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ROTOR

USER MANUAL

ANGLE GRINDER

R-PU2A



POLIZOR UNGHIULAR

Углошлифовальная машина

Ъглошлайф

Avuç taşlama makinesi



USER MANUAL

Thank you for purchasing our product.

Please read this manual carefully before use and follow the relevant regulations and safety measures to avoid accidents.

GENERAL SAFETY NOTICE FOR ELECTRIC TOOLS

Warning! Read all warnings and all instructions

Failure to follow the warnings and instructions below may result in electric shock, fire, or serious injury. Keep all warnings and instructions for future reference.

The term "power tool" refers to mains-powered (corded) and lithium battery-powered (cordless) power tools.

Safety warning for general power tools — safety at the workplace

1. Keep the work area clean and bright. A cluttered and dark environment can lead to accidents.
2. Do not operate power tools in explosive environments, such as those with flammable liquids, gases, or dust. Sparks generated by power tools can ignite dust or gases, creating a risk of explosion.
3. Operate power tools only after ensuring that children and bystanders are kept away. Lack of concentration can cause the operator to lose control of the tool.

General Power Tool Safety Warning — Electrical Safety

1. The power plug must match the socket of the battery pack. Do not plug the machine into a modified battery pack. Matching plugs reduce the risk of electric shock.
2. Avoid using power tools in wet or damp areas. Moisture increases the risk of electric shock.
3. Do not misuse the cord. Never use the cord to carry, pull, or unplug the power tool. Keep the cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increase the risk of electric shock.
4. 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.
5. When operating a power tool in a damp location, a residual current device (RCD) should be used. Using an RCD can reduce the risk of electric shock.

General Power Tool Safety Warnings — Personal Safety

1. Stay alert, focus on the task at hand when operating power tools, and do not operate when tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools can result in serious personal injury.
2. Use personal protective equipment. Always wear safety glasses. Use safety devices such as dust masks, non-slip safety shoes, safety helmets, and hearing protection where appropriate. Appropriate conditions can reduce personal injury.
3. Prevent accidental activation. When connecting to the power supply or battery compartment, ensure the power switch is off. Do not place fingers on the switch or hold the tool with your finger on the switch when plugging in or moving the tool. Placing fingers on a switch that is powered on or flipping a plug with the switch on may pose a danger.
4. Remove all adjusting keys or wrenches before connecting the electric tool to a power source. Leaving keys or wrenches on rotating parts of electric tools can cause personal injury.
5. Do not stretch your hand too far; always pay attention to your footing and body balance. Being able to control the tool well in unexpected situations is important.
6. Dress appropriately. Do not wear loose clothing or accessories. Keep clothing, gloves, and hair away from moving parts. Loose clothing, jewelry, or long hair may get caught in moving parts.
7. If devices are provided for connecting to the chip removal device and dust collection equipment, ensure they are connected properly and used correctly. Using these devices can reduce the hazards caused by dust.

General power tool safety warnings — Precautions and considerations for using power tools

1. Do not misuse power tools. Use the appropriate power tools for their intended purpose. Choosing appropriately designed power tools will make your work more effective and safe.
2. If the switch cannot turn the tool on or off, do not use the power tool. Tools that cannot be controlled by a switch are dangerous and must be repaired.
3. Before making any adjustments, changing attachments, or storing power tools, be sure to unplug or disconnect the tool from the power source. Such precautionary measures reduce the risk of accidental starting.
4. Store unused power tools out of reach of children and do not allow those unfamiliar with the tool or untrained to use it. Tools are dangerous in the hands of untrained users.

5. Maintain power tools. Check that moving parts are properly aligned and rotate freely. Check that parts are not broken or badly worn. Any damage or defect that could affect normal operation must be repaired before use. Damaged tools are more likely to cause injury.

6. Keep cutting tools sharp and clean. Well-maintained and sharp cutting edges are less likely to bind and are easier to control.

7. Use power tools, accessories, and tool heads according to the instructions and match them appropriately to the model and type of tool being used. Using power tools for operations that do not match their intended use may pose an increased risk.

General Electric Tool Safety Warning — Maintenance

1. Send your power tools to a professional repair technician. If not, and they are repaired using the same spare parts, this will ensure the safety of the repaired product.
2. If the power supply cord must be replaced, it must be replaced by the manufacturer or agent to avoid danger.

SAFETY WARNING FOR ANGLE GRINDERS

General safety warning for grinding and cutting operations

1. This power tool can function as a sander and a cutting tool. A cluttered and dark environment can lead to accidents.
2. This power tool is not recommended for polishing operations. Using this power tool for unapproved tasks poses a risk of serious injury to the user.
3. Non-manufacturer-specified or recommended accessories must not be used. Be sure you are using the correct accessory for the machine. If in doubt, stop and check.
4. The allowable rotational speed of the selected attachment must not be less than the maximum speed of the machine. If the attachment's rated speed exceeds the allowable range or if the diameter, thickness of the attachment, or accessories vary from the machine — stop.
5. The diameter and thickness of the attachment must be compatible with the size of the power tool. Use attachments within the tool's approved limit. Using incompatible attachments may stress the machine and increase the risk of breakage.
6. The grinding wheel, flap disc, grinding disc or other tool/attachment must match the size of the power tool spindle. If possible, avoid gaps between the attachment and the spindle of the tool. If necessary, use a flange or washer to fill the gap, but only one that is recommended by the manufacturer. Incorrect combinations may not be secure and may cause loss of control.
7. Do not use attachments not yet used, such as cutting wheels, if their recommended purpose does not match your operation. Some tools are designed for specific types of work. Using them outside their scope increases the risk of injury.
8. Maintain a firm grip on the tool and ensure you are in a stable body position. Loss of control may result in injury. Do not overreach. Ensure you have full control before switching on. Use both hands to grip the tool firmly.
9. Wear your personal protective equipment properly. Choose your personal protective equipment according to your task. This includes dust masks, safety goggles, ear protection, etc. Appropriate equipment protects you from injury and long-term damage. Improper use or lack of protection may expose you to health risks (e.g., from dust or sparks).
10. Those materials to be worked must maintain a safe and stable position. Keep your workspace free of obstacles. Improper positioning can cause the tool to kick or jump, posing a serious hazard. Use a vise or clamp whenever possible to secure the workpiece properly.
11. Cutting tools may encounter hidden wires or damaged cables. If you hit electrical wiring, contact with the metal parts of the machine can conduct electricity, potentially causing electric shock to the operator.
12. Only put down the power tool once the accessory has completely stopped moving. It is prohibited to use external force to stop the rotation of the accessory. Attempting to stop movement manually may cause kickback and pull the power tool, causing you to lose control over it.
13. Never store the machine when carrying electric tools. Your clothing or hair may get caught in rotating parts. Items due to momentary unbalance, or if the attachments get caught in your body, can lead to injury.
14. Regularly remove the waste of abrading tools. The residue left after use (such as filings, dust, or metal powder accumulation) can pose a risk of electric shock.
15. Do not operate electric tools near flammable materials. Sparks may ignite these materials.
16. Do not use accessories that require coolant. Using wet or electric coolant may cause electric current to enter the operator, leading to electric shock.
17. It is strictly prohibited to operate the machine when the protective cover is not removed. Otherwise, there may be a risk of personal injury.

SPECIAL SAFETY WARNINGS FOR GRINDING AND CUTTING OPERATIONS

1. Only use the recommended type of grinding wheel and wheels specifically designed for the selected grinding wheels. A power tool not designed for power tools cannot provide the correct attachment.
2. When installing a curved grinding wheel, the grinding surface of the wheel must be oriented beyond the edge of the protective hood. The cover is designed to prevent damage that extends beyond this zone. Improper installation may lead to serious injury caused by incorrect wheel use.
3. The protective cover must cover the grinding tool and must be mounted securely to the power tool. Only the minimum amount of grinding wheel should be exposed. The guard helps protect the operator from the dangers of ejected grinding wheels and accidental contact with the rotating accessory.
4. The grinding wheel can only be used for recommended operations. For example, do not use the side of a cutting wheel for grinding. Contact is primarily meant for the face of the cutting disc. This misuse increases the chance of the tool jumping or breaking.
5. Always choose uncracked grinding wheel flanges and accessories designed for the type of disc. Use of incorrect flanges increases the risk of the grinding wheel cracking under stress. Support the grinding wheel properly in the clamping area. Inspect the flange for cracks or wear. The outer diameter of the flange must be greater than the width of the grinding wheel.
6. Do not use worn grinding wheels that have been ground/form-fitted to smaller equipment. Grinding wheels designed for specific applications or tools are unsuitable for high-speed operations on smaller tools, as this may result in the wheel bursting.

SUPPLEMENTARY SAFETY RULES FOR THE BATTERY PACK

1. Before performing any work (such as charging tools, checking, maintenance, handling, storing, etc.), the forward and reverse switch must first be placed in the middle (switch locked state) before removing the battery pack.
2. Before using the machine, check that the battery pack is properly installed.
3. During charging, the battery pack may become slightly warm, which is normal.
4. Charging damaged battery packs is prohibited.
5. After charging is complete, first disconnect the power, then unplug the battery pack from the charger. The battery pack must not be left on the charger for long periods.
6. When not using the machine, do not leave the charged battery pack connected to the charger.
7. Do not attempt to disassemble the battery pack. It should be handed over to professional maintenance personnel when maintenance or repair is needed. Incorrect assembly can pose a risk of electric shock or fire.
8. Avoid short-circuiting the battery pack. (For example: do not allow tools, nails, etc. to touch the positive and negative terminals of the battery pack.)
9. Throwing the battery pack into fire is prohibited, as it poses an explosion risk.
10. Dropping, shaking, or colliding with the battery pack is prohibited.
11. Do not use the battery pack as a hammer; striking it can lead to accidental short-circuiting, fire, or even explosion.
12. The battery pack must be kept away from high temperatures or flames! Do not place the battery pack on a heater, nor expose it to strong sunlight, as high temperatures pose an explosion risk.
13. Workplaces must be well-ventilated. Toxic gases emitted from improperly used or damaged battery packs can cause personal injury.
14. Battery packs may leak under high temperatures or excessive use. If any liquid contaminates machine parts, please clean them, and replace contaminated parts if necessary. Leaking batteries cannot be reused. If liquid accidentally comes into contact with skin, wash with soap, and clean the area with warm water. If liquid is accidentally splashed in the eyes, immediately rinse with clean water and seek medical attention. Liquids splashed from the battery pack can cause corrosion or fire.
15. Battery packs need to be protected from moisture. Do not allow them to get wet or be exposed to rain.
16. If the battery is not used for a long time, please charge and discharge it once every two months and recharge it fully for storage.
17. The battery temperature range for better safety is 0–45°C. If stored at excessively high or low temperatures, the capacity of the battery pack will be affected.
18. Battery packs should be stored in a dry, ventilated place. Avoid direct sunlight and high temperatures. Also avoid long-term storage in winter.
19. As much as possible, never pack near other metal objects. When transporting the battery pack, remove metal items, as metals can cause the battery pack to short-circuit. A short circuit may result in sparks, burns, or explosion fires.

SYMBOLS:



Read the manual



Warning label



Please wear protective ear muffs and eyewear



Please wear a protective mask



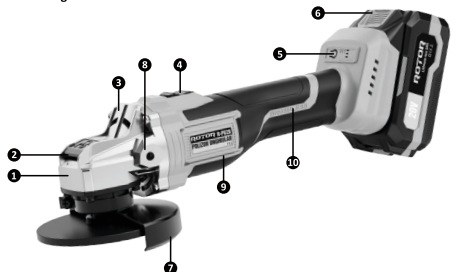
Class II tools



Please do not dispose of batteries casually

PRODUCT COMPONENTS

Labeled diagram:



- | | |
|-------------------------------|--|
| 1. Aluminium alloy head shell | 7. Spindle lock |
| 2. Cooling vent | 8. Start switch |
| 3. Control panel | 9. Battery release switch |
| 4. Protective cover | 10. Auxiliary handle installation hole |
| 5. Brushless motor | 11. Rubber-coated grip |
| 6. Battery pack | |

SPECIFICATIONS

Voltage (V):	21
No-load Speed (r/min):	0-9000
Grinding Wheel Diameter (mm):	100
Motor Type:	Brushless Motor Machine
Weight (kg):	1.15
Standard:	GB/T3883.1-2014

Note:

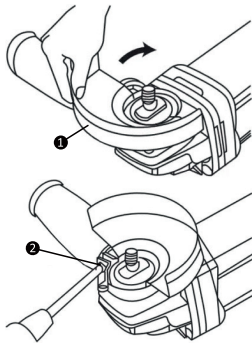
Technical information and specifications may be improved or changed without prior notice. We are not responsible for errors resulting from printing.

USER MANUAL

Note: Please read the instructions carefully before use.

1. Installing or removing the grinding wheel guard

When installing the grinding wheel guard, align the flange on the clamp of the guard with the slot on the head cover. Then rotate the grinding wheel guard to the appropriate angle so that it can protect the operator over the largest area according to the actual work conditions. Please be sure to tighten the screws. To remove the grinding wheel guard, simply follow the above installation steps in reverse order.



1. Protective shield

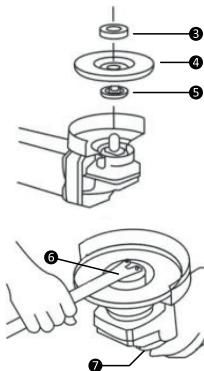
2. Tighten the screws

Note:

The wheel guard must be installed on the tool, with the closed side always facing the operator.

2. Installing or removing attachments

Install the pressure plate onto the spindle, then fit the grinding wheel onto the spindle and onto the pressure plate, and screw the upper pressure plate onto the spindle. Press the spindle lock device to prevent the spindle from rotating, then use a locking nut wrench to tighten the upper pressure plate.



3. Upper pressure plate

4. Grinding wheel

5. Lower pressure plate

6. Special wrench

7. Self-locking button

3. Spindle Lock Operation

Press the spindle lock to prevent the spindle from rotating when installing or removing attachments.

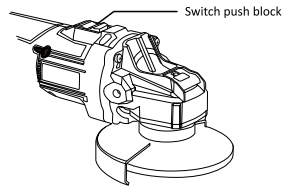
Note:

Do not engage the spindle lock while the spindle is rotating, as this may damage the machine.

4. Operation of the switch

Before installing the battery pack in the machine, make sure to check if the switch is functioning properly, and confirm that the switch and lock button are in the off position. Push the switch block forward to start the tool, and push the switch block backward to turn off the tool.

5. Switch push block



Start the machine, holding the body with one hand and grasping the auxiliary handle with the other, then apply the grinding wheel to the workpiece. Usually, the edge of the grinding wheel should maintain an angle of 15°–30° with the surface of the workpiece. During the break-in period of a new grinding wheel, do not operate in the 30° direction, otherwise the grinding wheel will cut into the workpiece. Once the edge of the grinding wheel has been rounded after use, it can be operated in either the 15° or 30° direction.

6. Cutting Operation

Start the machine, hold the main body with one hand, grasp the auxiliary handle with the other hand, and then slowly apply the cutting blade to the workpiece. Keep the cutting blade always vertical to the workpiece.

Note: Do not engage the spindle lock while the spindle is rotating, as this may damage the machine.

BATTERY AND CHARGER USER MANUAL

Note: When delivered, the battery pack is only partially charged.

To ensure the battery can achieve its maximum power, it must be fully charged in the charger before first use.

INSTALL OR REMOVE THE BATTERY PACK

1. Installing the battery pack

As shown in the figure, when inserting the battery pack, make sure to insert it correctly. Please ensure it is pushed in until you hear a "click" sound, indicating that the battery pack is securely attached to the machine. Otherwise, the battery pack may accidentally fall off the casing, which could result in injury to the operator or others. Avoid applying excessive force or using other objects to knock it in when inserting the battery pack.

Note:

Only the specified model of battery pack may be used. Using battery packs from other brands poses a risk of injury and can cause personal injury and property damage due to battery explosions, as well as damage to the machine.

2. Removing the battery pack

The battery pack is located under the machine handle. Press the battery pack button and then pull the battery pack out firmly.

Note: Do not forcefully pull out the battery pack

3. Battery Level Display

The battery level display is located on the body connected to the battery pack.

The battery level display status is as follows:

Green light status and remaining battery capacity:

- 0.3 lights continuously on → 68–100%
- 0.2 lights continuously on → 33–68%
- 1 light continuously on → 10–33%

Some models do not have a battery level display or the position is different, please refer to the actual item.

4. Battery Charging Method

Battery Charging Method 4. This charger is suitable for charging lithium-ion batteries of the specified model under general environmental conditions.

The performance and specifications of this product are shown below:

Model:	212C
Input power supply (AC/V):	110-240
Charging current / A:	1.5-2
Input power frequency / Hz:	50-60
Applicable battery pack voltage (DC/V):	18(±2V MAX)
Insulation class:	Double insulation

Note: The company reserves the right to improve specifications and parameters without prior notice.

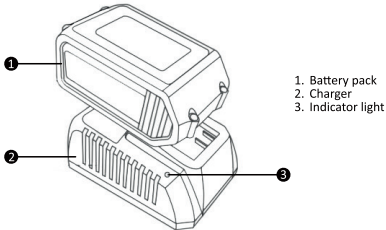
1. After plugging the charger into the socket, the green light stays on, indicating it is in charging standby mode.

2. Then, insert the battery pack into the charger, and the red light will illuminate to indicate that charging has begun.

3 **Note:** Please ensure that the AC voltage parameters comply with the voltage requirements on the charger nameplate!

CHARGING OPERATION

The charger can be used to detect certain faults caused by the battery pack and determine them through the status of the red and green indicator lights. In the event of a fault, reinsert the battery pack into the charger. If the fault persists, try another battery pack. If the new battery pack charges normally, the original battery pack may be damaged. If the new battery pack still shows the same fault indicator, the charger may be damaged and needs to be repaired.



1. Battery pack
2. Charger
3. Indicator light

INDICATOR LIGHT STATUS

For details on the relationship between the indicator light status and the charging status, see below:

Charging standby (charger plugged into AC socket):
→ Green light stays on



Battery pack is charging:
→ Red light stays on



Battery pack has completed charging:
→ Green light stays on



CHECKS

When the machine is issued or returned, the custodian must carry out a daily check before use. The user must conduct a daily check; the machine's operating unit must have dedicated personnel to conduct regular inspections. Inspections must be carried out at least once a year; in areas with high humidity and frequent temperature changes, or where usage conditions are harsh, the inspection cycle should be appropriately shortened. Inspections should be carried out promptly before the rainy season.

Machines that pass regular inspections should have a 'Qualified' label affixed to an appropriate part of the machine. The 'Qualified' label should be prominent, clear, and accurate, and must include at least: machine number, name or mark of the inspection unit, name or mark of the inspector, and validity date.

REPAIRS

The maintenance of the machine must be carried out by a repair unit recognised by the original manufacturing entity. The user unit and the maintenance department must not arbitrarily modify the original design parameters of the machine, nor use substitute materials with inferior performance to the original materials or components that do not conform to the original specifications.

TROUBLESHOOTING

Common Faults	Fault Analysis	Solution
The machine is not working, even though the battery pack is intact and fully charged.	1. Poor contact between the battery pack and the machine 2. Battery short-circuited by dust, metal shavings, or other pollutants 3. Internal machine part damage	1. Remove the battery pack and reinstall it. 2. Clean the machine. 3. Send the machine back to the original manufacturer or repair centre for repairs.
The machine suddenly stops or interrupts operation during use.	1. Battery pack power is exhausted 2. Battery pack high temperature protection 3. Machine overload protection 4. Machine component damage	1. Charge the battery or replace it with a fully charged battery pack 2. Allow the battery pack to cool down or replace it with a room temperature fully charged battery pack 3. Restart after cooling 4. Send the machine back to the manufacturer or repair point for maintenance

The machine is producing excessive noise, and the temperature is abnormally high.	1. Gearbox lacks lubrication oil 2. Machine is absorbing a large amount of dust, metal shavings, or other pollutants 3. Internal machine parts are damaged	1. Send the machine back to the original factory or maintenance point to add special lubricant 2. Clean the machine. 3. Send the machine back to the original factory or maintenance point for repairs.
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MAINTENANCE AND CARE

1. Clean the vents

The machine's vents must be kept clean. They should be regularly cleaned or cleaned immediately if blocked.

2. Check the installation screws

The installation screws should be checked regularly to ensure they are securely tightened. If any screws are found to be loose, they should be tightened immediately to prevent accidents.

3. Cleaning

It is forbidden to use water or chemical cleaning agents to clean the machine. Simply wipe it clean with a dry cloth.

DISPOSAL OF USED BATTERY PACKS

To protect the natural environment, please recycle or dispose of battery packs properly. This battery contains lithium batteries. Please consult your local waste management department for information on recycling and/or disposal. Use tools to discharge the battery pack, remove the battery pack, and securely wrap the terminals with strong tape to avoid short circuits and leakage. Please do not attempt to open or dismantle any components.

ENVIRONMENTAL PROTECTION

Waste disposal: In response to environmental protection, damaged machines, parts, and packaging materials must be meticulously sorted for recycling. To facilitate classification and recycling, each plastic component is labelled with material identification.