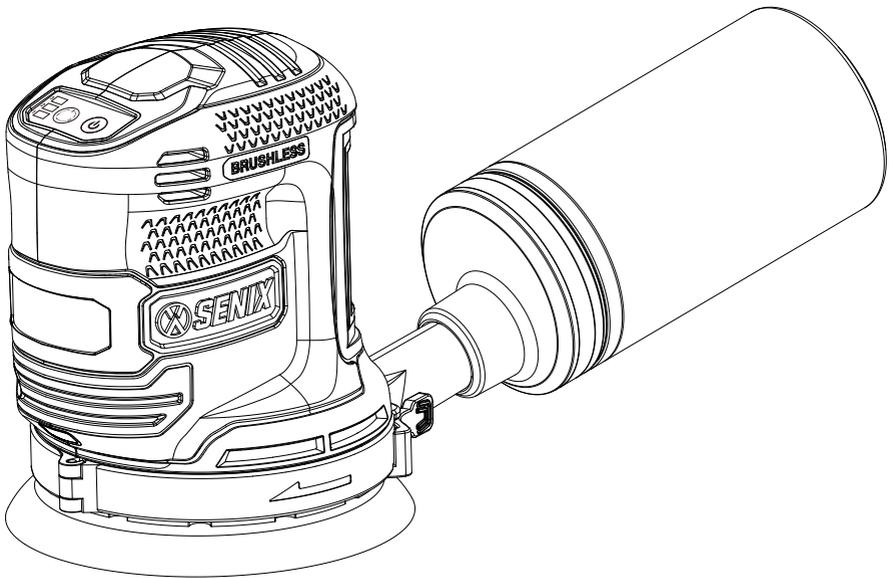




**X2** **18V** **LITHIUM-ION** **BRUSHLESS**™

# CORDLESS RANDOM ORBITAL SANDER



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

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

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# 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.



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.



Use and store the battery within an temperature below 50°C (122°F).



Do not disassemble, crush or expose to heat above 100°C (212°F); Never expose the battery to microwaves or high pressures.



Keep bystanders a safe distance away from the work area.



Indoor use only. Only use battery charger indoors.



RCM Mark

# SAFETY 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 the 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.*

NOTE The term "residual current device (RCD)" can be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".

#### 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 energizing power tools that have the switch on invites accidents.*

- d. **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.*

- 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 jewelry. Keep your hair and clothing away from moving parts.** *Loose clothes, jewelry 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 behavior 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 212°F (100°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.*
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.*



## WARNING!

Only use following batteries: B20X2/B25X2/ B40X2/B50X2/B60X2/B80X2 and chargers: CHX2/CHQX2/CHQX2-M-EU/CHDX2-M-EU.

## **EMERGENCY**

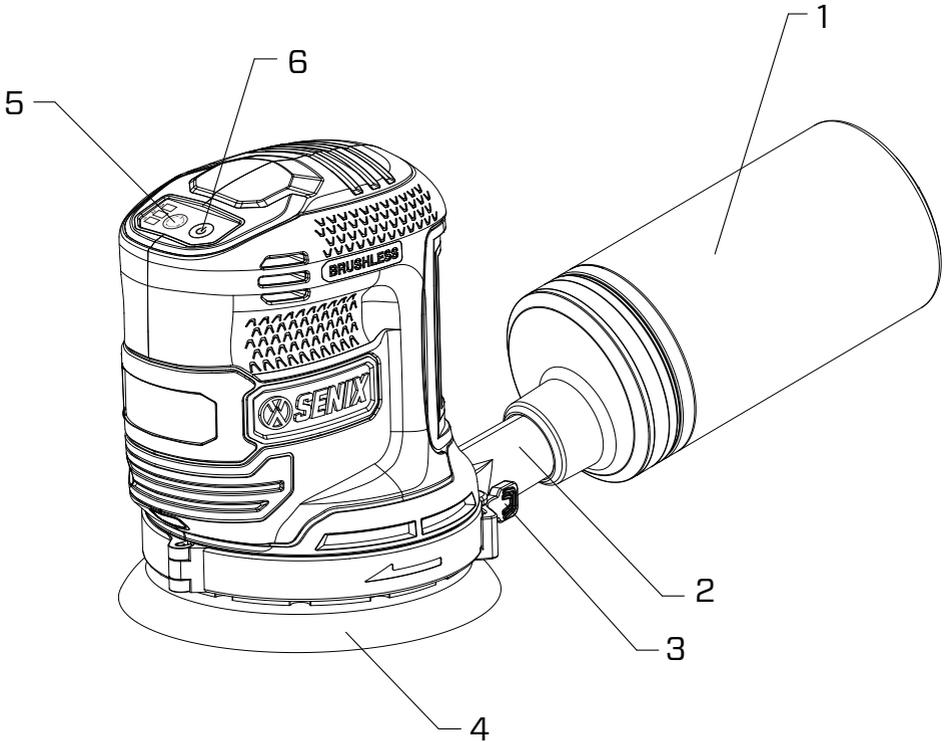
Familiarize yourself with the use of this product by means of this instruction manual. Memorize the safety directions and follow them to the letter. This will help to prevent risks and hazards.

1. Always be alert when using this product, so that you can recognise and handle risks early. Fast intervention can prevent serious injury and damage to property.
2. Switch off and disconnect from the power supply if there are malfunctions. Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.

## **INTENDED USE**

The tool is intended for sanding wood, plastic and metal surfaces.

# KNOW YOUR UNIT



## APPLICATIONS

Model: PSX2-M1-EU

As a random orbital sander:

Sanding large surfaces of wood, plastic and metal materials.

1	Dust Collection Bag
2	Vacuum Port
3	Vacuum Port Adjustment Switch
4	Sanding Pad
5	Speed Control Button
6	Power Button

## SPECIFICATIONS

Model	PSX2-M1-EU
Rated Voltage	18 V $\approx$ (20 V $\approx$ Max*)
Motor Type	Brushless
No-Load Speed	7,000/9,500/11,000 OPM
LED Light	Yes
Pad Size	125 mm
Orbit Diameter	3.2 mm
Sandpaper Type	Hook and Loop
Speed Settings	3
Weight (Tool Only)	1.1 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.  
Model of PSX2-M1-EU
  - Random orbital sander x1
  - 60-grit sandpaper sheet x1
  - 120-grit sandpaper sheet x1
  - 240-grit sandpaper sheet x1
  - Dust collection bag x1
  - Vacuum hose adapter x1
  - Instruction manual x1
4. If parts are missing or damaged. Do not use the product. Contact your local dealer.
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!

## INSTALLING THE HOOK AND LOOP SANDPAPER



## WARNING!

Always be sure that the tool is switched off and the battery pack is removed before working on the tool.

To install hook and loop sandpaper, align the holes of the sanding pad with the sandpaper. Press the sandpaper firmly onto the sanding pad.

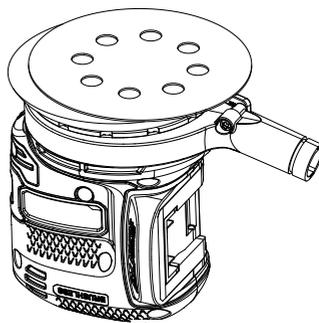


Fig. 1

## INSTALLING /EMPTYING DUST COLLECTION BAG

Insert the dust collection bag directly into the vacuum port of the machine.

angle. There are 12 positions to select from to best meet your individual needs.

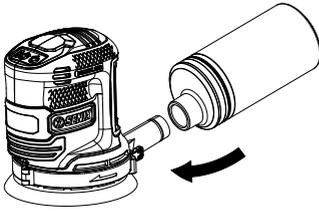


Fig. 2



## WARNING!

When installing the dust collection bag, ensure that it is attached to the vacuum port in the correct orientation. The taller portion of the bag should be facing upward to help prevent it from disconnecting during use.

When the dust collection bag is about half full, switch off the tool, and remove it from the work. Remove the dust collection bag, pour out the dust, and reinsert the bag back onto the vacuum port.

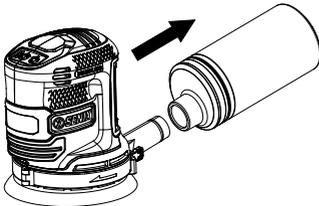


Fig. 3

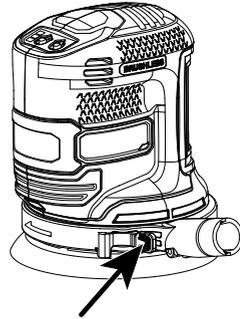


Fig. 4



## WARNING!

Do not use the vacuum port unless it is securely seated in one of the 12 positions.

### To remove the vacuum port

Remove the O-ring from the end of the vacuum port. Then remove the screw and the vacuum port while slowly pulling the opening apart from both sides.

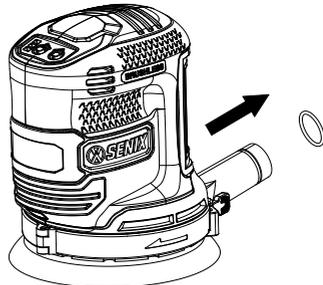


Fig. 5

## ADJUSTING, REMOVING AND REINSTALLING THE VACUUM PORT



## WARNING!

Do not use the tool without the vacuum port properly installed.

Press the vacuum port adjustment switch to adjust the direction of the vacuum port, and release the button once satisfied with the

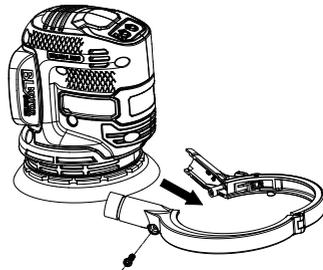


Fig. 6

### To reinstall

Install the vacuum port while slowly pulling the opening apart from both sides. Then fasten the screw and reinstall the O-ring into the groove.

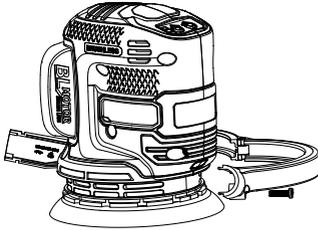


Fig. 7

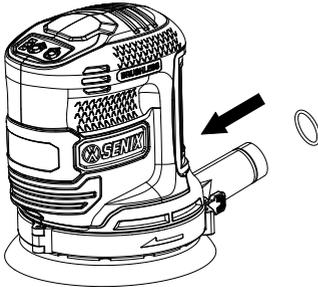


Fig. 8

### **i** NOTE:

Regularly clean dust from the vacuum port to prevent it from limiting the rotation function of the port.

## INSTALLING/REMOVING THE BATTERY PACK

### To install:

Align and slide the battery pack to the docking port of the tool until it is locked in place.

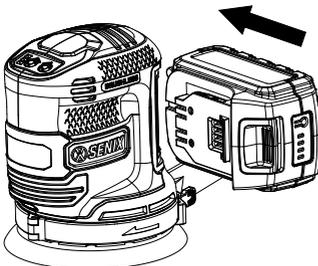


Fig. 9

### To remove:

Press the battery-release button on the battery pack and slide the battery pack out.

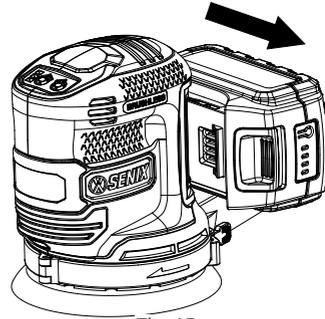


Fig. 10

### **i** NOTE:

Refer to the manuals for the charger and battery pack for more details.

## OPERATION

### **!** WARNING!

Always wear eye, hearing, hand protection to reduce the risk of injury when operating the tool.

### **!** WARNING!

Never switch on the tool when it is in contact with the workpiece as it may cause an injury to operator.

## SWITCHING ON/OFF

The correct working speed will allow for an easier and more comfortable operation. Adjust to a desired speed in advance by pressing the speed control button.

1. When first starting the tool, press the speed control button to adjust the tool to your desired speed. This will cause the corresponding speed indicator LED to light up.
2. Press the power button to start the tool.
3. Speed settings can be adjusted in descending order with each press of the speed control button.
4. Press the power button to stop the tool.
5. After the machine stops, the corresponding speed indicator LED continue to light for 10 seconds, during which time you can press the power button to start the tool again.

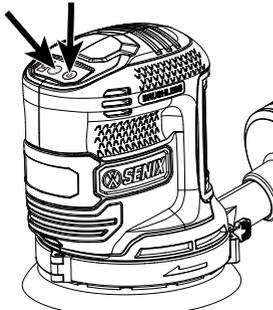


Fig. 11

Refer to the table below for specific speed settings and their corresponding uses.

Speed Mode	Oscillations Per Minute	Usage
High	11,000	Regular Sanding
Medium	9,500	Finish Sanding
Low	7,000	Polishing

### **NOTE:**

The table shows standard applications. They may differ under certain conditions.

## SANDING OPERATION

### **WARNING!**

Never run the tool without the self-adhesive sandpaper. You may seriously damage the sanding pad. Never force the tool. Excessive pressure may decrease the sanding efficiency, damage the sanding pad or shorten tool life. Using the tool with the sanding pad edge contacting the workpiece may damage the pad.

Hold the tool firmly. Turn the tool on and wait until it reaches full speed. Then gently place the tool on the workpiece surface. Keep the sanding pad flush with the workpiece and apply slight pressure on the tool.

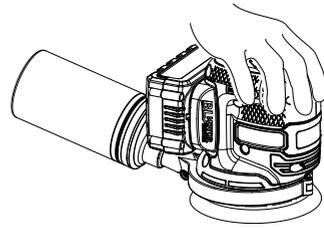


Fig. 12

### **WARNING!**

The sanding pad oscillates clockwise during operation under load, but may rotate counterclockwise during no-load operation.

## MAINTENANCE

### **WARNING!**

Only perform cleaning and maintenance according to these instructions! All further work must be performed by a qualified specialist!

### **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 condition are found, stop using it and send it to the authorized service center for repair.

- 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

- Clean dust and debris from air vents.
- Keep dust collection bag clean.
- After using the machine, please clean the sanding pad and dust collection bag.
- Remove dirt from housing with high pressure air (max. 3 bar).
- Never immerse your tool in liquid or allow a liquid to flow inside them.



### **WARNING!**

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

- Secure the product properly when transporting.

## STORAGE

- Clean thoroughly as described above.
- Store in a dark, dry, frost-free and well-ventilated area that is inaccessible to children. The ideal storage temperature is between 10°C (50°F) and 30°C (86°F).
- Use original package for storage or cover with a suitable cloth to protect it against dust.

## DISPOSAL

Unwanted 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 dust generated during operation to protect environment.



Batteries should not be discarded with household products. Used batteries must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

# 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	Battery pack discharged	Remove and charge battery pack
	Battery pack not properly attached	Remove from product and reattach
Product does not reach full power	Battery pack capacity too low	Charge the battery pack
	Battery pack needs to be replaced	Replace with a new battery pack
Dust collection bag is not working properly	Dust collection bag is damaged or loose	Remove and replace dust collection bag. If problem still persists, contact your Authorized Service Center.