

Owner's Manual



1/4 Sheet Sander

80152



CAUTION:

Before using this sander or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions.

- **General Safety Rules**
- **Specific Safety Rules and Symbols**
- **Functional Description**
- **Assembly**
- **Operation**
- **Maintenance**
- **Accessories**

GreatNeck Tools, LLC Mineola, NY 11501

Rev 7/10

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WARRANTY

GREATNECK® ONE YEAR LIMITED WARRANTY

If within one year from date of purchase, this product fails due to a defect in materials or workmanship, return the product with proof of purchase, postage prepaid to Great Neck Saw Mfrs.Inc., Mineola, NY 11501, for replacement with an item of equal or greater value. This warranty excludes incidental/consequential damages and failures due to misuse, abuse or abnormal wear and tear.

This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

This product is not guaranteed if used for industrial
or commercial purposes.

Customer Service 1-866-458-2472

WWW.GREATNECKTOOLS.COM
ALWAYS WEAR SAFETY GOGGLES
GREATNECK TOOLS LLC
MINEOLA, NY 11501
MADE IN CHINA

SPECIFICATIONS

Rating	120 V 60 Hz AC
Amperes	1.5 A
Oscillation speed	13,000 OPM (no load)
Sanding pad size	1/4 sheet
Weight	2 lb 13 oz (1.3 kg)

POWER TOOL SAFETY

⚠ WARNING: To avoid electrical hazards, fire hazards or damage to the pad sander, use proper circuit protection.

The sander is wired at the factory for 120 V operation. It must be connected to a 120 V, 15 A time delayed fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.



ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA REQUIREMENTS or ANSI SAFETY STANDARD Z87.1

FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection.



WARNING: Non-compliant eyewear can cause serious injury if broken during operation of a power tool.



⚠ WARNING: Always wear a dust mask designed for use when sanding.



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. Some examples of these chemicals are:

Lead from lead-based paints

Crystalline silica from bricks, cement and other masonry products

Arsenic and chromium from chemically-treated lumber

Your level of risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment such as dust masks that are specially designed to filter out microscopic particles.

SAVE THESE INSTRUCTIONS FOR REFERENCE

POWER TOOL SAFETY

GENERAL SAFETY 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.

WORK AREA

Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gas or dust. Power tools create sparks which may ignite the dust or fumes.

Keep bystanders, children and visitors away while operating the tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized plug 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 insulation eliminates the need for the three-prong grounded power cord and grounded power supply system.

Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is increased risk of electric shock if your body is grounded.

Don't expose power tools to rain or wet conditions. Water entering the power tool will increase the risk of electric shock.

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.

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

Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use the 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.

Dress properly. Do not wear loose clothing or jewelry.

Contain long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothing, jewelry or long hair can be caught in moving parts.

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 turned ON invites accidents.

Remove adjusting keys or wrenches before turning the tool ON. A wrench or key that is left attached to a rotating part of the tool may result in personal injury.

POWER TOOL SAFETY

Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat or hearing protection must be used under applicable conditions.

TOOL USE AND CARE

Use clamps or other practical method to secure and support the workpiece on a stable platform. Holding the work by hand or against your body is unsafe and may lead to loss of control.

Do not force the 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.

Do not use the tool if the switch does not turn it ON or OFF. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

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.

Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

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.

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

Tool service must be performed only by qualified personnel. Service or maintenance performed by unqualified personnel could result in risk of injury.

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

⚠ WARNING: For your safety, do not plug in your sander until you have carefully read and understood this Owner's Manual.

ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA REQUIREMENTS or ANSI SAFETY STANDARD Z87.1

FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection.



SAVE THESE INSTRUCTIONS FOR REFERENCE

SPECIFIC SAFETY RULES

⚠ WARNING: Non-compliant eyewear can cause serious injury if broken during operation of a power tool.

⚠ WARNING: Always use a dust mask when sanding.

Use hearing protection, particularly during extended periods of operation.

Do not wear gloves, neckties or loose clothing.

Secure workpiece. Use clamps or a vice to hold the work when practical. It is safer than using your hand and it frees both hands to operate the tool.

Do not sand material too small to be securely held.

Make sure there are no nails or foreign objects in the part of the workpiece to be sanded.

Always keep hands out of the path of the sanding pad. Avoid awkward hand positions where a sudden slip could cause your hand to move into the path of the sanding pad.

To avoid injury from accidental starting, always remove the plug from the power source before installing or removing a sandpaper or dust duct bag.

EXTENSION CORD GUIDELINES

Make sure your extension cord is the proper size. When using an extension cord, be sure to use one heavy enough to carry the current the tool will draw.

An undersized cord will cause a drop in line voltage resulting in loss of power and

overheating. The table below shows the correct size to use according to cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number the heavier the cord.

Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it. Protect your extension cord from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your power tools. This circuit must not be less than 14 gauge wire and should be protected with either a 15A time delay fuse or circuit breaker. Before connecting the power tool to the power source, make sure the switch is in the OFF position and the power source is the same as indicated on the nameplate. Running at lower voltage will damage the motor.



⚠ WARNING: Repair or replace damaged or worn extension cords immediately.










Select the appropriate extension cord gauge and length using the chart below.

MINIMUM GAUGE (AWG) EXTENSION CORDS (120 V use only)						
Ampere rating		Total length in feet				
M o r e t h a n	Not more than	25'	50'	100'	150'	
	0	6	18	16	16	14
	6	10	18	16	14	12
	10	12	16	16	14	12
	12	16	14	12	Not Applicable	

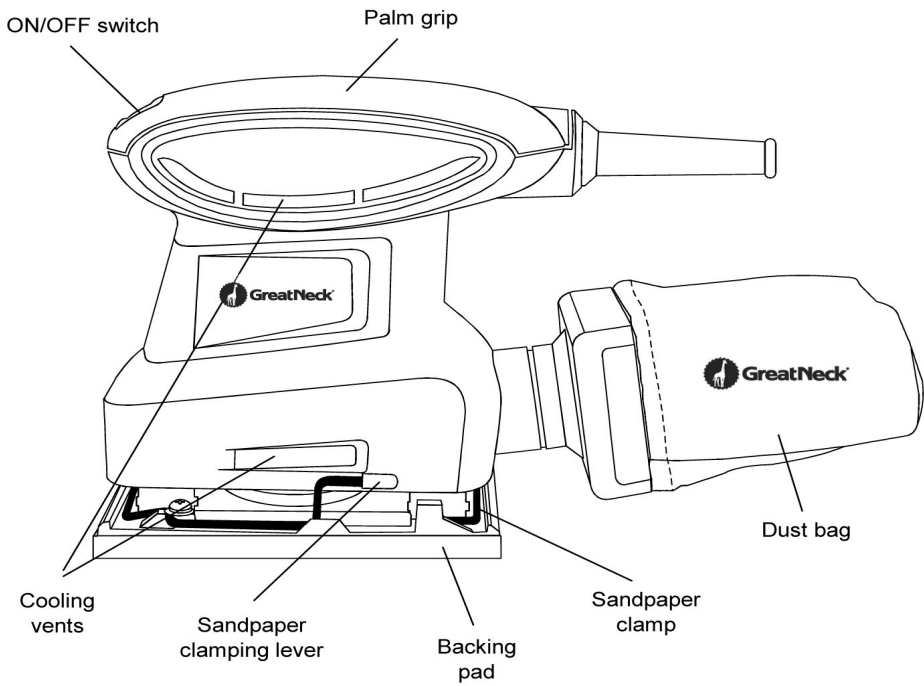
SYMBOLS

▲ WARNING: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

V	volts
A	amperes
Hz	hertz
W	watt
k W	kilowatts
μF	microfarads
L	litres
kg	kilograms
H	hours
N/ c m²	newtons per square centimetre
Pa	pascals
Mi n	minutes
S	seconds
	alternating current
	three-phase alternating current

	three-phase alternating current with neutral
	direct current
n_o	no load speed
	alternating or direct current
	class II construction
	splash proof construction
	watertight construction
	protective earthing at earthing terminal, Class I tools
.../m	revolutions or reciprocations per minute
Ø	diameter
0	off position
	arrow
	warning symbol

KNOW YOUR SANDER



ACCESSORIES & CARTON CONTENTS

AVAILABLE ACCESSORIES

⚠ WARNING: Use only accessories recommended for this sander. Follow instructions that accompany accessories. Use of improper accessories may cause injury to the operator or damage to the sander.

Do not use any accessory unless you have completely read the instructions or Owner's Manual for that accessory.

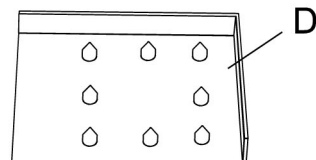
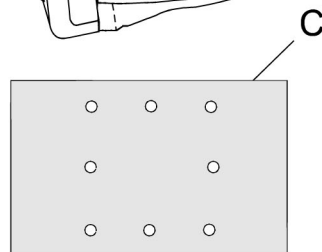
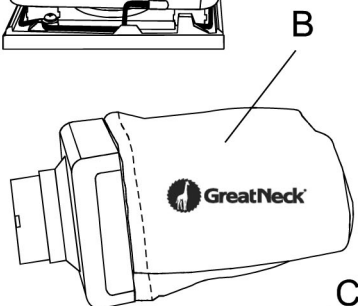
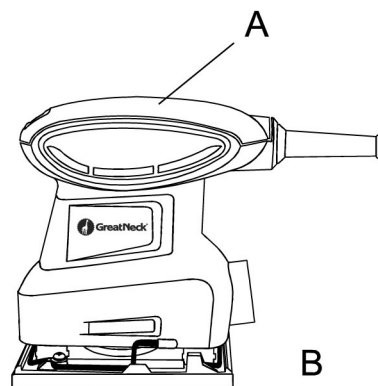
- Sandpaper

CARTON CONTENTS

⚠ WARNING: If any part is missing or damaged, do not plug the sander into the power source until the missing or damaged part is replaced.

Carefully unpack the sander. Compare contents against the "SANDER COMPONENTS" chart below.

⚠ WARNING: To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner or similar highly volatile solvents to clean the tool.



SANDER COMPONENTS

KEY	DESCRIPTION	QTY
A	Sander	1
B	Dust bag	1
C	Sandpaper	
	• 60 grit	1
	• 80 grit	1
	• 120 grit	1
D	Hole punch	1
	Instruction manual	1

ASSEMBLY & OPERATION

INSTALLING DUST BAG ASSEMBLY

1. Insert dust duct bag assembly sleeve (1) into dust chute (2) (see Fig. 1).
NOTE: Make sure the tabs (3) insert into the matching slots (4) in the dust chute.
2. Rotate dust chute sleeve CLOCKWISE to lock it into place.

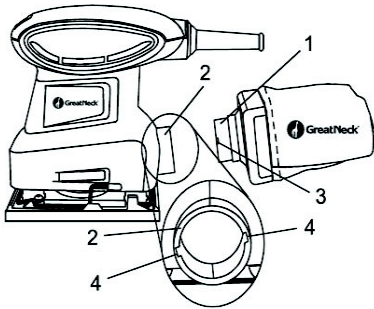


Fig. 1

REMOVING & CLEANING DUST BAG

1. Remove dust bag assembly by rotating it COUNTER-CLOCKWISE and pulling it out of the dust chute.
2. Remove the dust bag (1) from the dust bag support (2) by opening the elasticized end of the dust bag (3) and sliding it off the dust bag support (see Fig. 2).

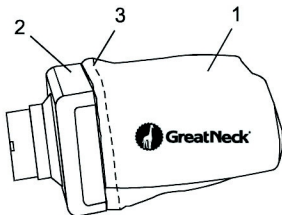


Fig. 2

3. Carefully shake the dust bag with the elasticized opening pointing downward to remove the sanding dust.
NOTE: It is best to perform this function outdoors over a trash can to prevent sanding dust from escaping into the work area.
4. Once the sanding dust is removed from the dust bag, reinstall the dust bag onto the dust bag support.
5. Reinstall the dust bag assembly into the dust chute as noted above.

INSTALLING SANDPAPER

⚠ WARNING: Unplug the sander from the power source before installing or changing sandpaper.

1. Lift up and outward on the front and rear sandpaper clamp levers (1) at the front and rear of the backing pad (2) (see Fig. 3).
2. Insert one end of the 1/4 sheet sandpaper (3) with grit side up into the open front sandpaper clamp (4), making sure it is aligned with the backing pad. Lift sandpaper clamp lever up and inward to lock sandpaper into clamp.

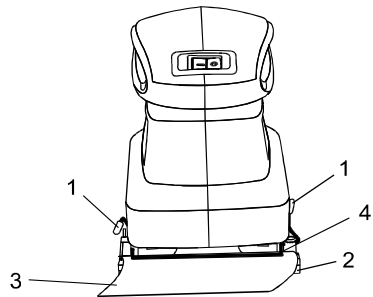


Fig. 3

ASSEMBLY & OPERATION

INSTALLING SANDPAPER – cont'd

3. Wrap sandpaper sheet (3) over backing pad and insert it into the open rear sandpaper clamp (5) (see Fig. 4).
NOTE: Make sure sandpaper is pulled tight over the backing pad for proper sanding operation.
4. Lift sandpaper clamp lever up and inward to lock sandpaper into clamp.

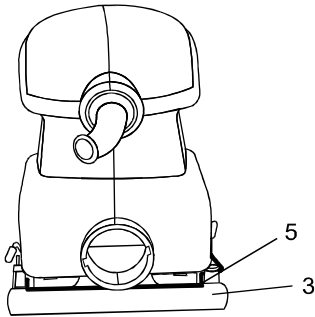


Fig. 4

PUNCHING HOLES IN SANDPAPER

The sandpaper must have 8 holes punched in it to allow the sanding dust to escape from the working surface. The pattern of these holes must match the hole pattern on the sanding pad. If the sandpaper you are using does not have the holes punched, use the hole punch supplied with the tool to pierce the sandpaper in the correct locations.

1. Install the sandpaper as shown in Fig. 3 & 4.
2. Place the hole punch (1) on a sturdy flat surface (Fig. 5).

3. Align the corner of the sanding pad (2) with the corner of the hole punch (3). This will ensure the holes are punched in the correct location.
4. When sanding pad is correctly aligned on the hole punch, press the sanding pad firmly onto the hole punch.
NOTE: The sharp pegs (4) in the hole punch will pierce the sandpaper in the correct location.

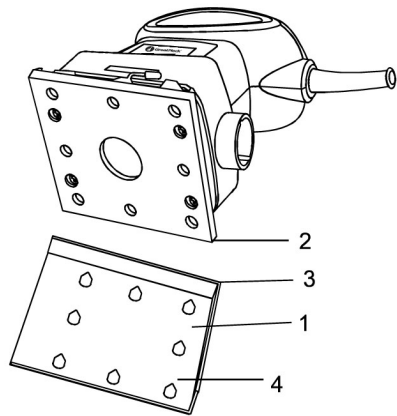


Fig. 5

ASSEMBLY & OPERATION


WARNING

Have you read “**POWER TOOL SAFETY**”, “**SPECIFIC SAFETY RULES**”, “**EXTENSION CORD GUIDELINES**” and “**SYMBOLS**” on pages 3, 4, 5, 6 & 7 of this Manual? If not, please do so before you operate this sander. Your safety depends on it!

Every time you use the sander you should verify the following:

1. Sandpaper is in good condition.
2. Workpiece is properly secured.
3. Safety glasses are being worn.
4. Dust mask is being worn.

Failure to adhere to these safety rules can greatly increase the chances of injury.

 **WARNING:** Always wear safety goggles or safety glasses with side shields when operating your sander. Failure to do so could result in foreign objects being thrown into your eyes resulting in possible serious eye damage.

Always wear an appropriate dust mask and hearing protection when using your sander.

SANDPAPER SELECTION

Selecting the correct grit and type of sandpaper is extremely important in achieving a high quality sanded finish. Aluminum oxide, silicon carbide and other synthetic abrasives are best for power sanding. **Natural abrasives such as flint and garnet are too soft for economical use in power sanding.**

In general, coarse grit will remove the most material and finer grit will produce the best finish in all sanding operations. The condition of the surface to be sanded will determine which grit will do the best job. If the surface is rough, start with a coarse grit and sand until the surface is uniform. Medium grit may then be used to remove scratches left by the coarser grit. Fine grit should be used for finishing the surface. Always continue sanding with each grit until the surface is uniform.

ON/OFF SWITCH

To turn the switch ON, press the right hand side of the ON/OFF switch (1) (see Fig. 6). To turn the switch OFF, press the left hand side of the ON/OFF switch (2).

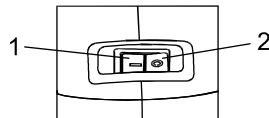


Fig. 6

SANDING

Clamp or otherwise secure your workpiece to prevent it from moving under the sander while being sanded.

 **WARNING:** Unsecured workpiece could be thrown toward the operator causing injury.

ASSEMBLY & OPERATION

SANDING – cont'd

Place sander on the workpiece so that the complete sandpaper surface is in contact with the workpiece. Turn the sander ON by pressing on the side of the ON/OFF switch. Move the sander slowly over workpiece making successive passes in parallel lines, circles or crosswise movements. Because the orbital motion of the sanding pad moves in tiny circles, it is not necessary to move the sander with the grain or in the same direction for successive passes (see Fig. 7).

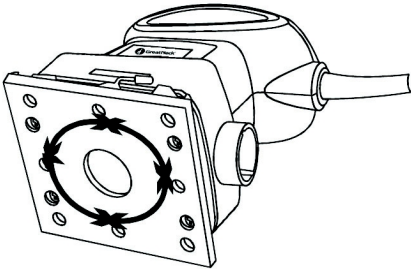


Fig. 7

Upon completion of the sanding operation, turn sander OFF by pressing on the other side of the ON/OFF switch. Wait until the sanding pad comes to a complete stop before removing from the workpiece.

⚠ WARNING: Your sander should only be turned ON when the entire surface of the sanding pad is in contact with the workpiece. Failure to follow this sanding procedure could result in loose sandpaper which could result in possible injury.

NOTE: Hold the sander using the pad grip on top of the sander. Be careful NOT to cover the cooling vents with your hand. Covering the cooling vents could cause the motor to be damaged by overheating.

DO NOT FORCE THE SANDER. The weight of the sander usually provides adequate pressure. Let the sander and sandpaper do the work. Applying added pressure will slow the motor, increase the wear on the sandpaper and greatly reduce sander speed. Excessive pressure will overload the motor causing possible damage from the motor overheating. It will also create an inferior finish on sanded work. Any finish or resin on wood will soften from the frictional heat, causing sandpaper to become clogged quickly. Do not sand in one spot too long as the sander's rapid action may remove too much material, making the surface uneven.

Extended periods of sanding may tend to overheat the motor. If this occurs, turn sander OFF, wait until the sanding pad comes to a complete stop and remove it from the workpiece. Check to make sure your hand has not been covering the cooling vents. Let the motor cool before continuing sanding operation.

MAINTENANCE

GENERAL

⚠ WARNING: When servicing, use only identical GreatNeck® replacement parts. Use of any other part may create a hazard or cause product damage.

DO NOT use solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloth to remove dirt, dust, oil, grease etc.

⚠ WARNING: Do not at any time allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool as well as the workpiece.

⚠ WARNING: DO NOT attempt to modify tools or create accessories not recommended. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

It has been found that electric tools are subjected to accelerated wear and possible premature failure when they are used on fiberglass boats and sports cars, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electric tool parts such as bearings, brushes, commutators, etc. Consequently, it is not recommended that this tool be used for extended work on any fiberglass material, wallboard, spackling compounds or plaster. During any use on these materials it is extremely important that the tool is cleaned frequently by blowing out with an air jet.

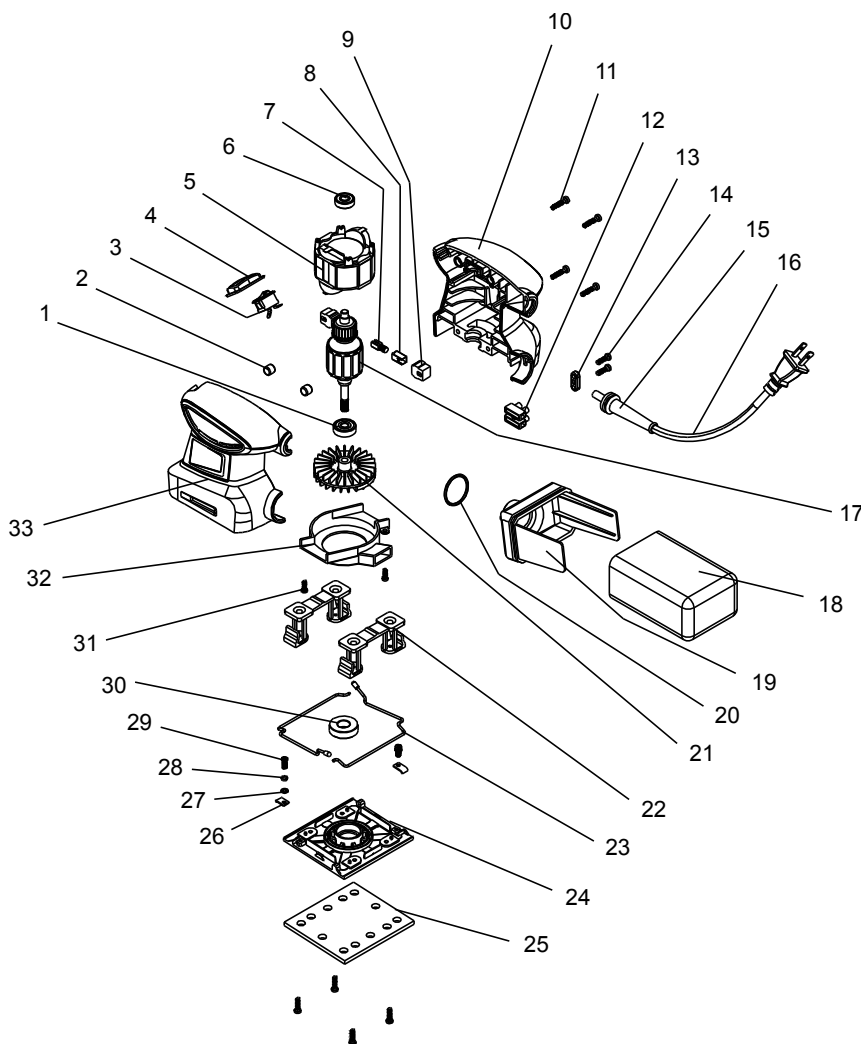
⚠ WARNING: Always wear safety goggles or safety glasses with side shields during all sanding operations. It is critical that you also wear safety goggles or safety glasses with side shields and a dust mask while blowing dust out of the sander with an air jet. Failure to take these safety precautions could result in permanent eye or lung damage.

LUBRICATION

All of the bearings in this sander are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

PARTS DIAGRAM – MODEL 80152

Sander



PARTS LIST – MODEL 80152

Sander

⚠ WARNING: When servicing, use only GreatNeck® replacement parts. Use of any other parts may create a HAZARD or cause damage to your power tool.

Any attempt to repair or replace electrical parts on this power tool may create a hazard unless repair is performed by a qualified technician.

Always order by PART NUMBER, not by key number.

Key #	Part #	Part Name	Quantity
1	80152-1	Bearing	1
2	80152-2	Rubber cap	2
3	80152-3	Switch	1
4	80152-4	Switch cover	1
5	80152-5	Stator	1
6	80152-6	Bearing	1
7	80152-7	Carbon brush	2
8	80152-8	Brush holder	2
9	80152-9	Brush holder support	2
10	80152-10	Right housing	1
11	80152-11	Tapping screw	4
12	80152-12	Terminal block	1
13	80152-13	Cord clamp	1
14	80152-14	Tapping screw	6
15	80152-15	Cord guard	1
16	80152-16	Cord set	1
17	80152-17	Armature	1
18	80152-18	Dust bag	1
19	80152-19	Dust bag support	1
20	80152-20	O-ring	1
21	80152-21	Aluminum fan	1
22	80152-22	Support bar	2
23	80152-23	Paper clamp	2
24	80152-24	Base plate	1
25	80152-25	Sponge pad	1
26	80152-26	Steel wire hold down	2
27	80152-27	Flat washer	2
28	80152-28	Spring washer	2
29	80152-29	Screw	2
30	80152-30	Bearing	1
31	80152-31	Tapping screw	2
32	80152-32	Dust cover	1
33	80152-33	Left housing	1