

# greenworks

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JIG SAW

OPERATOR MANUAL



**E8038**

**JSD401**

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<b>1</b>	<b>Description.....</b>	<b>2</b>	<b>8</b>	<b>Installation.....</b>	<b>5</b>
1.1	Purpose.....	2	8.1	Unpack the machine.....	5
1.2	Overview.....	2	8.2	Install the battery pack.....	5
1.3	Packing list.....	2	8.3	Remove the battery pack.....	5
<b>2</b>	<b>Introduction.....</b>	<b>2</b>	8.4	Install the blade.....	5
2.1	Intended use.....	2	8.5	Remove the blade.....	5
<b>3</b>	<b>General power tool safety</b>		8.6	Install the edge guide.....	5
	<b>warnings.....</b>	<b>2</b>	<b>9</b>	<b>Operation.....</b>	<b>5</b>
3.1	Work area safety.....	2	9.1	Start the machine.....	6
3.2	Electrical safety.....	2	9.2	Stop the machine.....	6
3.3	Personal safety.....	2	9.3	Orbital motion.....	6
3.4	Power tool use and care.....	3	9.4	Adjust the footplate angle.....	6
3.5	Battery tool use and care.....	3	9.5	Operate the machine.....	6
3.6	Service.....	3	<b>10</b>	<b>Maintenance.....</b>	<b>6</b>
<b>4</b>	<b>Specific safety warnings.....</b>	<b>3</b>	10.1	Clean the machine.....	6
<b>5</b>	<b>Symbols on the product.....</b>	<b>4</b>	10.2	General maintenance.....	7
<b>6</b>	<b>Risk levels.....</b>	<b>4</b>	<b>11</b>	<b>Technical data.....</b>	<b>7</b>
<b>7</b>	<b>Recycle.....</b>	<b>5</b>	<b>12</b>	<b>Warranty.....</b>	<b>7</b>

1 DESCRIPTION

1.1 PURPOSE

You may use this product for cutting purposes:

- cutting all types of wood
- cutting plastic
- cutting metals

1.2 OVERVIEW

Figure 1.

- |                              |                    |
|------------------------------|--------------------|
| 1 Trigger                    | 6 Blade            |
| 2 Tube                       | 7 Edge Guide Knobs |
| 3 Angle Adjustment Trigger   | 8 Edge Guide       |
| 4 Footplate                  | 9 Finger Guard     |
| 5 Blade Orbit Selector Lever | 10 Lock-off Button |

1.3 PACKING LIST

- |              |   |
|--------------|---|
| 1 Jig saw    | 5 Steel blade                               |
| 2 Dust tube  | 6 Footplate                                 |
| 3 Edge guide | 7 Manual ( operation manual, figure sheet ) |
| 4 Wood blade |   |

2 INTRODUCTION

Your product has been engineered and manufactured to high standards for dependability, ease of operation, and operator safety. When properly cared for, it will give you years of rugged, trouble-free performance.

2.1 INTENDED USE

The machine is used for

- cutting all types of wood
- cutting plastic
- cutting drywall

3 GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or BATTERY-operated (cordless) power tool.

3.1 WORK AREA SAFETY

- **Keep 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.*

3.2 ELECTRICAL SAFETY

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter 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 and moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
- **When operating a power tool outdoors, use an extension cord 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 RESIDUAL CURRENT DEVICE (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

3.3 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 lapse of attention while operating power tools may result in serious personal injury.*
- **Use personal protection. Always wear eye protection.** *Protective products such as dust mask, non-skid safety shoes, hard hat or hearing protection used appropriately will reduce personal injuries.*
- **Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack and when 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 a key left attached to a rotating part of the power tool may result in personal injury.*



- **Do not over-reach. 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 clothes, 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 and properly used.** *Use of dust collection can reduce dust related hazards.*
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*
- **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*
- **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** *Shorting the battery terminals together may cause burns or fire.*
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with plenty of soap and water. If liquid contacts eyes, immediately seek medical help.** *Liquid ejected from the battery may cause irritation or burns.*
- **Do not use a battery pack or tool that is damaged or modified.** *Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.*

### 3.4 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 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 and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- **Store idle 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 and accessories. 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 cutting 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 situation.*
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

### 3.5 BATTERY TOOL USE AND CARE

- **Recharge only with the charger specified by the manufacturer.** *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*

- **Do not expose a battery pack or tool to fire or excessive temperature.** *Exposure to fire or temperature above 130 °C may cause explosion.*
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*

### 3.6 SERVICE

- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*
- **Never service damaged battery packs.** *Service of battery packs should only be performed by the manufacturer or authorized service providers.*


## 4 SPECIFIC SAFETY WARNINGS

- **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring.** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*
- **Use clamps or another practical way to secure and support the workpiece to a stable platform.** *Holding the workpiece by hand or against your body leaves it unstable and may lead to loss of control.*
- **Know your power tool. Read operator manual carefully.** *Learn its applications and limitations, as well as the specific potential hazards related to this power tool. Obey this instruction will reduce shock, fire or serious injury.*
- **Always wear safety glasses with side shields marked to comply with ANSI Z87.1.** *Obey this instruction will reduce the risk of serious injury.*
- **Protect your lungs. Wear a face or dust mask if the operation is dusty.** *Obey this instruction will reduce the risk of serious injury.*

- **Protect your hearing. Wear hearing protection during extended periods of operation.***Obey this instruction will reduce the risk of serious injury.*
- **Battery tools do not have to be plugged into an electrical outlet; thus, they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories.***Obey this instruction will reduce the risk of electric shock , fire, or serious injury.*
- **Do not place battery tools or their batteries near fire or heat.***This will reduce the risk of explosion and possibl injury.*
- **Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow.***A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.*
- **Batteries can explode in the presence of a source of ignition, such as a pilot light. To reduce the risk of serious injury, never use any cordless product in the presence of open flame.***An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.*
- **Do not charge battery tool in a damp or wet location.***Obey this instruction will reduce the risk of electric shock.*
- **For best results, your battery tool should be charged in a location where the temperature is more than 50°F but less than 100°F.***To reduce the risk of serious injury, do not store outside or in vehicles.*
- **Under extreme usage or temperature conditions, battery leakage may occur.***If liquid comes in contact with your sink, wash immediately with soap and water. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. Obey this instruction will reduce the risk of serious injury.*
- **Keep these instructions. Refer to them frequently and use them to instruct others who may use this tool.***If you borrow someone this tool, loan them these instructions also to prevent incorrect use of the machine and possible injury.*

5 SYMBOLS ON THE PRODUCT




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

Symbol	Explanation
V	Volts
min <sup>-1</sup>	No-load speed
— — —	Direct current
	Safety alert

Symbol	Explanation
	Read and understand all instructions before operating the product, and follow all warnings and safety instructions.
	Wear ear protection.
	Wear eye protection
	Do not expose the product to rain or moist conditions.
	Wear a dust mask
	No Hands Symbol
	No Hands Symbol
	No Hands Symbol
	Hot Surface

6 RISK LEVELS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYM-BOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

## 7 RECYCLE

	Separate collection. You must not discard with usual household waste. If it is necessary to replace the machine, or if it is no more use to you, do not discard it with household waste. Make this machine available for separate collection.
	Separate collection of used machine and packaging let you recycle materials and use them again. Use of the recycled materials helps prevent environmental pollution and decreases the requirements for raw materials.
	At the end of their useful life, discard batteries with a precaution for our environment. The battery contains material that is dangerous to you and the environment. You must remove and discard these materials separately at a equipment that accepts lithium-ion batteries.

## 8 INSTALLATION

### 8.1 UNPACK THE MACHINE

#### ▲ WARNING

Make sure that you correctly assemble the machine before use.

#### ▲ WARNING

- If parts of the machine are damaged, do not use the machine.
- If you do not have all the parts, do not operate the machine.
- If the parts are damaged or missing, contact the service center.

1. Open the package.
2. Read the documentation in the box.
3. Remove all the unassembled parts from the box.
4. Remove the machine from the box.
5. Discard the box and package in compliance with local regulations.

### 8.2 INSTALL THE BATTERY PACK

Figure 2.

#### ▲ WARNING

- If the battery pack or charger is damaged, replace the battery pack or the charger.
- Stop the machine and wait until the motor stops before you install or remove the battery pack.
- Read, know, and do the instructions in the battery and charger manual.

1. Align the lift ribs on the battery pack with the grooves in the battery compartment.
2. Push the battery pack into the battery compartment until the battery pack locks into place.
3. When you hear a click, the battery pack is installed.

### 8.3 REMOVE THE BATTERY PACK

Figure 2.

1. Push and hold the battery release button.
2. Remove the battery pack from the machine.

### 8.4 INSTALL THE BLADE

Figure 3.

1. Remove battery pack.
2. Rotate the blade clamp lock counterclockwise. Hold the lock in the open position.
3. Insert saw blade between blade clamp and saw bar.
4. Close blade clamp lock.
5. Reinstall the battery pack.

### 8.5 REMOVE THE BLADE

Figure 3.

1. Remove battery pack.
2. Rotate the blade clamp lock counterclockwise. Hold the lock in the open position.
3. Remove the saw blade.

### 8.6 INSTALL THE EDGE GUIDE

Figure 4.

Put the edge guide through the two slots in the base of the machine.

Adjust to the necessary width and lock in place with the edge guide screw.

## 9 OPERATION

#### ▲ WARNING

Always wear eye protection.

**▲ WARNING**

Do not use any attachments or accessories not recommended by the manufacturer of this product.

**9.1 START THE MACHINE**

Figure 5.

**i NOTE**

The machine can not work when the lock-off button is on the center.

- 1. Push the lock-off button to the left or right side to unlock the trigger.
- 2. Pull the trigger to turn the machine ON.

**Variable speed**

The machine has a variable speed switch that delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.

**9.2 STOP THE MACHINE**

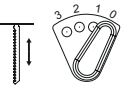
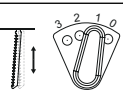
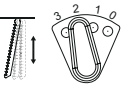
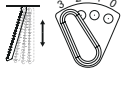
Figure 5.

- 1. Release the switch trigger.

**9.3 ORBITAL MOTION**

Orbital motion provides faster, more efficient cutting.

Choose from four orbital adjustment position for fine to aggressive cutting.

	0 Hard materials such as metals or thin sheet metals. This setting can be used with knife blades, grit edge blades, rasp work, and down cutting blades.
	1 Soft materials where cleaner cutting or delicate scrolling work is performed.
	2 Medium density materials such as harder woods or particle board.
	3 Soft materials such as wood, plastics, etc. and when fast cutting is more important than a clean cut.

**9.4 ADJUST THE FOOTPLATE ANGLE**

Figure 6.

The footplate may be tilted to allow angle cuts up to 45° in either direction.

- 1. Switch the trigger to the right.
- 2. Adjust the angle as needed.
- 3. Switch the trigger to the original position.

**9.5 OPERATE THE MACHINE**

Figure 7.

**i NOTE**

For best performance, always select a specified blade for the particular application and type of material you wish to cut.

**General cutting**

- 1. Put the front of the saw base on the workpiece
- 2. Align cutting edge of the blade with the line on your workpiece
- 3. Start the saw and move it forward on the work surface.

**Plunge cutting**

- 1. Make the line of cut clearly on the workpiece.
- 2. Set the cutting blade at 0.
- 3. Put the front of the saw base on the workpiece
- 4. Use high speed to start the machine and slowly lower the blade into the workpiece until the blade cuts through the wood.

**▲ WARNING**

To decrease the risk of injury, keep hands away from the blade and all moving parts. Always wear safety gloves or glasses with side shields.

**10 MAINTENANCE**

**▲ CAUTION**

Do not let brake fluids, gasoline, petroleum-based materials touch the plastic parts. Chemicals can cause damage to the plastic, and make the plastic unserviceable.

**▲ CAUTION**

Do not use strong solvents or detergents on the plastic housing or components.

**▲ WARNING**

Remove the battery pack from the machine before maintenance.

**10.1 CLEAN THE MACHINE**

**▲ CAUTION**

The machine must be dry. Humidity can cause risks of electrical shocks.

- Clear the unwanted material out of the air vent with a vacuum cleaner.
- Do not spray the air vent or put the air vent in solvents.
- Clean the housing and the plastic components with a moist and soft cloth.

## 10.2 GENERAL MAINTENANCE

- Before each use, examine the machine for damaged, missing, or loose parts such as screws, nuts, bolts and caps.
- Clean the machine with a dry cloth. Do not use solvents.

### ▲ WARNING

Do not let brake fluids, gasoline, petroleum-based materials touch the plastic parts. Chemicals can cause damage to the plastic, and make the plastic unserviceable.

### ▲ CAUTION

Use only approved replacement parts.

## 11 TECHNICAL DATA

Voltage	24 V
Strokes per minute	0-3000 min <sup>-1</sup>
Cutting angle	0-45°
Orbital motion	4 settings
Blade changing	Tool-Free
Weight without battery	2.2 kg
Battery model	G24B2/G24B4 and other BAG series
Charger model	2913907 and other CAG series
Measured sound pressure level	88.5dB(A), K <sub>pA</sub> = 3 dB(A)
Measured sound power level	99.5dB(A), K <sub>WA</sub> = 3 dB(A)
Vibration	4.2 m/s <sup>2</sup> , K = 1.5 m/s <sup>2</sup>

### The recommended ambient temperature range:

Item	Temperature
Appliance storage temperature range	32°F (0°C) - 113°F (45°C)
Appliance operation temperature range	32°F (0°C) - 113°F (45°C)
Battery charging temperature range	39°F (4°C) - 104°F (40°C)
Charger operation temperature range	39°F (4°C) - 104°F (40°C)

Item	Temperature
Battery storage temperature range	32°F (0°C) - 113°F (45°C)
Battery discharging temperature range	32°F (0°C) - 113°F (45°C)

## 12 WARRANTY

(The full warranty terms and conditions can be found on Greenworks webpage)

The Greenworks warranty is 4 years on the product, and 2 years on batteries (consumer/private usage) from the date of purchase. This warranty covers manufacturing faults. A faulty product under warranty might be either repaired or replaced. A unit that has been misused or used in other ways than described in the owner's manual might be rejected for warranty. Normal wear, and wear parts are not considered as warranty. The original manufacturer warranty is not affected by any additional warranty offered by a dealer or retailer.

A faulty product must be returned to the point of purchase in order to claim for warranty, together with the proof of purchase (receipt).