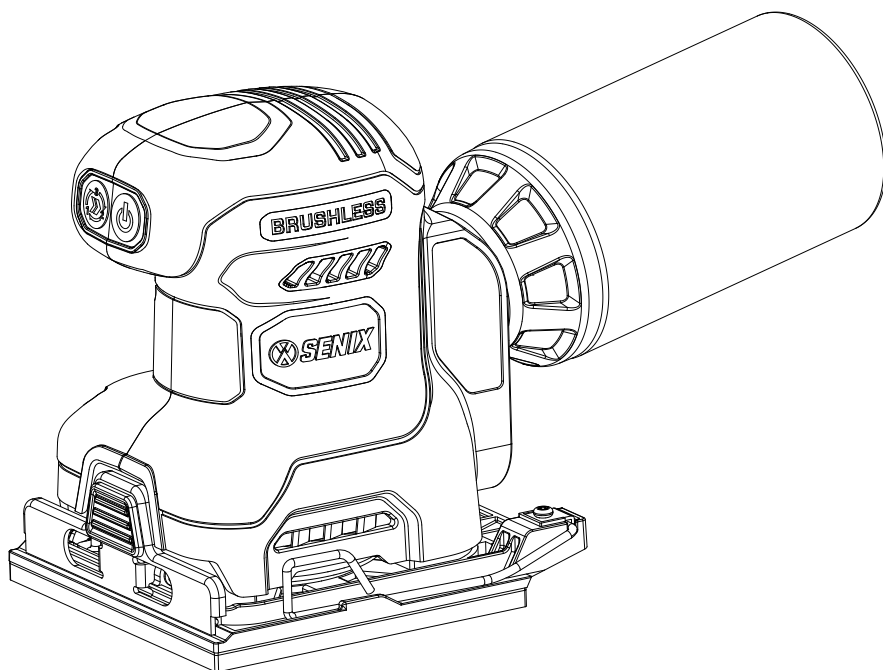




X2 **18V** **BRUSHLESS**
LITHIUM-ION

CORDLESS SHEET 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

The following table depicts and describes safety and international symbols and pictographs that may appear on this product. Read, understand, and follow all instructions on the machine and in the instruction manual for complete safety, assembly, operating, maintenance, and repair information before attempting to assemble and operate.



Caution / Warning.



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



Wear eye protection.



Wear hearing 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 122°F (50°C).



Do not disassemble, crush or expose to heat above 212°F (100°C); 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

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 the dust or fumes.*
- c. **Keep children and bystanders away while operating a power tool.** *Distractions can cause you 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 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 the risk of 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. Always keep proper footing and balance.** *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, tool bits, etc. in accordance with these instructions, considering 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 an authorized service provider 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.*

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.

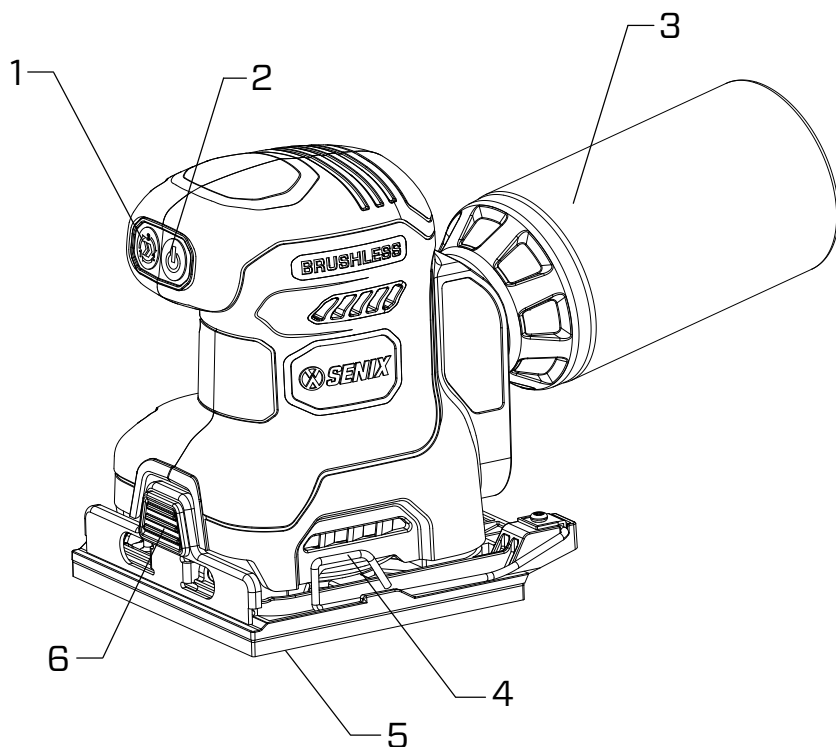
1. Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
2. Switch off and disconnect from the power supply if there are malfunctions. Have the product checked by a qualified professional and repaired,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

SAVE THESE INSTRUCTIONS

INTENDED USE

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

KNOW YOUR UNIT



APPLICATIONS

Model: PSX2-M2-EU

As a quarter-sheet sander:

Large area sanding on surfaces of wood, plastic and metal materials.

1	Speed Control Button
2	Power Button
3	Dust Collection Bag
4	Side Clip
5	Sanding Pad
6	Front Clamp

SPECIFICATIONS

Model	PSX2-M2-EU
Input Voltage	18 V $\approx$ (20 V $\approx$ Max*)
Motor Type	Brushless
Oscillations Per Minute	10 000/12 000/14 000
Pad Size	113 mm x 107 mm
Orbit Diameter	1.6 mm
Recommended Operating Temperature	-18°C - 52°C
Recommended Storage Temperature	-20°C - 70°C
Weight (Tool Only)	1.1 kg
Sound Pressure Level L_{PA}	79 dB(A)
Sound Power Level L_{WA}	87 dB(A)
Measurement Uncertainty K_{PA} and K_{WA}	3 dB(A)
Vibration Total Value a_h	6.5 m/s ²
Uncertainty K	1.5 m/s ²

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



NOTE:

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

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.
 - Quarter-sheet sander x1
 - 60-grit sandpaper sheet x1

- 120-grit sandpaper sheet x1
 - 240-grit sandpaper sheet x1
 - Dust collection bag x1
 - Sandpaper punch plate 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/REMOVING THE SANDPAPER



WARNING!

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



WARNING!

Inspect the sandpaper before installing. DO NOT use if broken or defective.

1. Push in and hold the front clamp.
2. Insert edge of new quarter-sheet sandpaper approximately 1/4" under the front clamp.
3. Release the front clamp.
4. Wrap the sandpaper around the sanding pad.
5. Release the side clip to open the rear clamp.
6. Insert the loose end of the sandpaper under rear clamp, pulling the sandpaper tight against pad.

7. Return the side clip to the locked position to close the rear clamp.

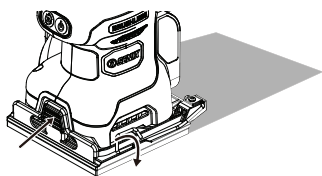


Fig. 1

SANDPAPER PUNCH PAD

A sandpaper punch pad has been supplied with the sander for aligning and punching holes in sandpaper. The punched holes must align with the holes in the sanding pad to ensure proper dust collection.

1. Install sandpaper on the sander.
2. Align sanding pad over the paper punch.
3. Push the sander down onto the punch pad until it punctures the sandpaper.

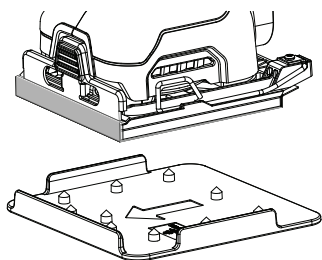


Fig. 2

INSTALLING /EMPTYING THE DUST COLLECTION BAG

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

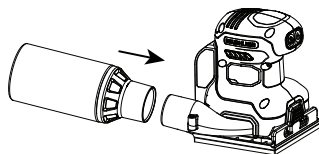


Fig. 3

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

INSTALLING/REMOVING THE BATTERY PACK



NOTE:

The recommended charging temperature range for the battery pack is 4°C - 40°C.

To install:

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

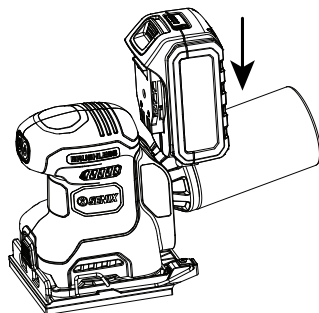


Fig. 4

To remove:

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

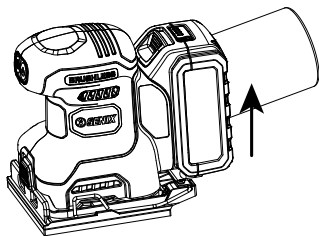


Fig. 5



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, it may cause an injury to operator.

SWITCHING ON/OFF

1. Press the power button to start the tool.
2. Press the speed control button to adjust the tool to your desired speed.
3. Press the power button again to stop the tool.

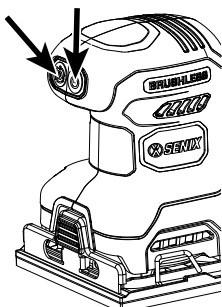


Fig. 6

Refer to the table below for specific speed settings.

Speed Mode	Oscillations Per Minute
High	14,000
Medium	12,000
Low	10,000

WORKPIECE AND WORK AREA SET UP

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
3. There must not be hazardous objects, such as utility lines or foreign objects, nearby that will present a hazard while working.
4. You must use personal safety equipment including, but not limited to, eye and hearing protection, as well as heavy-duty work gloves.

SANDING OPERATION

1. Wipe the work surface clean of all dirt and debris, especially that of previous coarser sanding which can cause scratches in the surface of a workpiece during finer grit sanding sessions.
2. To begin, firmly grip the tool and press the power button to start the tool.
3. Wait until the tool has reached full speed, then gently contact the surface.
4. Keep heavy pressure off of the tool when operating. Allow the tool to do the work.
5. Move the tool in a uniform pattern up and down or side to side while sanding to ensure even sanding.
6. Periodically stop the tool and check for: Sandpaper wear. Replace worn sandpaper as needed.
7. To prevent accidents after use:
 - Turn off the tool by pressing the power button.
 - Remove the tool's battery pack. Clean, then store the tool indoors out of children's reach.

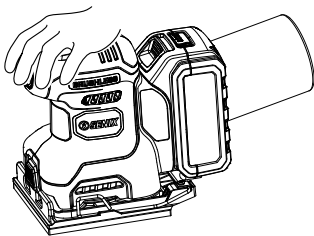


Fig. 7

MAINTENANCE



WARNING!

Only perform cleaning and maintenance according to these instructions! All further 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 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.
- 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 50°F(10°C) and 86°F(30°C).
- Use original package for storage or cover with a suitable cloth to protect it against dust.



NOTE:

It's best to store the battery pack at the temperature of 10°C - 26°C.

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.

Problem	Possible Cause	Solution
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
Heavy vibrations	Internal damage or wear	Contact your Authorized Service Center
Overheating	Forcing tool to work too fast	Allow tool to work at its own rate
	Blocked air vents	Clean the air vents