

# **DG11XR**



**(GB)** OWNER'S OPERATING MANUAL







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#### Lamp display

Table 1

Display mode	Lamp color	Flashing speed		Meaning
Stand-by	Green	Flashing		The charger is plugged into the outlet.
Charging	Red	Solid		Charging
80% charged	Red	Flashing		80% fully charged
Charged	Green	Solid		Charging completed
Waiting for cool down	Green	Fast flashing	•••••	The battery pack is too hot for charging. <ul> <li>Charging will start automatically when the temperature is back to normal.</li> </ul>
Unchargeable	Green, Red	Fast flashing (Alternately)	•••••	The battery cannot be charged. <ul> <li>Battery is damaged or at the end of its service life.</li> </ul>

• Battery packs that have been purchased for the first time or have been stored for a long time may take longer to charge.

The lamp might indicate inappropriately if the battery is not inserted properly.

















#### THANK YOU FOR BUYING OUR PRODUCT.

To ensure your safety and satisfaction, carefully read through this OWNER'S MANUAL before using the product.

#### 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 mainsoperated (corded) power tool or battery-operated (cordless) power tool.

#### 1) Work area safety

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

#### 2) Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) If operating 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

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.

- c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- h) 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

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source and/ or 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.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools 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.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) 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) Battery tool use and care

- a) 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.
- b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- c) 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.
- d) 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.
- e) Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury
- f) Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
- g) Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

#### 6) Service

- a) 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.
- b) Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

### Safety Warnings Common for Grinding, Sanding or Abrasive Cutting-Off Operations:

- a) This power tool is intended to function as a grinder, sander 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.
- b) Operations such as wire brushing or 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.
- c) 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.
- d) 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.
- e) 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.

- f) Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbour 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.
- g) 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.
- h) 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 filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- i) 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.
- j) Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
- k) Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- 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.
- m) 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.
- n) 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.
- o) Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- p) 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.

- a) 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 kickback forces, if proper precautions are taken.
- b) Never place your hand near the rotating accessory. Accessory may kickback over your hand.
- c) 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.
- d) 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.
- e) Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

Safety Warnings Specific for Grinding and Abrasive Cutting-Off Operations:

- a) 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.
- b) The grinding surface of centre 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.
- c) 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, and sparks that could ignite clothing. accidental contact with wheel.
- d) 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.
- e) 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.

f) 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.

### Additional Safety Warnings Specific for Abrasive Cutting-Off Operations:

- a) 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.
- b) 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.
- c) 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.
- d) Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully reenter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- e) 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.
- f) 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:

a) Do not use excessively oversized sanding disc paper. Follow 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.

#### INSTRUCTIONS FOR SAFE HANDLING

- 1. Make sure that the tool is only connected to the voltage marked on the name plate.
- Never use the tool if its cover or any bolts are missing. If the cover or bolts have been removed, replace them prior to use. Maintain all parts in good working order.
- 3. Never touch the blade, drill bit, grinding wheel or other moving parts during use.
- 4. Never start a tool when its rotating component is in contact with the workpiece.
- 5. Never lay a tool down before its moving parts have come to a complete stop.
- 6. Check that the work piece is properly supported.
- Ensure that ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, first disconnect the tool from the mains supply (use nonmetallic objects) and avoid damaging internal parts.

- ACCESSORIES : The use of accessories or attachments other than those recommended in these instructions might present a hazard.
- 9. **REPLACEMENT PARTS**: When servicing use only identical replacement parts.

#### DISPOSAL OF THE EXHAUSTED BATTERY

#### Li-ion batteries must be recycled.

Take the battery to the shop from which it was purchased as soon as battery life becomes too short for practical use. **Do not discard the exhausted battery.** 

#### DESCRIPTION

- 1. Grinding Wheel (Optional)
- 2. Wheel guard
- 3. Switch
- 4. Spindle shaft
- 5. Disc flange
- 6. Clamp nut
- 7. Lock button
- 8. Lock-nut wrench
- 9. Auxiliary handle
- 10. Battery pack
- 11. Push button
- 12. Battery level indicator
- 13. Charger
- 14. Charger lamp
- 15. Label
- 16. Mode switch button / Mode display lamp
- 17. Sanding pad 100mm (Optional)
- 18. Sanding disc 100mm (Optional)
- 19. Clamp nut for sanding disc M10 (Optional)
- 20. Wheel guard for cutting-off(Optional)
- Cutting-off wheel (Optional not available-purchase aftermarket)
- 22. Screw
- 23. Connecter
- 24. Connecter Junction

#### SPECIFICATIONS

#### Capacities

Grinding wheel	115 mm x 6mm	
Sanding disc	115 mm	
Cutting-off wheel	115 mm	
Voltage	DC18V (Li-ion)	
Battery type	B-1850LA (5,000 mAh)	
Charger type	UBC1804LA	
Charging time	Approx. 54min (5,000 mAh)	
Spindle thread	M14	
Rated no load speed	High 8,000 min <sup>-1</sup>	
	Middle 6,000 min <sup>-1</sup>	
	Low 3,000 min <sup>-1</sup>	
Dimension	310 mm x 129 mm x 144 mm	
Weight	1.9 kg	

\* Be sure to check the nameplate on the product, because the voltage is subject to change depending on the area in which the product is to be used.

Do not use wheels having a Maximum permissible circumferential speed below 4,800 m/min.

#### STANDARD ACCESSORIES

Lock-nut wrench, Auxiliary handle, Charger, Battery pack, Carrying case

#### **APPLICATIONS**

(Use only for the purposes listed below.)

- Grinding and finishing for welds.
   Deburring and finishing iron, bronze, aluminum, and other metal castings.
- 3. Surface finishing with sanding disc.
- Cutting-off and grooving metal. (With a cutting-off wheel for metal)
- Cutting-off and grooving nonmetal. (With a cutting-off wheel for nonmetal)

#### REMOVING AND ATTACHING THE BATTERY PACK (Fig. 1)

#### (Attachment)

Align the protruding section of the battery pack (10) with the groove on the body, and slide the battery pack all the way into the groove in the direction of the arrow to attach securely.

#### (Removal)

Push and hold the push button (11) while pulling the battery pack (10) straight out in the direction of the arrow.

#### CHECKING THE BATTERY LEVEL (Fig. 2)

The battery level indicator (12) will light up or flash for a while when turn on the switch (3).

The battery level can be determined by the indicator state. Indicator display details are as follows.

Display	Battery condition
■■■ 3 lit	Battery fully charged
∎∎⊡ 2 lit	Battery half charged
■□□ 1 lit	Charge soon
-————————————————————————————————————	Charge immediately

#### CHARGING

The battery pack must be charged before you use the tool. The batteries are affected by temperature, so do not charge them outside or in a location exposed to direct sunlight. Doing so will shorten the charging time and result in less than the full charge.

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#### HOW TO CHARGE (Fig. 3)

The charger (13) may become a little warm while charging, but this does not affect its performance.

The charging condition is indicated by the flashing lamps on the charger (UBC1804LA). (Fig.3, Table 1)

- 1. Securely insert the connecter (23) of the power cord into the connecter junction (24) of the charger.
- 2. Insert the electric plug of the charger into the outlet.
- 3. Firmly insert the battery pack (10) into the charger.
- 4. When the charging is complete, remove the battery pack from the charger (13).
- 5. Remove the electric plug of the charger from the outlet.
- 6. Remove the connecter (23) from the connecter junction (24) on the charger.
- Note1: Lithium ion batteries can be charged when the battery packs are between 0°C and 40°C, but the charging time will be longer if the battery pack temperature is lower than 10°C.
- Note2: The charging time will be longer when the battery level is low.

## HOW TO EXTEND THE LIFE OF THE BATTERY PACK

Do not recharge a fully charged battery pack.

When the battery pack is not going to be used for an extended period of time (6 months or longer), store it with the battery fully charged.

Before storing the battery pack, remove it from the charger.

#### SWITCH (Fig.4)

This tool is started and stopped by sliding and releasing the switch (3).

For the convenience for continuous operation, press the rear end down, then slide the switch along and press the front end down to lock it (action A).

To release the lock, press the rear end of the switch (action B).

### INSTALLATION OF GRINDING WHEEL (Fig.5,6) WARNING!

Use only grinding wheels having a maximum operating speed at least as high as peripheral speed 80 m/sec.(4,800 m/min.) marked on them.

#### **GRINDING WHEEL**

- 1. Attach the disc flange (5), grinding wheel (1) and clamp nut (6) to the spindle shaft (4).
- Be sure that the disc flange is properly seated on the spindle shaft.
- 2. Depress the lock button (7) located on the right side of gear case.
- 3. Using the lock-nut wrench (8) provided, tighten the clamp nut (clockwise).

#### CAUTION!

Do not tighten excessively since this can cause cracks in the grinding wheel.

#### CAUTION!

When using grinding wheels or cutting-off wheel (21) which are less than 3.5mm thick, the clamp nut should be set reversely as shown in fig 7.

#### WARNING!

Check carefully whether or not there are cracks in the wheel. Replace a cracked wheel immediately.

#### INSTALLATION OF SANDING DISC (Fig.5,6)

1. Attach the disc flange (5), sanding pad (17), sanding disc (18) and clamp nut for sanding disc (19) to the spindle shaft (4).

Be sure that the disc flange is properly seated on the spindle shaft.

- 2. Depress the lock button (7) located on the right side of gear case.
- 3. Using the lock-nut wrench (8) provided, tighten the clamp nut for sanding disc (clockwise).

#### AUXILIARY HANDLE (Fig.8)

The auxiliary handle (9) can be attached to either side of the gear case.

#### OPERATING

#### KEEP SAFETY GUARDS IN PLACE. NEVER COVER AIR VENTS SINCE THEY MUST ALWAYS BE OPEN FOR PROPER MOTOR COOLING.

#### **GRINDING AND SANDING (Fig.9)**

The key to efficient operating is controlling the pressure and surface contact between the disc and work piece. Flat surfaces are ground at an acute angle, usually 15 to 30 degrees with the work piece. Allow the disc to reach full speed before starting to grind. Too great an angle causes concentration of pressure on a small area which may gouge or burn the work surface.

#### **CUTTING-OFF**

- 1. Replace the grinding wheel with the cutting-off wheel.
- Loosen the screw(22) and replace the wheel guard (2) with the wheel guard for cutting-off (20). Then, clamp the wheel guard for cutting-off by tightening the screw (22).
- 3. Attach the aux. handle to either side of the gear case.

Align the wheel to the material to be cut and lower it slowly. Move the tool without applying excess pressure. (If excess pressure is applied, it will tend to jam the wheel causing a rough cut.)

#### **OPERATION MODE SWITCH FUNCTION (Fig.10)**

Through the method listed below can switch the operating mode in 3 steps.

Select the operating mode depending on the type of work.

\* Default mode when you purchase is High mode.

#### (Switching method)

- 1. You can switch the operating mode when the switch is turned on and the mode display lamp (16) is lighting up.
- \* The lamp will light up in the colour of the mode selected last time.
- Push the mode switch button when the mode display lamp is lighting up, and the operating mode will switch in the below order.
- \* The mode display lamp lighting up for 30 sec. after turned off the switch.



Table 2

Lamp indication		Situation	Measures
	3 lamps flashing in green.	The tool is overload.	Turn off the switch and remove the battery, then remove the cause of overload.
<b>崇</b> 谦谦		The Tool and/or the battery overheated.	Turn off the switch and remove the battery,
		The temperature inside the battery is too low.	Remove the battery from the tool and wait for the battery to go back to room temperature. *DON'T HEAT THE TOOL
		Low battery	Remove the battery from the tool and recharge the battery.
		The battery was inserted with the switch turned ON.	Turn the switch off and on again
兼日兼	Both sides of lamps flashing in green.	Some problem occurred on the battery.	Turn off the switch and replace the battery or contact Authorized Service Center.

#### BATTERY PROTECTION (Fig.11, Table 2)

This tool has a battery protection function (circuit control). The tool might stop working in the situation in the table above.

When the battery protection is working, the battery level indicator will flash for 30 sec. when the switch is turned ON. Please inspect the tool and resolve the problem.

#### STORING THE TOOL

Store the tool in a dry place that does not get too hot. Avoid places which can be reached by children or from where the tool may fall.

Pay attention to the following when storing the battery pack for an extended period of time.

- a. Store lithium ion batteries when they are charged.
- b. Recharge the stored battery pack every 6 months.
- c. Avoid high temperatures. Do not store for an extended period of time in places that are 45°C or hotter.
- d. Do not store in places that are -20°C or colder.
- e. Do not store in places that are near to heat sources or places that are subject to direct sunlight.
- f. Do not store in places which have large changes in temperature and may have condensation.
- g. Do not store in humid places.
- h. Do not allow it come in contact with water.
- i. Store in a dry place.
- j. Do not subject it to large vibrations or allow it to fall when moving it.
- k. In order to avoid short circuits, do not allow it come in contact with metal objects.
- I. Before storing the battery pack, remove it from the charger.

#### MAINTENANCE

After use, check the tool to make sure that it is in top condition.

It is recommended that you take this tool to an Authorized Service Center for a thorough cleaning and lubrication at least once a year.

### DO NOT MAKE ANY ADJUSTMENTS WHILE THE MOTOR IS IN MOTION.

ALWAYS REMOVE THE BATTERY FROM THE TOOL BE-FORE CHANGING REMOVABLE OR EXPENDABLE PARTS (BIT...ETC.), LUBRICATING OR WORKING ON THE UNIT.

#### WARNING!

To ensure safety and reliability, all repairs should be performed by an AUTHORIZED SERVICE CENTER or other QUALIFIED SERVICE ORGANIZATION.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.



**WARNING** To reduce the risk of injury, user must read instruction manual "

KYOCERA Industrial Tools Corporation 2-2-54 Matsuhama-cho, Fukuyama-shi, Hiroshima-ken, 720-0802 Japan