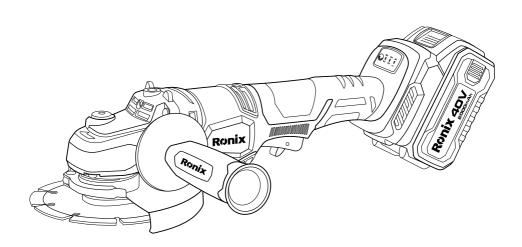


40V BRUSHLESS MINI ANGLE GRINDER KIT 125mm 8901-40V



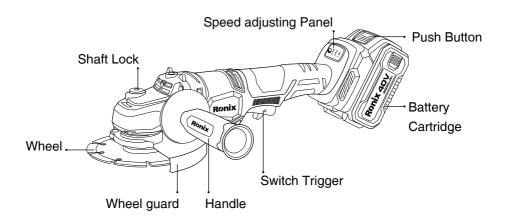


TECHNICAL SPECIFICATION

Model	8901-40V		
Battery Voltage	40V		
Battery Type	Lithium-ion		
No-Load Speed	3000-8500RPM		
Speed Adjustment	6 settings		
Bore Diameter	22.23mm		
Wheel Diameter	125mm		
Body Material	nylon(PA6-GF30)		
Spindle Size	M14		
Weight	2.56Kg (with 1pc Battery)		
Packaging	BMC		
Accessories	2pcs Battery Packs 1pc Charger 1pc Wrench 1pc Handle		



PART LIST



GENERAL POWER TOOL SAFETY WARNING



WARNING!

Read all safety warnings, instructions, and regulations provided with the electric tool. Failure to follow the instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference. The term "electric tool" in the warning refers to a commercially available (wired) electric tool or a battery-powered (wireless) electric tool.

■WORK AREA SAFETY

- 1- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- 2- Do not operate power tools in explosive atmosphere such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- 3- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.



■ELECTRICAL SAFETY

- 1- 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.
- 2- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 3- 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.
- 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- 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

- 1- 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.
- 2- 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.
- 3- 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.
- 4- 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.

- 5- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 6- 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.
- 7- 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.
- 8- 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.
- 9- Always wear protective goggles to protect your eyes from injury when using power tools. The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.

It is an employer's responsibility to enforce the use of appropriate safety protective equipment by the tool operators and by other per- sons in the immediate working area.

■POWER TOOL USE AND CARE

1- 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.

- 2- 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.
- 3- 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.
- 4- 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.
- 5- 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.
- 6- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 7- 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.
- 8- 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.

BATTERY TOOL USE AND CARE

- 1- Recharge only with specified by the manufacturer. A charger that is suitable for Only one type of battery pack may create a risk of fire when used with another battery pack.
- 2- Use power tools only with specifically designated battery packs. Use



of any other battery packs may create a risk of injury and fire.

- 3- 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.
- 4- Do not use damaged or modified battery packs or tools. Damaged or modified battery packs may present unpredictable results, resulting in fire, explosion or injury.
- 5- 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.
- 6- Follow all charging instructions. Do not charge the battery pack or electric tools outside the temperature range specified in the manual. Incorrect charging or charging outside the specified temperature range may damage the battery and increase the risk of ignition.
- 7- Do not expose battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion.
- 8- Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the specifications. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

■SERVICE

- 1- 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.
- 2- Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.
- 3- Follow instruction for lubricating and changing accessories.



CORDLESS GRINDER SAFETY WARNINGS

- 1- This power tool is intended to function as a grinder, sander, wire brush 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.
- 2- Operations such as polishing are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.
- 3- 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.
- 4- 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.
- 5- 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.
- 6- Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbor hole of the accessory must fit the locating diameter of the flange. 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.
- 7- Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad 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



- 8- 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 filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- 9- 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.
- 10- Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- 11- Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
- 12- 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.
- 13- 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.
- 14- Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- 15- 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.

- 1- Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kick- back forces, if proper precautions are taken.
- 2- Never place your hand near the rotating accessory. Accessory may kickback over your hand.
- 3- Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- 4- 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.
- 5- Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

SAFETY WARNING SPECIFIC FOR GRINDING AND ABRASIVE CUTTING-OFF OPERATIONS:

1- Use only wheel types that are recommended for your power tool and



the specific guard designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.

- 2- The grinding surface of center depressed wheels must be mounted below the plane of the guard lip. An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
- 3- The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. The guard helps to protect the operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.
- 4- Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- 5- Always use undamaged wheel flanges that are of correct size and shape for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
- 6- Do not use worn down wheels from larger power tools. Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

CUTTING-OFF OPERATIONS

- 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 body in line with and behind the rotating wheel. When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.



- When wheel is binding 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 binding.
- 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 kick-back. 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 sanding operations:

Do not use excessively oversized sanding disc paper. manufacturers recommendations, when selecting sanding paper. Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.

SAFETY WARNINGS SPECIFIC FOR WIRE BRUSHING:

- 1. 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.
- 2. If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard. Wire wheel or brush may expand in diameter due to work load and centrifugal forces.

ADDITIONAL SAFETY WARNINGS:

1- When using depressed center grinding wheels, be sure to use only



fiberglass-reinforced wheels.

- 2- NEVER USE Stone Cup type wheels with this grinder. This grinder is not designed for these types of wheels and the use of such a product may result in serious personal injury.
- 3- Be careful not to damage the spindle, the flange (especially the installing surface) or the luck nut. Damage to this part could result in wheel breakage.
- 4- Make sure the wheel is not contacting the workpiece before the switch is turned on.
- 5- Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced wheel.
- 6- Use the specified surface of the wheel to perform the grinding.
- 7- Do not leave the tool running. Operate the tool only when hand-held.
- 8- Do not touch the workpiece immediately after operation; it may be extremely hot and could burn your skin.
- 9- Observe the instructions of the manufacturer for correct mounting and use of wheels. Handle and store wheels with care.
- 10- Do not use separate reducing bushings or adaptor to adapt large hole abrasive wheels.
- 11- Use only flanges specified for this tool.
- 12- For tools intended to be fitted with threaded hole wheel, ensure that the thread in the wheel is long enough to accept the spindle length.
- 13- Check that the workpiece is properly supported.
- 14- Pay attention that the wheel continues to rotate after the tool is switched off.
- 15- If working place is extremely hot and humid, or badly polluted by conductive dust, use a short-circuit breaker (30 mA) to assure operator safety.
- 16- Do not use the tool on any materials containing asbestos.
- 17- When use cut-off wheel, always work with the dust collecting wheel guard required by domestic regulation.
- 18- Cutting discs must not be subjected to any lateral pressure.
- 19- Do not use cloth work gloves during operation. Fibers from cloth



gloves may enter the tool, which causes tool breakage.

SAVE THESE INSTRUCTIONS



WARNING:

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CARTRIDGE

- 1- Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
- 2- Do not disassemble battery cartridge.
- 3- If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
- 4- If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
- 5- Do not short the battery cartridge:
- Do not touch the terminals with any conductive material.
- Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
- Do not expose battery cartridge to water or rain.
- A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
- 6- Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).
- 7- Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in fire.
- 8- Be careful not to drop or strike battery.
- 9- Do not use a damaged battery.



- 10- The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements. For commercial transports e.g. by third parties, forwarding agents, special requirement on pack- aging and labeling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required. Please also observe possibly more detailed national regulations. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.
- 11- Follow your local regulations relating to disposal of battery.
- 12- Use the batteries only with the products specified by manufacturer. Installing the batteries non-compliant products may result may result in a fire, excessive heat, explosion, or leak of electrolyte.



A CAUTION:

Only use genuine Manufacturer batteries.

Use of non-genuine Manufacturer batteries that have been altered, may result in the battery bursting causing fire, personal injury and damage.

TIPS FOR MAINTAINING MAXIMUM BATTERY LIFE

- 1- Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
- 2- Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
- 3- Charge the battery cartridge with room temperature at 10 °C 40 °C (50 °F - 104 °F). Let a hot battery cartridge cool down before charging it.
- 4- Charge the battery cartridge if you do not use it for a long period (more than six months).

■IMPORTANT SAFETY INSTRUCTIONS FOR WIRELESS UNIT

- 1- Do not disassemble or tamper with the wireless unit.
- 2- Keep the wireless unit away from young children. If accidentally swallowed, seek medical attention immediately.



- 3- Use the wireless unit only with manufacturer tools.
- 4- Do not expose the wireless unit to rain or wet conditions.
- 5- Do not use the wireless unit in places where the temperature exceeds 50°C (122°F).
- 6- Do not operate the wireless unit in places where medical instruments, such as heart pace makers are nearby.
- 7- Do not operate the wireless unit in places where automated devices are nearby. If operated, automated devices may develop malfunction or error.
- 8- The wireless unit can produce electromagnetic fields (EMF) but they are not harmful to the user.
- 9- The wireless unit is an accurate instrument. Be careful not to drop or strike the wireless unit.
- 10- Avoid touching the terminal of the wireless unit with bare hands or metallic materials.
- 11- Always remove the battery on the tool when installing the wireless unit.
- 12- When opening the lid of the slot, avoid the place where dust and water may come into the slot. Always keep the inlet of the slot clean.
- 13- Always insert the wireless unit in the correct direction.
- 14- Do not press the wireless activation button on the wireless unit too hard and/or press the button with an object with a sharp edge.
- 15- Always close the lid of the slot when operating.
- 16- Do not remove the wireless unit from the slot while the power is being supplied to the tool. Doing so may cause a malfunction of the wireless unit.
- 17- Do not remove the sticker on the wireless unit.
- 18- Do not put any sticker on the wireless unit.
- 19- Do not leave the wireless unit in a place where static electricity or electrical noise could be generated.
- 20- Do not leave the wireless unit in a place subject to high heat, such as a car sitting in the sun.
- 21- Do not leave the wireless unit in a dusty or powdery place or in a



place corrosive gas could be generated.

- 22- Sudden change of the temperature may be dew the wireless unit. Do not use the wireless unit until the dew is completely dried.
- 23- When cleaning the wireless unit, gently wipe with a dry soft cloth. Do not use benzine, thinner, conductive grease or the like.
- 24- When storing the wireless unit, keep it in the supplied case or a static-free container.
- 25- Do not insert any devices other wireless unit into the slot on the tool.
- 26- Do not use the tool with the lid of the slot damaged. Water, dust, and dirt come into the slot may cause malfunction.
- 27- Replace the lid of the slot if it is lost or damaged.

FUNCTIONAL DESCRIPTION

INSTALLING OR REMOVING BATTERY CARTRIDGE



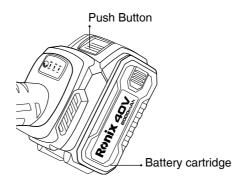
A CAUTION:

Always switch off the tool before installing or removing of the battery cartridge.



A CAUTION:

Hold the tool and the battery cartridge firmly when installing or removing of the battery cartridge. Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.





To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge. To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely.



A CAUTION:

Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

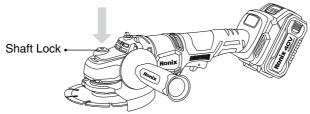


A CAUTION:

Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

SHAFT LOCK

Press the shaft lock to prevent spindle rotation when installing or removing accessories.





A NOTICE:

Never actuate the shaft lock when the spindle is moving. The tool may be damaged.

SWITCH ACTION



A CAUTION:

Before installing the battery cartridge into the tool, always check to see



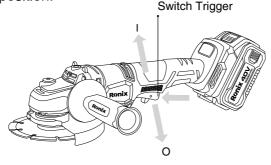
that the slide switch actuates properly and returns to the "OFF" position when the rear of the slide switch is depressed.



A CAUTION:

Switch can be locked in "ON" position for ease of operator comfort during extended use. Apply caution when locking tool in "ON" To start the tool, slide the slide switch toward the "I(ON)" position by pushing the rear of the slide switch. For continuous operation, press the front of the slide switch to lock it.

To stop the tool, press the rear of the slide switch, then slide it toward the "O (OFF)" position.



ACCIDENTAL RE-START PREVENTIVE FUNCTION

Even if the battery cartridge is installed on the tool with the slide switch in the "I (ON)" position, the tool does not start.

To start the tool, first slide the slide switch toward the "O (OFF)" position and then slide it toward the "I (ON)" position.

■SOFT START FEATURE

Soft start feature reduces starting reaction.

ELECTRIC BRAKE

Electric brake is activated after the tool is switched off. The brake does not work when the power supply is shut down, such as the battery is removed accidentally, with the switch still on.



ASSEMBLY



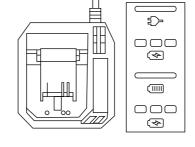
A CAUTION:

Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.



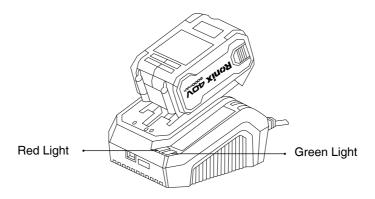
WARNING:

Place the battery pack and charger on a flat non-flammable surface and away from flammable material when re-charging the battery pack 1- Insert the plug on the charging unit into a power socket and turn the power on if required.



2- The charging output interface insert battery of charging port.

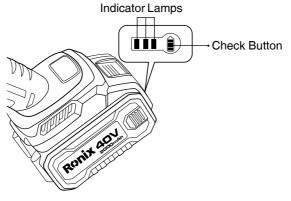
Note: The battery will require 1 hours charging time after normal use. If the battery voltage≤14.5V, it will enter into pre-charging mode, in which the internal current of the charger is reduced.





Charger Operating Mode	Red Light	Green Light
Standby Mode	ON	OFF
Charging Mode	OFF	Flashing 1Hz
Charging Ending Mode	OFF	ON
Preparatory Charging Mode	OFF	Flashing 1Hz
Battery Failure	Flashing 2Hz	OFF
Over Temperature Fault	Flashing 1Hz	OFF

3- Note: Press the check button on the battery cartridge to indicate the remaining batter y capacity. The indicator lamps light up for a few seconds.



Indicator lamps			
Lighted	OFF	Remaining Capacity	
		66% to 100%	
		33% to 66%	
		0% to 33%	



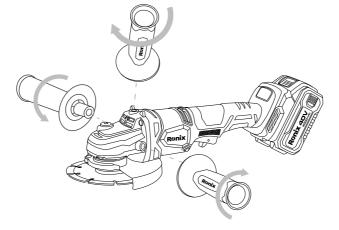
INSTALLING SIDE GRIP (HANDLE)



A CAUTION:

Always be sure that the side grip is installed securely before operation. Screw the side grip securely on the position of the tool as shown in

figure.



INSTALLING OR REMOVING WHEEL GUARD



WARNING:

When using a depressed center wheel, flap disk, flex wheel or wire wheel brush, the wheel guard must be fitted on the tool so that the closed side of the guard always points toward the operator.



WARNING:

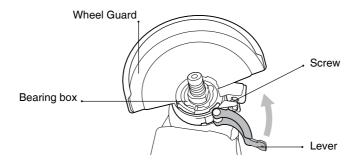
When using an abrasive cut-off / diamond wheel, be sure to use only the special wheel guard designed for use with cut-off wheels.

FOR TOOL WITH CLAMP LEVER TYPE WHEEL GUARD

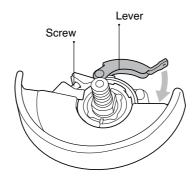
Loosen the screw, and then pull the lever in the direction of the arrow. Mount the wheel guard with the protrusions on the wheel guard band aligned with the notches on the bearing box. Then rotate the wheel



guard to such an angle that it can protect the operator according to work.



Pull the lever in direction of the arrow. Then tighten the wheel guard with fastening the screw. Be sure to tighten the screw securely. The setting angle of the wheel guard can be adjusted with the lever.



To remove wheel guard, follow the installation procedure in reverse.



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