

**RYOBI®**

**RPS100**

ORIGINAL INSTRUCTIONS

# Palm Sander



## **Important!**

It is essential that you read the instructions in this manual before assembling, operating, and maintaining the product.

Subject to technical modification.

Safety, performance, and dependability have been given top priority in the design of your palm sander.

### INTENDED USE

The palm sander is intended for sanding and finishing metal, wood, plastic or similar materials using the abrasive pads or sheets provided. The palm sander is intended to be used by adult operators who have read the instruction manual and understand the risks and hazards. The palm sander should only be used in well ventilated areas. The palm sander is designed for dry sanding only.

The palm sander is intended only for consumer use.

Do not use the product in any way other than those stated in Intended Use. Use of the product for operations different from intended could result in a hazardous situation.

### GENERAL POWER TOOL SAFETY WARNINGS

#### 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.

**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.

#### 2. ELECTRICAL SAFETY

- a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor 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 power tools 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 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 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 jewellery. Keep your hair, clothing and gloves 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.

#### 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 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.
- 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. 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.

## 5. SERVICE

- a. **Have your power tool serviced by a qualified repair person using only identical manufacturer's replacement parts.** This will ensure that the safety of the power tool is maintained.

### SANDER SAFETY WARNINGS

- **Always wear safety goggles and a dust mask** when sanding, especially sanding over-head.
- **The machine is not suitable for wet sanding.**
- **Do not use sanding paper larger than needed.** Extra paper extending beyond the sanding pad can also cause serious lacerations.
- **The dust collection box shall be equipped with the tool.** It should be emptied frequently. To connect dust collection box, insert the adapter of dust box to the dust-collection opening on the rear end of the sander.
- It is recommended that the product be always supplied via a residual current device with a rated residual current of 30mA or less.

#### WARNING

Do not throw sanding dust into an open fire because materials in fine particle form may be explosive.

#### WARNING

A suitable breathing respirator must be worn while sanding lead paint, some woods and metal to avoid breathing the harmful/toxic dust or air.

#### WARNING

Dust from certain paints, coatings, and materials may cause irritation or allergic reactions. Dust from wood, such as oak, beech, MDF, and others are carcinogenic. Materials containing asbestos should only be worked on or processed by qualified specialist operators.

### RESIDUAL RISKS

Even when the product is used as prescribed, it is still impossible to completely eliminate certain residual risk

factors. The following hazards may arise and the operator should pay special attention to avoid the following:

- Injury caused by dust
  - Using the product will produce considerable amount of dust and fine particles. Use the dust collection device or connect a dust extraction vacuum when operating the product. Wear dust masks containing filters appropriate to the materials being worked on. Ensure adequate workplace ventilation. Do not eat, drink, or smoke in the work area.
- Injury caused by noise and vibration
  - Wear ear protection during the sanding operation. Do not operate the product for long periods of time. See "Risk reduction".

### RISK REDUCTION

It has been reported that vibrations from handheld tools may contribute to a condition called Raynaud's Syndrome in certain individuals. Symptoms may include tingling, numbness and blanching of the fingers, usually apparent upon exposure to cold. Hereditary factors, exposure to cold and dampness, diet, smoking and work practices are all thought to contribute to the development of these symptoms. There are measures that can be taken by the operator to possibly reduce the effects of vibration:

- Keep your body warm in cold weather. When operating the unit wear gloves to keep the hands and wrists warm. It is reported that cold weather is a major factor contributing to Raynaud's Syndrome.
- After each period of operation, exercise to increase blood circulation.
- Take frequent work breaks. Limit the amount of exposure per day.

If you experience any of the symptoms of this condition, immediately discontinue use and see your doctor about these symptoms.

#### WARNING

Injuries may be caused or aggravated by prolonged use of a tool. When using any tool for prolonged periods, ensure you take regular breaks.

### SANDPAPER SELECTION

Selecting the correct size, grit and type of sand paper is an extremely important step in achieving a high quality sanded finish. Aluminum oxide, silicon carbide, and other synthetic abrasives are best for power sanding. Natural abrasives, such as flint and garnet are too soft for economical use in power sanding.

In general, coarse grit will remove the most material and finer grit will produce the best finish in all sanding operations. The condition of the surface to be sanded will determine which grit will do the job. If the surface is rough, start with a coarse grit and sand until the surface is uniform. Medium grit may then be used to remove scratches left by the coarser grit and finer grit used for finishing of the surface. Always continue sanding with each grit until surface is uniform.

### WARNING

Do not use sander without sandpaper; doing so will damage the cushion.

#### Sheet/pad recommended use

80-grit sanding sheet	Coarse sanding
120-grit sanding sheet	Light sanding
150-grit sanding sheet	Light sanding

### MAINTENANCE

### WARNING

The product should never be connected to a power supply when assembling parts, making adjustments, cleaning, performing maintenance, or when the product is not in use. Disconnecting the product from the power supply will prevent accidental starting that could cause serious injury.

- When servicing, use only identical Ryobi replacement parts. Use of any other parts may create a hazard or cause product damage.
- Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, carbon dust, etc.
- Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.
- Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.
- If the power supply cord is damaged, it must be replaced only by the manufacturer or by an authorized service center to avoid risk. Contact authorized service center.
- For greater safety and reliability, all repairs should be performed by an Authorized Ryobi Service Centre.

### WARNING

Electrical tools used on fiberglass material, wallboard, spackling compounds, or plaster are subject to accelerated wear and possible premature failure because the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators, etc. We do not recommend using the product for extended work on these types of materials..

### WARNING

Do not use compressed air to blow dust from the product. This practice is dangerous and can cause dirt and grit to be blasted into someone's eyes, causing injury.

### LUBRICATION

All of the bearings in the product are lubricated with a sufficient amount of high grade lubricant for the life span of the product under normal operating conditions. Therefore, no further lubrication is required.

### CLEANING THE SCRUBBING PADS

To ensure longer life and optimum performance, periodically clean all sanding residue and foreign materials from the scrubbing pads. This can be done by rinsing the pad with warm water until all foreign material has been washed away. After cleaning, gently squeeze the pad to remove excess water and allow pad to dry. Always store pads and sanding sheets flat in a cool dry location.

### CLEANING THE SANDING SHEETS

The sanding sheets that come with the product are made to be re-used. Therefore, it is important that they be cleaned periodically to remove sanding residue and foreign material that can accumulate over time.

To clean sanding sheets, rub the sheets with a hard rubber block. You can also use the clean rubber sole of a shoe.

### WARNING

Always remove scrubbing or sanding pad from the product before cleaning. Failure to do so could cause serious personal injury.

### ENVIRONMENTAL PROTECTION



Recycle raw materials instead of disposing of as waste. The machine, accessories and packaging should be sorted for environment-friendly recycling.

### SYMBOL



Safety Alert



Volts



Hertz



Alternating Current



Watts



No-load speed



Revolutions or reciprocations per minute



Orbital Diameter



Regulatory Compliance Mark (RCM). Product meets applicable regulatory requirements.



Class II tool, double insulation



Wear ear protection



Wear eye protection



Please read the instructions carefully before starting the machine.



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

### CAUTION

(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

## SYMBOLS IN THIS MANUAL



Connect to the power supply.



Disconnect from the power supply.



Parts or accessories sold separately



Lock



Unlock



Note



Off



On



Without force



With force

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

### **DANGER**

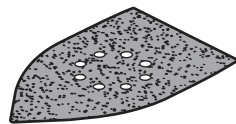
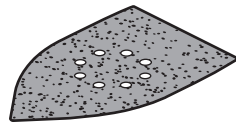
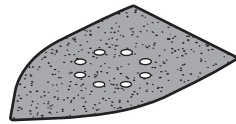
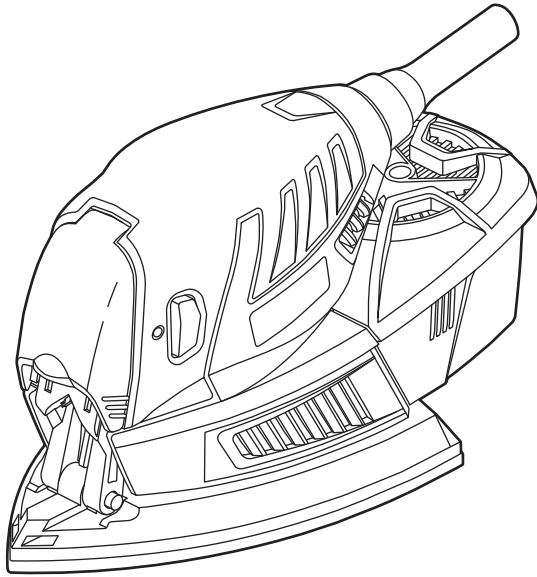
Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

### **WARNING**

Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

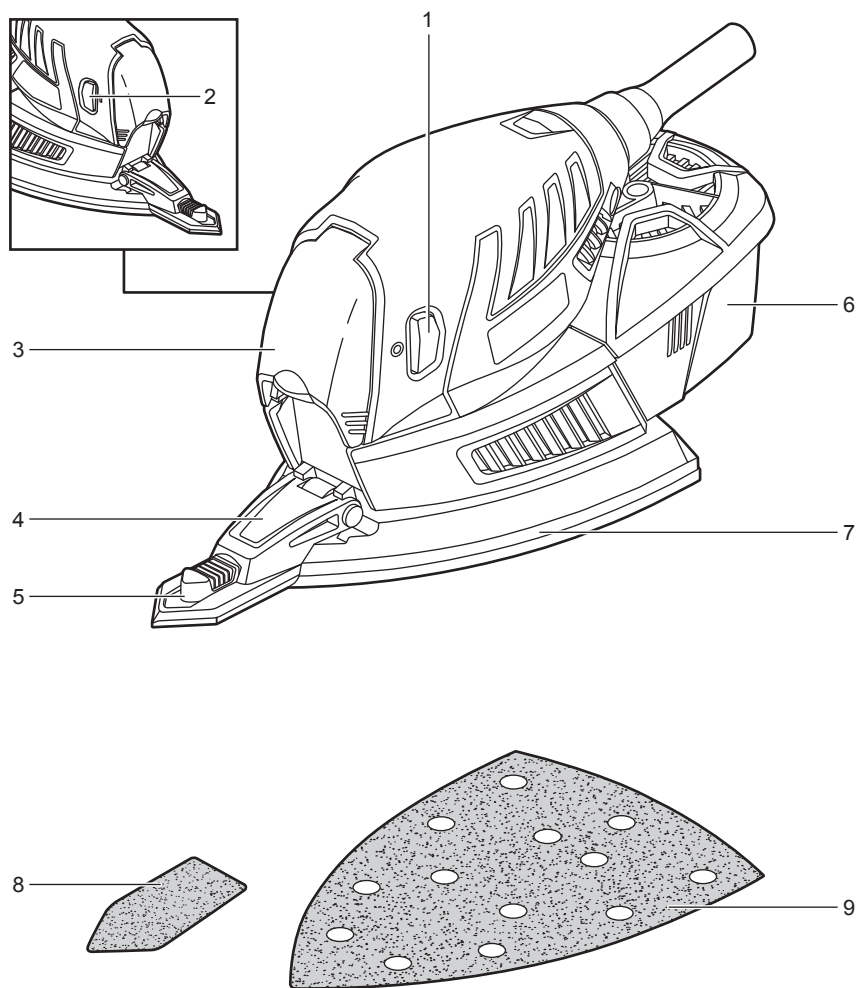
### **CAUTION**

Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

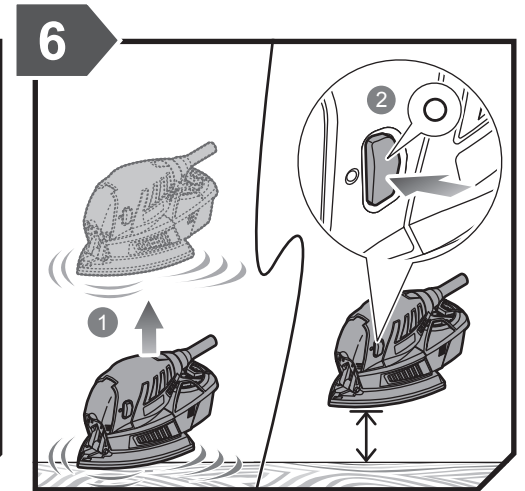
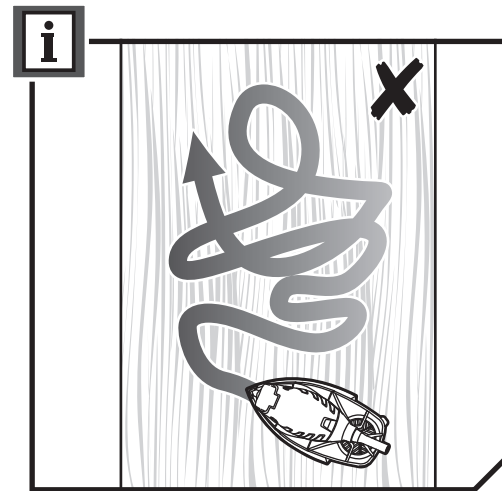
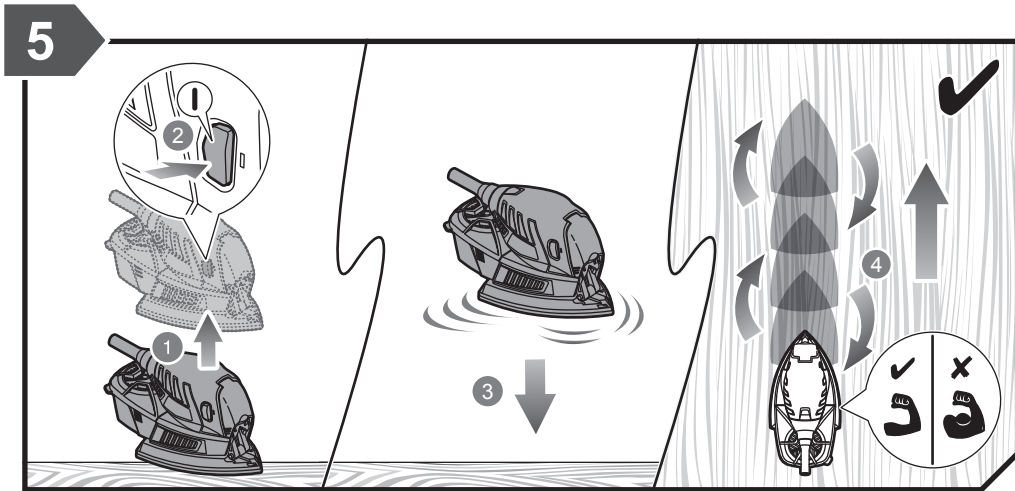
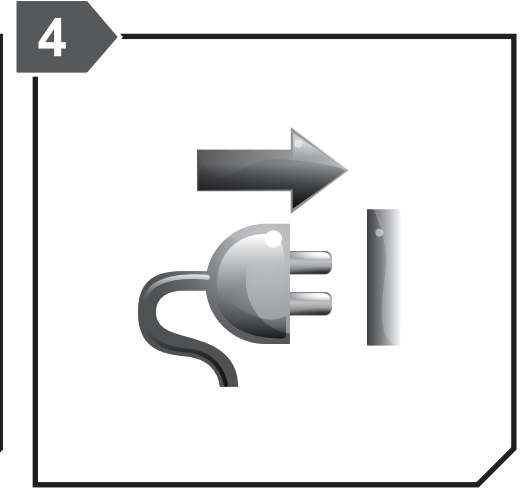
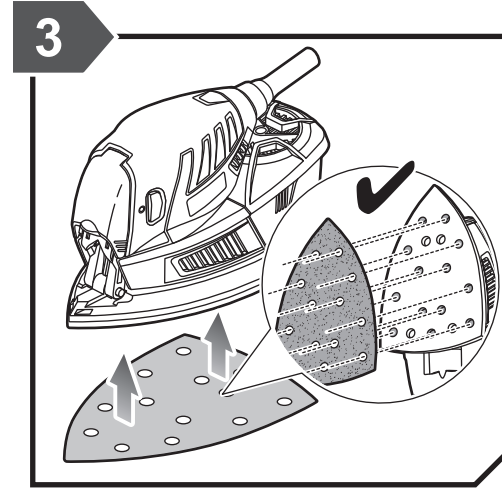
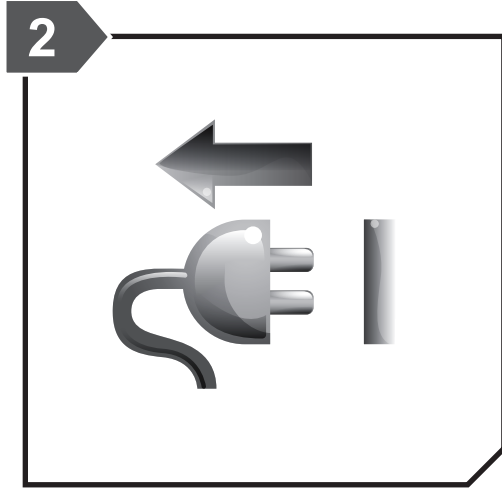
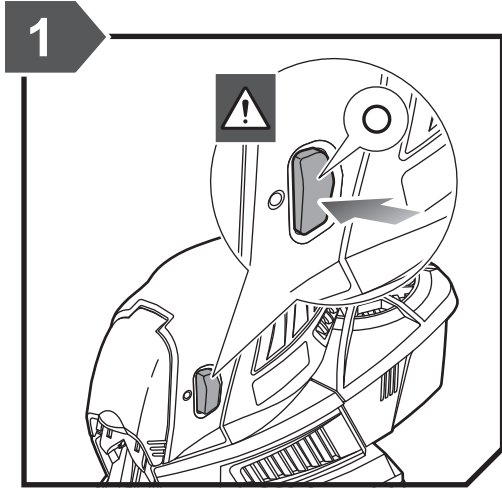


## KNOW YOUR PRODUCT

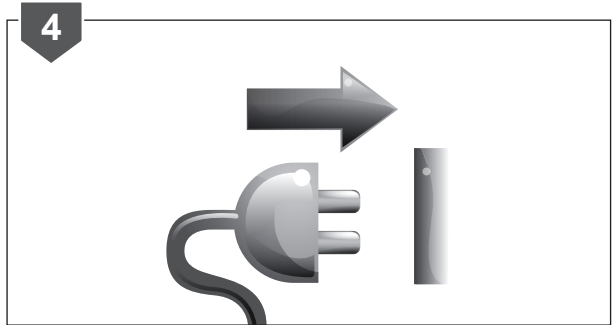
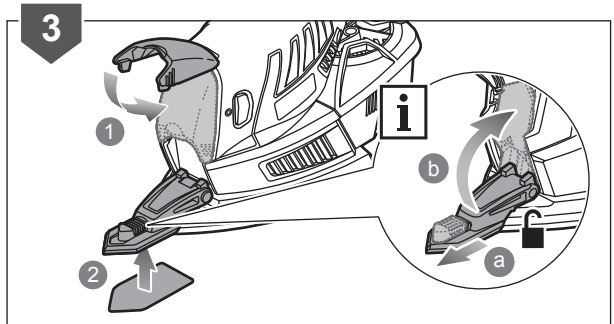
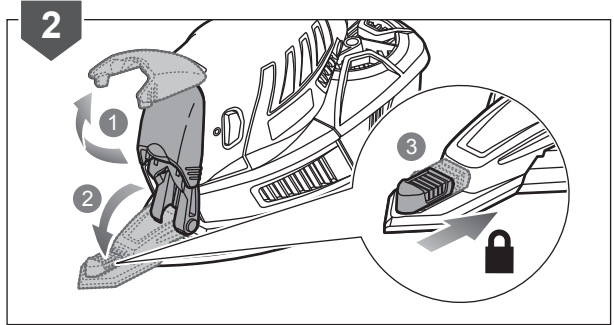
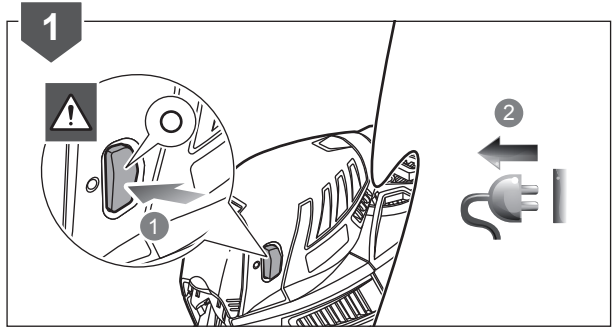
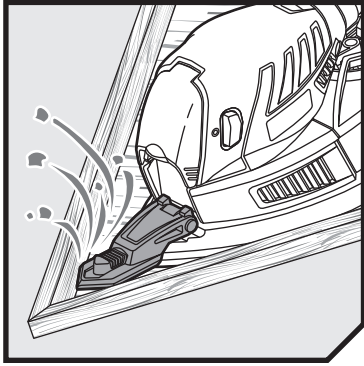
1. Switch off
2. Switch on
3. Cover
4. Finger pad
5. Lock
6. Dust collection box
7. Quick change hook-and-loop pad
8. Finger adhesive sandpaper
9. Delta adhesive sandpaper

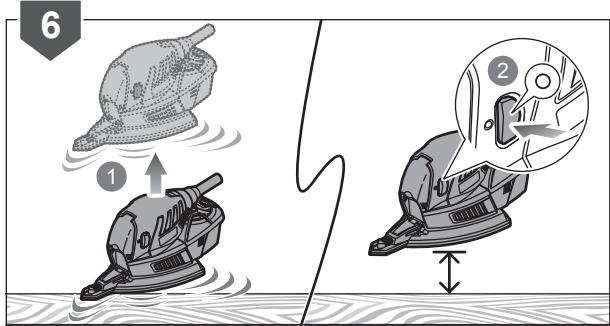
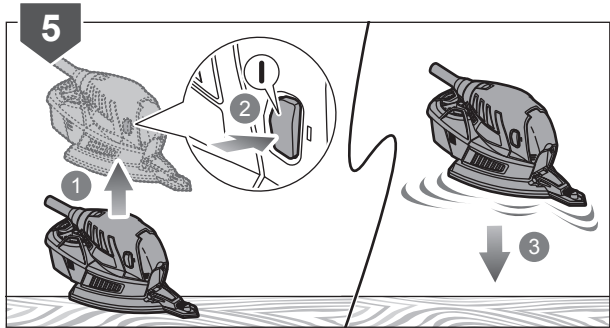


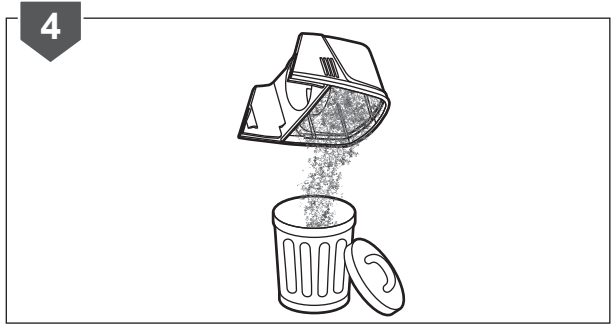
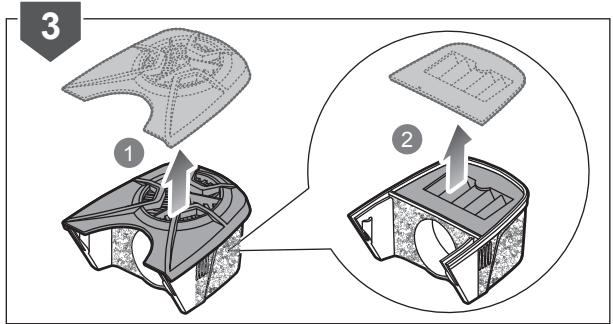
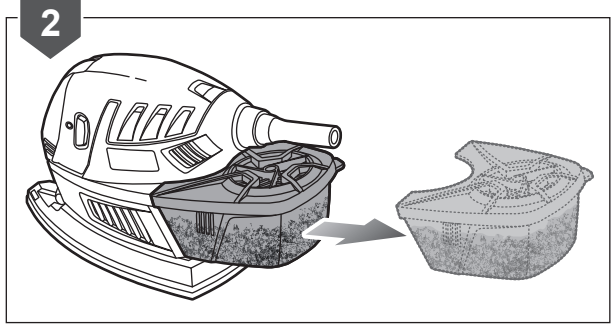
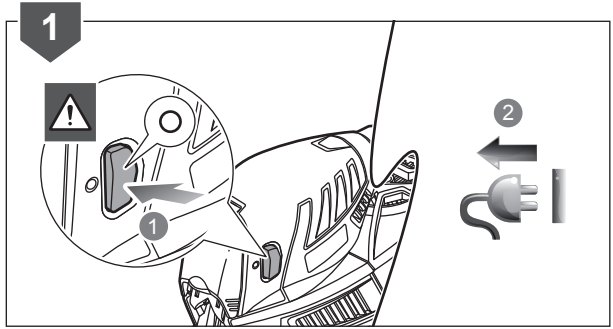












## PRODUCT SPECIFICATIONS

### Palm sander

<b>Model</b>	<b>RPS100</b>
Voltage	220 - 240 V $\sim$ 50 / 60Hz
Power	100 W
Orbital minute	12,000 min <sup>-1</sup>
Orbital diameter	1.6 mm
<b>Pad size</b>	
Delta pad	168 x 100 mm
Finger pad	26 x 47 mm
Weight (According to EPTA procedure 01/2003)	0.95 kg





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