Instruction Manual

CORDLESS DRILL

Model: C3520

Product NR: DO-CD20-350



CE

WARNING:

To reduce the risk of injury , user must read instruction manual.

Save these instructions for future reference.

About This Instruction Manual

Read and understand this entire instruction manual before using the product. Keep this manual with the product at all times and ensure it is available to any person who operates the tool. This product is intended for use by trained personnel who are familiar with the potential hazards. Untrained persons may be at risk of injury from improper use.

The accompanying documentation corresponds to the current state of the art at the time of printing. The operating instructions must always remain ready to hand at the product. Ensure that these operating instructions are with the product when it is given to other persons.

Signal Word Definitions

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

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

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury, or damage to the product or property.

General Power Tool Safety Warnings

WARNING：Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

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

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.

NOTE： The term residual current device (RCD) may be replaced by the term ground fault circuit

Interrupter (GFCI) or earth leakage circuit breaker (ELCB).

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 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 energizing 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, clothing and gloves 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 the battery pack 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. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools 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 gripping surfaces dry, clean and free from oil and grease. Slippery handles and gripping 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) W hen 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.
h) Never use the battery pack as a striking tool.

6) 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.

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

Additional safety instructions for batteries and chargers

Batteries

- Never attempt to open for any reason.
- Do not store in locations where the temperature may exceed 40 °C.
- Charge only at ambient temperatures between 4 °C and 40 °C.
- Charge only using the charger provided with the tool.
- When disposing of batteries, follow the instructions given in the section “Protecting the environment”.
- Do not cause short circuits. If connection is made between the positive (+) and negative (-) terminal directly or via accidental contact with metallic objects, the battery is short circuited and an intense current will flow causing heat generation which may lead to casing rupture or fire.
- Do not heat. If batteries are heated to above 100 °C, sealing and insulating separators and other polymer components may be damaged resulting in electrolyte leakage and/or internal short circuiting leading to heat generation causing rupture or file. Moreover do not dispose of the

batteries in fire, explosion and/or intense burning may result.
- Under extreme conditions, battery leakage may occur. When you notice liquid on the battery, proceed as follows:

✧ Carefully wipe the liquid off using a cloth. Avoid skin contact.

✧ In case of skin or eye contact, follow the instructions below:
  - Immediately rinse with water. Neutralize with a mild acid such as lemon juice or vinegar.

In case of eye contact, rinse abundantly with clean water for at least 10 minutes. Consult a physician.

⚠Fire hazard! Avoid short-circuiting the contacts of a detached battery. Do not incinerate the battery.

Chargers

- Use the charger provided with the tool only to charge the battery
- Never attempt to charge non-rechargeable batteries.
- Have defective cords replaced immediately.
- Do not expose to water.
- Do not open the charger.
- Do not probe the charger.
- The charger is intended for indoor use only.

Handling Damaged Batteries

If a battery is visibly damaged, cracked or leaking fluid, do not use it. Avoid direct skin and eye contact with any leaking fluid. Wear protective gloves and eye protection. Use an appropriate absorbent material to clean up leaked fluid in accordance with local regulations.
Place the damaged battery in a non-flammable container and cover it with dry sand, chalk powder (calcium carbonate) or vermiculite. Seal the container and store it away from flammable materials. Dispose of the container through an authorised waste collection point in compliance with local regulations.

Signs of Battery Malfunction

Watch for abnormal battery behaviour such as: failure to charge or accept a full charge, unusually long charging times, noticeable loss of power during use, unusual indicator light activity, swelling, excessive heat or leaking fluid. These may indicate an internal defect. Stop using the battery immediately and dispose of it correctly if any of these symptoms occur.

Responding to a Battery Fire

WARNING: A burning lithium-ion battery releases hazardous and potentially explosive fumes. Wear personal protective equipment when responding to a battery fire.

Use water only to extinguish a lithium-ion battery fire. Maintain the greatest possible distance from the fire. Powder extinguishers and fire blankets are not effective on lithium-ion battery fires. Nearby materials that have caught fire may be extinguished with any appropriate extinguishing agent.
Ensure adequate ventilation to allow hazardous fumes to disperse. Leave the area immediately if heavy smoke develops. Seek medical advice if respiratory irritation occurs. Alert the fire service before attempting to fight the fire.
If a battery does not cool down, is smoking or is burning: place the battery in a metal bucket filled with water using a non-flammable tool such as a shovel. Leave the battery submerged for at least 24 hours until completely cooled. Then handle it as a damaged battery (see above).

7) Cordless hammer drill / driver safety warnings

Safety instructions when using long drill bits

a) Never operate at higher speed than the maximum speed rating of the drill bit. At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
b) Always start drilling at low speed and with the bit tip in contact with the workpiece. At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
c) Apply pressure only in direct line with the bit and do not apply excessive pressure. Bits can bend causing breakage or loss of control, resulting in personal injury.

Additional safety instructions for drill/drivers

d) Use the auxiliary handle supplied with the power tool. Loss of control can cause personal injury.
e) Always hold the tool firmly with both hands on the grips provided. Keep the grips clean and dry.
f) Do not touch rotating parts — risk of injury.
g) Wear suitable protective glasses, a hard hat, ear protection, protective gloves and light respiratory protection while using the power tool.
h) Wear protective gloves when changing the tool. Touching the accessory tool can result in cuts and burns.
i) Immediately switch off the power tool if the accessory tool jams. The power tool might twist off-line.
j) Wait until the power tool stops completely before you lay it down.

k) Before beginning work, check the working area for concealed electric cables, gas pipes and water pipes. External metal parts of the power tool may give you an electric shock if you damage an electric cable accidentally.

l) Do not look directly into the LED light source of the product and do not aim the beam at other persons' faces. Risk of dazzling.

m) Risk of injury from falling tools and/or accessories. Before starting work, check that the battery and installed accessories are secure.

n) Keep the air vents clear at all times. Blocked air vents can cause overheating.

READ AND SAVE ALL INSTRUCTIONS FOR FUTURE USE.

Intended use

The machine is intended for driving in and loosening screws and bolts as well as for tightening and loosening nuts within the respective range of dimension.And it can be used to drill holes in wood, brick or metal. When drill the hole in the steel, let the machine in low speed (not full speed). Thus it can improve the drilling efficiency.

Technical specifications

Model	YG-DD1315
Battery voltage	20V(Max.)
No load speed	Normal: 0~400r/min(L) 0~1600r/min(H) Turbo:0~500r/min(L) 0~2000r/min(H)
Max. torque	150N.m
Chuck capacity	Φ 13mm
Max. drilling dia.	13mm (in steel)
Charger rating input	100-240V~
Standard accessories	Battery pack--2pcs Charger--1pc Bit(65mm)--1pc Belt buckle--1pc Screw M4x6--1pc Auxiliary handle--1set

Explanation of symbols

The rating plate on your tool may show certain symbols.

CE	Conforms to relevant safety standards.
	To reduce the risk of injury, user must read instruction manual.
MAX. 40°C	Ambient temperature 40° C max.
	Do not dispose of old appliances with domestic rubbish.
	Double insulation (Only for charger).
	Only use in closed rooms.
	Do not throw into water.
	Do not throw into fire.



1.Chuck 2.Torque selector collar
3.Mode selector 4.Speed selector
5.Auxiliary handle 6.Forward/reverse lever
7.Switch trigger 8.User Interface
9.Lighting lamp
10.Release latch for battery pack
11.battery display button 12.Battery pack

Operation instruction

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

Installing or removing battery pack



1. Always switch off the tool before insertion or removal of the battery pack. 2.To remove the battery pack, withdraw it from the tool while pressing the buttons on both sides of the cartridge. 3.To insert the battery pack, align the tongue on the battery pack with the groove in the housing and slip it into place. 4.Always insert it all the way until it locks in place with a little click. If not, it may accidentally fall out of the tool, causing injury to you or someone around you. 5.Do you use force when inserting the battery pack. If the battery pack does not slide in easily, it is not being inserted correctly.

Switch action

Caution:

Before inserting the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the “OFF” position when released.

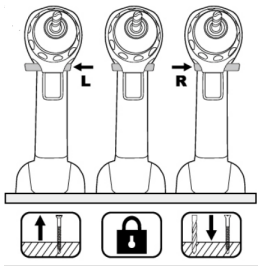


To start the tool, simply pull the switch trigger. Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop.

Electric brake

This tool is equipped with an electric brake. If the tool consistently fails to quickly stop after switch trigger release, have tool serviced at service center.

Reversing switch action



This tool has a reversing switch to change the direction of rotation. Depress the reversing switch lever from the R side for clockwise rotation or from the L side for counterclockwise rotation.When the reversing switch lever is in the neutral position, the switch trigger cannot be pulled.

CAUTION:

1.Always check the direction of rotation before operation.

2.Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.

3.When not operating the tool, always set the reversing switch lever to the neutral position.

Lighting up the front lamp

CAUTION:

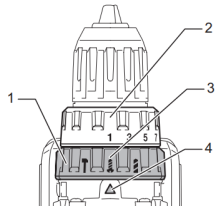
1.Do not look in the light or see the source of light directly. Pull the switch trigger to light up the lamp.The lamp keeps on lighting while the switch trigger is being pulled.

2.Use a dry cloth to wipe the dirt off the lens of lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.

Selecting the action mode

CAUTION: Always set the ring correctly to your desired mode mark. If you operate the tool with the ring positioned halfway between the mode marks, the tool may be damaged.

CAUTION: When you change the position from " " to other modes, it may be a little difficulty to slide the action mode changing ring. In this case, switch on and run the tool for a second at the " " position, then stop the tool and slide the ring to your desired position.



1.Action mode changing ring 2.Adjusting ring

3. Mark 4. Arrow.

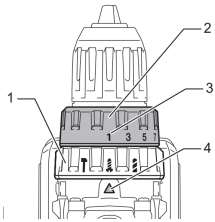
This tool has three action modes.

• Drilling mode (rotation only)

• Hammer drilling mode (rotation with hammering) • • Screw driving mode

(rotation with clutch) Select one mode suitable for your work. Turn the action mode changing ring and align the mark that you selected with the arrow on the tool body.

Adjusting the fastening torque



1.Action mode changing ring 2. Adjusting ring
3. Graduation 4. Arrow

The fastening torque can be adjusted in 20 levels by turning the adjusting ring. Align the graduations with the arrow on the tool body. You can get the minimum fastening torque at 1 and maximum torque at 20.

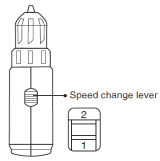
Before actual operation, drive a trial screw into your material or a piece of duplicate material to determine which torque level is required for a particular application. The following shows the rough guide of the relationship between the screw size and graduation.

NOTE:

1.The adjusting ring does not lock when the pointer is positioned only halfway between the graduations.

2.Do not operate the tool with the adjusting ring set between the number 20 and the marking. The tool may be damaged.

Speed change



To change the speed, first switch off the tool and then slide the speed change lever to the "2" side for high speed or "1" side for low speed. Be sure that the speed change lever is set to the correct position before operation. Use the right speed for your job.

CAUTION:

• Always set the speed change lever fully to the correct position. If you operate the tool with the speed change lever positioned halfway between the "1" side and "2" side, the tool may be damaged.

• Do not use the speed change lever while the tool is running. The tool may be damaged.

Indicating the remaining battery capacity



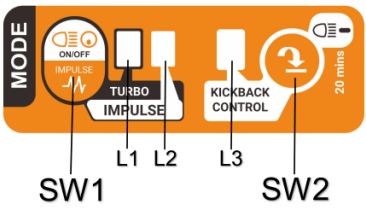
1.Indicator lamps 2.Check button

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for a few seconds。

Indicator lamps			Remaining capacity
Lighted	Off	Blinking	
■	□	◪	75% to 100%
■	□	◪	50% to 75%
■	□	◪	25% to 50%
■	□	◪	0% to 25%
◪	□	◪	Charge the battery.
■ ↑↓ □	□	◪	The battery may have malfunctioned.

NOTE: Please charge the battery after using each time, it is necessary to charge the battery per month if the machine is not use for a long time.

User Interface (Impact drill controller)



Function Description:

1.When the **SW1** switch is pressed once, the **L1** turns on/off, and the Turbo function turns on/off.

a).When the Turbo function is on: the motor runs at full speed.

b).When the Turbo function is off: the motor speed is reduced to 80%.

2.When the **SW1** switch is pressed once, the **L2** turns on/off, the ceramic tile mode turns on/off.

When **L2** is off: the motor speed is reduced to 80%.

When the **SW1** switch is pressed once:

L1 turns on→ **L2** turns on→**L1** and **L2** turn off

3.When the **SW1** switch is held down, **the lighting lamp** has three functions:

①Dim light. ②Strong light. ③Off.

Note: Without leaving the **SW1** switch with your finger, the above three modes are cyclically switched.

4.When the **SW2** switch is pressed once, the **L3** turns on/off, and the **anti-torsion function** turns on/off.

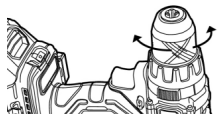
5.When **the lighting lamp** is on and the **SW2** switch is held down for one second, **the lighting lamp** turns on / off with a delay of 20 minutes.

Assembly

CAUTION:

Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

Installing or removing driver bit or drill bit



Turn the sleeve counterclockwise to open the chuck jaws. Place the driver bit/drill bit in the chuck as far as it will go. Turn the

sleeve clockwise to tighten the chuck. To remove the driver bit/drill bit, turn the sleeve counterclockwise.

Screwdriving operation

Place the point of the driver bit in the screw head and apply pressure to the tool. Start the tool slowly and then increase the speed gradually. Release the switch trigger as soon as the clutch cuts in.

Caution:Make sure that the driver bit is inserted straight in the Screw head, or the screw and/or bit may be damaged.

NOTE: When driving wood screws, predrill pilot holes to make driving easier and to prevent splitting of the workpiece.

Drilling operation

First, turn the adjusting ring, so that the pointer points to the 2 marking. Then proceed ad follows.

Drilling in wood

When drilling in wood, the best results are obtained with wood drills equipped with a guide screw. The guide screw makes drilling easier by pulling the bit into the workpiece.

Drilling in metal

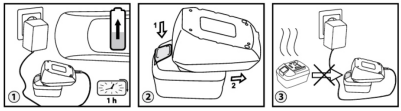
To prevent the bit from slipping when starting a hole, make an indentation with a center-punch and hammer at the point to be drilled.Place the point of the bit in the indentation and start drilling.Use a cutting lubricant when drilling metals. The exceptions are iron and brass which should be drilled dry.

CAUTION:

- Pressing excessively on the tool will not speed up the drilling.In fact, this excessive pressure will only serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.
- There is a tremendous force exerted on the tool/bit at the time of hole break through. Hold the tool firmly and exert care when the bit begins to break through the workpiece.
- A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly. Always secure small workpieces in a vise or similar holddown device.
- If the tool is operated continuously until the battery cartridge has discharged, allow the tool to rest for 15 minutes before proceeding with a fresh battery.

Charging

Before using the driver drill, charge the battery as follows.



1. Plug the battery charger into the proper AC voltage source.Insert the battery cartridge so that the plus and minus terminals on the battery cartridge are on the same sides as their respective marking on the charger.

2.When the battery cartridge is inserted fully, the charging light will change green with twinkling and charging will begin.The charging light will remain lit steadily during charging.

3.When the charging light changes from green twinkling to green, the charging cycle is complete.

4.After charging, unplug the charger from the power source.

CAUTION: The battery charger is for charging original battery cartridge.Never use it for other purposes or for other manufacturer's batteries.

1.When you charge a battery cartridge which is new or has not been used for a long period of time, it may not accept a full charge until after discharging it completely and recharging a couple of times.

2.If you charge a battery from a just operated tool or a battery which has been exposed to direct sunlight or heat for a long time, the charging light may lighten in red color. If this occurs, wait for a while. Charging will begin after the battery cool.

MAINTENANCE:

- Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.
- To maintain product SAFETY and RELIABLITY, repairs, any other maintenance or adjustment should be performed by Professional Service Centers, always using our replacement parts.

Recycling



Meaning of crossed –out wheeled dustbin: Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

Additional Personal Safety

Dust produced by drilling, driving and hammer drilling can contain dangerous chemicals. Some examples are: lead or lead-based paints; brick, concrete and other masonry products, natural stone and other products containing silicates; certain types of wood, such as oak, beech and chemically treated wood; asbestos or materials that contain asbestos. Assess the hazard classification of the materials to be worked. Implement the necessary measures to restrict exposure to a safe level.

If the product is used without a dust extraction device, a lightweight respiratory mask must be worn during dusty work. Certain kinds of dust are classified as carcinogenic such as oak and beech dust, especially in conjunction with additives for wood conditioning.

Take frequent breaks and do physical exercises to improve the blood circulation in your fingers. Exposure to vibration during long periods of work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.

During use of the product, the operator and persons in the vicinity must wear safety glasses, a hard hat and hearing protection.

Items supplied

Cordless hammer drill/driver, auxiliary handle, bit (65mm), belt buckle, screw M4x6, instruction manual. Verify that all items are present and undamaged before use.

Tool / Battery Protection System

The tool is equipped with an electronic system to protect against overloading and overheating. The tool switches off automatically in the event of overloading or overheating. After releasing the switch trigger, the tool may not restart immediately when the switch is pressed again (while the tool is cooling down).

Overload protection: When the battery is operated in a manner that causes it to draw an abnormally high current, the tool stops automatically. Turn the tool off and stop the application that caused the overload. Then turn the tool on to restart.

Overheat protection: When the tool is overheated, the tool stops automatically. Let the tool cool before turning the tool on again.

Overdischarge protection: When the battery capacity is insufficient, the tool stops automatically. Remove the battery from the tool and charge the battery.

Care of the Product

Carefully remove stubborn dirt from the tool. If air vents are present, clean them gently with a dry, soft brush. Use only a slightly

damp cloth to clean the housing. Do not use solvents or silicone-based cleaning agents as these may damage plastic parts. Use a dry, clean cloth to wipe the contacts of the tool.

Care of Li-ion Batteries

Never use a battery with blocked air vents; clean them carefully with a dry, soft brush. Keep the battery clean and free of oil and grease. Avoid unnecessary exposure to moisture. A battery that has been soaked should be treated as damaged. Isolate it in a non-flammable container.

Transport and Storage

Transporting the Tool and Batteries

CAUTION: Always remove the battery before transporting the tool.

Never transport batteries loose or unprotected. During transport, batteries must be protected from excessive shock and vibration, and isolated from conductive materials or other batteries that could contact the terminals and cause a short circuit. Comply with locally applicable regulations for transporting batteries.

Do not send batteries by post. Consult your shipping provider for instructions on sending undamaged batteries.

Before each use and before and after prolonged transport, inspect the tool and batteries for damage.

Storing the Tool and Batteries

WARNING: Always remove the battery from the tool before storage.

Store the tool and batteries in a cool, dry place. Observe the temperature limits stated in the technical data. Do not store batteries on the charger; always remove the battery when charging is complete.

Never leave batteries in direct sunlight, on heat sources or behind glass. Store the tool and batteries where they cannot be accessed by children or unauthorised persons. Before each use and before and after prolonged storage, inspect the tool and batteries for damage.

Troubleshooting

If the issue is not listed below or cannot be resolved, contact an authorised service centre.

Tool does not start:

- Check that the battery is fully charged and correctly inserted until it clicks. — Verify that the forward/reverse switch is not in the neutral (locked) position.

Tool runs but fastener does not turn:

- Check that the correct direction of rotation is selected. — Ensure the correct bit is installed and seated properly in the chuck.

No hammer action:

- Check that the action mode changing ring is set to the hammer drilling position. Ensure the mode ring is fully aligned with the mark.

Speed drops suddenly:

- The battery may be nearly discharged. Recharge or replace the battery. — If the battery drains faster than expected, the battery health may be declining.

Tool or battery becomes excessively hot:

- Switch the tool off immediately and remove the battery. Allow both to cool. Clean the air vents. If the problem persists, contact an authorised service centre.

Battery does not engage with an audible click:

- Clean the retaining mechanism on the battery and the housing. Re-insert the battery until it clicks securely. If the problem persists, consult service.

Battery discharges faster than usual:

- The battery may be too hot or too cold. Allow the battery to reach recommended working temperature. — Very low ambient temperatures reduce battery performance.

Environmental Protection and Waste Disposal

Do not dispose of power tools, electronic equipment or batteries as household waste.

WEEE (Directive 2012/19/EU)

The crossed-out wheeled bin symbol on the product, battery, or packaging means that this product and its battery must not be disposed of with general household waste. You are responsible for the correct disposal of this product and its battery at the end of its useful life. Return it to a designated collection point for the recycling of waste electrical and electronic equipment and batteries in accordance with local regulations.

For information on return and collection systems available in your area, contact your local authority, the retailer where you purchased the product, or the EU Authorised Representative named in this manual.

Battery Disposal (EU Battery Regulation 2023/1542/EU)

The battery pack must be removed from the tool before disposal and must be disposed of separately in accordance with Regulation (EU) 2023/1542. Do not dispose of the battery in fire or with household waste. Take exhausted batteries to an authorised collection or recycling point. The battery contains lithium-ion cells. Improper disposal may cause fire, explosion or environmental contamination. Cover the contacts with a non-conductive material to prevent short circuits before disposal. Do not send damaged batteries by post.

Additional Safety Requirements (EU)

Children and Vulnerable Persons

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children shall be supervised to ensure that they do not play with the appliance. This appliance is not a toy. Keep the tool and its accessories out of reach of children.

Dust Hazards (Directive 2004/37/EC, Directive 98/24/EC)

Some dust generated during use may contain hazardous substances. Always assess dust risks before use. Wear appropriate respiratory protective equipment (RPE) in accordance with EN 149 classification. Where exposure to crystalline silica dust is possible (e.g. when drilling brick, concrete or natural stone), use RPE rated FFP3 or higher. Ensure adequate ventilation.

Residual Risks

Even when this tool is used as intended and all safety instructions are followed, certain residual risks cannot be eliminated. These include: injury from touching hot surfaces; hearing damage from noise over extended periods of use; hand-arm vibration effects from prolonged use; eye injury from ejected particles; risk of the tool twisting suddenly if the bit jams in the workpiece. Always use appropriate personal protective equipment.

Statutory Consumer Rights (EU/EEA)

In addition to any commercial guarantee provided by the seller, consumers purchasing this product in the EU/EEA are entitled to a minimum statutory guarantee of two (2) years from the date of delivery of the goods, in accordance with Directive (EU) 2019/771 on the sale of goods. This statutory guarantee covers non-conformity of the goods existing at the time of delivery. Please retain your proof of purchase.

Online Dispute Resolution (ODR): The European Commission provides an online dispute resolution platform at: https://ec.europa.eu/consumers/odr

EU Declaration of Conformity

The manufacturer / EU authorised representative declares that this product is in conformity with the following EU directives and applicable harmonised standards.

Applicable EU Directives:

Machinery Directive 2006/42/EC

Electromagnetic Compatibility Directive 2014/30/EU

RoHS Directive 2011/65/EU (as amended by Directive 2015/863/EU)

WEEE Directive 2012/19/EU

Applied Harmonised Standards:

EN 62841-1:2015+A11:2022 (Electric motor-operated hand-held tools — Safety — General requirements)
EN 62841-2-1:2018+A11:2019+A1:2022+A12:2022 (Particular requirements for drill and impact drills)
EN IEC 63000 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances)
EN IEC 55014-1:2021 (Electromagnetic compatibility — Part 1: Emission)
EN IEC 55014-2:2021 (Electromagnetic compatibility — Part 2: Immunity)

Manufacturer: Zhejiang Jingli Tools Co., Ltd., No.18 Jinsan Road, Jinyanshan Industrial Area, Quanxi, Wuyi, Zhejiang, P.R. China (321200)
EU Authorised Representative: DOLABRO d.o.o., Agrokombinatska 82d, 1000 Ljubljana, Slovenia

Noise and Vibration Emission Data

(Required under Machinery Directive 2006/42/EC, Annex I, clause 1.7.4. Values measured in accordance with EN 62841-1 and EN 62841-2-1. Test report: WUJ-ESH-P24040483.)

Sound pressure level at operator position LpA = 80.8 dB(A), uncertainty K = 5 dB
Guaranteed sound power level LWA = 88.8 dB(A), uncertainty K = 5 dB
Hand-arm vibration emissions, drilling in metal (EN 62841-2-1): ah,D = 1.187 m/s², K = 1.5 m/s²
Hand-arm vibration emissions, impact drilling in concrete (EN 62841-2-1): ah,ID = 11.127 m/s², K = 1.5 m/s²
Hand-arm vibration emissions, screwdriving without impact (EN 62841-2-1): ah < 2.5 m/s², K = 1.5 m/s²

The values above were measured under standardised test conditions and may be used to compare tools. Actual exposure depends on how the tool is used, the material being worked, and the condition of the tool and accessories. Periods when the tool is switched off or running idle significantly reduce total exposure.
To reduce exposure to noise and vibration: maintain the tool and accessories in good condition, keep hands warm, organise work patterns to include regular breaks, and avoid prolonged continuous use. Extended exposure to high vibration can cause disorders of blood vessels and nerves in the hands and fingers. Take frequent breaks and perform hand exercises to promote blood circulation.