exposure to vibration.** Prolonged exposure to vibration can cause injury.

SYMBOL DEFINITION

V	volts
A	amperes
Hz	hertz
W	watts
KW	kilowatts
μF	microfarads
l	liters
kg	kilograms
N/cm ²	newtons per square centimeter
Pa	pascals
h	hours
min	minutes
s	seconds
	alternating current
3 	three-phase alternating current
3 _N 	three-phase alternating current with neutral
	direct current
	

- n_o..... no load
- ..... alternating or direct current
- ..... Class II construction
- ..... splash-proof construction
- ..... watertight construction
- ../min revolutions or reciprocation per minute

EXTENSION CORD SELECTION

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found in this section. This table is based on limiting line voltage drop to 5 volts (10 volts for 230 volts) at 150% of rated amperes. If an extension cord is to be used outdoors, it must be marked with the suffix W-A following the cord type designation. For example SJTW-A to indicate it is acceptable for outdoor use.

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH PORTABLE ELECTRIC TOOLS

		Length of Cord in Feet									
		115V	25 FT	50 FT	100 FT	150 FT	200 FT	250 FT	300 FT	400 FT	500 FT
		230V	50 FT	100 FT	200 FT	300 FT	400 FT	500 FT	600 FT	800 FT	1000 FT
Amp Rating	0-2	18	18	18	16	16	14	14	12	12	
	2-3	18	18	16	14	14	12	12	10	10	
	3-4	18	18	16	14	12	12	10	10	8	
	4-5	18	18	14	12	12	10	10	8	8	
	5-6	18	16	14	12	10	10	8	8	6	
	6-8	18	16	12	10	10	8	6	6	6	
	8-10	18	14	12	10	8	8	6	6	4	
	10-12	16	14	10	8	8	6	6	4	4	
	12-14	16	12	10	8	6	6	6	4	2	
	14-16	16	12	10	8	6	6	4	4	2	
	16-18	14	12	8	8	6	4	4	2	2	
18-20	14	12	8	6	6	4	4	2	2		
		AWG									

OPERATION

Spindle Lock



WARNING

Unplug the tool and make sure the spindle has come to a **COMPLETE** stop before engaging the spindle lock

Lock the spindle by pressing the lock pin cover on top of the gear case and turning the spindle until the lock engages.

Attaching Pad

To attach the pad, screw the pad completely onto the spindle in a clockwise motion while holding the spindle lock button down. To remove, turn pad in a counterclockwise motion, while holding the spindle lock button down.

Switch

The tool is actuated by pressing the trigger lock button on the left side of the handle while squeezing the trigger switch under the handle at the same time. The trigger switch can then be released and the tool will remain running. To shut the tool off, squeeze and release the trigger switch.

Speed Control

The speed control dial is located on the top of the tool handle. This dial is used to set the speed of the polisher to match the condition of the job.

DIAL SETTING VS TOOL SPEED

Dial Setting	Tool Speed RPM
1	1,100
2	1,300
3	1,450
4	1,600
5	1,750
6	1,900

Lubrication

After approximately 1500 hours of operation, return the tool to a Sioux service center for lubrication.

MAINTENANCE



WARNING

Unplug the tool before performing any of the following maintenance operations.

Brushes

If excessive arcing occurs, unplug the tool and inspect the brushes by unscrewing brush cap from each side of tool. If the brushes are worn excessively (to less than 6 mm), they must be replaced. Use only Sioux replacement brushes intended for this tool.

Cleaning

Remove wool and compound from the tool by blowing compressed air into the air vents.

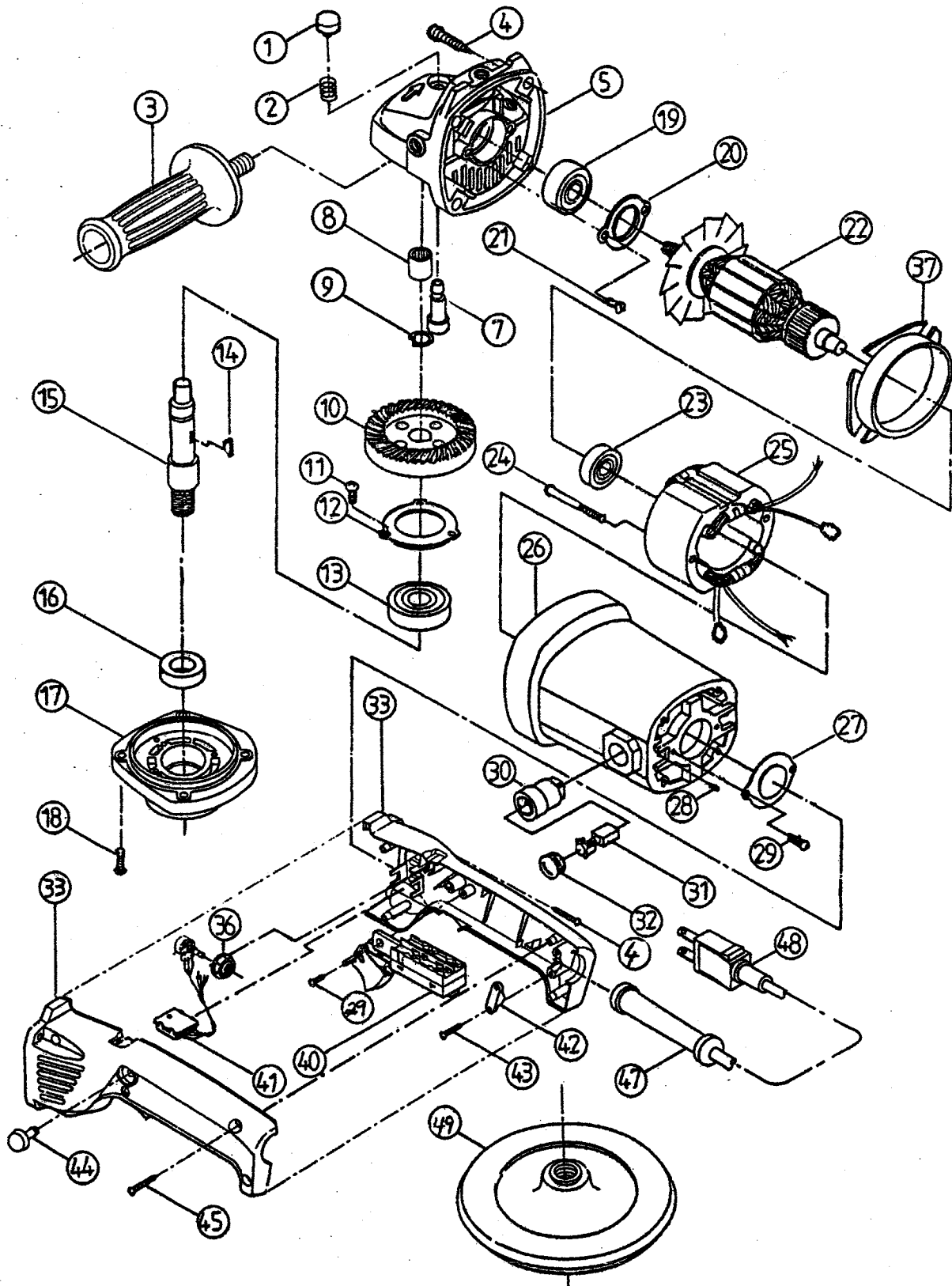
CAUTION! When performing the above operation, direct the tool and air stream away from people.

SPECIFICATIONS

Input	115 V, 60 Hz, 7.5 A
No Load Speed, N _o	1,100 - 1,900 RPM
Horsepower	1 (750 W)
Spindle Thread	5/8"-11UNC
Overall Length	18.6" (474 mm)
Weight	8.4 lbs. (3.8 kg)



8250 7" POLISHER



SIOUX 8250 PARTS LIST

Item	Description	Sioux Part No.
1	Lock Pin Cover	505650
2	Spring	505651
3	Auxiliary Side Handle	505652
4	Tapping Screw (8)	505653
5	Gear Housing	505654
7	Lock Pin	505655
8	Needle Bearing	505656
9	Retaining Ring	505658
10	Spiral Bevel Gear	505659
11	Pan Head Screw (3)	505661
12	Bearing Retainer	505681
13	Ball Bearing	505683
14	Woodruff Key	505684
15	Spindle	505837
16	Dust Seal	505838
17	Front Cover	505839
18	Pan Head Screw (4)	505840
19	Ball Bearing	505841
20	Bearing Retainer	505842
21	Pan Head Screw (2)	505843
22	Armature Assembly	505844
23	Ball Bearing	505845
24	Pan Head Screw (2)	505846
25	Field Assembly	505847
26	Motor Housing	505848
27	Bearing Retainer	505849
28	Hex Screw (2)	505850
29	Tapping Screw (3)	505851
30	Carbon Brush Holder	505852
31	Carbon Brush	505853
32	Bakelite Nut (2)	505854
33	Handle Set (2 sides)	505855
36	Variable Resistance Plate	505856
37	Fan Guide	505857
40	Switch	505858
41	Variable Speed Keyer	505859
42	Strain Relief	505860
43	Tapping Screw (2)	505861
44	Push Pole	505862
45	Tapping Screw (4)	505863
47	Cord Guard	505864
48	Power Supply Cord	505865
49	Sponge Velcro Pad	505866

NOTES

NOTES

This pdf incorporates the following model numbers:

8250