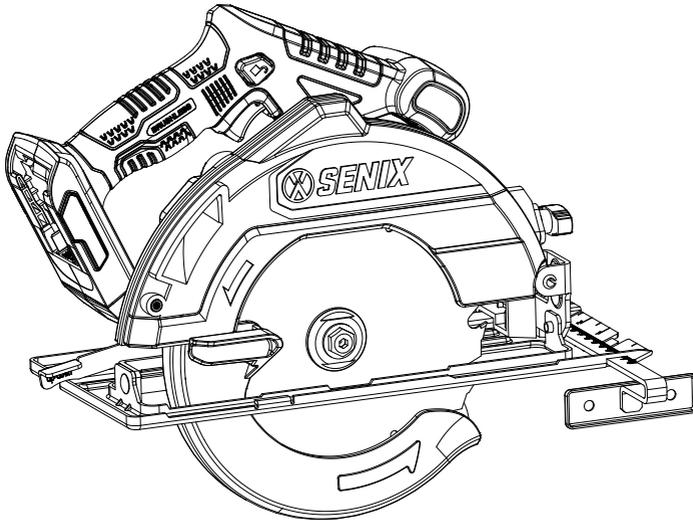




**X2** **18V** **Li-ion** **BRUSHLESS**<sup>TM</sup>  
LITHIUM-ION

## CORDLESS CIRCULAR SAW



**CAUTION:** Before using this tool, please read this manual completely, and follow all operating safety measures.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

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Keep bystanders a safe distance away from the work area.



Indoor use only. Only use battery charger indoors.



RCM mark



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.

## SAFETY & INTERNATIONAL SYMBOLS

Explanation of Safety & International symbols describes safety and international symbols and pictographs that may appear on this product. Read the operator's manual for complete safety, assembly, operating and maintenance and repair information.



Caution / Warning.



To reduce the risk of injury, user must read instruction manual.



Wear eye protection.



Wear a dust mask.



Wear safety footwear.



Wear protective gloves.



Using damaged cutting or roughing discs is dangerous and may cause serious injury.



Not approved for wet cutting.



Do not dispose of battery packs in rivers or immerse in water.



Do not dispose of battery packs in fire. They will explode and cause injury.

# SAFETY INSTRUCTIONS

## ORIGINAL INSTRUCTIONS

### 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.*

#### 1. **Work Area Safety**

- a. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b. **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 dust or fumes.
- c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control of the tool or workpiece.

#### 2. **Electrical Safety**

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

- e. **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.
  - f. **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. **Personal Safety**
  - a. **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.
  - b. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
  - c. **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 energising power tools that have the switch on invites accidents.
  - d. **Remove any adjustment keys or wrenches 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.
  - e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
  - f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
  - g. **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.
  - h. **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.

#### 4. Power Tool Use And Care

a. **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.

b. **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.

c. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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.

d. **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.

e. **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.

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

g. **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.

h. **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.

#### 5. Battery Tool Use And Care

a. **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.

b. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

c. **When battery pack is not in use, keep it away from other metal objects, such as 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 a fire.

d. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, seek additional medical help.** Liquid ejected from the battery may cause irritation or burns.

e. **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.

f. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 266°F (130 °C) may cause explosion.

g. **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.*



### WARNING

Use only SENIX X2 batteries (B20X2/B25X2/B40X2/B50X2/B60X2/B80X2) and chargers (CHX2/CHQX2/CHQX2-M-EU/CHDX2-M-EU).

#### 6. Service

a. **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.*

b. **Never service damaged battery packs.** *Service of battery packs should only be performed by the manufacturer or*

authorized service providers.

## SAFETY INSTRUCTIONS FOR ALL SAWS

### Cutting procedures

- a.  **DANGER: Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing.** *If both hands are holding the saw, they cannot be cut by the blade.*
- b. **Do not reach underneath the workpiece.** *The guard cannot protect you from the blade below the workpiece.*
- c. **Adjust the cutting depth to the thickness of the workpiece.** *Less than a full tooth of the saw blade should be visible below the workpiece.*
- d. **Never hold the workpiece in your hands or across your leg while cutting.** *Secure the workpiece to a stable platform. It is important to support the workpiece properly to minimise body exposure, blade binding, or loss of control.*
- e. **Hold the power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring.** *Contact with a “live” wire will also make exposed metal parts of the power tool “live” and could give the operator an electric shock.*
- f. **When rip cutting, always use a rip fence or straight edge guide.** *This improves the accuracy of cut and reduces the chance of blade binding.*
- g. **Always use blades with correct size and shape (diamond versus round) of arbor holes.** *Blades that do not match the mounting hardware of the saw will run off-centre, center and can cause loss of control.*
- h. **Never use damaged or incorrect blade washers or bolt.** *The blade washers and bolt were specially designed for your saw for optimum performance and safety of operation.*

## FURTHER SAFETY INSTRUCTIONS FOR ALL SAWS

### Kickback causes and related warnings

- Kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing

an uncontrolled saw to lift up and out of the workpiece toward the operator;

- When the blade is pinched or jammed tightly by the kerf 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 toward the operator.
  - Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.
- a. **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** *Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator if proper precautions are taken.*
  - b. **When 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 workpiece or pull the saw backward while the blade is in motion or kickback may occur.** *Investigate and take corrective actions to eliminate the cause of blade binding.*
  - c. **When restarting a saw in the workpiece, center the saw blade in the kerf so that the saw teeth are not engaged into the material.** *If a saw blade binds, it may walk up or kickback from the workpiece as the saw is restarted.*
  - d. **Support large panels to minimise 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 cut line and near the edge of the panel.*
  - e. **Do not use dull or damaged blades.** *Unsharpened or improperly set blades produce a narrow kerf and can cause excessive friction, blade binding and kickback.*
  - f. **Blade depth and bevel adjustment locking levers must be tight and secure before making the cut.** *If blade adjustment shifts while cutting, it may cause binding and kickback.*
  - g. **Use extra caution when sawing into**

**existing walls or other blind areas.** *The protruding blade may cut objects that can cause kickback.*

### Lower guard function

- a. **Check that the lower guard fully closes before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.**

*The lower guard may be bent if the saw is dropped or otherwise damaged. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part. Perform this check in all angles and depth of cut positions before continuing to use.*

- b. **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** *Lower guard may operate sluggishly due to damaged parts or a build-up of debris.*

- c. **The lower guard may be retracted manually only for special cuts such as “plunge cuts” and “compound cuts”. Raise the lower guard using the retracting handle and release it as soon as the blade enters the material.** *The lower guard should operate automatically for all other saw cuts.*

- d. **Always observe that the lower guard is covering the blade before placing the saw down on 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 switch is released.*

of the blade, but not in line with the saw blade. Kickback could cause the saw to jump backwards.

- Air vents often cover moving parts and should be avoided. Loose clothes, jewelry or long hair can be caught in moving parts.
- Avoid cutting nails. Inspect for and remove all nails from lumber before cutting.

### **WARNING!**

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints, crystalline silica from bricks and 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, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.

## ADDITIONAL SPECIFIC SAFETY INSTRUCTIONS FOR CIRCULAR SAW

### **WARNING!**

Do not use abrasive wheels or blades. Do not use water feed attachments.

- 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.
- Keep your body positioned to either side

## DUST EXTRACTION

A dust extraction port is supplied with your tool. Always use a vacuum extractor designed in compliance with the applicable directives regarding dust emission when sawing wood. Vacuum hoses of most common vacuum cleaners will fit directly into the dust extraction spout.

### **WARNING!**

When not in use, place circular saw on a stable surface, shoe side down, where it will not cause a tripping or falling hazard. Some tools with large battery packs will stand upright on the battery pack but may be easily knocked over.

## VIBRATION + NOISE REDUCTION

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment. Take the following points into account to minimize the vibration and noise exposure risks.

- Only use the product as intended by its design and these instructions.
- Ensure that the product is in good condition and well maintained.
- Use correct attachments for the product and ensure they are in good condition.
- Keep tight grip on the handles/grip surface.
- Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
- Plan your work schedule to spread any high vibration tool use across a longer period of time.

## EMERGENCY

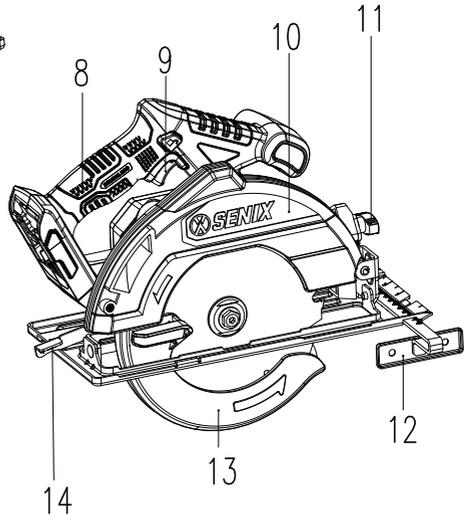
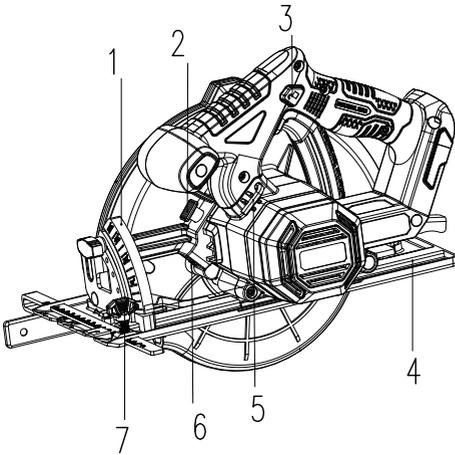
Familiarize yourself with the use of this product by means of this instruction manual. Memorize the safety directions and follow them to the letter. This will help to prevent risks and hazards.

- Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
- Switch off the product and remove the battery pack if there are malfunctions. Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.

## INTENDED USE

This circular saw is intended for sawing straight cuts in wood, wood-type materials and plastics. Do not use it for other purpose.

# KNOW YOUR UNIT



## APPLICATIONS

Model: PSCX2-M3-EU

As a circular saw:  
Saw wood, wood type materials and plastics.

1	Bevel Adjustment Bracket
2	Spindle Lock Button
3	Safety Switch
4	Baseplate
5	Hex Wrench
6	LED Light
7	Rip Fence Adjustment Knob

8	Handle
9	Trigger
10	Upper Blade Guard
11	Bevel Adjustment Knob
12	Rip Fence
13	Lower Blade Guard
14	Depth Adjustment Lever

# SPECIFICATIONS\*

Model	PSCX2-M3-EU
Motor Type	Brushless
Input Voltage	18 V $\approx$ (20 V $\approx$ Max*)
No Load Speed	4,200 RPM
Maximum Cut Depth	90° : 63.5 mm 45° : 44.4 mm
Bevel Capacity	0° - 55°
Maximum Blade Diameter	185 mm
LED Light	Yes
Arbor Size	20 mm
Weight (Tool Only)	2.2 kg

\*20V Max battery, maximum initial battery voltage (measured without a workload) is 20V. The nominal voltage is 18V.

## ASSEMBLY

1. Unpack all parts and lay them on a flat, stable surface:
2. Remove all packing materials and shipping devices, if applicable.
3. The scope of delivery varies depending on the country and purchased variant.
  - Circular saw x1
  - Saw blade x1
  - Rip Fence x1
  - Dust extraction adapter x1
  - Screw x1
  - Hex wrench x1
  - Instruction manual x1
4. If you find that parts are missing or show damage do not use the product and contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
5. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

## WARNING!



Wear protective gloves for this assembly work and always lay the product on a flat and stable surface while assembling. Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product! Do not insert the battery pack before the power tool is completely assembled or adjusted!

## SAW BLADE

1. Raise the depth adjustment lever to lower the baseplate and expose the maximum blade mounting area.
2. Remove the hex wrench from the machine.
3. Press and hold the spindle lock button to lock the spindle. Use the wrench to detach the bolt and the outer blade flange.
4. Install the inner blade flange, saw blade, outer blade flange and bolt in turn.
5. Make sure the saw blade is secured firmly and rotates freely.

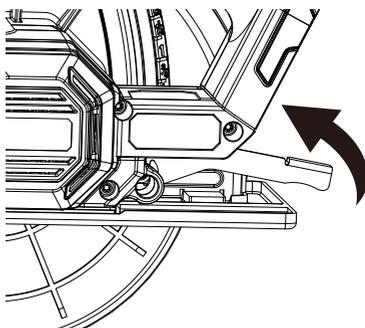


Fig. 1

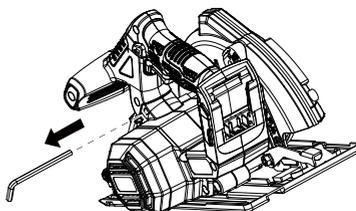


Fig. 2

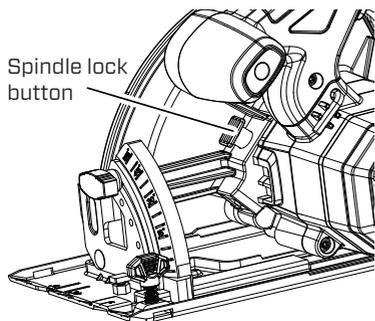


Fig. 3

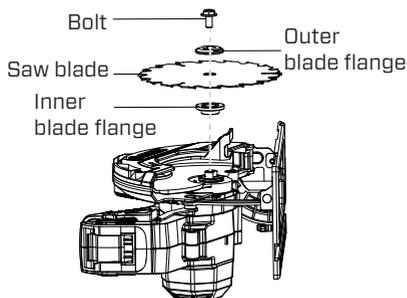


Fig. 4

## DUST EXTRACTION ADAPTER

To install the dust extraction adapter, insert the rib on the attachment into the groove of the dust outlet and align the hole with the hole on the upper blade guard. Fasten the attachment to the upper blade guard using the included screw.

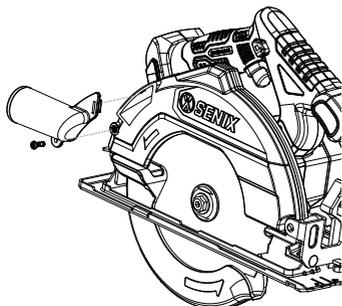


Fig. 5

## BATTERY PACK

To install:  
Align and slide the battery pack into the docking port until it is locked in place.

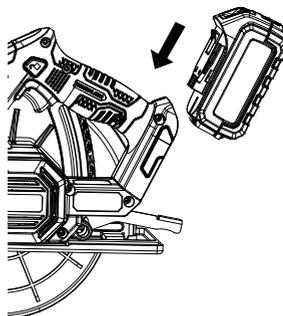


Fig. 6

To remove:  
Press the unlock button and slide the battery pack out.

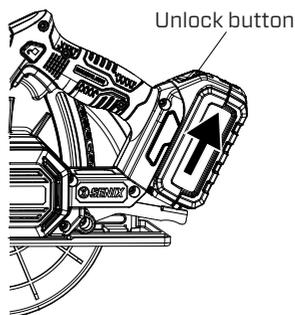


Fig. 7



### NOTE:

If necessary, refer to the manuals for the charger and the battery pack for more details about how to charge the battery pack and other information.

## OPERATION

### **! WARNING!**

Always wear eye, hearing, hand protection to reduce the risk of injury when operating this tool. Keep all parts of your body away from the rotating blade.

### **! WARNING!**

Always remove the battery pack before making any adjustments to this circular saw.

## RIP FENCE

1. Insert the rip fence into the guide slot.
2. Loosen the adjustment knob by rotating it counterclockwise. Adjust the rip fence to the necessary width.
3. Tighten the adjustment knob after adjustment.

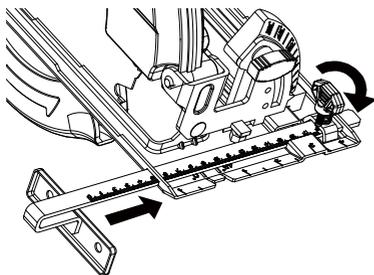


Fig. 8

## BEVEL ADJUSTMENT

1. Rotate the bevel adjustment knob counterclockwise to loosen it.
2. Pivot the baseplate to required angle between 0° and 55°.

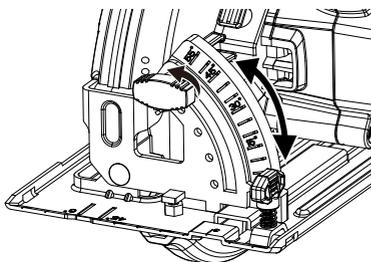


Fig. 9

3. Rotate the adjustment knob clockwise to fully tighten it.

## CUTTING DEPTH

1. Push the depth adjustment lever up to loosen it.

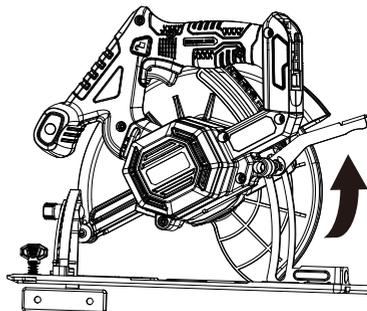


Fig. 10

2. Raise or lower the baseplate until the required cutting depth is reached.
3. Push the depth adjustment lever down to fully tighten it.

## SWITCHING ON/OFF

Press and hold the safety switch to the left or right and pull the trigger to start the tool. Release the trigger to stop the tool.

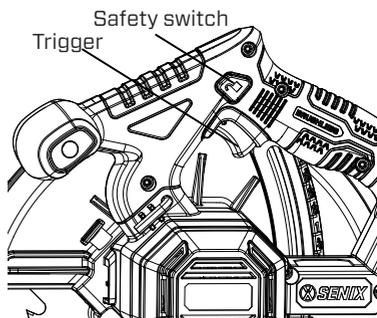


Fig. 11

### **! WARNING!**

Do not operate the machine at low speeds for extended periods of time.

# WORKPIECE AND WORK AREA SET UP

1. Workpiece selection:
  - a. Workpiece must be free of foreign objects and loose materials.
  - b. Do not use this tool to cut logs, tree limbs, or uneven lumber.
  - c. Wet lumber, green (unseasoned) lumber, and pressure treated lumber all have an increased potential for kickback and should only be cut with a blade designed for cutting that lumber. Wear a NIOSH-approved respirator and have appropriate ventilation whenever cutting pressure treated lumber.
2. Designate a work area that is clean and well-lit. The work area should not be accessible by children or pets to prevent distraction or injury.
3. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
4. Verify that there are no utility lines or hardware in or near the workpiece. This is especially critical for plunge cuts.

# GENERAL INSTRUCTIONS FOR USE

- Make sure that the guard is in place, in proper working order, and that all adjustment knobs are tightened before operation.
- Hold the saw firmly with both hands.
- Carry out a trial cut on a piece of waste wood before starting a new workpiece.
- Support the workpiece so that the cut is always to your side. Support the workpiece near cutting.
- Use clamps or other practical ways to secure the workpiece so that the workpiece will not move during cutting.
- Draw a guideline along the desired line of cut before beginning your cut.
- Allow the saw blade to reach full speed before feeding saw blade into the workpiece.
- Avoid placing your hand on the workpiece while making a cut.
- Make straight cuts only. Do not twist saw while cutting. If this occurs, the saw blade will “bind” in the workpiece causing kickback, potential injury, and/or damage to the workpiece and circular saw.

- Do not force the circular saw to cut faster than it is designed to cut. Feed the saw blade gradually into the workpiece.
- Release trigger if the saw blade is to be backed out of an uncompleted cut. Wait until the saw blade stops spinning before removing the saw. Do not press against the saw blade to stop it.

# OVERHEAT PROTECTION

The tool will automatically stop when either it or the battery overheats. If this occurs, allow the tool/battery to cool before resuming use.

# OVERDISCHARGE PROTECTION

The tool will automatically stop when battery capacity falls below a safe level. If this occurs, remove the battery and fully charge it before resuming use.

# MAINTENANCE

## **WARNING!**

Only perform cleaning and maintenance work according to these instructions! Any additional work must be performed by an Authorized Service Center.

## **WARNING!**

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure the battery pack is removed before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment or accessories. If abnormal noise or vibration occurs, have the tool inspected and serviced before further use.

There are no user-serviceable parts in your power tool. If any of following conditions are found, stop using it and send it to the Authorized Service Center for repair if necessary:

- Leaking, swollen, or cracked battery pack
- Loose hardware
- Misalignment or binding of accessories

- Cracked or broken parts
- Any other condition that may affect its safe operation

## CLEANING

1. Clean dust and debris from air vents.
2. Keep handle clean, dry and free of oil or grease.
3. Remove dust and chips by blowing out with compressed air or with a brush.
4. Remove stubborn dirt from housing with high pressure air (max. 3 bar).



### NOTE:

Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

## TRANSPORTATION

1. Only carry by its handle.
2. Remove or cover the blade during transportation.
3. Protect from any heavy impact or strong vibrations which may occur during transportation in vehicles.
4. Secure to prevent it from slipping or falling over.

## STORAGE

1. Clean thoroughly as described above.
2. Store in a dark, dry, frost-free and well-ventilated area that is inaccessible to children. The ideal storage temperature is between 50°F and 86°F.
3. Use original package for storage or cover with a suitable cloth to protect it against dust.



### NOTE:

To prolong battery life, store the battery pack separately from the tool in a 30%-50% charged condition. It's recommended to have your battery pack charged at least every 6 months.

## DISPOSAL

Product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice. Users should clean up the chips generated during operation to protect environment.



Battery should not be discarded with household waste. Dispose of battery according to local regulations.

# TROUBLESHOOTING

Suspected malfunctions are often due to causes that can be addressed by the user. Therefore, troubleshoot the product using this section. In most cases the problem can be solved quickly.

<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>Solution</b>
Product does not start	Trigger is defective	Contact us at <a href="mailto:senix.support@yatusa.com">senix.support@yatusa.com</a>
	Battery pack not properly attached	Attach properly
	Battery pack discharged	Charge the battery pack
Wood burns at ends when cut	Dirty blade	Clean blade or replace with a new one if necessary
Unsatisfactory result	Blade is dull or damaged	Keep blades sharp. Replace with a new one if necessary
	Battery pack reaches its life cycle	Replace with a new one
Excessive noise	Internal damage or wear (bearings, for example)	Contact us at <a href="mailto:senix.support@yatusa.com">senix.support@yatusa.com</a>