



Great Neck[®]

Owner's Manual

Variable Speed Jigsaw

80160



CAUTION:
Before using this jigsaw 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

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PRODUCT SPECIFICATIONS

Rating:	120 V, 60 Hz AC
Amperes:	3.3 A
Blade speed:	800 - 3000 SPM (no load)
Stroke length:	$1\frac{1}{16}$ "
Cutting depth @ 90°:	$2\frac{9}{16}$ " (65 mm) in wood
	$\frac{5}{32}$ " (4 mm) in steel
Sole plate tilt:	0-45°

TOLL FREE HOTLINE 1-866-458-2472

WARRANTY

ONE YEAR LIMITED WARRANTY

For one year from the date of purchase of this GreatNeck® product you find any defect in material or workmanship, through normal usage, either return it to the place of purchase, or send it to GreatNeck® Tools LLC. for repair or replacement at our discretion. In order to obtain this service send your tool and proof of purchase, transportation pre-paid, to **GreatNeck® Tools LLC Q.A. Dept, 3580 E. Raines Rd. #3, Memphis, TN 38118**. This warranty gives you specific legal 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.

Distributed by GreatNeck Tools LLC, Mineola, NY 11501
Rev 1/11

GENERAL SAFETY WARNINGS



WARNING: Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

This instruction manual includes the following:

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



WARNING

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

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

1. Cord is not damaged.
2. Blade is correct for the type of material being cut.
3. Blade is in good condition and securely tightened.
4. Safety glasses, dust mask and hearing protection are being worn.

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



WARNINGS:

Always wear safety goggles or safety glasses with side shields when operating your jigsaw. 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 jigsaw.

Clamp or otherwise secure your workpiece to prevent it from moving under the saw while being cut. An unsecured workpiece could be thrown toward the operator causing injury.

SAVE THESE INSTRUCTIONS FOR REFERENCE

GENERAL SAFETY WARNINGS

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.



WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.



WARNING: Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects, or other genetic abnormalities. These chemicals include:

Lead from lead-based paints

Crystalline silica from bricks, cement, and other masonry products

Arsenic and chromium from chemically-treated lumber

The level of risk from exposure to these chemicals varies according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment, such as a dust mask that is specifically designed to filter out microscopic particles.

SAVE THESE INSTRUCTIONS FOR REFERENCE

GENERAL SAFETY WARNINGS

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 AC operation. It must be connected to a 120 V AC, 15 A circuit that is protected by 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.

SAVE THESE INSTRUCTIONS FOR REFERENCE

POWER TOOL SAFETY

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

WORK AREA SAFETY

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

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.

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

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

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

When operating a power tool outdoors, use an extension cord type suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI). Use of a GFCI reduces 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 a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

SAVE THESE INSTRUCTIONS FOR REFERENCE

POWER TOOL SAFETY

PERSONAL SAFETY – cont'd

Prevent unintentional starting. Ensure the switch is in the off-position before connecting to the power source, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

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

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

Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothing, jewelry or long hair can be caught in moving parts.

If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected properly and used. Use of dust collection can reduce dust-related hazards.

POWER TOOL USE AND CARE

Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer when used at the rate for which it was designed.

Do not use the power tool if the switch does not turn it on and off. Any power 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 power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

Store power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

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

Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous condition.

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
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
.../min	revolutions or reciprocations per minute
∅	diameter
0	off position
	arrow
	warning symbol

HOMOLOGUÉ



LISTED
61TN
E 213739
JD2807TU

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

SPECIFIC SAFETY RULES

⚠ WARNING: For your safety, do not plug your jigsaw into the power source until you have carefully read and understood this Owner's Manual.



Always wear eye protection. Any power tool can throw foreign objects into your eyes and cause permanent eye damage. ALWAYS wear safety goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They ARE NOT safety glasses.

⚠ WARNING: Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.

⚠ WARNING: Always use a dust mask when sawing.

Use hearing protection, particularly during extended periods of operation.

Do not wear gloves, neckties or loose clothing.

Do not saw material too small to be securely held.

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

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

To avoid injury from accidental starting, always remove the plug from the power source before installing or removing a saw blade.

Make sure the saw blade is sharp and in good condition. This will ensure cleaner cuts and reduce the risk of breaking the blade.

Hold power 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.

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 leaves it unstable and may lead to loss of control.

SAVE THESE INSTRUCTIONS FOR REFERENCE

EXTENSION CORD SAFETY

Make sure your extension cord is the proper size. Use the proper minimum gauge extension cord. 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.

MINIMUM GAUGE (AWG) EXTENSION CORDS (120 V use only)					
Amperage rating		Total length			
More than	Not more than	25' (7.5 m)	50' (15 m)	100' (30 m)	150' (45 m)
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Applicable	

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.

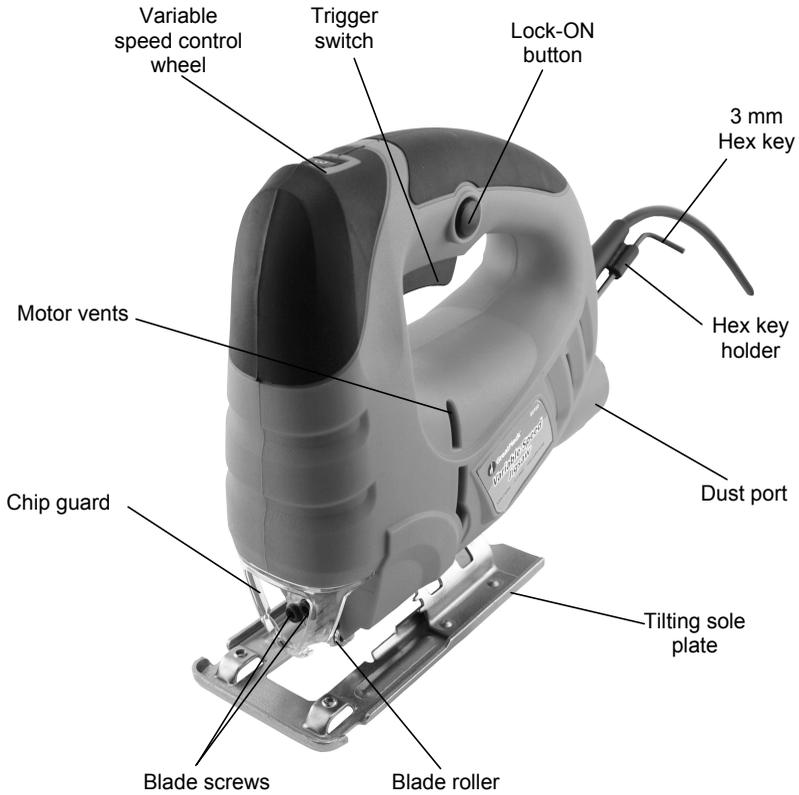
Use a separate electrical circuit for your power tools. This circuit must not be less than 14 gauge wire and should be protected with either a 15A time delay fuse or circuit breaker. Before connecting the power tool to the power source, make sure the switch is in the OFF position and the power source 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 on the following page.

SAVE THESE INSTRUCTIONS FOR REFERENCE

KNOW YOUR JIGSAW



ACCESSORIES & CARTON CONTENTS

AVAILABLE ACCESSORIES

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

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

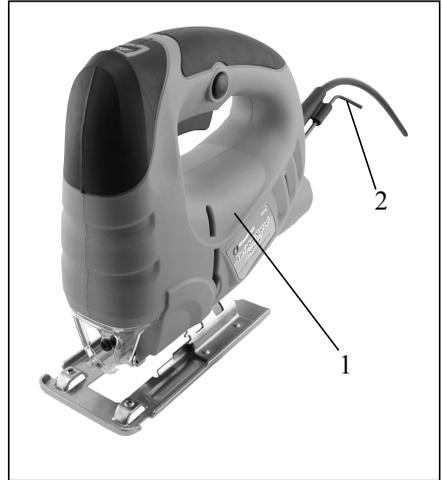
CONTENTS

⚠ WARNING: If any part is missing or damaged, do not operate the jigsaw.

Carefully unpack the jigsaw. Items should include:

1. Jigsaw
2. 3 mm hex key
3. Owner's manual

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



ASSEMBLY & OPERATION

⚠ WARNING: Always disconnect your jigsaw from the power source when replacing blades, tilting the sole plate, cleaning or when the tool is not in use. Disconnecting the jigsaw will prevent accidental starting that could cause serious personal injury.

INSTALLING BLADES (not included)

1. Unplug your jigsaw from the power source.

⚠ WARNING: Failure to unplug your jigsaw from the power source could result in accidental starting causing serious injury.

2. Insert the hex key (1) through the access hole in the chip shield (2) (Fig. 1).
3. Loosen both blade clamp screws (3) and insert the saw blade (4) as far as possible into the slot in the blade clamp.

NOTES:

- a) Ensure the blade is nested in the groove in the support roller (5).
 - b) The holes in universal fitting saw blades are not designed for alignment with the screw holes in the blade clamp.
4. Tighten both blade clamp screws (3) securely against the blade.

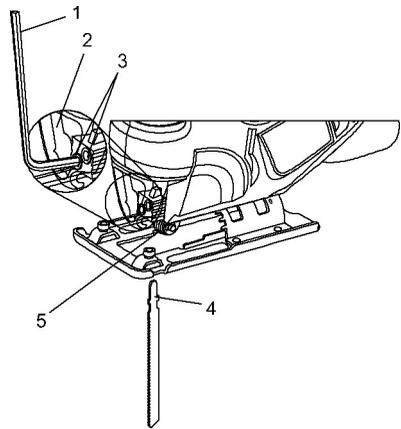


Fig. 1

To remove the jigsaw blade:

1. Unplug your jigsaw.
2. Loosen blade clamp screws (3) using the 3 mm hex key.
3. Remove the blade.

ON/OFF TRIGGER SWITCH

To turn your jigsaw ON, depress the trigger switch (1) (Fig. 2). To turn the saw OFF, release the trigger switch.

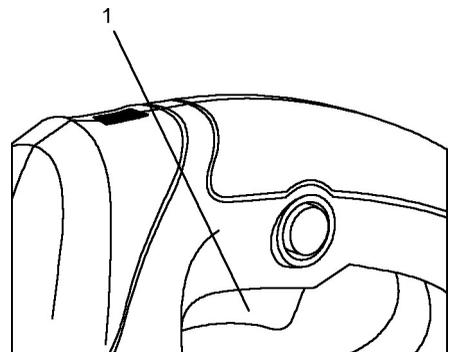


Fig. 2

ASSEMBLY & OPERATION

LOCK-ON BUTTON

Your jigsaw is equipped with a lock-on feature, which is convenient when continuous cutting for extended periods of time is required. To lock the switch ON, depress the trigger switch (1), push in and hold the lock-on button (2), then release the trigger (Fig. 3). Release the lock-on button and your jigsaw will continue running. Depress and release the trigger switch to release lock.

NOTE: The lock-on button can be accessed from either side of the handle.

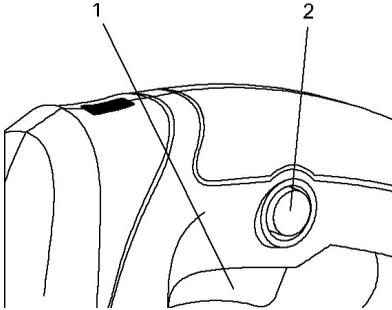


Fig. 3

GENERAL CUTTING

⚠ WARNING: Keep hands and fingers away from the space between the motor housing and the blade clamp. Do not reach underneath workpiece while the saw is running.

Rest the front of the sole plate on the workpiece and align the cutting edge of the blade with the cutting line on your workpiece (Fig. 4). Make sure the power cord is out of your way and not in the path the blade will follow. Start your saw and move it toward the workpiece. Apply enough downward pressure to keep the saw steady and only enough forward pressure to keep the blade cutting freely.

SPEED CONTROLLER

Adjusting the speed to suit the application enhances cutting performance and saves the blade from undue wear.

To determine optimum cutting speed first perform test cuts on offcuts of the workpiece to be cut.

Rotate the speed controller, located at the back of the jigsaw to set the blade speed.

Position "1" denotes the lowest speed. Position "6" denotes the highest speed.

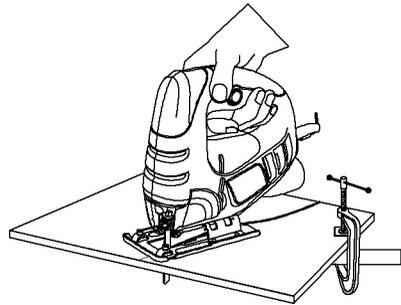


Fig. 4

⚠ WARNING: Do not force the saw. Forcing the saw may overheat the motor and break saw blades.

DUST EXTRACTION

The dust extraction outlet allows a dust extraction system to be fitted to the jigsaw permitting the efficient removal of dust whilst the tool is in use. The adaptor allows a standard household vacuum cleaner to be connected to the outlet.

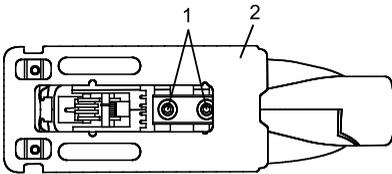
⚠ WARNING: Do not use a dust extraction system or a vacuum cleaner when cutting metal. Sparks may ignite residual wood dust.

OPERATION

BEVEL CUTTING

Bevel cutting angles may be adjusted from zero to 45° either left or right. To adjust the bevel angle:

1. Loosen both sole plate pivot screws (1) until the sole plate (2) can be rotated (Fig. 5).
NOTE: Use the 3 mm hex key supplied.



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2. Bevel angles (3) are marked on a scale located on the side of the sole plate (Fig. 6).
3. Slide the sole plate back. Align the edge of the motor housing (4) with the desired angle mark (3) on the side of the base, then slide the sole plate forward to engage the notches (5) into the motor housing pin.

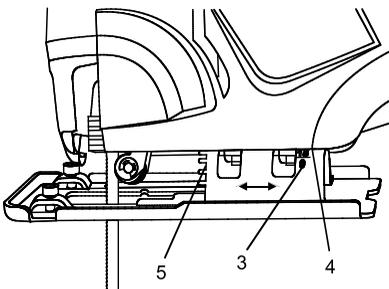


Fig. 6

BEVEL CUTTING - cont'd

NOTE: Angle marks on the sides of the jigsaw base are for reference only. Operator should use a protractor to verify angles.

4. Once the desired bevel angle is obtained, lock the sole plate by tightening the sole plate pivot screws.
5. Make a test cut in a scrap piece of material and measure the bevel angle. Adjust bevel angle if necessary.

PLUNGE CUTTING

⚠ WARNING: To avoid loss of control, broken blades or damage to the workpiece, always use extreme caution when making plunge cuts. It is not recommended to plunge cut any material other than wood. Wherever possible, drill a 3/8" (8 mm) or bigger pilot hole in the area to be cut out and start cutting with the blade in the pilot hole. This will avoid the need to plunge cut.

NOTE: Use only blades with 7 teeth per inch for plunge cutting.

1. To plunge cut an inside hole, clearly mark the cutting line on the workpiece.
2. Set the bevel angle at 0° then lock the sole plate.
3. Tilt the saw forward so it rests on the front edge of the sole plate and in a position so the blade will NOT touch the workpiece when the switch is turned ON (Fig. 7).
NOTE: Make sure the saw blade is inside the area to be cut.

OPERATION

PLUNGE CUTTING – cont'd

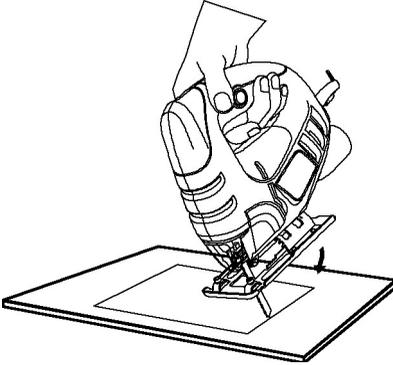


Fig. 7

4. Start the saw and slowly lower the blade onto the workpiece while making sure the front of the sole plate remains in contact with the workpiece. Allow the blade to cut through the wood.
5. Continue lowering the blade into the workpiece until the sole plate rests flat on the workpiece. Continue sawing toward the cutting line and complete the cut as required.

METAL CUTTING

Many types of metal can be cut with your jigsaw. When cutting any kind of material, be careful not to twist or bend the blades. **Do not force the blade.** If the blade chatters or vibrates excessively, use a finer tooth blade. If the blade heats excessively, reduce speed of cutting. If the blade teeth become clogged when cutting soft metals such as aluminum, use a coarser blade with fewer teeth per inch. Clamp all work firmly and saw as close as possible to the clamping point to eliminate any vibration of the work being cut.

When cutting conduit, pipe or angle iron, clamp work in a vise if possible and saw close to the vise. To cut thin sheet materials, “sandwich” the material between hardboard or plywood and clamp the layers to eliminate material vibration and tearing. By doing this, the material will be cut smoothly. Lay out your pattern or cutting lines on top of the “sandwich”.

MAINTENANCE

GENERAL

⚠ WARNING: Do not at any time allow solvents such as 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. Use a clean dry cloth to remove dirt, dust, oil, grease, etc.

⚠ WARNING: Use safety goggles when using an air jet to blow dust out of the jigsaw. Using this jigsaw for cutting fiberglass, wallboard or plaster will result in accelerated wear due to the abrasive nature of these materials. It is important that you clean the jigsaw frequently when cutting these materials.

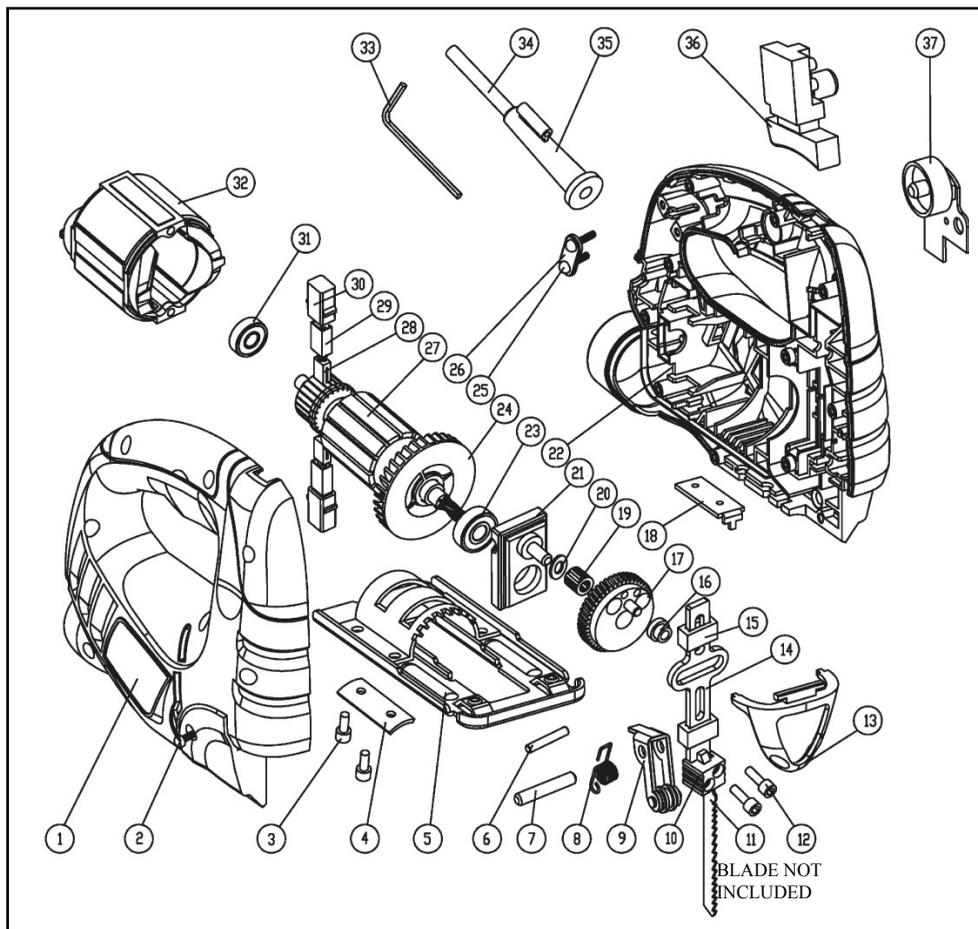
DO NOT abuse power tools. Abusive practices can damage the tool as well as the workpiece.

⚠ WARNING: DO NOT attempt to modify this jigsaw or create accessories not recommended for this jigsaw. 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.

LUBRICATION

All of the bearings in this jigsaw 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 LIST MODEL 80160



PARTS LIST MODEL 80160

KEY	PART NUMBER	PART NAME	QUANTITY	KEY	PART NUMBER	PART NAME	QUANTITY
1	80160-1	Right Housing	1	20	80160-20	Washer	1
2	80160-2	Tapping Screw ST3.9 x 14	7	21	80160-21	Bearing Holder Assembly	1
3	80160-3	Adjusting Screw M4 x 14	2	22	80160-22	Left Housing	1
4	80160-4	Fixing Plate	1	23	80160-23	Bearing 608-2Z	1
5	80160-5	Iron Base Plate	1	24	80160-24	Fan	1
6	80160-6	Blade Holder Pin	1	25	80160-25	Tapping Screw ST3.9 x 14	2
7	80160-7	Roller Support Pin	1	26	80160-26	Stain Relief	1
8	80160-8	Blade Holder Spring	1	27	80160-27	Rotor Assembly	1
9	80160-9	Blade Support Pin	1	28	80160-28	Carbon Brush Assembly	2
10	80160-10	Blade Holder	1	29	80160-29	Brush Holder	2
11	80160-11	Blade (not included)	1	30	80160-30	Brush Box	2
12	80160-12	Adjusting Screw M4 x 12	2	31	80160-31	Bearing 607-2Z	1
13	80160-13	Finger Guard	1	32	80160-32	Stator Assembly	1
14	80160-14	Blade Arm	1	33	80160-33	Wrench	1
15	80160-15	Holder For Saw Arm	1	34	80160-34	AC-Cord & Plug	1
16	80160-16	Roller	1	35	80160-35	Cord Sleeve	1
17	80160-17	Gig Gear Assembly	1	36	80160-36	Switch	1
18	80160-18	Connecting Plate	1	37	80160-37	PCB	1
19	80160-19	Needle Roller Bearing	1				

Customer Service: 1-866-458-2472

www.greatnecktools.com

ALWAYS WEAR SAFETY GOGGLES

GREATNECK TOOLS, LLC
MINEOLA, NY 11501
MADE IN CHINA