

# GAZELLE<sup>®</sup>

## GC2030

### Cordless Brushless Driver/ Hammer Drill User Manual



• Pictures of battery packs with different configurations vary in the illustration.

**EN**

Read through carefully and understand these instructions before use.

## 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 personal injury.

### Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### 1) Work Area Safety

- 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 anyway. 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 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 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 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 tool if switch does not turn it on or 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**

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 may create a risk of fire when used with another battery.
- b) **Use power tools only with specifically designated batteries.** Use of any other batteries may create a risk of injury and fire.
- c) **When battery 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 sparks, 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. NOTE The temperature „130 °C“ can be replaced by the temperature „265 °F“.
- 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..

#### Drill safety warnings

##### 1) Safety instructions for all operations

- a) **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.
- b) **Use the sidey handle(s).** Loss of control can cause personal injury.
- c) **Brace the tool properly before use.** This tool produces a high output torque and without properly bracing the tool during operation, loss of control may occur resulting in personal injury.
- d) **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring .** Cutting accessory contacting or fasteners a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

##### 2) 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.

#### Battery safety warning

- a) Do not dismantle, open or shred secondary cells or batteries.
- b) Keep batteries out of the reach of children Battery usage by children should be supervised. Especially keep small batteries out of reach of small children.
- c) Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- d) Do not short-circuit a cell or a battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- e) Do not subject cells or batteries to mechanical shock.
- f) In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious

- amounts of water and seek medical advice.
- g) Do not use any charger other than that specifically provided for use with the equipment.
  - h) Do not use any cell or battery which is not designed for use with the equipment.
  - i) Do not mix cells of different manufacture, capacity, size or type within a device.
  - j) Always purchase the battery recommended by the device manufacturer for the equipment.
  - k) Keep cells and batteries clean and dry.
  - l) Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
  - m) Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
  - n) Do not leave a battery on prolonged charge when not in use.
  - o) After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.
  - p) Retain the original product literature for future reference.
  - q) Use the cell or battery only in the application for which it was intended.

- r) When possible, remove the battery from the equipment when not in use.
- s) Keep the cell or battery away from microwaves and high pressure.
- t) Dispose of properly.

#### Symbol



WARNING



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



Do not burn



Do not charge a damaged battery pack



Li-Ion



Do not dispose of batteries. Return exhausted batteries to your local collection or recycling point.

## TECHNICAL DATA

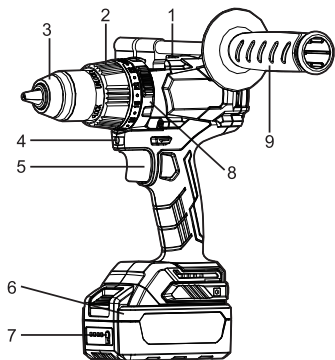
|                                  |            |           |       |
|----------------------------------|------------|-----------|-------|
| Model                            |            | GC2030    |       |
| Power Voltage                    | V $\equiv$ | 20        |       |
| Max. Chucking Capacity           | mm         | 13        |       |
| Max. Screw Dia.                  | mm         | 10        |       |
| No-load Speed                    | 1st gear   | /min      | 500   |
|                                  | 2nd gear   | /min      | 2000  |
| Impact Frequency                 |            | IPM       | 32000 |
| Max. Drilling Dia.               | Steel      | mm        | 13    |
|                                  | Brick Wall | mm        | 13    |
|                                  | Wood       | mm        | 45    |
| Torque Setting                   |            | 24+2      |       |
| Max. Torque                      | N·m        | 120       |       |
| Diameter of Drive Spindle Thread |            | 1/2-20UNF |       |
| Net Weight (Without batteries)   |            | kg        | 1.6   |

※Due to the continuing program of research and development, the specifications herein are subject to change without prior notice.

## INTENDED USE

This product is suitable for screwing in and out of screws under general environmental conditions, and can also be used for drilling operations on wood, plastic, metal, walls, etc.

## GENERAL DESCRIPTIONS



- |                          |                           |
|--------------------------|---------------------------|
| 1.Speed Selector         | 6.Battery Pack            |
| 2.Torque Presetting Ring | 7.Battery Indicator Light |
| 3.Drill Chuck            | 8.Mode Switch             |
| 4.LED Light              | 9.Auxiliary Handle        |
| 5.Switch Trigger         |                           |

## INSTRUCTIONS FOR OPERATION

### ● Installing or Removing Battery

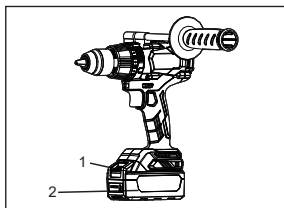
**Caution:** Always switch off the tool and set the reversing slider to the center position before install or remove the battery.

The battery pack is only partially charged when delivered. In order to ensure the maximum power of the battery, the battery pack must be fully charged in the charger before the first use.

#### 1.Installing battery pack

As below, when inserting the battery pack, pay attention to insert the battery pack into the housing correctly. Be sure to insert the battery pack until you hear the "click" sound, which means that the battery pack has been firmly installed on the tool. Otherwise, the battery pack will accidentally fall off the housing, causing injuries to the operator or others. Avoid inserting the battery pack with excessive force or tapping it in with the help of other objects.

**Caution:** Only the specified type of battery pack can be used. The use of battery packs of other brands carries the risk of injury, personal injury and property damage due to battery pack explosion.

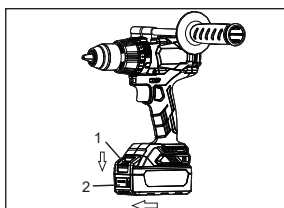


- 1.Battery Pack Button
- 2.Battery Pack

### 2. Removing battery pack

The battery pack is placed under the machine handle, press the battery pack button down in the direction of arrow, and then pull out the battery pack in the direction of arrow as shown in the figure.

**Caution:** Don't pull out the battery forcibly!

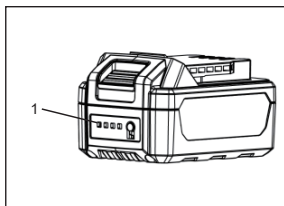


- 1.Battery Pack Button
- 2.Battery Pack

### ●Power Indicator Light

When the battery pack button is pressed or the tool is started, the light will display the power of the battery, indicated by the status of the four red LED lights (hereinafter referred to as red light).

| Status of Red LED Lights | Approx. Battery Power Left |
|--------------------------|----------------------------|
| 4 lights lit             | 75%-100%                   |
| 3 lights lit             | 50%-75%                    |
| 2 lights lit             | 25%-50%                    |
| 1 light lit              | 10%-25%                    |
| 1 light flashed          | Battery low                |



- 1.battery indicator Light

### ●Continuous Use

If the tool is operated continuously until the battery has discharged, allow the tool to rest for 15 minutes before proceeding with a fresh battery.

### ●Over-discharge Protection

The tool is equipped with a protective circuit to protect the battery against over-discharging. When

the battery is near to be empty, the protective circuit actuates to switch off the tool.

### ●Disposal of Battery

To protect natural resources, please recycle or dispose of batteries properly. The battery contains lithium. Consult your local authority for information on recycling and/or disposal. Remove the battery after it has run out of power and wrap the pole port with strong tape to avoid short circuit and leakage. Any attempt to open or remove any component is strictly prohibited.

## INSTRUCTIONS FOR OPERATION

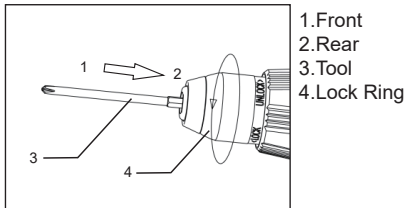
### ●Installing or Removing Tool

The tool here includes driver bit, twist drill, etc., which differs from the concept of power tools or machines.

**Caution: Before operation, always set the reversing switch lever in the center position and remove the battery. And press the switch button is absolutely prohibited.**

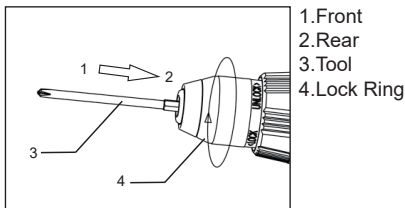
#### 1. Installing Tools

Insert the tool, turn the lock ring of the drill chuck clockwise (viewed from the front of the machine), and tighten the tool.



#### 2. Removing Tools

Turn the lock ring of the drill chuck counterclockwise (viewed from the rear of the machine) and remove the tool.



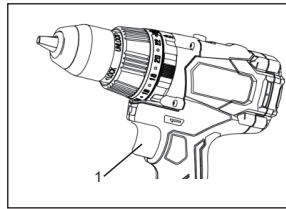
### ●Switch Operation

To start the machine, just press the switch button, the speed of the machine increases with the pressure of pressing the switch button, and the machine stops when the switch button is released.

**Cautions: Before inserting the battery into the tool, always check to see that the switch trigger**

**actuates properly and returns to the "OFF" position when released.**

**Do not operate at low speed for a long time, otherwise the machine may be overheated.**



1. Switch Button

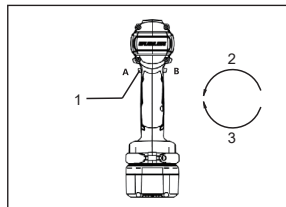
### ● Reversing Switch Action

Forward/Clockwise rotation: Depress the reversing switch lever from side B to side A for clockwise rotation for drilling and driving in screws (viewed from the rear of the tool).

Reverse/Counterclockwise rotation: Depress the reversing switch lever from side A to side B for counterclockwise rotation for loosening or unscrewing screws (viewed from the rear of the tool).

**Caution: Always check the direction of rotation before operation. Operate 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. When not operating the tool, always set the reversing switch lever to the center position. Never force to push the switch trigger while the reversing switch lever is set at the center position.**



### ●Speed Selection

To shift the gear, first turn off the machine, put the reversing switch lever in the center position (lock switch), and then shift the speed selector to "1" (low speed) or "2" (high speed). Be sure to put the speed selector in the correct position before using it. Choose the right speed for your job.

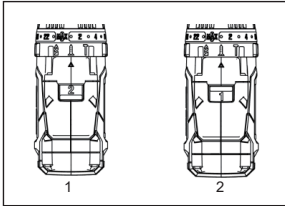
**CAUTION:**

**1. Always keep the speed selector in a proper position. Set the selector in a position between the "1" and the "2" may cause damage to the tool while in operation.**

**2. Shift operation can be carried out only after the machine stops completely. Do not push**

the speed selector when the machine is running. Otherwise it may cause damage to the machine.

3. If PCM protection of the tool actuates frequently to switch off the motor while setting the selector in the “2” side for high speed, reset the selector in the “1” side for low speed to continue your operation.
4. If speed selector cannot be switched due to the crash of the gear tooth, softly press the switch trigger to run the motor and then shift the speed.

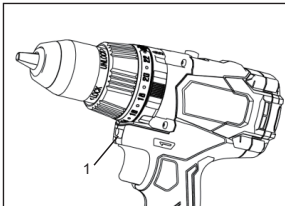


- 1.High Speed
- 2.Low Speed

#### ● Floodlight



The white floodlight will be lit when push the switch button, allows for illumination of the work area under unfavorable lighting conditions.

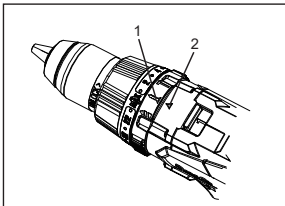
If battery is running out, the white floodlight will flicker about twice or thrice; stop for one second and then flicker 2 or 3 times, which is a cycle.



- 1.Led Light


#### ● Operation Mode

Select hammer mode to realize hammer function, drill mode to realize drilling or other heavy load operation, screw mode to realize elastic screw. Turn the torque setting ring to align the symbol  or  with the indicated arrow and hear the “click” sound.





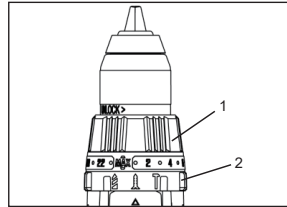
- 1.Function Symbol
2. Indicated Arrow

#### ● Torque Setting

When the mode switching sleeve is in the position , the torque force should be adjusted by turning 24



gears of torque switch sleeve to adjust the tightening torque. The calibration and indicating arrow should be aligned during adjustment. The smaller the number is, the smaller the torque will be. At the same time, the clutch will trip according to the different torque.

**Caution:** At  or  Position, the clutch will not trip, so use the auxiliary handle and pay attention to safety.



- 1.Torque Setting Ring
- 2.Mode Switching Sleeve

#### ● Drilling Operation

Align the “” symbol with the indicated arrow when performing drilling operation. 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. When 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. When drilling on bricks, walls and stones, the symbol  shall be aligned with the indicated arrow, the drill bit shall be vigorously pressed against the working object, and the impact drilling can be carried out by pressing the switch.

#### 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.**

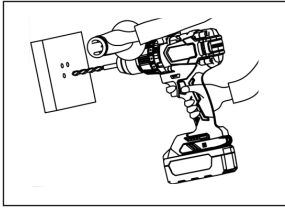
**There is a tremendous force exerted on the tool/bit at the time of hole break through. Hold the tool firmly and extra care when the bit begins to break through the workpiece.**

**A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back off. However, the tool may back off abruptly if you do not hold it firmly.**


**Always secure small workpieces in a vise or similar clamp device.**

**It is recommended to set the speed to the “1” side to drill the hole whose diameter is larger than 10mm.**

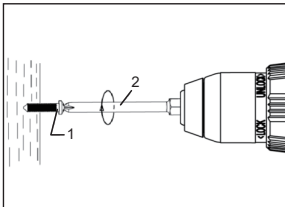




● **Tighten screws**

Adjust mode switching sleeve to the position , place the tip of the driver bit on the screw head and apply appropriate pressure to the machine. Start the machine slowly, then gradually increase the speed. Release the switch button as soon as the clutch is closed.

**Caution: Set the gear position at the low speed. Make sure that the driver bit is inserted vertically in the bolt head, or the bolt or the bit may be damaged. Please choose suitable torque according to your operational need.**



1.Screw  
2.Driver Bit

When tightening wood screws, drill a center hole first to make tightening action much easier and to prevent workpiece from sliding. Please refer to the following table:

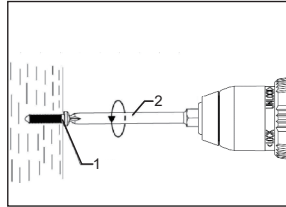
| Nominal Diameter of Wood Screw(mm) | Recommended Size of Center Hole(mm) |
|------------------------------------|-------------------------------------|
| 3.1                                | 2.0-2.2                             |
| 3.5                                | 2.2-2.5                             |
| 3.8                                | 2.5-2.8                             |
| 4.5                                | 2.9-3.2                             |
| 4.8                                | 3.1-3.4                             |
| 5.1                                | 3.3-3.6                             |
| 5.5                                | 3.7-3.9                             |
| 5.8                                | 4.0-4.2                             |
| 6.1                                | 4.2-4.4                             |

● **Loosen screws**

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. Once the bolt is taken out, release the switch trigger.

**Caution: Set the gear position at the “1” (low speed). Make sure that the driver bit is inserted vertically in the bolt head, or the bolt or the bit**

**may be damaged. Please choose suitable torque according to your operational need.**



1.Screw  
2.Driver Bit

● **Spindle Lock**

If the switch button is not pressed, the spindle is locked. Therefore, even if the battery pack is dead, you can use this machine to screw the screws. That is, the machine can also be used as a manual tool.

● **Overload Protection**

The motor stops rotating when overload occurs during operation. To restart the machine, first release the switch button to reset the switch, and then turn on the switch.

## INSPECTION AND MAINTENANCE

● **Inspection**

When the machine is sent out or taken back, the custodian must make a routine inspection; Before use, the user must carry out daily inspection; The unit using the machine must have full-time personnel to carry out regular inspection; Check at least once a year; The inspection period should be shortened correspondingly in hot and humid areas with frequent temperature changes or in places with poor working conditions; It should be checked in time before the plum rain season.

If the machine passes the regular inspection, the inspection “Qualified” sticker should be pasted on the appropriate part of the machine. The “Qualified” mark should be distinct, clear and correct and at least include: machine number, name or mark of inspection unit, name or mark of inspection personnel, date of validity.

● **Maintenance**

Always adjust the forward reverse switch to the center position when servicing the power tool, replacing the tool on the power tool, or carrying the power tool.

The maintenance of the machine must be carried out by a maintenance unit approved by the original production unit. The user and the maintenance department shall not modify the original design parameters of the machine at will, and shall not use substitute materials that are lower than the performance of raw materials and spare parts that do not conform to the original specifications.

## MAINTENANCE AND CARE

### ● Storage

Please pull out the battery pack when it is not in use. Store and keep the battery away from other metal objects, such as paper clips, coins, keys, nails, screws or other small metal objects, so as to prevent one end of the battery pack from connecting with the other end. A short circuit at the end of the battery pack may cause combustion or ignition.

### ● Clean the air vents

The air inlet and air outlet of the tool should be cleaned regularly or at any time when it is blocked.

### ● Check the mounting screws

Should always check whether mounting screw fastening safely. If found loose screws, shall be immediately to tighten, so as to avoid an accident.

### ● Clean

Do not use liquid such as water or chemical cleaning agent to clean the machine. Wipe the body of the tool with a dry cloth. Keep the handle dry and clean to avoid oil and grease pollution.

### For battery tools:

Ambient temperature range during operation and storage: 0 C - 45 C .

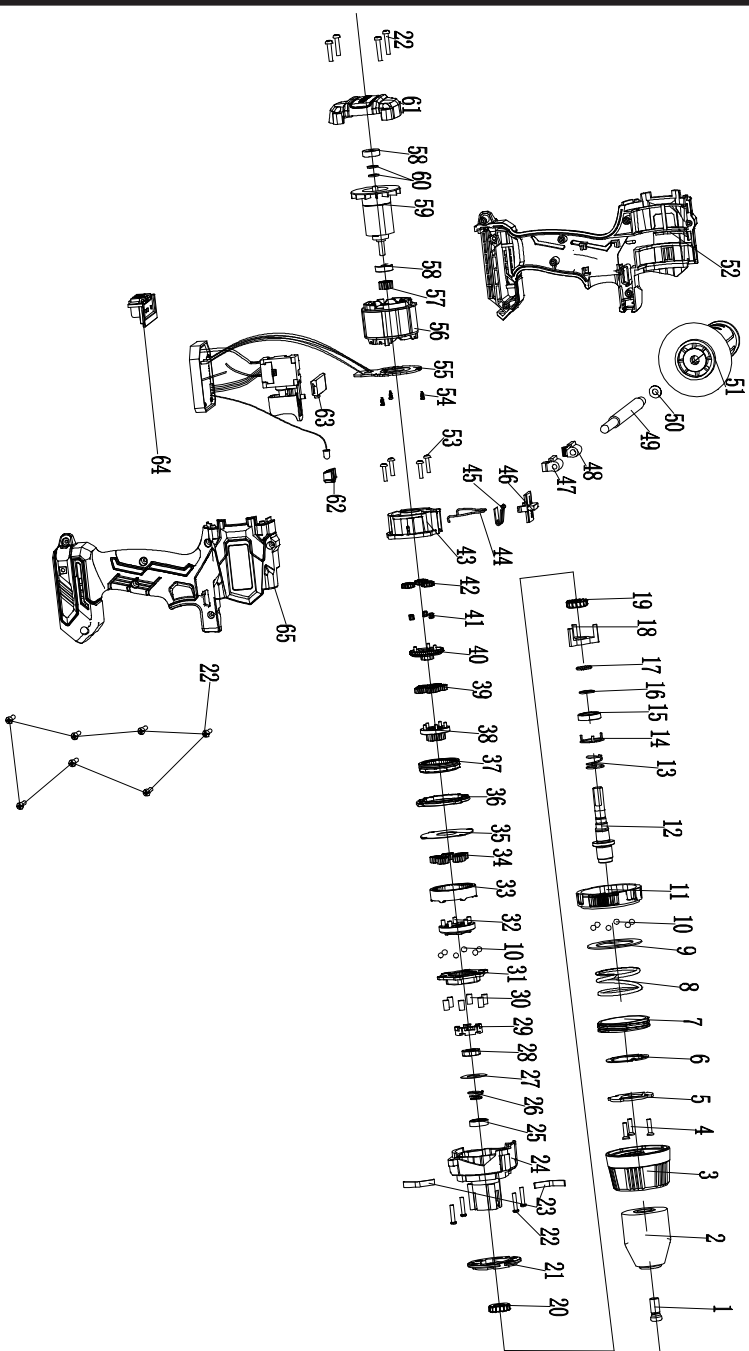
Recommended ambient temperature range during charging: 5 C - 40 C .

|       | Charger          | Battery Pack               |
|-------|------------------|----------------------------|
| Model | GC1000<br>GC1001 | GC1020<br>GC1040<br>GC1050 |

## EXPLANATION OF GENERAL VIEW

|    |                                       |    |                                |
|----|---------------------------------------|----|--------------------------------|
| 1  | Hexagon Socket Head                   | 27 | Washer                         |
| 2  | Drill Chuck                           | 28 | Lock Plate                     |
| 3  | Torque Adjusting Cup                  | 29 | Torque Pin                     |
| 4  | Cross Recessed Countersunk Head Screw | 30 | Guide Roller                   |
| 5  | Stopper Plate                         | 31 | Ring                           |
| 6  | Torque Setting Audio Piece            | 32 | Output Disc                    |
| 7  | Adjusting Nut                         | 33 | Inner Gear                     |
| 8  | Clutch Spring                         | 34 | Satellite Gear                 |
| 9  | Encircling Ring                       | 35 | Washer                         |
| 10 | Mode Switch Cup                       | 36 | Stopper Ring                   |
| 11 | Drive Spindle                         | 37 | Inner Gear                     |
| 12 | Hammer Spring                         | 38 | Fluted Disc Assembly           |
| 13 | Bearing Retainer                      | 39 | Satellite Gear                 |
| 14 | Bearing Baffle                        | 40 | Fluted Disc                    |
| 15 | Deep Groove Ball Bearing              | 41 | Needle Bearing                 |
| 16 | Flatwire Snap Ring for Shaft12        | 42 | Satellite Gear                 |
| 17 | Steel Ball                            | 43 | Rear Casing of Gear Housing    |
| 18 | Bracket                               | 44 | Speed Change Level             |
| 19 | Dynamic Ratchet                       | 45 | Stopper Clips                  |
| 20 | Static Ratchet                        | 46 | High and Low Speed Push Button |
| 21 | Mode Switch Plate                     | 47 | Clamping Block 2               |
| 22 | Pan Head Tapping Screw                | 48 | Clamping Block 1               |
| 23 | Mode Switch Audio Piece               | 49 | Clamp Lever                    |
| 24 | Front shell of Gear Housing           | 50 | Washer                         |
| 25 | Deep Groove Ball Bearing              | 51 | Auxiliary Handle               |
| 26 | Spring                                | 52 | Left-Half Handle               |

|    |                                 |    |                        |
|----|---------------------------------|----|------------------------|
| 53 | Quincunxes Fillister Head Screw | 62 | LED Shade              |
| 54 | Pan Head Tapping Screw          | 63 | Reversing Switch Lever |
| 55 | Control Panel Assembly          | 64 | Battery Socket         |
| 56 | Stator                          | 65 | Right-Half Handle      |
| 57 | Driving Gear                    |    |                        |
| 58 | Ball Bearing                    |    |                        |
| 59 | Armature                        |    |                        |
| 60 | Bearing Shim                    |    |                        |
| 61 | Rear Cover                      |    |                        |







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