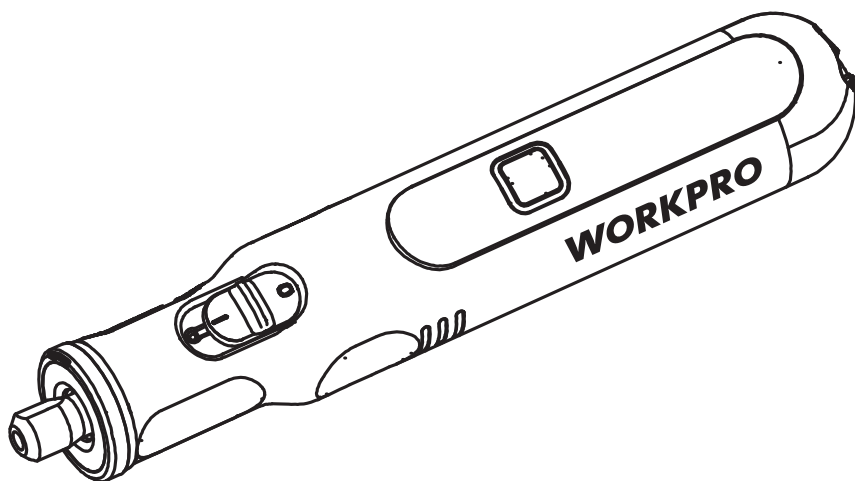


W123022A

W123023A

WORKPRO

ORIGINAL OPERATING INSTRUCTIONS 7.2V ELECTRIC ROTARY TOOL



Distributed by :
Hangzhou GreatStar Industrial Co., Ltd.
No.35 Jiuquan Road, Shangcheng District,
Hangzhou 310019, China
www.greatstartools.com



Danger! - Read the operating instructions to reduce the risk of injury.



Keep all other persons away from the danger zone.



Protect the tool from the damp and never expose it to rain.



Only recharge the battery pack indoors.



Do not burn the battery pack!



Do not expose the battery pack to sunlight or increased temperatures!



Wear safety goggles.



Wear ear defenders.



Wear a breathing mask.



Wear protective gloves.



Wear close-fitting work clothes.

GENERAL POWER TOOL SAFETY WARNINGS

Danger!

When using the equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating instructions and safety regulations with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, hand over these operating instructions and safety regulations as well. We cannot accept any liability for damage or accidents which arise due to a failure to follow these instructions and the 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

- 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.

2) 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.

3) 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 a 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.

4) 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.

GENERAL POWER TOOL SAFETY WARNINGS

- 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.

5) 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.

6) Battery tool use and care

- Ensure the switch is in the off position before inserting battery pack. Inserting the battery pack into power tools that have the switch on invites accidents.
- 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.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

- When battery pack is not in use, keep it away from other metal objects like 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.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

7) When to charge the battery

New batteries are shipped in a low charged condition and should be fully charged before Use. The battery pack can be recharged at any time during use, provided the pack is not overheated. If the battery pack starts to cut out due to low voltage, or previous tasks undertaken can no longer be performed, it is suggested to stop using the tool and recharge the battery.

For storage, it is suggested to recharge the battery between 50% and 75% charge, and charge the device at least once in 3-6 months to preserve battery lifespan.

SAFETY INSTRUCTIONS FOR ALL OPERATIONS

Safety Warnings Common for Grinding, Sanding, Wire Brushing, Polishing, Carving or Abrasive Cutting-Off Operations

- This power tool is intended to function as a grinder, sander, wire brush, polisher, carving or cut-off tool.
- 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.
- Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
- The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
- The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.

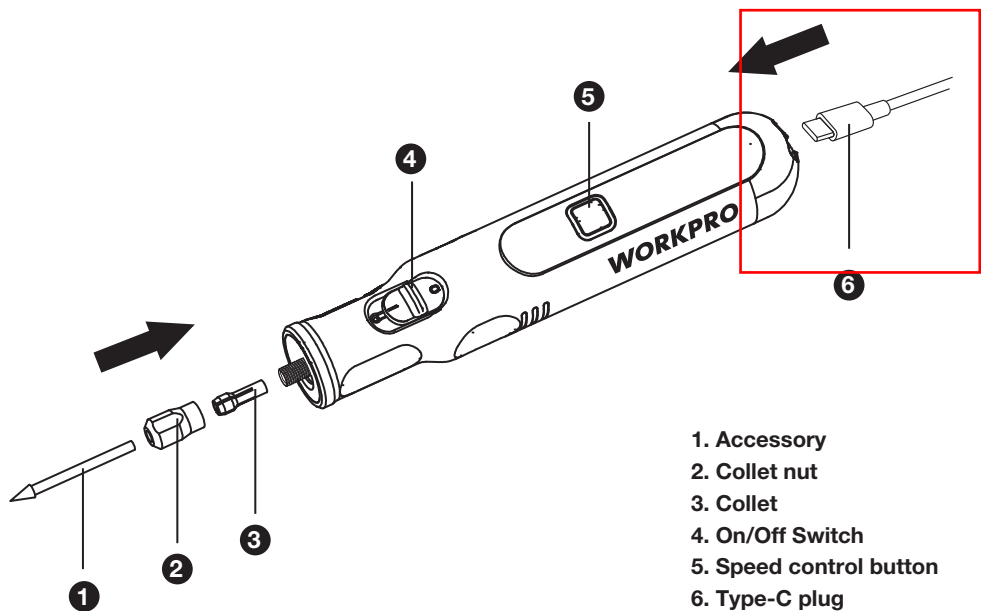
GENERAL POWER TOOL SAFETY WARNINGS

- The arbour size of wheels, sanding drums or any other accessory must properly fit the spindle or collet of the power tool. Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- Mandrel mounted wheels, sanding drums, cutters or other accessories must be fully inserted into the collet or chuck. If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and ejected at high velocity.
- Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, sanding drum for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.
- Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
- Always hold the tool firmly in your hand(s) during the start-up. The reaction torque of the motor, as it accelerates to full speed, can cause the tool to twist.
- Use clamps to support workpiece whenever practical. Never hold a small workpiece in one hand and the tool in the other hand while in use. Clamping a small workpiece allows you to use both hands to control the tool. Round material such as dowel rods, pipes or tubing have a tendency to roll while being cut, and may cause the bit to bind or jump toward you.
- Never lay the power tool down until the accessory has come to a complete stop. The spinning wheel may grab the surface and pull the power tool out of your control.
- After changing the bits or making any adjustments, make sure the collet nut, chuck or any other adjustment devices are securely tightened. Loose adjustment devices can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.
- Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock. Kickback and related warnings
- Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.
- For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

GENERAL POWER TOOL SAFETY WARNINGS

- Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. The operator can control kickback forces, if proper precautions are taken.
- Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- Do not use a toothed saw blade. Such blades create frequent kickback and loss of control over the power tool.
- Always feed the bit into the material in the same direction as the cutting edge is exiting from the material (which is the same direction as the chips are thrown). Feeding the tool in the wrong direction causes the cutting edge of the bit to climb out of the work and pull the tool in the direction of this feed.
- When using rotary files, cut-off wheels, high speed cutters or tungsten carbide cutters, always have the work securely clamped. These wheels will grab if they become slightly canted in the groove, and can kickback. When a cut-off wheel grabs, the wheel itself usually breaks. When the rotary file, high-speed cutter or tungsten carbide cutter grab, it may jump from the groove and you could lose control of the tool. Safety warnings specific for Grinding and Abrasive Cutting-Off operations
- Use only wheel types that are recommended for your power tool and only for recommended applications. For example: do not grind with the side of a cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- For threaded abrasive cones and plugs use only undamaged wheel mandrels with an unrelieved shoulder flange that are of correct size and length. Proper mandrels will reduce the possibility of breakage.
- Do not “jam” the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut. Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
- Do not position your hand in line with and behind the rotating wheel. When the wheel, at the point of operation, is moving away from your hand, the possible kickback may propel the spinning wheel and the power tool directly at you.
- When wheel is pinched, snagged or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of wheel pinching or snagging.
- Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback. Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- Use extra caution when making a “pocket cut” into existing walls or other blind areas. The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback. Safety warnings specific for wire brushing operations
- Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush. The wire bristles can easily penetrate light clothing and/or skin.
- Allow brushes to run at operating speed for at least one minute before using them. During this time no one is to stand in front or in line with the brush. Loose bristles or wires will be discharged during the run-in time.
- Direct the discharge of the spinning wire brush away from you. Small particles and tiny wire fragments may be discharged at high velocity during the use of these brushes and may become imbedded in your skin.

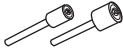
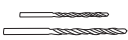
KNOW YOUR PRODUCT



TECHNICAL DATA

Battery rated voltage	Maximum 8.0V, nominal 7.2V
Battery capacity	1100mAh
Charging voltage	5V DC
Rated speed	5000-30000 min ⁻¹ (6 gears)
Charging time	1.5-2hr (according to power supply output current)
Collet size	3/32" (2.35mm) / 1/8" (3.2mm)
Machine weight	227g
Max. Capacity of accessories	35mm

ACCESSORIES DESCRIPTION AND USE

No	Picture	Description	Use
1.		Sanding rubber	To mount sanding band.
2.		Cutting disc	Use for cutting thin metal plate, rod. The cut-off disc cuts only along its edge.
3.		Sanding paper	Rough-shaping and smoothing wood and fibreglass; removing rust from metal surfaces.
4.		Saw blade	Use for cutting wood, plastic, acrylic.
5.		Sanding roll	For rough-shaping and smoothing wood and fibreglass; removing rust from metal surfaces; shaping rubber surface. Sanding bands are easily replaceable on drums.
6.		Cutting disc fixture	To mount different accessories, like cut-off wheels.
7.		Wire brush	For metal surface cleaning, rust cleaning.
8.		Diamond bits (Ball metal grinder bit and Cone head grinding bit)	Wood, Zinc, Plastic, Nickel, Copper, Mild steel.
9.		Rubber grinder with shank	Use on metals, welded joints, rivets and rust. Ideal for sharpening, de-burring, rust removal and general purpose of most materials.
10.		Grinder bit	
11.		Grinding wheel with shank	Slot milling on wood, plastic and metal surface.
12.		1/8" and 3/32" Drill bit	Use for drilling wood, plastic, metal.
13.		Wool felt wheel	Use for polishing wood, plastic, metal, jewelry and small parts.
14.		Screw Mandrel	Use it with felt polishing wheel.
15.		Wrench	Quicker accessory replacement by loosening the collet with the wrench.

OPERATION

i NOTE:

Before using the tool, read the instruction book carefully.

BEFORE PUTTING INTO OPERATION

The machine is designed for grinding and deburring metal using corundum grinding tools, as well as for working with sanding wheels.

1. RECHARGING BATTERIES

IMPORTANT NOTES FOR CHARGING THE BATTERY

The Li-ion battery is protected against deep discharging. When the battery is empty, the machine is switched off by means of a protective circuit: The tool holder no longer rotates.

To prevent damage to the battery, when charge runs out, please charge the battery to reach full or no less than half charge before storage.

If the tool will not be used for long periods of time, charge the battery every 3-6 months.

i NOTE:

The mini grinder that has been unused for a while or never been charged must be charged before reuse or first use.

⚠ WARNING!

Do not charge a battery for a second time in close succession. There is a danger of overcharging the battery pack.

⚠ WARNING!

When battery charge runs out after continuously use or exposure to direct sunlight or heat, allow time for the battery to cool down before re-charging to achieve the full charge.

CHARGING (SEE FIG. 1)

Connect the power supply (DC5V 500mA to 2000mA), Insert Type-C plug into the machine. Power indicator will turn on.

LED	Meaning
4 lights continuous flash	0-25%
1 light solid, 3 lights flash	26-50%
2 lights solid, 2 lights flash	51-75%
3 lights solid, 1 light flash	76-99%
4 lights solid	Fully charged

Charger will automatically stop when charging is completed and the red light will turn white.

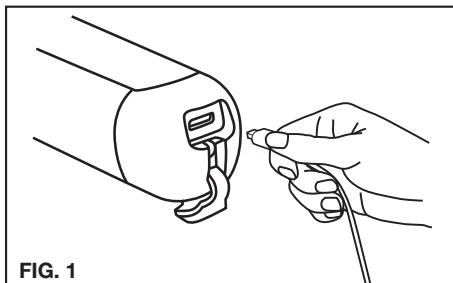


FIG. 1

i NOTE:

The battery pack may become a little warm during the charging process. This is normal.

If the battery fails to charge, please check

- Whether there is voltage at the socket outlet
- Whether there is good contact at the charging contacts of the charging unit.

2. ASSEMBLY

⚠ WARNING!

Always turn off mini grinder before changing accessories, changing collets, or servicing the tool.

a. FITTING AN ACCESSORY

Turn the device off and ensure that the rotating part is stopped!

1. Use the wrench to unscrew collet nut, pull the part/bit out of the tool.
2. Insert the new part/bit through the center of the collet nut into collet to the proper position (Fig. 2), and then secure the collet to the tool.
3. Use the wrench to tighten collet nut.

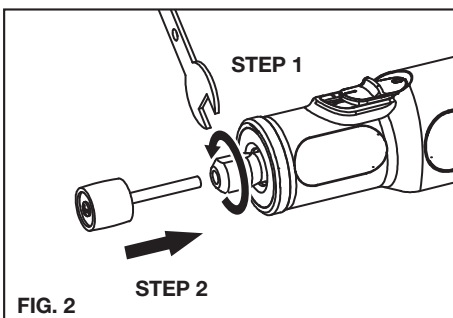


FIG. 2

OPERATION

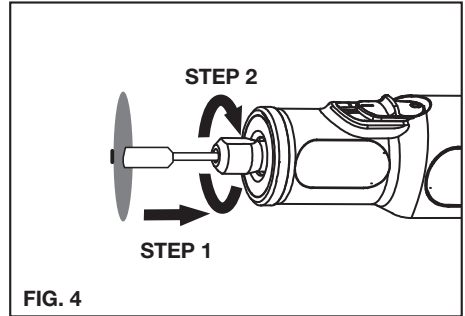
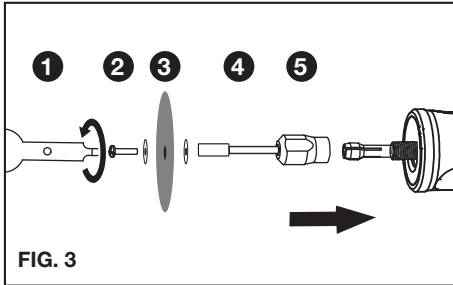
b. FITTING A CUTTING DISC, SANDING PAPER or SAW BLADE (SEE FIG. 3, FIG. 4)

1. Remove the screw from the end of the mandrel with the wrench.
2. Insert screw through wheel and screw into mandrel.
3. Tighten the cutting/sanding disc or saw blade onto the mandrel with the wrench.

Do not over tighten, otherwise the wheel may crack.

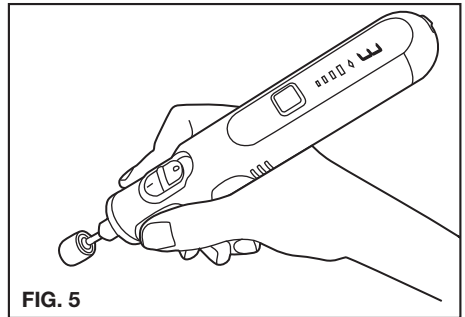
CAUTION!

Always hold the tool away from your face.
Accessories can be damaged during handling and can fly apart as they come up to speed.



OPERATION

Turn on On/Off Switch to start the device and LEDs. The device speed defaults to 3rd gear (six gears in total). Short press the Speed control button after switching on the device to cycle through the gears from low to high. When the switch is turned off, the device stops working immediately and sleeps after 10 seconds, and the LED light turns off.



CLEANING AND MAINTENANCE

CLEANING

- Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible.
- Wipe the equipment with a clean cloth or blow it with compressed air at low pressure.
- We recommend that you clean the device immediately each time you have finished using it.
- Clean the equipment regularly with a moist cloth and some soft soap.
- Do not use cleaning agents or solvents; these could attack the plastic parts of the equipment. Ensure that no water can seep into the device.

MAINTENANCE

There are no parts inside the equipment which require additional maintenance.

For storage, it is suggested to recharge the battery between 50% and 75% charge, and charge the device at least once in 3-6 months to preserve battery lifespan.

ENVIRONMENTAL PROTECTION



The unit is supplied in packaging to prevent its being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system.



The unit and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste. Ask your dealer or your local council.



Think of the environment when disposing of batteries. Contact your local authorities to find out where your nearest disposal area is. Do not dispose of batteries with domestic refuse. Do not dispose of by burning, risk of explosion.

WORKPRO