

NOTE: Parts are no longer available for this tool.

The manual will continue on the next page.



INSTRUCTIONS AND PARTS LIST FOR 8500 SERIES IMPACT WRENCH

GENERAL SAFTEY RULES

WARNING! 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.

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. Don't 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 outdoor 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 tooling 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.

TOOLS 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 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 IMPACT WRENCHES

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Hold tool by insulated gripping surfaces when perfoming 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.

Avoid prolonged exposure to vibration. Prolonged exposure to vibration can cause injury.

SYMBOL DEFINITION

V volts
A amperes
Hzhertz
W watts
kW kilowatts
μF microfarads
I liters
kg kilograms
N/cm ² newtons per square centimeter
Pa pascals
h hours
min minutes
sseconds
alternating current
3 three-phase alternating current
3_{N} \bigcirc three-phase alternating current with neutral
direct current
n ₀ 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
	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
p Rating	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
Amp	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									

SWITCH

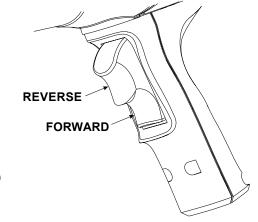
Pressing the lower part of the switch runs the tool in a forward (right hand thread) direction. Pressing the upper part of the switch reverses motor direction. This allows "rocking" fasteners to break them loose.

OPERATION

Position the impact wrench correctly, so that the socket fits straight on the fastener.

MAINTENANCE

- Blow out air vents with clean dry air periodically.
- Carbon Brushes should be regularly inspected for wear. Be sure tool is unplugged before inspecting brushes. To inspect brushes, unscrew the plastic brush inspection caps (located in the sides of the motor housing) and the spring and brush assemblies may be withdrawn from the tool. Keep brushes clean and sliding freely in their guides. Replace worn brushes.



LUBRICATION

This tool has been properly lubricated at the factory and is ready for use. Periodic relubrication will be necessary to maintain the tool in an efficient operating condition.

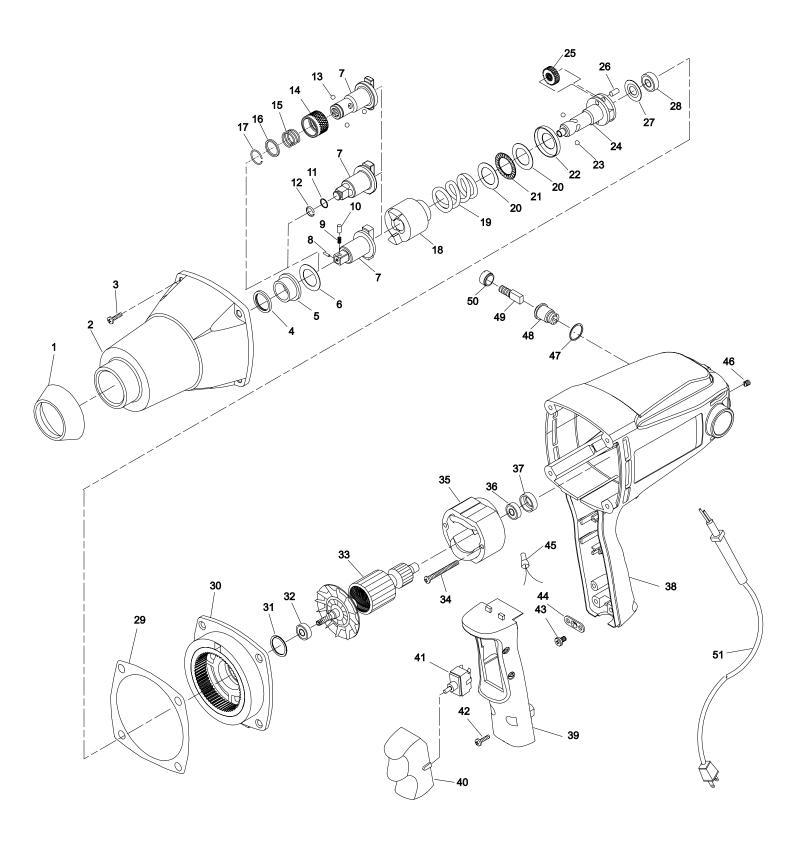
It is recommended that you contact your Sioux representative to have the tool lubricated in the following intervals. For continuous operation, have the tool lubricated after every 30 hours of use. With intermittent work, have it lubricated after every 50 hours of use. Use Sioux 1236 grease in impact mechanism assembly.

ACCESSORIES

Use only socket designed for use with impact wrenches. CAUTION: The use of any other attachment or accessory might be hazardous.

SPECIFICATIONS

No-load speed (RPM)	1800
Impacts per minute (BPM)	
Ultimate torque (LBS/FT)	
Input	



PARTS LIST FOR 8500 (120V) 1/2 SQ PIN TYPE ANVIL 8500J (230V) 1/2 SQ PIN TYPE ANVIL 8536 (120V) 7/16 HEX Q.C. ANVIL 8536J (230V) 7/16 HEX Q.C. ANVIL

	. Part		Fig.		
No.		Description	No.	No.	Description
1.	14299	Protector—Rubber	32.	66995	Bearing—Ball
2.	66983	Ass'y—Hammer Case (Includes Fig. 1, 4 & 5)	33.	66986	
3.	67002	Screw (4)*		67783	,
4.	30768	Seal	34.	66999	Screw (2)*
5.	67093	Bushing	35.	66987	Field (8500, 8536)
6.	10035	Bearing—Thrust		67782	Field (8500J, 8536J)
7.	66958	Anvil (Pin Type)(Includes Fig. 8-10)	36.	66995	Bearing
	66959	Anvil (Ring Type)(Includes Fig. 11, 12)	37.	66996	Mount—Bearing
	66961	Anvil (7/16 Q.C.)	38.	67004	Housing—Motor
8.	66968	Pin—Roll (Anvil)	39.	67005	Cover—Handle
9.	66966	Spring (Anvil)	40.	66990	Actuator
10.	66967	Button—Locking (Anvil)	41.	66989	Switch
11.	14311	Ring—"O"	42.	66998	Screw (2)*
12.	66969	Ring—Steel	43.	67000	Screw (2)*
13.	10324	Ball (3)*	44.	67001	Clamp—Cord
14.	34455	Retainer—Ball	45.	66988	Connector
15.	21414	Spring	46.	67003	Screw (2)*
16.	34456	Ring—Guide	47.	66994	Ring—"O"
17.	21487	Ring—Retainer	48.	66991	Holder-Brush (2)*
18.	66762	Hammer	49.	66992	Set—Brush And Spring
19.	66734	Spring	50.	66993	,
20.	67219	Race—Bearing Thrust (2)*	51.	66997	, ,
21.	67220	Thrust—Bearing		67781	Cord (8500J, 8536J)
22.	66765	Guide—Spring			
23.	10299	Ball—Steel 1/4" diameter (2)*			
24.	66763	Carrier—Pinion	NOT	PICTUR	ED:
25.	67392	Ass'y—Gear and Bearing (2)*		67760	Nameplate (8500)
26.	34121A	Pin (2)*		67533	Nameplate (8500J)
27.	25776	Washer—Pin Stop		67765	Nameplate (8536)
28.	10145	Ball—Bearing		67766	Nameplate (8536J)
29.	67209	Gasket		67534	Label—Identification (8500, 8500J)
30.	66766	Plate—Intermediate (Includes Fig. 31)		67791	Label—Identification (8536, 8536J)
31.	66941	Ring—Retaining		67091	Label—Warning
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*Order Quantity As Required

FURNISH CATALOG, SERIAL, AND MODEL NUMBER WHEN ORDERING PARTS



A WARNING



Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm.

AADVERTENCIA



El polvo generado al lijar, aserrar, afilar, taladrar y realizar otras tareas de construcción contiene sustancias químicas que podrían causar cáncer, malformaciones congénitas y otras alteraciones del aparato reproductor.



This pdf incorporates the following model numbers:

8500, 8500J, 8536, 8536J