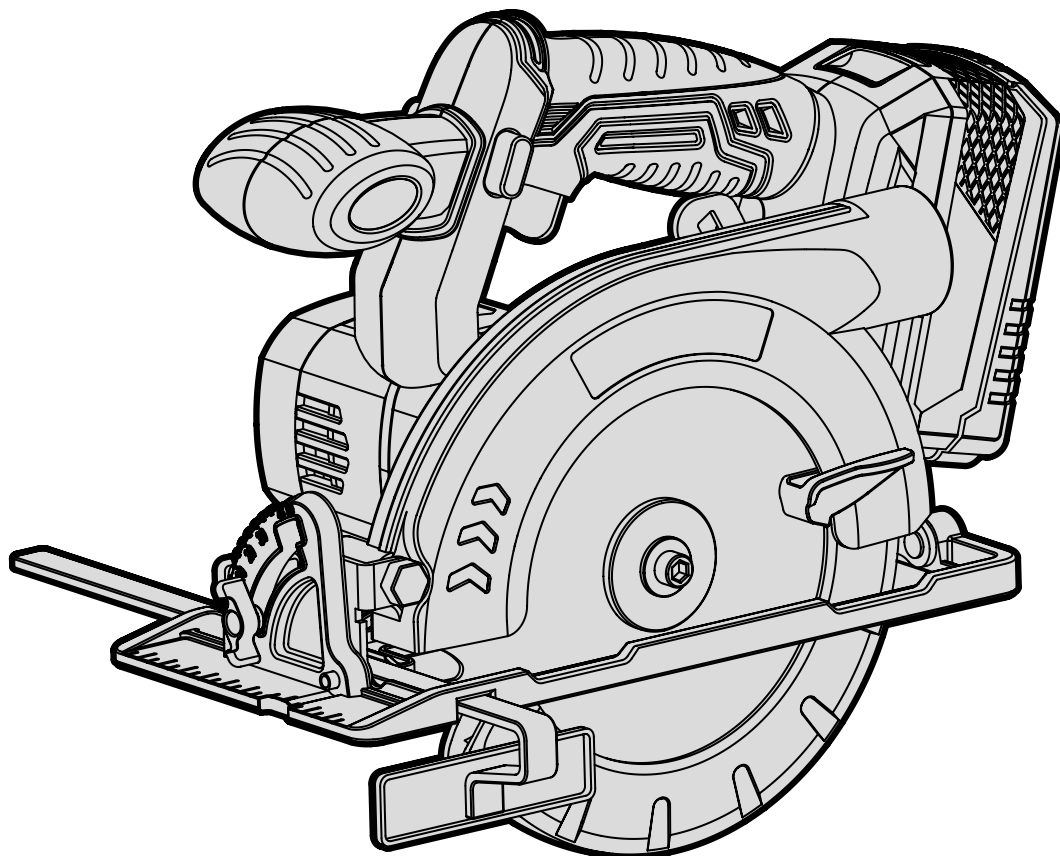




**MODEL 20625**

# ***20V CORDLESS CIRCULAR SAW***

**Instruction Manual**



## ***NEED HELP? CONTACT US!***

Have product questions? Need technical support? Please feel free to contact us:



**1-800-232-1195 (M-F 8AM-5PM CST)**



**TECHSUPPORT@WENPRODUCTS.COM**

**IMPORTANT:** Your new tool has been engineered and manufactured to WEN's highest standards for dependability, ease of operation, and operator safety. When properly cared for, this product will supply you years of rugged, trouble-free performance. Pay close attention to the rules for safe operation, warnings, and cautions. If you use your tool properly and for its intended purpose, you will enjoy years of safe, reliable service.

For replacement parts and the most up-to-date instruction manuals, visit ***WENPRODUCTS.COM***

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To purchase accessories and replacement parts for your tool, visit **WENPRODUCTS.COM**

**20V 4.0Ah Max Battery** (Model 20204)  
**20V Charger** (Model 20200C)  
**Replacement Saw Blade** (Model 20625B)

## INTRODUCTION

Thanks for purchasing the WEN Circular Saw. We know you are excited to put your tool to work, but first, please take a moment to read through the manual. Safe operation of this tool requires that you read and understand this operator's manual and all the labels affixed to the tool. This manual provides information regarding potential safety concerns, as well as helpful assembly and operating instructions for your tool.

 Indicates danger, warning, or caution. The safety symbols and the explanations with them deserve your careful attention and understanding. Always follow the safety precautions to reduce the risk of fire, electric shock or personal injury. However, please note that these instructions and warnings are not substitutes for proper accident prevention measures.

**NOTE:** The following safety information is not meant to cover all possible conditions and situations that may occur. WEN reserves the right to change this product and specifications at any time without prior notice.

At WEN, we are continuously improving our products. If you find that your tool does not exactly match this manual, please visit [wenproducts.com](http://wenproducts.com) for the most up-to-date manual or contact our customer service at **1-800-232-1195**.

**Keep this manual available to all users during the entire life of the tool and review it frequently to maximize safety for both yourself and others.**

## SPECIFICATIONS

Model Number	20625
Included Battery	4.0Ah Battery (Model 20204)
Included Charger	20V, 2A DC (Model 20200C)
No-Load Speed	4,200 RPM
Blade Size	6-1/2 Inches (165mm), 20mm Arbor
Max Cutting Capacity	2-1/6 Inches (55mm) @ 90 Degrees
	1-3/5 Inches (40mm) @ 45 Degrees
Product Weight	4.7 Pounds (No Battery)
Product Dimensions	10-3/4 in. x 7 in. x 9-1/4 in.

Battery Models	All WEN 20V MAX Batteries*
Charger Models	All WEN 20V MAX Chargers

**\*NOTE:** Some tools may not be compatible with WEN 20V MAX 1.5Ah Batteries, model 49120B. Contact WEN customer service at **1-800-232-1195**, M-F with questions.

WEN plans to continue to add more items to our 20V line. For an up-to-date list of the 20V cordless tools compatible with the included battery and charger, visit [wenproducts.com](http://wenproducts.com) and search model number 20202 (2Ah) or 20204 (4Ah). In the battery's description, there will be a list of current products that this battery can be used with.

# GENERAL SAFETY RULES

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

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

## SAVE THESE SAFETY INSTRUCTIONS.

### WORK AREA SAFETY

- 1. Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- 2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- 3. Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### ELECTRICAL SAFETY

- 1. 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.
- 2. 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.
- 3. Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 4. Do not abuse the cord. Never use the cord 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.
- 5. 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.

- 6. If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

### PERSONAL SAFETY

- 1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use 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.
- 2. Use personal protective equipment. Always wear eye protection.** Protective equipment such as a respiratory mask, non-skid safety shoes and hearing protection used for appropriate conditions will reduce the risk of personal injury.
- 3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, 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.
- 4. 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.
- 5. Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- 6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.



# GENERAL SAFETY RULES

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

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

## SAVE THESE SAFETY INSTRUCTIONS.

**7. 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.

### POWER TOOL USE AND CARE

**1. 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.

**2. 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.

**3. 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.

**4. 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.

**5. 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.

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

**7. 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.

**8. Use clamps to secure your workpiece to a stable surface.** Holding a workpiece by hand or using your body to support it may lead to loss of control.

**9. KEEP GUARDS IN PLACE** and in working order.

### SERVICE

**1. 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.


### CALIFORNIA PROPOSITION 65 WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling. 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 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 with approved safety equipment such as dust masks specially designed to filter out microscopic particles.

# CIRCULAR SAW SAFETY WARNINGS

 **WARNING!** Do not operate the power tool until you have read and understood the following instructions and the warning labels.

## CIRCULAR SAW SAFETY

**1. Work environment.** Do not operate the tool in wet or damp conditions; doing so significantly increases the risk of electrical shock. Do not operate the tool in the presence of flammable liquids or gases. When operating the tool from an elevated position, be aware of people or things beneath you.

**2. Personal Safety.** Always wear ANSI Z87.1-approved glasses, a dust mask and hearing protection when using the saw. Do not wear loose clothing or jewelry as they might get drawn in by the tool.

**3. Preventing electric shock.** When working with the tool, make sure to keep the blade away from any power cables, extension cords or wiring. Only hold the tool by insulated gripping surfaces when performing an operation in case the cutter contacts its own cord. Cutting a “live” wire may make exposed metal parts of the tool “live” and could give the operator an electric shock.

**4. Inspect your tool before operation.** Before operation, check the tool for any damage or missing parts. Do not use the tool if any part is missing or damaged. Do not use the tool if the power switch is faulty, the plug or cable is damaged, or the tool produces sparks, smoke, or unpleasant odors (you may smell brushes wearing down for a few minutes as the tool breaks in during the first use, that is normal). Make sure all adjustments are correct and all connections are tight.

**5. Lower blade guard safety.** Check lower blade guard for functionality before each use. To check the lower guard, unplug the tool and open the lower guard by lifting the blade guard lever, then release and watch the guard close. Do not operate saw if lower guard does not move freely or close immediately. Leaving a blade exposed is very dangerous and can lead to serious personal injury.

- Never clamp, tie, or otherwise fix the lower guard into the open position.

- If the saw is accidentally dropped, the lower guard may bend. Raise the lower guard with the blade guard lever to make sure it moves freely without touching the blade or any other saw part for all angles and depths of possible cuts.

- Always ensure that the lower guard is covering the blade before placing the saw down on a bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after the switch is released.


- The lower guard should be retracted manually only for special cuts such as plunge cuts/pocket cuts. Raise the lower guard by retracting the lever. As soon as the blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.

**6. Supporting the workpiece.** Never hold a piece being cut in your hands or across your legs. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.

**7. Starting the tool.** Always start the saw before the blade comes into contact with the workpiece. Let the blade reach full speed before using the tool. The reaction to the torque as the motor accelerates to full speed may cause the tool to kick back.

**8. Standing position.** Keep your body positioned to either side of the saw blade, but not in line with the saw blade. Kickback could cause the saw to jump backwards.

# CIRCULAR SAW SAFETY WARNINGS

 **WARNING!** Do not operate the power tool until you have read and understood the following instructions and the warning labels.

## CIRCULAR SAW SAFETY

**9. During the cut.** Keep hands away from the cutting area and the blade. Do not reach underneath the workpiece. The blade guard cannot protect you from the blade protruding from the underside of the workpiece. Do not attempt to remove cut material when the blade is moving.

**10. Reducing kickback.** Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the work piece toward the operator. When the blade is pinched or bound tightly by the kerf (width of cut) closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator. If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back towards the operator. Take the proper precautions below to reduce the risk of kickback.

- Maintain a firm grip on the saw and position your body and arm in a way that allows you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken.

- When a blade is binding (or when interrupting a cut for any reason), release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.

- When restarting a saw in the workpiece, center the blade in the kerf and check that the teeth are not engaged into the material. If the saw blade is binding, it may walk up or kickback from the work piece as the saw is restarted. Investigate and take corrective actions to eliminate the causes of blade binding.

- Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of the cut and near the edge of the panel.

- Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf, causing excessive friction, blade binding, and kickback.

- The blade depth locking knob and bevel adjustment locking knob must be tight and secure before making a cut. If the blade adjustment shifts while cutting, it will cause binding and kickback.

- Use extra caution when making a plunge cut/pocket cut into existing walls or other blind areas. The protruding blade may contact objects that could cause kickback.

**11. Turning off the tool.** Blades coast after turning the saw off. Wait until the blade stops before reaching for loose material or setting the tool down.

**12. Replacing saw blade.** Check the blade for chipped or broken teeth. Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf, causing excessive friction, blade binding, and kickback. Always use blades with correct size arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing a loss of control. See “Replacing the Blade.”

**13. Making adjustments.** Always turn off and unplug the saw before making adjustments or changing attachments. Accidental start-ups may occur if the saw is plugged in during an accessory change or adjustment.

## ELECTRICAL INFORMATION (CHARGER)

### DOUBLE-INSULATED CHARGER

The charger's electrical system is double-insulated where two systems of insulation are provided. This eliminates the need for the usual three-wire grounded power cord. Double-insulated tools do not need to be grounded, nor should a means for grounding be added to the product. All exposed metal parts are isolated from the internal metal components with protecting insulation.



**IMPORTANT:** Servicing a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel using identical replacement parts. Always use original factory replacement parts when servicing.

**1. Polarized Plugs.** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a proper outlet. Do not modify the machine plug or the extension cord in any way.

**2. Ground fault circuit interrupter protection (GFCI)** should be provided on the circuit or outlet used for this power tool to reduce the risk of electric shock.

**3. Service and repair.** To avoid danger, electrical appliances must only be repaired by a qualified service technician using original replacement parts.

### GUIDELINES AND RECOMMENDATIONS FOR EXTENSION CORDS

When using an extension cord, be sure to use one heavy enough to carry the current your product 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 be used according to cord length and ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

AMPERAGE	REQUIRED GAUGE FOR EXTENSION CORDS			
	25 ft.	50 ft.	100 ft.	150 ft.
2A	18 gauge	16 gauge	16 gauge	14 gauge

**1. Examine extension cord before use.** Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

**2. Do not abuse extension cord.** Do not pull on cord to disconnect from receptacle; always disconnect by pulling on plug. Disconnect the extension cord from the receptacle before disconnecting the product from the extension cord. Protect your extension cords from sharp objects, excessive heat and damp/wet areas.

**3. Use a separate electrical circuit for your tool.** This circuit must not be less than a 12-gauge wire and should be protected with a 15A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

## **BATTERY & CHARGER SAFETY WARNINGS**

Despite all of the safety precautions, caution must always be taken when handling batteries. The following points must be obeyed at all times to ensure safe use. Safe use can only be guaranteed if undamaged cells are used. Incorrect handling of the battery pack can cause cell damage.

- **Avoid dangerous environments** – Do not charge the battery pack in rain, snow or in damp or wet locations. Do not use the battery pack or charger in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials) because sparks may be generated when inserting or removing the battery pack, which could lead to a fire.

- **Charge in a well-ventilated area** – Do not block the charger vents. Keep them clear to allow for proper ventilation. Do not allow smoking or open flames near a charging battery pack. Vented gases may explode.

**NOTE:** The safe temperature range for the battery charging is 41°F to 104°F. Do not charge the battery outside in freezing weather; charge it at room temperature.


- **Maintain charger cord** – When unplugging the charger, pull the plug, not the cord, from the receptacle to reduce the risk of damage to the electrical plug and cord. Never carry the charger by its cord or yank it by the cord to disconnect it from the receptacle. Keep the cord away from heat, oil and sharp edges. Make sure the cord will not be stepped on, tripped over or subjected to damage or stress when the charger is in use. Do not use the charger with a damaged cord or plug. Replace a damaged charger immediately.

- **Do not use an extension cord unless it is absolutely necessary** – Using the wrong, damaged or improperly wired extension cord poses a risk of fire and electric shock. If an extension cord must be used, plug the charger into a properly wired 16 gauge or larger extension cord with the female plug matching the male plug on the charger. Make sure that the extension cord is in good electrical condition.

- **Charger is rated for 120 volt AC only** – The charger must be plugged into an appropriate receptacle.

- **Use only recommended attachments** – Use of an attachment not recommended or sold by WEN Products may result in risk of fire, electric shock or personal injury.

- **Unplug charger when not in use** – Make sure to remove battery packs from unplugged chargers.

 **WARNING!** To reduce the risk of electric shock, always unplug the charger before performing any cleaning or maintenance. Do not allow water to flow into the charger. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.

- **Do not burn or incinerate battery packs** – Battery packs may explode, causing personal injury or damage. Toxic fumes and materials are created when battery packs are burned.

- **Do not crush, drop or damage battery packs** – Do not use the battery pack or charger if they have sustained a sharp blow, been dropped, run over or have been damaged in any way (i.e. pierced with a nail, hit with a hammer, stepped on, etc.).

- **Do not disassemble** – Incorrect reassembly may pose a serious risk of electric shock, fire or exposure to toxic battery chemicals. If the battery or charger are damaged, call WEN customer service at **1-800-232-1195** for assistance.

- **Battery chemicals cause serious burns** – Never let a damaged battery pack contact the skin, eyes or mouth. If a damaged battery pack leaks battery chemicals, use rubber or neoprene gloves to safely dispose of it. If skin is exposed to battery fluids, wash the affected area with soap and water and rinse with vinegar. If eyes are exposed to battery chemicals, immediately flush with water for 20 minutes and seek medical attention. Remove and dispose of contaminated clothing.

- **Store your battery pack and charger in a cool, dry place** – Do not store the battery pack or charger where temperatures may exceed 104 °F, such as in direct sunlight or inside a vehicle or metal building during the summer.

- **Do not short circuit** – A battery pack will short circuit if a metal object makes a connection between the positive and negative contacts on the battery pack. Do not place a battery pack near anything that may cause a short circuit, such as paper clips, coins, keys, screws, nails and other metallic objects. A short-circuited battery pack poses a risk of fire and severe personal injury.



# **BATTERY & CHARGER SAFETY WARNINGS**

## **ABOUT THE BATTERY**

1. The battery pack has to be charged completely before you use the tool for the first time.
2. For optimum battery performance, avoid low discharge cycles by charging the battery pack frequently.
3. Lithium-ion batteries are subject to a natural aging process. The battery pack must be replaced at the latest when its capacity falls to just 80% of its capacity when new. Weakened cells in an aged battery pack are no longer capable of meeting the high power requirements needed for the proper operation of your tool, and therefore pose a safety risk.
4. Do not throw battery packs into an open fire as this poses a risk of explosion. Do not ignite the battery pack or expose it to fire.
5. Do not exhaustively discharge batteries. Exhaustive discharge will damage the battery cells. The most common cause of exhaustive discharge is lengthy storage or non-use of partially discharged batteries. Stop working as soon as the performance of the battery falls noticeably or the electronic protection system triggers. Place the battery pack in storage only after it has been fully charged.
6. Protect batteries and the tool from overloads. Overloads will quickly result in overheating and cell damage inside the battery housing even if this overheating is not apparent externally.
7. Avoid damage and shocks. Immediately replace batteries that have been dropped from a height of more than one meter or those that have been exposed to violent shocks, even if the housing of the battery pack appears to be undamaged. The battery cells inside the battery may have suffered serious damage. In such instances, please read the waste disposal information for proper battery disposal.
8. If the battery pack suffers overloading and overheating, the integrated protective cutoff will switch off the equipment for safety reasons.
9. Use only original battery packs. The use of other batteries poses a fire risk and may result in injuries or an explosion.

## **ABOUT THE CHARGER**

Protect battery charger and cord from damage. Keep the charger and its cord away from heat, oil and sharp edges.

Electrical plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded appliances. Unmodified plugs and matching outlets will reduce the risk of electric shock.

Keep the battery charger, battery pack(s), and the cordless tool out of the reach of children.

Do not use the supplied battery charger to charge other cordless tools.

During periods of heavy use, the battery pack will become warm. Allow the battery pack to cool to room temperature before inserting it into the charger to recharge.

Do not overcharge batteries. Do not exceed the maximum charging times. These charging times only apply to discharged batteries. Frequent insertion of a charged or partially charged battery pack will result in overcharging and cell damage. Do not leave battery in the charger for days on end.

Never use or charge a battery if you suspect that it has been more than 12 months since last time they were charged. There is a high probability that battery pack has already suffered dangerous damage (exhaustive discharge).

Do not use battery that have been exposed to heat during the charging process, as the battery cells may have suffered dangerous damage.

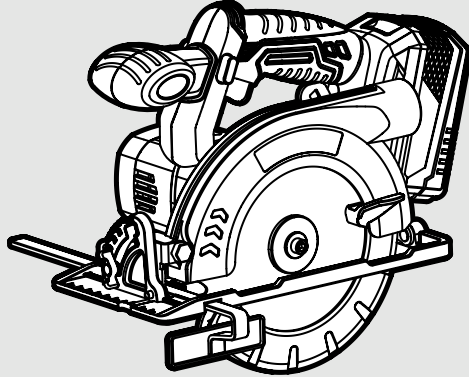
Do not use battery that have suffered curvature or deformation during the charging process or those that exhibit other atypical symptoms (gassing, hissing, cracking, etc.)

## UNPACKING & PACKING LIST

### UNPACKING

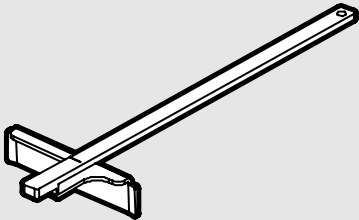
Carefully remove the circular saw from the packaging and place it on a sturdy, flat surface. Make sure to take out all contents and accessories. Do not discard the packaging until everything is removed. Check the packing list below to make sure you have all of the parts and accessories. If any part is missing or broken, please contact customer service at **1-800-232-1195** (M-F 8-5 CST), or email [techsupport@wenproducts.com](mailto:techsupport@wenproducts.com).

#### Components

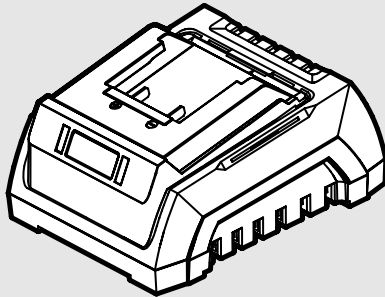


**Circular Saw**

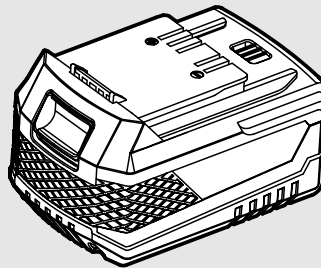
#### Accessories



**Rip Guide Fence**



**20V Charger (1)**



**20V Battery (1)**

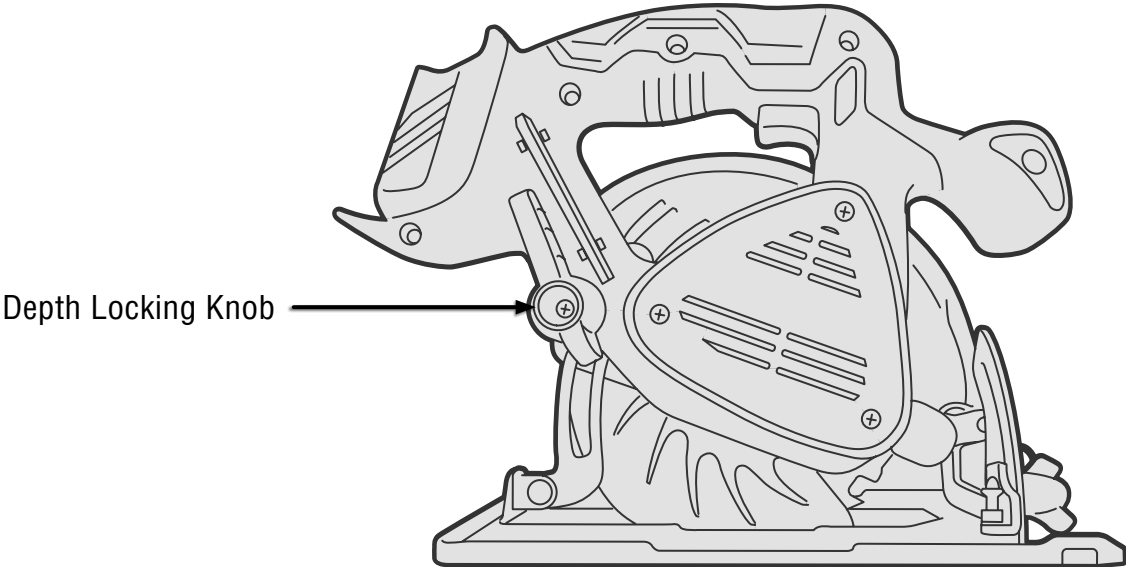
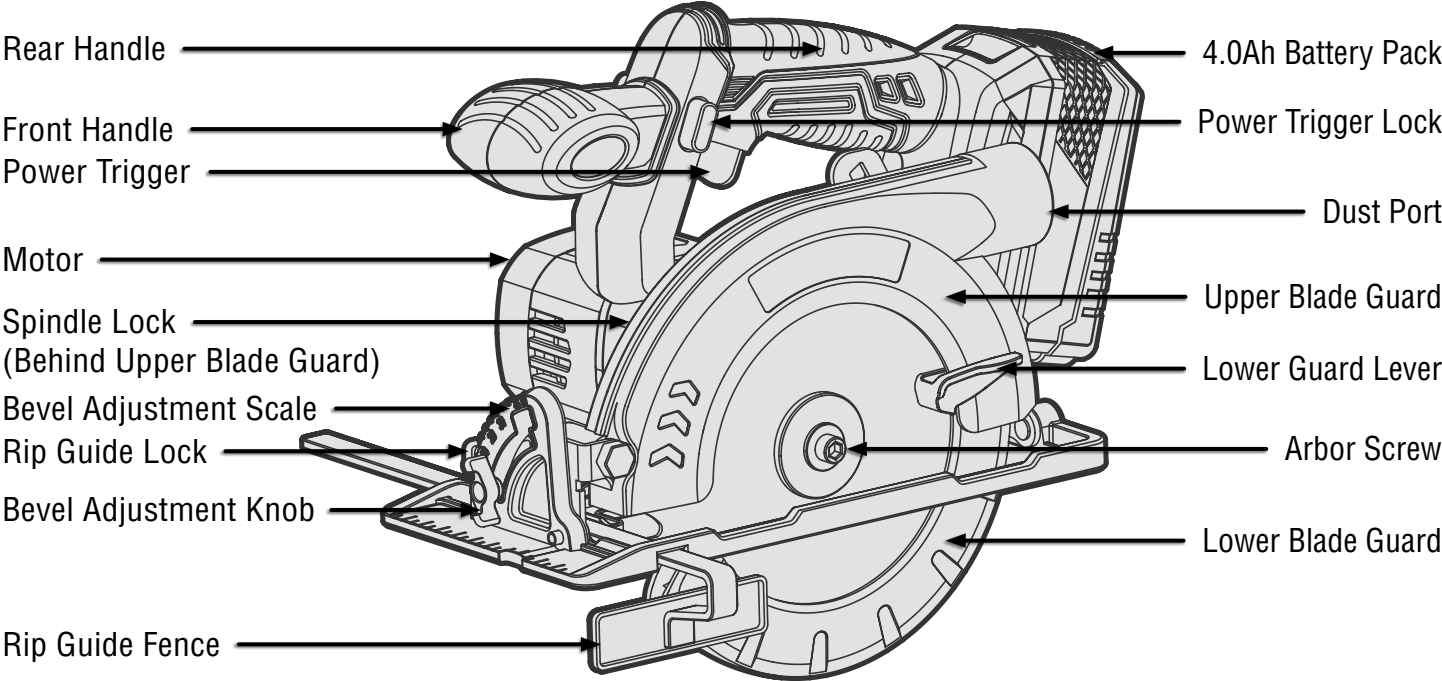


**5mm Hex Wrench**

# KNOW YOUR CIRCULAR SAW

## TOOL PURPOSE

Easily make miter cuts and rough cuts on large sheets of material with your WEN Circular Saw. Refer to the following diagrams to become familiarized with all the parts and controls of your circular saw. The components will be referred to later in the manual for assembly and operation instructions.





## ASSEMBLY & ADJUSTMENTS

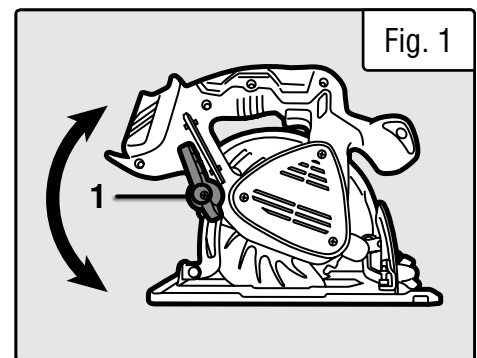
**⚠ WARNING!** To avoid injury from accidental startups, be sure that the tool is switched off and disconnected from the power supply before inspecting the unit, making adjustments, or changing accessories.

### SETTING THE DEPTH OF CUT

Before making a cut, it is important to set the correct blade depth. The saw's maximum cutting depth at the 90° setting is 2-1/6 inches (55mm) and 1-3/5 inches (40mm) at the 45° setting. Adjust the depth of cut to accommodate the depth of the material being cut, but do not allow the saw to cut more than 1/4 inch below the bottom surface of the material. Excessive blade depth increases the chance of saw kickback. For example, if your workpiece is 2 inches deep, set the cutting depth around 2-1/8 inches, but no deeper than 2-1/4 inches. To adjust the cutting depth, you can either reference the depth guide bracket, or the edge of the workpiece as described in the steps below.

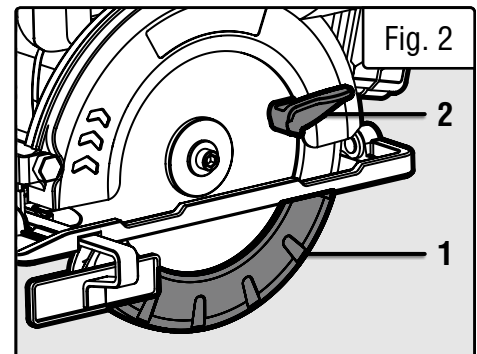
#### Using the depth guide bracket:

1. Make sure that your tool is powered OFF and disconnected from the power source.
2. Loosen the depth locking knob (Fig. 1 - 1) on the depth guide bracket at the back of saw.
3. Move the base plate up or down to the desired depth, indicated on the depth guide bracket.
4. Tighten the depth locking knob to secure the depth setting.



#### Using the edge of the workpiece:

1. Make sure that your tool is powered OFF and disconnected from the power source.
2. Raise the lower blade guard (Fig. 2 - 1) by lifting the blade guard lever (Fig. 2 - 2) to expose the blade. Place the saw base onto the workpiece surface with the saw blade positioned against the side edge of the workpiece.
3. Loosen the depth locking knob (Fig. 1 - 1). Raise or lower the saw body to obtain the desired depth of cut by observing how deep the blade will cut relative to the top face of the workpiece.
4. Tighten the depth locking knob to secure the depth setting.

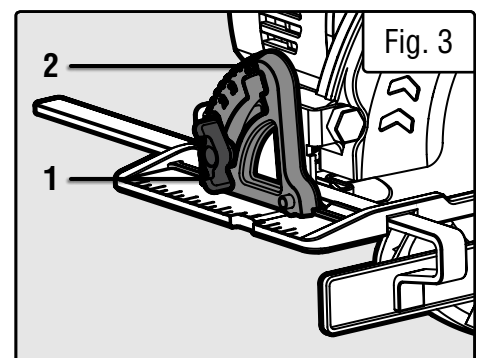


### ADJUSTING THE BEVEL ANGLE

The saw can be tilted 50 degrees to the right for creating bevel cuts.

#### To adjust the bevel angle of the blade:

1. Loosen the bevel adjustment knob (Fig. 3 - 1) on the bevel adjustment scale (Fig. 3 - 2) at the front of the saw.
2. Tilt the saw to the desired angle. The top edge of the indicator bar will indicate the angle setting on the bevel angle bracket.
3. Tighten the bevel adjustment knob securely.
4. Make a test cut in scrap lumber and measure the angle of the cut to confirm that the bevel angle is properly set. If necessary, adjust the bevel angle appropriately before cutting the actual work piece.



## ASSEMBLY & ADJUSTMENTS

### LINE-OF-CUT INDICATORS

A line-of-cut indicator notch (Fig. 4 - 1) can be found at the front of the saw base. This notch helps provide indication of where the cut will be occurring.

**NOTE:** Since blade thicknesses vary, it is necessary to make test cuts along a guideline in scrap material to determine the proper alignment of the guideline within the notch. This will help to obtain an accurate cut with blades of various thicknesses.

### INSTALLING THE RIP GUIDE

When cutting lumber lengthwise you are usually cutting along the wood's grain rather than across the grain. Cutting with the grain of wood is called "ripping," also known as a rip cut. Since rip cuts tend to be lengthy, it can be difficult to accurately follow the guideline the entire distance of the cut.

To assist you in obtaining a straight rip cut, it is recommended to use the included rip guide (Fig. 5 - 1).

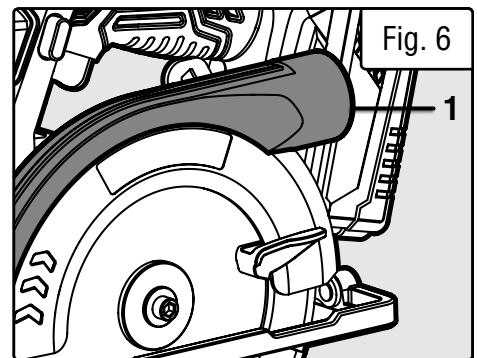
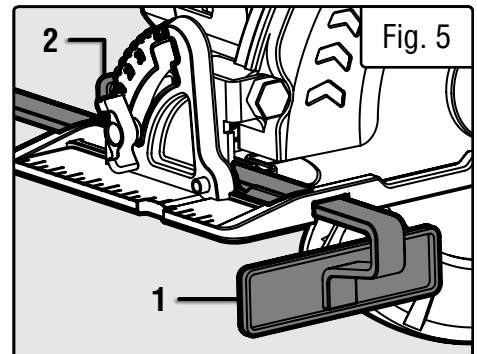
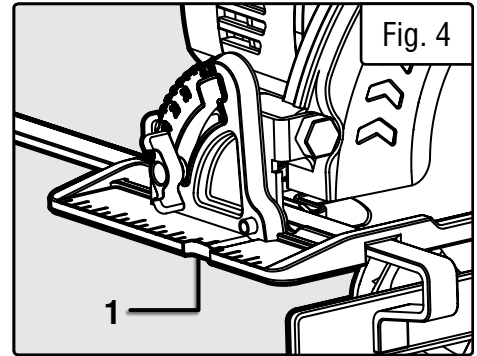
#### To install the rip guide on your saw, perform the following steps:

1. Make sure that your tool is powered OFF and disconnected from the power source.
2. The rip guide should be attached from the left side of the saw. Insert the rip guide (Fig. 5 - 1) through all the slots on the saw base until it extends out of the base.
3. Adjust the position of the rip guide for the desired width of cut.
4. Securely tighten the rip guide locking knob (Fig. 5 - 2) to hold the rip guide in position.

### CONNECTING DUST COLLECTION

Saw dust generated during cutting operations can be hazardous to your health. Use a dust extraction system to collect the dust and chips.

1. Attach a dust bag or other dust extraction system (not included) onto the dust port (Fig. 6 - 1). The dust port's outer diameter is 1-1/2" (39.1mm); the inner diameter is 1-3/8" (34.8mm).



# OPERATION

**⚠ WARNING!** To prevent serious injury, make sure all the instructions have been read and understood before operating this tool. Before connecting the tool to its power source, always check to see that the tool is turned OFF. Accidentally starting the saw could result in injury.

## TYPES OF CUTS

### • Cross-Cutting And Rip Cutting

Cutting directly across the grain of a piece of wood is called “cross-cutting” and is likely the most common type of cut done with a circular saw. Cutting wood lengthwise, or with the grain, is referred to as “rip cutting.” Attach the rip guide to your saw to help create straight cuts along the side of your workpiece.

### • Bevel Cutting

Cutting the workpiece at a bevel angle between 0° and 50° is called “bevel cutting.” Set the bevel angle prior to performing your cut.

### • Plunge Cutting

A plunge cut is a cut that must be made inside the area of the workpiece rather than starting from an outside edge and working inward.

**NOTE:** Plunge cuts can be very dangerous for the novice to attempt.

## PREPARING FOR OPERATION

Correct preparation of the workpiece and work area prior to cutting is very important for safe operation.

1. Set the correct depth of cut for your workpiece. Set the bevel angle for bevel cutting and attach the rip guide as necessary for cross-cutting or rip cutting.
2. Place the workpiece with the “good” side down (the saw blade cuts upward through the material, and may “blow out” the top side). Set-up and support the workpiece so the cut is always on your right. Securely clamp down the workpiece so it will not move during the cut.
4. Draw a guideline along the desired path of the cut before starting your saw or the cut.
5. Wear safety goggles, a dust mask, and hearing protection.

## STARTING AND STOPPING THE SAW

### To start the saw:

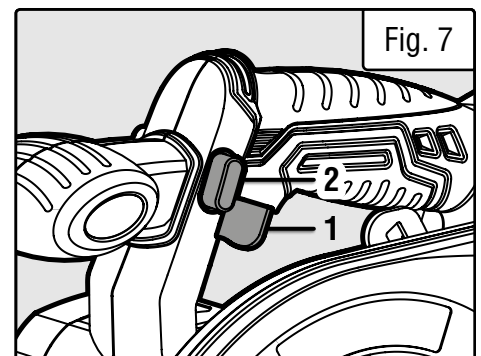
1. Press and hold the trigger safety lock (Fig. 7 - 1), and then pull the power trigger (Fig. 7 - 2) to start the saw.

**NOTE:** Always let the blade reach full speed before guiding the saw into the work piece. The blade coming into contact with the workpiece before reaching full speed could cause your saw to kick back towards you.

### To stop the saw:

Release the power trigger to stop the saw.

**NOTE:** Do not remove your saw from the work piece while the blade is still moving. Allow the blade to come to a complete stop before setting down the tool.



# OPERATION

## OPERATING THE SAW

1. Hold the tool firmly with both hands, using both the front handle and rear handle. Avoid placing your hand on the workpiece while making a cut. If both hands are holding the saw, they cannot be cut by the blade.
2. Make sure that you are not in the path of chips and wood dust being ejected from the saw.
3. Set the front portion of the saw's base on the workpiece to be cut without letting the blade contact the workpiece. Position the saw with its motor facing toward the larger section of board that isn't falling away when cut. Align the line-of-cut indicator notch (Fig. 4) on the base with your guideline.
4. Turn on the saw and let the blade reach full speed before guiding the saw into the work piece.
5. Ease the tool forward over the workpiece surface, keeping it flat and advancing smoothly while following your guideline until sawing is completed.
  - Do not force the saw forward too quickly in order to try and hurry up the process. Let the tool work at its own pace.
  - To make sawing easier and safer, be sure to move the tool forward gently in a straight line. Never force or twist the saw during operation. Forcing or twisting the tool will result in overheating the motor and will increase the chances of dangerous kickback, possibly causing severe personal injury.
  - If the cut fails to properly follow your intended cut line, release the switch trigger, wait for the blade to stop, and then remove the tool. Realign saw on a new cut guideline and start the cut again. Do not attempt to turn or force the tool back to the cut line. Doing so may bind the blade and lead to dangerous kickback and possible serious injury.
6. Once the cut is complete, release the switch trigger. Wait for the blade to completely stop. Check that the lower blade guard has returned to position surrounding the blade. Now you can safely set the saw down out of the way. Disconnect the saw from the power source.

## CROSS-CUTTING AND RIP CUTTING

Cross-cutting means cutting directly across the grain of a piece of wood and it is likely the most common type of cut done with a circular saw. As mentioned in "Installing the Rip Guide," cutting wood lengthwise, or with the grain, is referred to as rip cutting (or simply "ripping"). Both types of cuts are performed in the same manner with the exception of the methods used to support and secure the work piece for cutting.

## BEVEL CUTTING

Bevel cuts are made using the same technique as crosscuts and ripping described in the previous section. The difference is that the blade is set at a tilted angle between 0° and 50°. A bevel cut made at an angle to the edge of a board is called a compound miter. Some compound cuts may require you to manually retract the lower guard to allow the blade to enter into and/or through the cut.

There are tools better suited for bevel and compound cuts than the hand-held circular saw. Although the inner line-of-cut indicator notch aids the operator in following the cut's guideline, the tilted motor housing sometimes obstructs the operator's ability to see the blade, making accurate cuts difficult. Before taking on a project with numerous compound or bevel cuts it's suggested that the inexperienced saw user spends time making practice cuts in scrap lumber to become familiar with and overcome difficulties associated with compound/bevel cutting.

## OPERATION

### MAKING PLUNGE CUTS/POCKET CUTS


A plunge cut is a cut that must be made inside the area of the workpiece rather than starting from an outside edge and working inward. Plunge cuts can be very dangerous for the novice to attempt because of the need to manually retract the lower guard and perform a plunge cut which is potentially hazardous.

Before performing plunge cuts, it's recommended that the inexperienced saw user spends time making practice cuts in scrap lumber to become familiar with and overcome difficulties associated with plunge cuts.

1. Disconnect the saw from the power supply.
2. Set the blade to the correct depth of cut, see "SETTING THE DEPTH OF CUT".
3. Swing the lower blade guard (Fig. 2 - 1) up using the lower blade guard lever (Fig. 2 - 2).

**NOTE:** Always raise the lower blade guard with the blade guard lever, not the side of the blade guard to avoid serious injury.


4. While holding the lower blade guard by the lever, rest the front of the base flat against the workpiece with the rear handle elevated so the blade does not touch the work piece.
5. Start the saw and let the blade reach full speed.
6. Guide the saw down into the workpiece and make the plunge cut.

 **WARNING!** Always cut in a forward direction when plunge cutting. Cutting in the reverse direction could cause the saw to climb up on the work piece and back toward you.

7. Release the power trigger (Fig. 7 - 1) and allow the blade to come to a complete stop.
8. Lift the saw from the workpiece.
9. Repeat this procedure for the remaining sides, and then clear the corners out with a hand saw or jig saw.

 **WARNING!** Never clamp, tie, or otherwise fix the lower blade guard in a raised position. Leaving the blade exposed could lead to serious injury.

## MAINTENANCE

 **WARNING!** To avoid injury from accidental startups, be sure that the tool is switched off and disconnected from the power supply before inspecting the unit, making adjustments or changing accessories.

### REPLACING THE SAW BLADE

The quality of the cut depends on the condition of the saw blade. Never use a dull, rusty, or damaged blade. Before operation, check the blade and replace if the blade is worn-out or damaged.

Use circular saw blades with 6-1/2-inch diameter and 20mm arbor size. Do not use a blade that does not match the diameter or arbor of the saw. Do not use a blade that is too thick; this will prevent the arbor bolt from securing the blade on the arbor. Do not use a blade thicker than 1.2mm (0.045 inch). Replacement saw blades (**Model 20625B**) can be ordered from **wenproducts.com**. Note that parts that wear down over the course of normal use (like saw blades, carbon brushes, etc.) are not covered by the two-year warranty.

 **WARNING!** Wear safety gloves when handling saw blades to prevent injuries from accidentally contacting the sharp blade tip.

1. Unplug your circular saw from the power source.
2. Press down the spindle lock to prevent the blade from spinning.
3. Using the included 5mm hex wrench, remove the arbor bolt by turning it clockwise (the bolt is left-hand threaded).
4. Remove the washer and outer flange washer.
5. Lift the lower guard and remove the existing blade.
6. Lift the lower guard and slide the new saw blade onto the spindle. Make sure the arrows printed on the blade match the direction of the arrows shown on the upper blade guard, and the blade teeth are pointing up.
7. Replace the outer flange washer.
8. Press the spindle lock and replace the arbor bolt and washer. Tighten the arbor bolt securely by turning it counterclockwise with the wrench while holding the spindle lock.
9. Check to make sure the blade is properly installed and spins freely inside the housing. Check that the arbor screw is tightened and the blade does not wobble while spinning.

## ***MAINTENANCE***

**⚠ WARNING!** To avoid accidents, turn OFF and remove the battery pack from the charger and the charger from the outlet before cleaning, adjusting, or performing any maintenance work.

**⚠ WARNING!** Any attempt to repair or replace electrical parts on this tool may be hazardous. Servicing of the tool must be performed by a qualified technician. When servicing, use only identical WEN replacement parts. Use of other parts may be hazardous or induce product failure.

### **ROUTINE INSPECTION**

Before each use, inspect the general condition of the tool. If any of these following conditions exist, do not use until parts are replaced.

#### **Check for:**

- Loose hardware,
- Damaged battery pack,
- Cracked or broken parts, and
- Any other condition that may affect its safe operation

### **CLEANING & STORAGE**

1. Keep the ventilation openings free from dust and debris to prevent the motor from overheating.
2. Wipe the tool surfaces clean with a damp cloth and mild soap. Make sure water does not get into the tool.

**CAUTION:** Most plastics are susceptible to damage from various types of commercial solvents. Do not use any solvents or cleaning products that could damage the plastic parts. Some of these include but are not limited to: gasoline, carbon tetrachloride, chlorinated cleaning solvents, and household detergents that contain ammonia.

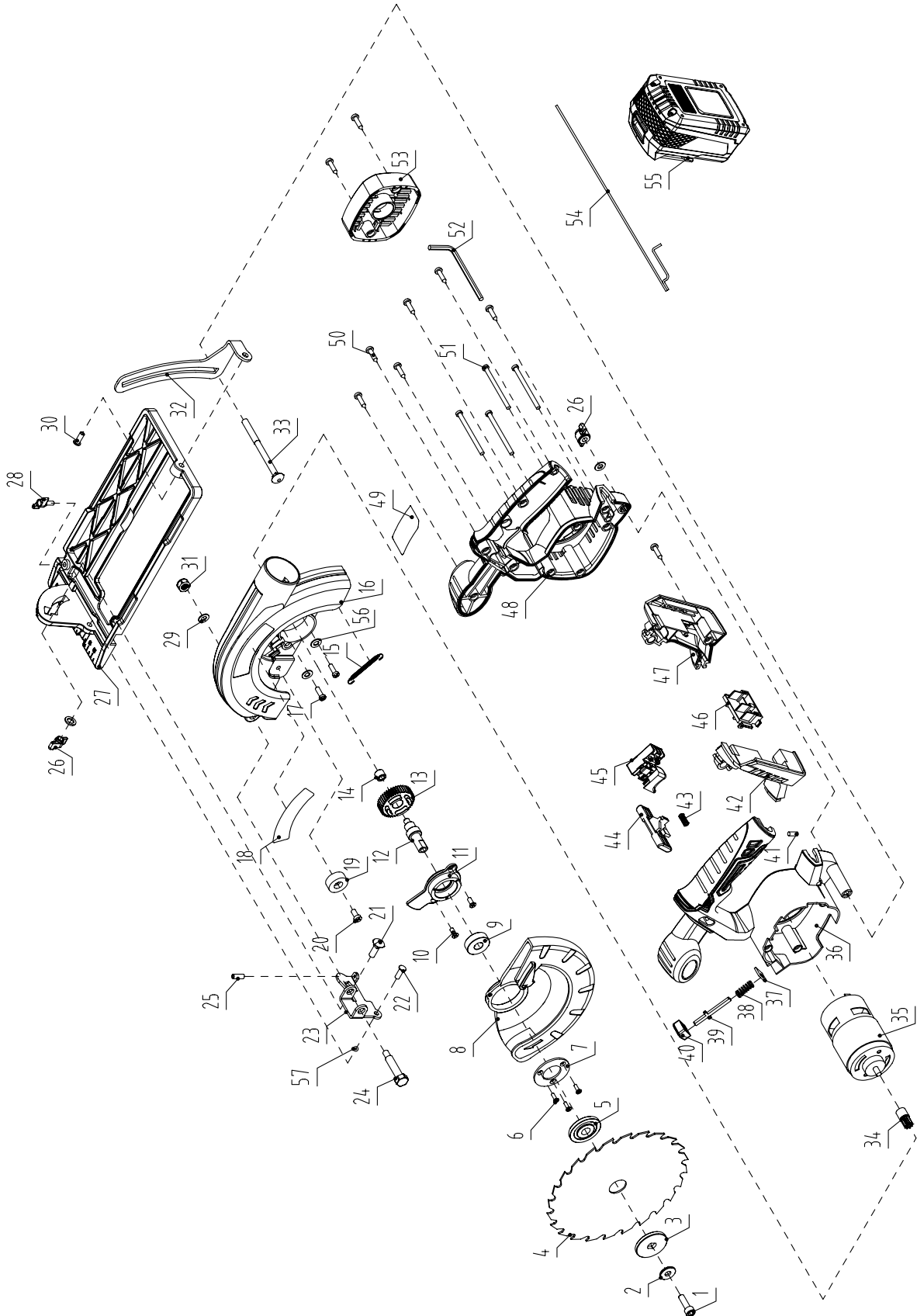
3. Allow the tool to cool before storing it. Store the tool in a clean and dry place away from the reach of children.

### **PRODUCT DISPOSAL**

Used power tools should not be disposed of together with household waste. This product contains electronic components that should be recycled. Please take this product to your local recycling facility for responsible disposal and to minimize its environmental impact.



# EXPLODED VIEW & PARTS LIST



**NOTE:** Not all parts may be available for purchase. Parts and accessories that wear down over the course of normal use are not covered under the warranty.



## **EXPLODED VIEW & PARTS LIST**

No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1	20625-001	Hex Screw, M6x15 (LH)	1	29	20625-029	Washer, 6mm	3
2	20625-002	Washer	1	30	20625-030	Rivet	1
3	20625-003	Outer Flange	1	31	20625-031	Nut, M6	1
4	20625B	Blade	1	32	20625-032	Depth Guide	1
5	20625-005	Inner Flange	1	33	20625-033	Bolt, M6x80	1
6	20625-006	Phillips Head Screw, M3x8	3	34	20625-034	Motor Gear	1
7	20625-007	Bearing Cover Plate	1	35	20625-035	Motor	1
8	20625-008	Lower Blade Guard	1	36	20625-036	Left Housing	1
9	20625-009	Bearing, 6000-2RS	1	37	20625-037	Felt Pad	1
10	20625-010	Phillips Head Screw, M5x10	2	38	20625-038	Arbor Lock Spring	1
11	20625-011	Bearing Support	1	39	20625-039	Arbor Lock	1
12	20625-012	Arbor	1	40	20625-040	Arbor Lock Button	1
13	20625-013	Gear	1	41	20625-041	Silicone Bushing	1
14	20625-014	Bushing	1	42	20625-042	Left Battery Housing	1
15	20625-015	Lower Blade Guard Spring	1	43	20625-043	Switch Spring	1
16	20625-016	Upper Blade Guard	1	44	20625-044	Lock Off Switch	1
17	20625-017	Phillips Head Screw, M5x15	2	45	20625-045	Switch	1
18	20625-018	Label	1	46	20625-046	Battery Terminal	1
19	20625-019	Rubber Bushing	1	47	20625-047	Right Battery Housing	1
20	20625-020	Phillips Head Screw, M5x10	1	48	20625-048	Right Housing	1
21	20625-021	Square Neck Bolt, M6x25	1	49	20625-049	Label	1
22	20625-022	Rivet	1	50	20625-050	Phillips Head Screw, ST4x16	9
23	20625-023	Bracket	1	51	20625-051	Phillips Head Screw, M4x50	4
24	20625-024	Bolt, M8x40	1	52	20625-052	Hex Wrench, 5mm	1
25	20625-025	Positive Stop Scew, M4x15	1	53	20625-053	Motor Cover	1
26	20625-026	Depth Lock Knob, M6	2	54	20625-054	Fence	1
27	20625-027	Base	1	55	20204	Battery	1
28	20625-028	Fence Lock Knob, M5x12	1	56	20625-056	Lock Washer, 5mm	2
				57	20625-057	Flat Washer, 5mm	1

**NOTE:** Not all parts may be available for purchase. Parts and accessories that wear down over the course of normal use are not covered under the warranty.

## **WARRANTY STATEMENT**

WEN Products is committed to building tools that are dependable for years. Our warranties are consistent with this commitment and our dedication to quality.

### **LIMITED WARRANTY OF WEN PRODUCTS FOR HOME USE**

GREAT LAKES TECHNOLOGIES, LLC (“Seller”) warrants to the original purchaser only, that all WEN consumer power tools will be free from defects in material or workmanship during personal use for a period of two (2) years from date of purchase or 500 hours of use; whichever comes first. Ninety days for all WEN products if the tool is used for professional or commercial use. Purchaser has 30 days from the date of purchase to report missing or damaged parts.

SELLER’S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the replacement of parts, without charge, which are defective in material or workmanship and which have not been subjected to misuse, alteration, careless handling, misrepair, abuse, neglect, normal wear and tear, improper maintenance, or other conditions adversely affecting the Product or the component of the Product, whether by accident or intentionally, by persons other than Seller. To make a claim under this Limited Warranty, you must make sure to keep a copy of your proof of purchase that clearly defines the Date of Purchase (month and year) and the Place of Purchase. Place of Purchase must be a direct vendor of Great Lakes Technologies, LLC. Purchasing through third party vendors, including but not limited to garage sales, pawn shops, resale shops, or any other secondhand merchant, voids the warranty included with this product. Contact [techsupport@wenproducts.com](mailto:techsupport@wenproducts.com) or 1-800-232-1195 with the following information to make arrangements: your shipping address, phone number, serial number, required part numbers, and proof of purchase. Damaged or defective parts and products may need to be sent to WEN before the replacements can be shipped out.

Upon the confirmation of a WEN representative, your product may qualify for repairs and service work. When returning a product for warranty service, the shipping charges must be prepaid by the purchaser. The product must be shipped in its original container (or an equivalent), properly packed to withstand the hazards of shipment. The product must be fully insured with a copy of the proof of purchase enclosed. There must also be a description of the problem in order to help our repairs department diagnose and fix the issue. Repairs will be made and the product will be returned and shipped back to the purchaser at no charge for addresses within the contiguous United States.

THIS LIMITED WARRANTY DOES NOT APPLY TO ITEMS THAT WEAR OUT FROM REGULAR USAGE OVER TIME, INCLUDING BELTS, BRUSHES, BLADES, BATTERIES, ETC. ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO TWO (2) YEARS FROM DATE OF PURCHASE. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LIABILITY FOR LOSS OF PROFITS) ARISING FROM THE SALE OR USE OF THIS PRODUCT. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE IN THE U.S., PROVINCE TO PROVINCE IN CANADA AND FROM COUNTRY TO COUNTRY.

THIS LIMITED WARRANTY APPLIES ONLY TO ITEMS SOLD WITHIN THE UNITED STATES OF AMERICA, CANADA AND THE COMMONWEALTH OF PUERTO RICO. FOR WARRANTY COVERAGE WITHIN OTHER COUNTRIES, CONTACT THE WEN CUSTOMER SUPPORT LINE. FOR WARRANTY PARTS OR PRODUCTS REPAIRED UNDER WARRANTY SHIPPING TO ADDRESSES OUTSIDE OF THE CONTIGUOUS UNITED STATES, ADDITIONAL SHIPPING CHARGES MAY APPLY.



**THANKS FOR  
REMEMBERING**

