

RYOBI®

ROS300

ORIGINAL INSTRUCTIONS

Random Orbital 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 random orbital sander.

INTENDED USE

The random orbital sander is intended to be used only by adults who have read and understood the instructions and warnings in this manual, and can be considered responsible for their actions.

The product is intended for sanding and finishing metal, wood, plastic, or similar materials using the abrasive pads provided. The product should only be used in well ventilated areas.

The product is designed for dry sanding only. Do not use for wet sanding.

The product is intended for consumer use only.

Do not use the product for any other purpose. Use of the product for operations different from intended could result in a hazardous situation.

⚠ WARNING

Dust from certain paints, coatings, and other materials may cause irritation or allergic reactions. Dust from wood, such as oak, beech, MDF, and similar materials can be carcinogenic. Only qualified specialists should be allowed to use the product on materials containing asbestos.

⚠ WARNING

Do not use compressed air to remove dust from the product. Dirt and grit blown away by compressed air can cause serious eye injury.

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.

WORK AREA SAFETY

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

ELECTRICAL SAFETY

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

PERSONAL SAFETY

- **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.
- **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.
- **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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **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.
- **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.

- **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.

POWER TOOL USE AND CARE

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

SERVICE

- **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.

RANDOM ORBITAL SANDER SAFETY WARNINGS

- **Clamp workpiece with a clamping device.** Unclamped workpieces can cause severe injury and damage. Do not hold the material you are sanding by hand.
- Do not use sanding paper larger than needed. Extra paper extending beyond the sanding pad can also cause serious lacerations.
- Always wear safety goggles and a dust mask when sanding, especially when sanding overhead.

- A suitable breathing respirator must be worn while sanding lead paint, some woods, and metal to avoid breathing the harmful/toxic dust or air.
- It is recommended that the product be always supplied via a residual current device with a rated residual current of 30mA or less.

⚠ WARNING

The product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the product.

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. Only operate on materials which are specified in the Intended use section. Do not operate on materials (e.g., asbestos) which present a health hazard.
- 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.

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.

⚠ WARNING

When servicing, use only original manufacturer's replacement parts, accessories and attachments. Use of any other parts may create a hazard or cause product damage.

⚠ WARNING

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

- 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.
- Electric 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. Consequently, we do not recommend using the product for extended work on these types of materials. However, if you do work with any of these materials, it is extremely important to clean the product using compressed air.

⚠ WARNING

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 supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- For greater safety and reliability, all repairs should be performed by an authorised service centre.

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.

⚠ WARNING

Always remove sanding sheet from sander 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 environmental-friendly recycling.

SYMBOLS



Safety Alert



Volts



Hertz



Alternating current



Watts



No-load speed



Revolutions or reciprocations per minute



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



Pad size



Orbital diameter



Double insulation



Please read the instructions carefully before starting the product.



Wear ear protection



Wear eye protection



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.

SYMBOLS IN THE MANUAL



Connect to the power supply.



Disconnect from the power supply.



Off



On



Note



Speed, minimum



Speed, maximum



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

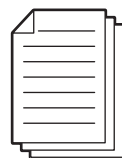
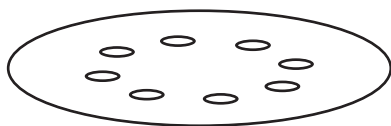
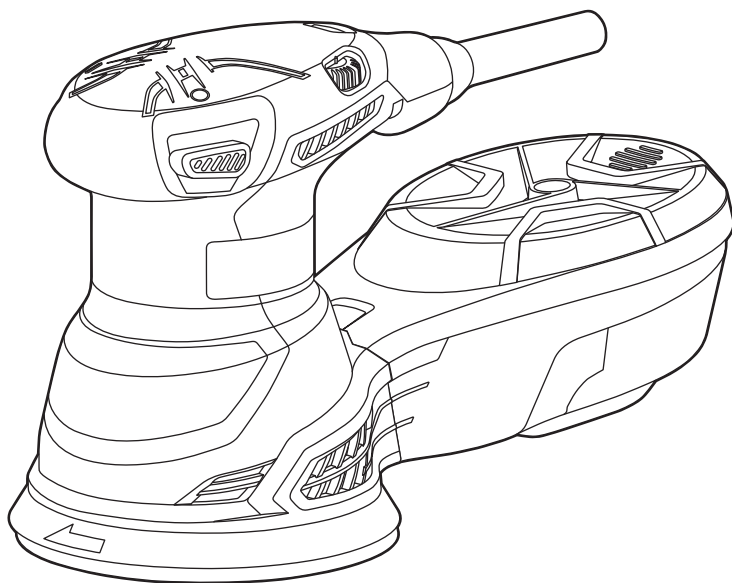
Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

CAUTION

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

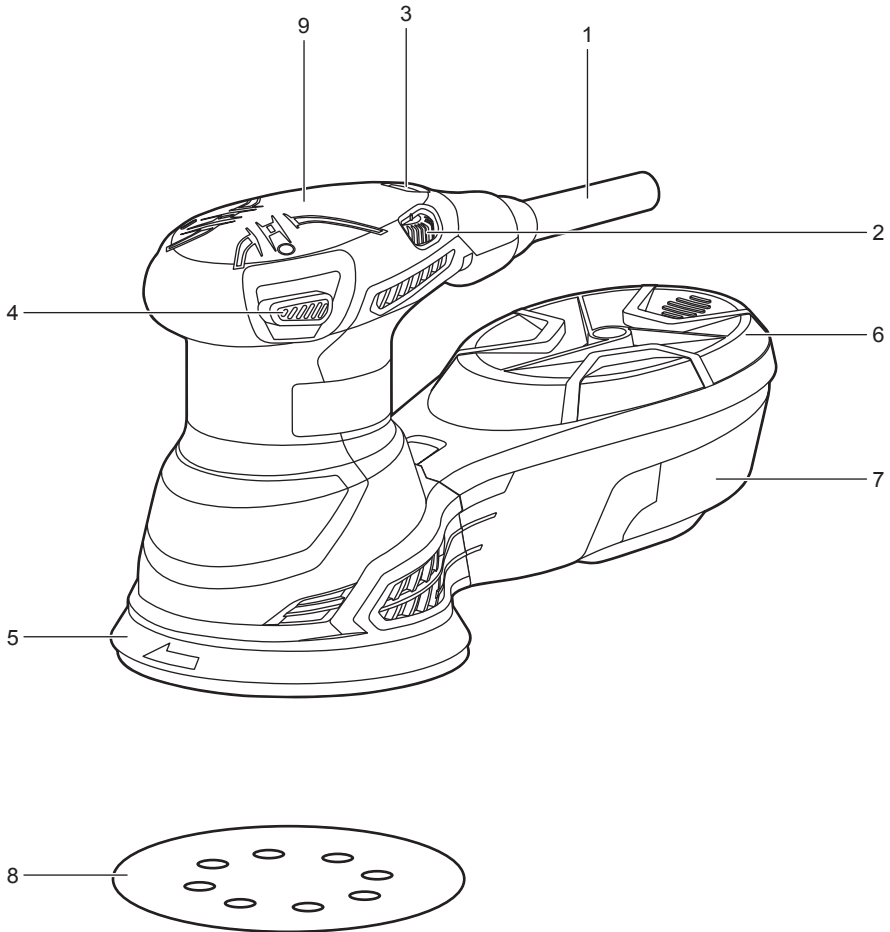
CAUTION

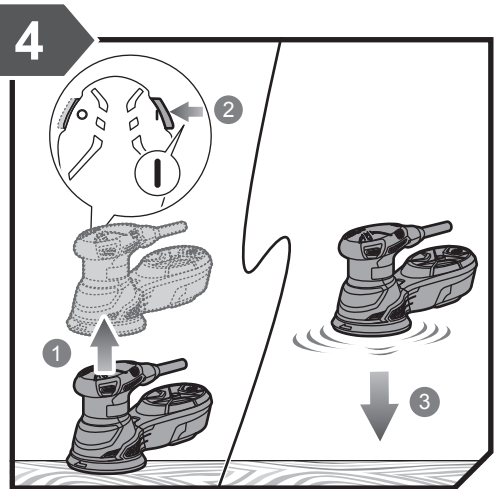
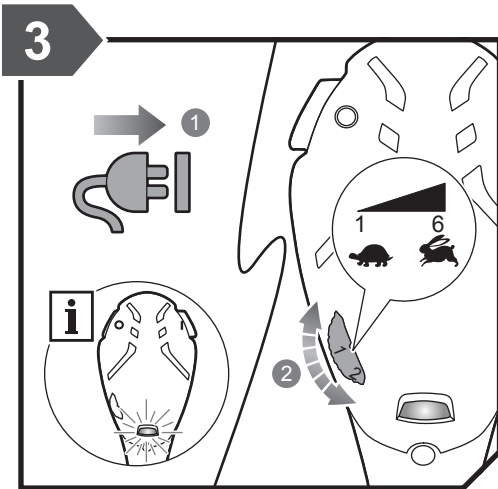
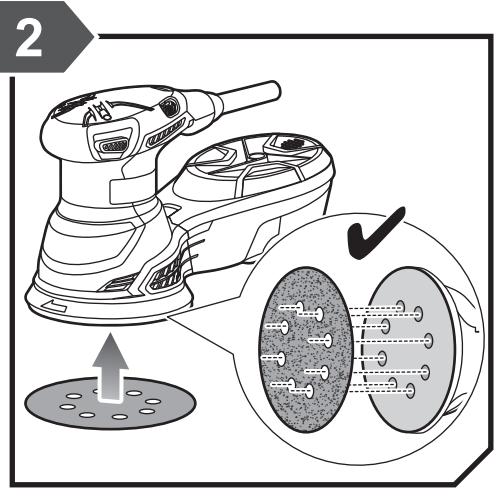
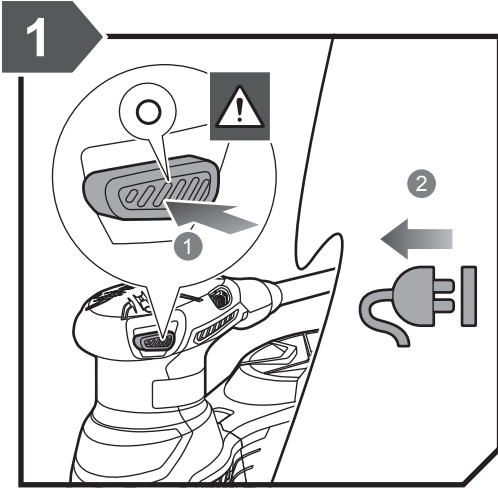
(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

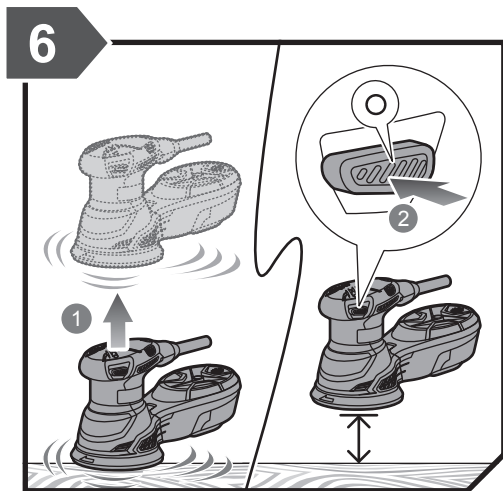
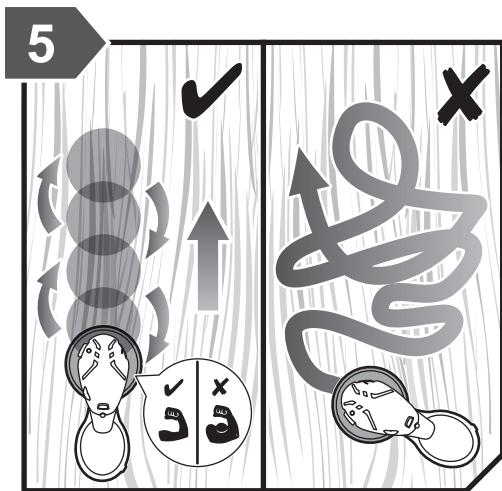


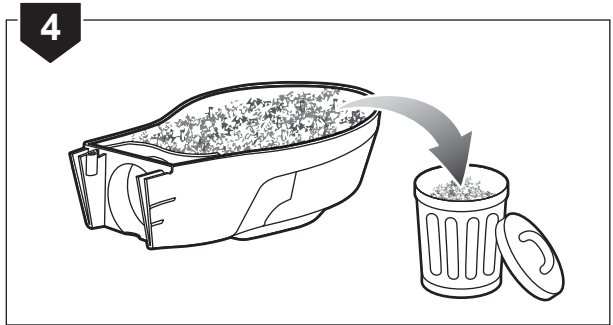
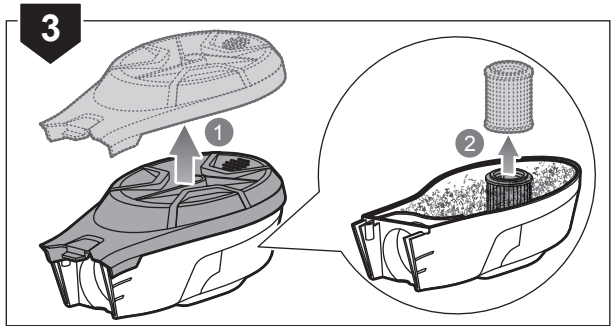
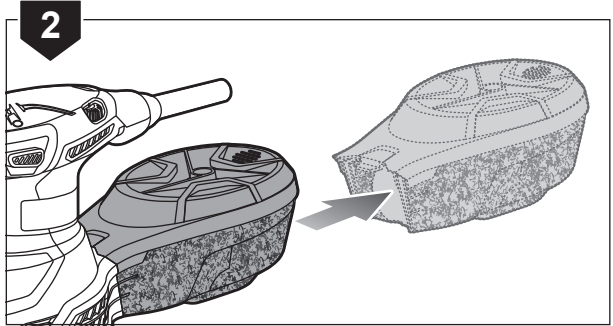
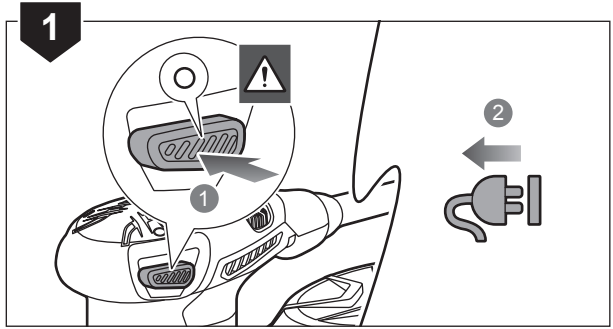
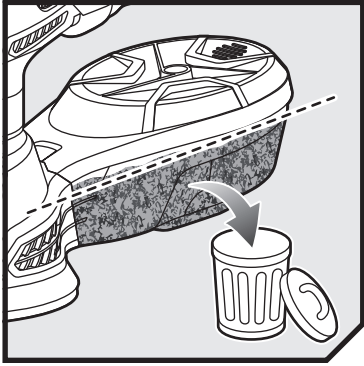
1. Power cord sleeve
2. Speed control dial
3. Live tool indicator
4. On/off switch
5. Sander cover

6. Dustbox cover
7. Dustbox container
8. Sanding paper
9. Insulated grasping surface









PRODUCT SPECIFICATIONS

Random Orbital Sander

Model	ROS300
Rating	300 W
Voltage	220 V - 240 V ~ 50Hz
No-load speed	7000 min ⁻¹ - 13000 min ⁻¹
Orbital stroke rate	14000 - 26000 opm
Orbital diameter	2.4 mm
Pad size	125 mm
Weight (According to EPTA-Procedure 01/2014)	1.7 kg
Measured sound values determined according to EN 62841:	
A-weighted sound pressure level	$L_{pA} = 91.5 \text{ dB(A)}$
Uncertainty K	3 dB(A)
A-weighted sound power level	$L_{wA} = 102.5 \text{ dB(A)}$
Uncertainty K	3 dB(A)
Wear ear protectors.	
The vibration total values (triaxial vector sum) determined according to EN 62841:	
Vibration emission value	$a_p = 10 \text{ m/s}^2$
Uncertainty K	1.5 m/s

VIBRATION LEVEL



WARNING

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 62841 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

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