



80155

Reciprocating Saw

Instruction Manual



PRODUCT SPECIFICATIONS

Rating:	120 V, 60 Hz, AC
Amperes:	6.5 A
Speed:	0–2500 SPM (no load)
Stroke Length:	1 1/8" (28.6 mm)
Maximum cutting depth in wood:	4" (101.6 mm)
Maximum cutting depth in steel:	1/2" (12.7 mm)
Maximum cutting depth in copper or plastic pipe:	1-1/4" (31.7 mm)
Weight:	7 lb 8 oz (3.41 kg)

GreatNeck Tools, LLC Mineola, NY 11501

Rev 7/10

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GENERAL SAFETY WARNINGS



CAUTION: Before using this tool or any of its accessories, read this manual and follow all **Safety Rules and Operating Instructions**.

This instruction manual includes the following:

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

EYE, EAR & LUNG PROTECTION



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: Use hearing protection, particularly during extended periods of operation of the tool or if the operation is noisy.

SAVE THESE INSTRUCTIONS FOR REFERENCE

GENERAL SAFETY WARNINGS



ALWAYS WEAR A DUST MASK DESIGNED FOR USE WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.



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.

ELECTRICAL SAFETY



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

This tool 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.

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 potentially explosive environments, 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 into the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not alter 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.

Do not 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 tool 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 outdoors, 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.

POWER TOOL SAFETY

PERSONAL SAFETY – cont'd

Avoid accidental starting. Be sure the 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.

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.

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 for appropriate conditions.

TOOL USE AND CARE

Use clamps or another 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.

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 was designed.

Do not use the tool if the power 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 reciprocating saw until you have read and understood this Owner's Manual.

Always wear eye protection that conforms with CSA requirements or ANSI safety standard Z87.1

Always wear hearing protection and dust mask. Use only in well ventilated areas. Use of personal protective equipment and working in a safe environment will reduce the risk of injury.

Turn off all electrical power in the vicinity of work. Contact with "live" wires could shock the operator or cause a fire.

Check to make sure the reciprocating saw power cord and any extension cord are clear of the area to be cut. Contact with "live" wires could shock the operator or cause a fire.

Do not wear gloves, neckties or loose clothing.

Hold tool by insulated gripping surfaces when performing an operation where the saw blade 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.

Always hold the tool with two hands. Attempting to control the tool with only one hand is dangerous. It could result in loss of control and serious injury.

Never hold the workpiece in one hand and the tool in the other hand when sawing. Never place the hands near or below the cutting surface. Clamp the workpiece and guide the tool with both hands.

Always make sure the work surface is free from nails and other foreign objects. Cutting into a nail can cause the blade and the tool to jump and damage the blade. Never lay the workpiece on hard surfaces like concrete, stone, etc. The protruding blade may cause tool to jump.

⚠ DANGER: Always remove the plug from the power source when changing blade.

After changing a blade or making adjustments, make sure the blade clamp screw is securely tightened. Loose blades and adjustment devices could be violently thrown from the tool.

Never use dull or damaged blades. Sharp blades must be handled with care. Damaged blades can snap during use. Dull blades require more force to cut the workpiece, possibly causing the blade to break.

Never touch the blade during or immediately after use. After use the blade is too hot to be touched

EXTENSION CORD SAFETY

⚠ WARNING: Keep the extension cord clear of the working area. Position the cord so it will not get caught on the workpiece, tools or any other obstructions while you are working with the power tool.

Make sure any extension cord used with this tool is in good condition. When using an extension cord, be sure to use one of heavy enough gauge 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 at right 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 15 A time delayed 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.

MINIMUM GAUGE (AWG) EXTENSION CORDS (120 V use only)					
Ampere Rating		Total length in feet			
More Than	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 symbols below 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
kW	kilowatts
μF	microfarads
L	liters
kg	kilograms
H	hours
N/cm²	newtons per square centimeter
Pa	pascals
Min	minutes
S	seconds
	alternating current
	three-phase alternating current
	three-phase alternating current with neutral

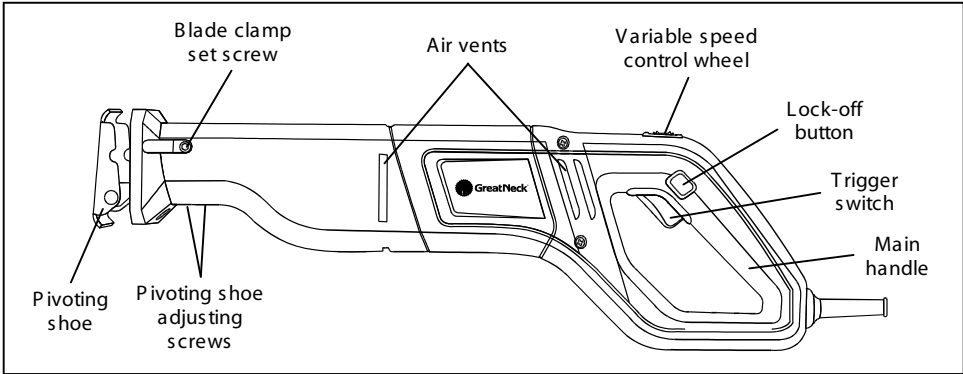
	direct current
n₀	no load speed
	alternating or direct current
	class II construction
	splash proof construction
	watertight construction
	protective earthing at earthing terminal, Class I tools
.../min	revolutions or reciprocations per minute
∅	diameter
0	off position
	arrow
	warning symbol

HOMOLOGUÉ



This symbol designates that this tool is listed with both Canadian and U.S. requirements by Underwriters Laboratories.

KNOW YOUR RECIPROCATING SAW



ACCESSORIES & CARTON CONTENTS

AVAILABLE ACCESSORIES

⚠ WARNING: Use only reciprocating saw blades recommended for this reciprocating saw. Follow instructions that accompany the blades. Improper use of blades may cause injury to the operator or damage to the reciprocating saw.

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

- Reciprocating saw blades

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

CARTON CONTENTS

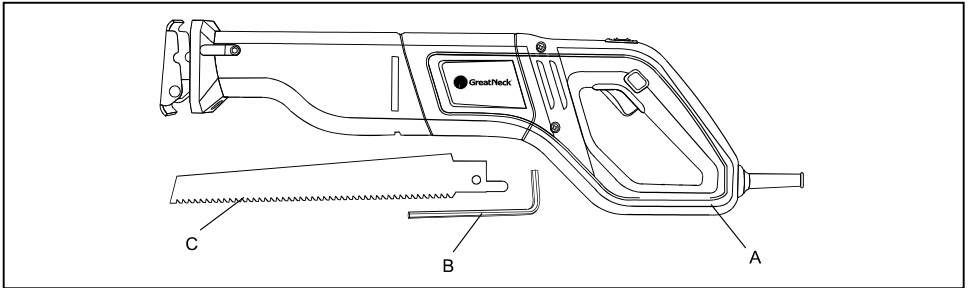
Carefully unpack the reciprocating saw. Compare against the "R reciprocating Saw Components" chart below.

NOTE: See illustration of components on Page 11.

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

RECIPROCATING SAW COMPONENTS		
DESCRIPTION		QTY
A	Reciprocating saw	1
B	4 mm hex key	1
C	1 blade for wood (silver)	2
	1 blade for metal (red)	
	Owner's manual	1

CARTON CONTENTS



ASSEMBLY AND OPERATION

INSTALLING BLADE

⚠ WARNING: Always remove the plug from the power supply before installing or removing blades.

1. Insert the 4 mm hex key (1) into the blade clamp set screw (2) and turn it counter-clockwise to loosen the blade clamp (3) (Fig. 1).
2. Fully insert the appropriate blade (4) into the slot (5) in the center of the blade clamp.
NOTE: Make sure the blade is fully inserted into the blade clamp and the blade teeth are pointing downward.
3. While holding the blade fully into the blade holder, tighten the blade clamp set screw clockwise with the 4 mm hex key.
NOTE: Tighten the blade clamp set screw firmly to lock the blade in the blade holder
4. Pull outward on blade to ensure it is properly locked into the blade clamp.

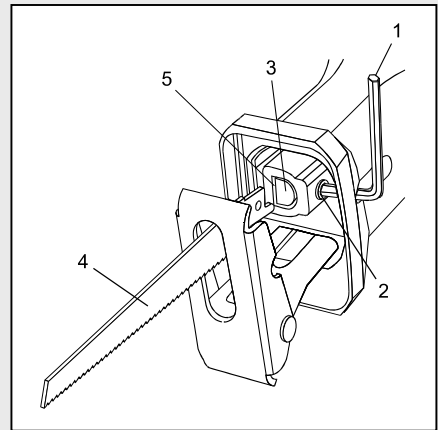


Fig. 1

ASSEMBLY AND OPERATION

REMOVING BLADE

To remove the blade, simply loosen the blade clamp set screw and pull the blade out of the blade clamp.

ADJUSTING PIVOTING SHOE

The pivoting shoe will pivot to follow the angle of the blade to the workpiece. This action ensures the flat surface of the shoe is against the workpiece for better cutting action and easier control of the saw.

The shoe can be adjusted in or out, allowing the use of the blade teeth at different points of the blade. This will provide longer blade life as one section of the blade becomes dull.

1. To adjust the pivoting shoe (1), loosen the two pivoting shoe hex screws (2) on the lower side of the saw using the 4 mm hex key (3) supplied (see Fig. 2).
2. Slide the pivoting shoe in or out until it is in the appropriate position.
3. Lock the pivoting shoe in place by tightening the pivoting shoe hex screws.
4. Pull outward on pivoting shoe to ensure it is firmly locked in place.

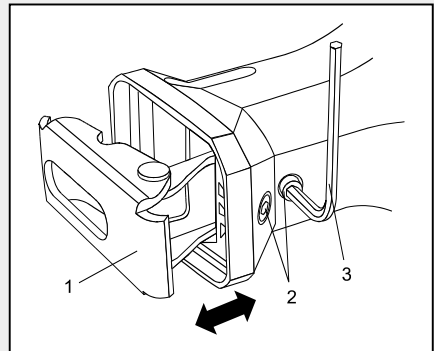


Fig. 2

ASSEMBLY AND OPERATION

TRIGGER SWITCH & LOCK-OFF BUTTON

The lock-off button is a safety device designed to reduce the possibility of a user accidentally starting the saw. This button must be depressed before the trigger switch can be depressed and the saw started.

To turn the saw ON, press inward on the lock-off button (1) (Fig. 3). While continuing to press on the lock-off button, squeeze the trigger switch (2) until the saw starts. Once the saw starts, the lock-off button can be released and the saw will remain running as long as the trigger switch is being squeezed.

To turn the saw OFF, release the trigger switch. The saw cannot be restarted without pressing on the lock-off button as noted above.

VARIABLE-SPEED CONTROL WHEEL

The variable-speed control wheel (1) allows you to control the speed of the saw (Fig. 4).

To increase the speed at which the saw will run, rotate the speed control wheel forward. To reduce the speed at which the saw will run, rotate the speed control wheel backward.

NOTE: Set the speed control wheel at “1” for the slowest speed and at “6” for the fastest speed.

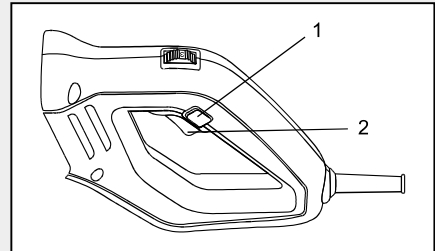


Fig. 3

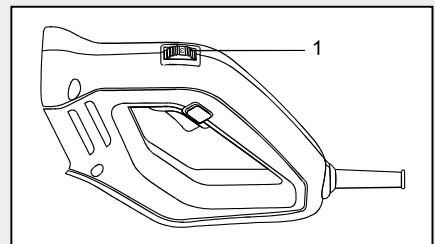


Fig. 4

ASSEMBLY AND OPERATION

⚠ WARNING: Have you read “GENERAL SAFETY WARNINGS”, “POWER TOOL SAFETY”, “SPECIFIC SAFETY RULES”, “EXTENSION CORD SAFETY” and “SYMBOLS” on pages 3, 4, 5, 6, 7, 8 & 9 of this Manual? If not, please do it now before you operate this reciprocating saw. Your safety depends on it!

Every time you use the reciprocating saw you should verify the following:

1. Blade is in good condition
2. Blade is firmly clamped in the blade holder
3. Proper eye, hearing and lung protection are being worn.

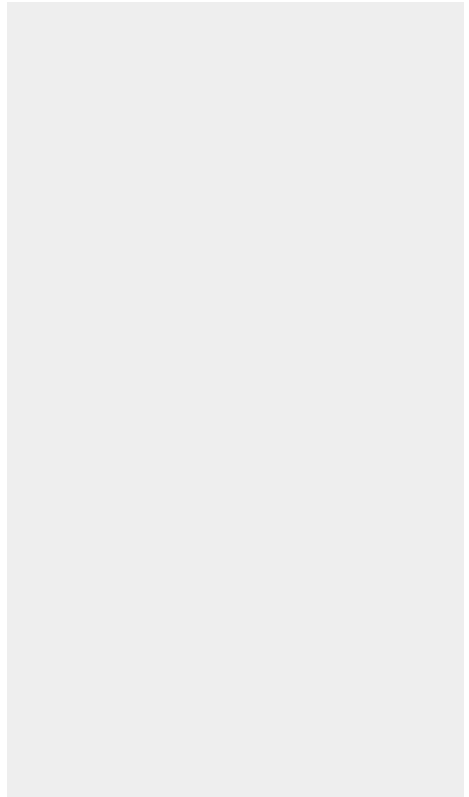
Failure to adhere to these safety rules can greatly increase the chances of injury.

MATERIALS YOU CAN CUT

This reciprocating saw is a versatile tool that allows you to cut many different types of materials. Some of the materials include:

- Wood products such as lumber, hardwood, plywood, composition board and panelling
- Drywall
- Masonite and plastic
- Metals such as pipe, steel rods, sheet steel, aluminum, brass and copper.

NOTE: There are many different types of blades available. Generally, there are metal cutting blades (fine teeth) and wood cutting blades (coarser teeth). Use the correct blade for your application. The packaging on the blade will indicate the type of materials each blade is designed to cut.



ASSEMBLY AND OPERATION

GENERAL CUTTING

1. Clearly mark the workpiece to locate the position of the cut.
2. Hold smaller workpiece with a vice. Clamp larger workpiece to a work bench or table.

⚠ DANGER: Any workpiece that is not adequately clamped in place may come loose and cause serious injury. Never hold the workpiece with your hand(s).

3. Make sure there are no nails, screws, clamps or foreign materials in the path of the saw blade.
4. Hold the saw away from your body and in front of you (Fig. 5).
5. With both hands firmly gripping the saw, and the blade NOT in contact with the surface to be cut, start the saw by depressing the lock-off button and squeezing the trigger switch.
6. Once the saw has reached the desired speed, place the adjustable pivoting shoe against the workpiece and gradually bring the moving blade into contact with the workpiece at the appropriate location.

⚠ CAUTION: Do not force the saw. Use only enough force to keep the blade cutting. Excessive pressure on the blade will cause it to bend and twist, which may result in breaking the blade.

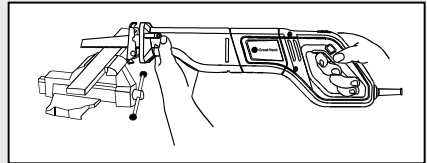


Fig. 5

ASSEMBLY AND OPERATION

PLUNGE CUTTING

1. Clearly mark the workpiece to locate the position of the cut.
2. Clamp the workpiece to a work bench or table (Fig. 6).
NOTE: Make sure the area to be cut is clear under the workpiece so that the blade will not come into contact with anything other than the workpiece.
3. Select a convenient starting point in the area to be cut out. Place the tip of the blade over that point
4. Rest the lower edge of the adjustable pivoting shoe on the workpiece and hold it firmly in that position.
5. Depress the lock-off button and squeeze the trigger switch to start the saw.

⚠ WARNING: Make sure the blade does not touch the workpiece until the saw reaches full speed. Loss of control and possible injury could result.

6. With the saw running at full speed, slowly tilt the saw until the tip of the blade contacts the workpiece and begins to cut. After the blade cuts through the workpiece, tilt the saw upward until the blade is perpendicular to the workpiece.

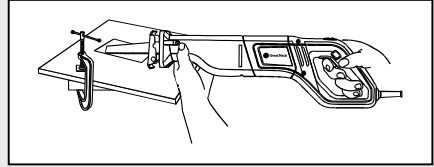


Fig. 6

ASSEMBLY AND OPERATION

METAL CUTTING

Metals such as pipe, steel rods, sheet steel, aluminum, brass and copper can be cut with your saw (Fig. 7).

- To cut thin sheet material, “sandwich” the material between hardboard or plywood and clamp the layers to limit vibration and material tearing.
- Always use a fine tooth metal cutting blade and run the saw at medium speeds when cutting metal.
- Use cutting oil to keep blade cool, increase cutting action and prolong blade life.
- Do not twist or bend saw blade.
- Do not force the saw blade. Let it cut at its own speed.

⚠ DANGER:

- a) Always clamp workpiece in a vise or to a workbench or table. Do not hold workpiece in your hand.**
- b) Never use gasoline as a lubricant or as a cleaning agent. A spark from the motor may cause an explosion. Gasoline will also damage the plastic components of the saw.**

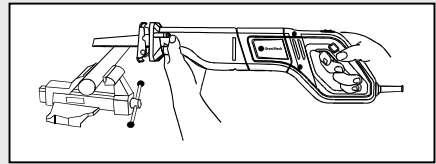


Fig. 7

MAINTENANCE

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

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. 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.

CLEANING

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 a clean cloth to remove dirt, dust, oil, grease, etc.

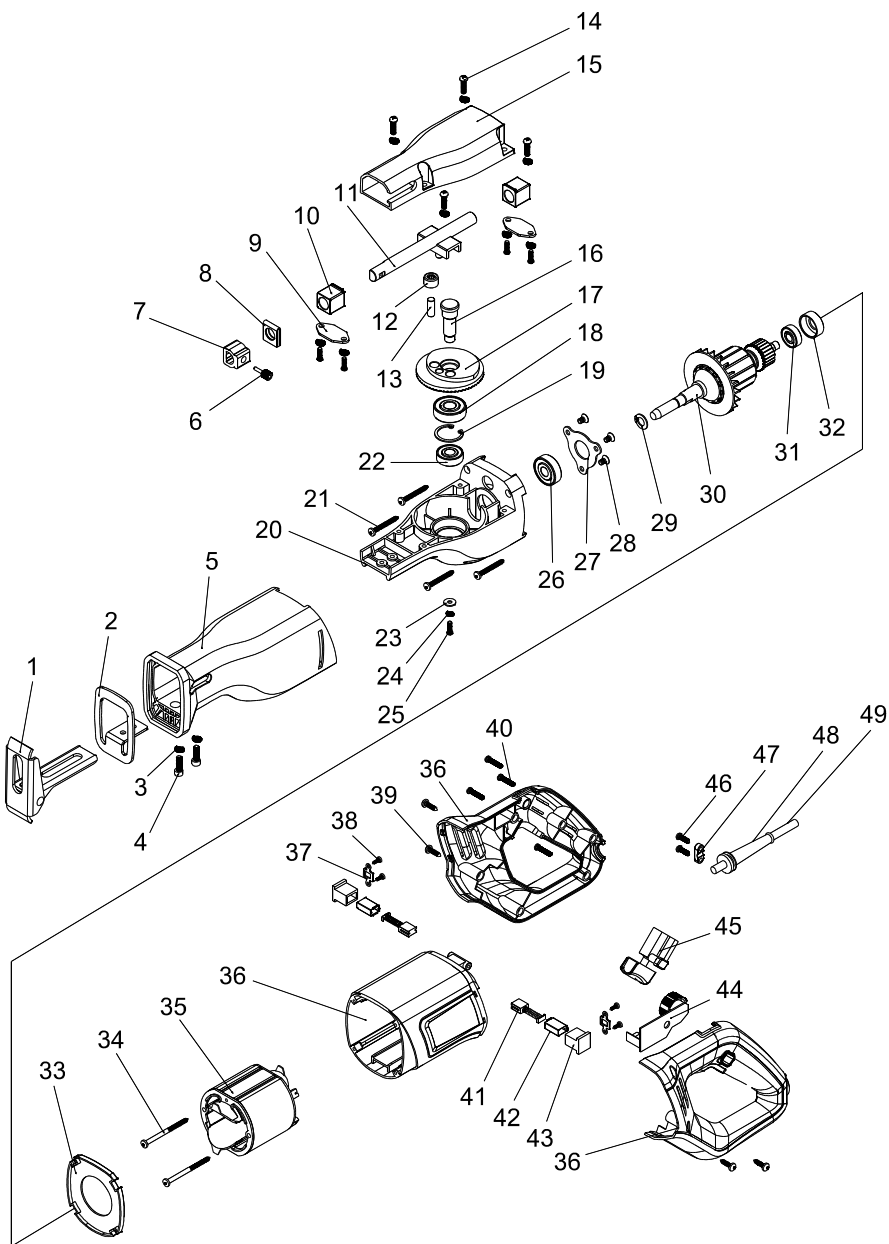
▲ WARNING: Do not at any time allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

▲ WARNING: Always wear safety goggles or safety glasses with side shields during all cutting 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 saw 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 reciprocating saw 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 80155



PARTS LIST – MODEL 80155

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

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

Always order by PART NUMBER.

	Part #	Part Name	Quantity
1	80155-1	Foot plate	1
2	80155-2	Clamp plate	1
3	80155-3	Spring washer	10
4	80155-4	Hex screw	2
5	80155-5	Front jacket	1
6	80155-6	Screw	1
7	80155-7	Blade clamp	1
8	80155-8	Dust preventer	1
9	80155-9	Bearing hold down	2
10	80155-10	Oil-retaining bearing	2
11	80155-11	Reciprocating lever	1
12	80155-12	Roller	1
13	80155-13	Roller axle	1
14	80155-14	Screw M5x12	8
15	80155-15	Gear box cover	1
16	80155-16	Spindle	1
17	80155-17	Big gear	1
18	80155-18	Bearing 6201	1
19	80155-19	Retaining ring	1
20	80155-20	Gear box	1
21	80155-21	Tapping screw ST4.2x36	4
22	80155-22	Bearing 6000	1
23	80155-23	Washer	1
24	80155-24	Spring washer	1
25	80155-25	Screw M4x10	1
26	80155-26	Bearing 6200	1
27	80155-27	Bearing hold down	1
28	80155-28	Screw M5x8	3
29	80155-29	Retaining ring	1
30	80155-30	Rotor	1
31	80155-31	Bearing 608	1
32	80155-32	Bearing sleeve	1
33	80155-33	Air-guiding ring	1
34	80155-34	Tapping screw ST3.9x60	2
35	80155-35	Stator	1

PARTS LIST – MODEL 80155

	Part #	Part Name	Quantity
36	80155-36	Motor housing	1
37	80155-37	Brush holder support hold down	2
38	80155-38	Tapping screw ST2.9x9	4
39	80155-39	Tapping screw ST4.2x16	4
40	80155-40	Tapping screw ST3.9x19	4
41	80155-41	Carbon brush	2
42	80155-42	Brush holder	2
43	80155-43	Brush holder support	2
44	80155-44	Variable speed PCB	1
45	80155-45	Switch	1
46	80155-46	Tapping screw ST3.9x14	2
47	80155-47	Cord clamp	1
48	80155-48	Cord guard	1
49	80155-49	Cord set	1

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