

GAZELLE®

GC2000 Cordless Brushless Driver Drill User Manual



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

GENERAL POWER TOOL SAFETY

WARNINGS

 **WARNING!** Read and understand all instructions. 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 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 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

Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring or its own cord. *Cutting accessory or fasteners contacting 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.

TECHNICAL DATA

Rated Voltage (V \equiv)		20
No-Load Speed (/min)	Gear 1	0-550
	Gear 2	0-2000
Max. Drilling Dia. (mm)	Steel	Φ 13
	Wood	Φ 38
Net Weight (whitout battery) kg		1.3

Symbol



WARNING



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



Always wear eye protection



Li-Ion



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



Do not burn



Do not charge a damaged battery pack

Intended use

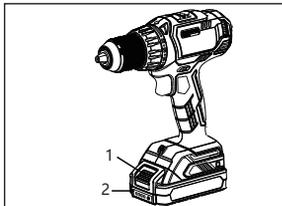
- Driving in and loosening screws.
 - Drilling in wood, metal and plastic.
- a) Instructions for putting into use
- 1) Setting-up or fixing power tools in a stable position as appropriate for power tools which can be mounted on a support or fixed to a bench or the floor;

Installing the Battery

NOTE:

The battery is supplied partially charged. To ensure full capacity of the battery, completely charge the battery in the battery charger before using the tool for the first time.

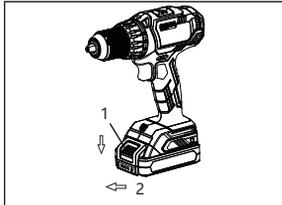
To install the battery firmly, insert it properly all the way until it locks in place with a little click. If not, it may accidentally fall out of the tool, causing injury to you or someone around you. Avoid overexerting or hammering the battery into the motor housing with the help of other objects.



1. Battery Pack Button
2. Battery Pack

Removing the Battery

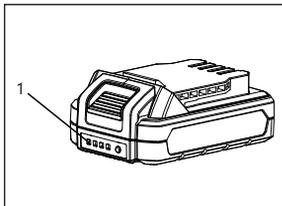
To remove the battery, press the unlocking buttons on both sides of the battery and pull out the battery downwards.



1. Press The Battery Pack Button In The Arrow Direction
2. Remove The Battery Pack

●Battery Indicator

The four charging lights may flash in red color if the tool is overheated or overloaded. As temperature recovers or over-load protection is removed, press the switch and the tool can be **started normally**. Current power of the battery will be indicated by the battery indicator when pressing the battery button or switching on the tool. Four red LED lights are set to indicate the battery power which can be referred to the following table.



1. Battery Indicator 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 extinguished	Low level

●Continuous Use

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

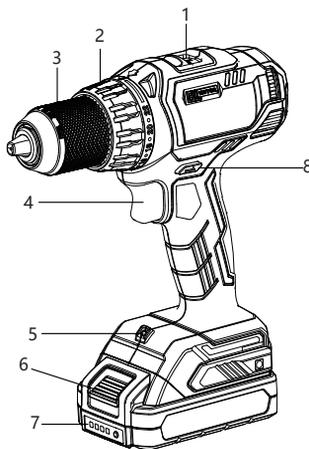
●Over Discharge Protection

This machine is equipped with an over discharge protection circuit. When the battery is low, the protection circuit will be opened and the machine will stop rotating.

●Disposing of Battery Cartridge

Lithium ion battery is contained in the battery cartridge. For environmental protection, recycle or dispose of the worn out battery properly. Please consult with your local relevant departments about how to recycle and/or dispose of the worn out battery.

GENERAL DESCRIPTIONS



1. Speed Selector button
2. Torque Presetting Ring
3. Drill Chuck
4. Switch Trigger
5. LED Light
6. Battery Pack
7. Battery Indicator Light
8. Reversing Switch Lever

●Installing or Removing Tool

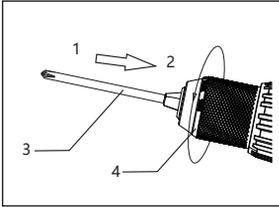
The tool here includes driver bit, drill bit, etc, which differs from the concept of power tools or machines.

CAUTION:

Before operation, always set the reversing switch lever in the central position and remove the battery. Mustn't press switch trigger.

1. Installing instrument

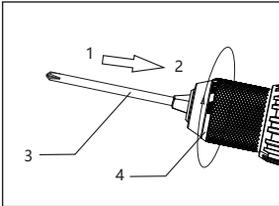
Hold the ring and turn the sleeve counterclockwise to open the chuck jaws. Place the bit in the chuck as far as it will go. Hold the ring firmly and turn the sleeve clockwise to tighten the chuck (view backwards).



- 1.Front
- 2.Back
- 3.Instrument
- 4.Ring

2. Removing instrument

To remove the bit, hold the ring and turn the sleeve counterclockwise (view backwards).



- 1.Front
- 2.Back
- 3.Instrument
- 4.Ring

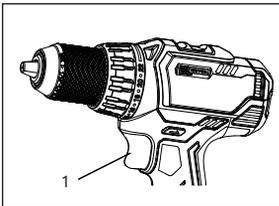
•Switch Action

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.

•Do not operate the machine at a low speed for too long, or the inside machine may be overheated

To start the tool, simply pull switch trigger. Tool speed is increased by increasing pressure on the switch trigger and further pressure results in an increase in speed. Release the switch trigger to switch off the tool.



- 1.Switch Button

•Reversing Switch Action

CAUTION:

•Always check the direction of rotation before operation.

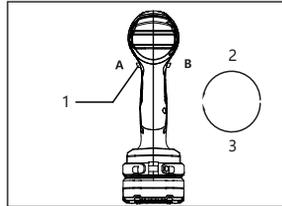
•Use the reversing switch lever only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool. When not operating the tool, always set the reversing switch lever to the neutral position.

•Never force to pull the switch trigger while the reversing switch lever is set to the center position.

Clockwise Rotation

Depress the reversing switch lever from side B to side A for clockwise rotation for drilling and driving in screws (view forwards).

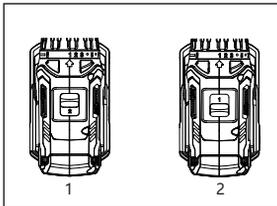
Depress the reversing switch lever from side A to side B for counterclockwise rotation for loosening or unscrewing screws.



- 1.Reversing Switch Lever
- 2.Counterclockwise
- 3.Clockwise

•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.



- 1.High Speed
- 2.Low Speed

CAUTION:

1.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.

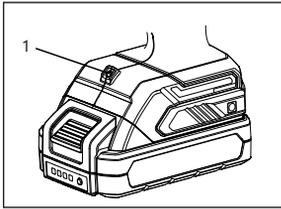
2.Do not use the speed change lever while the tool is running. The tool may be damaged.

3.If frequent protection actions of fender occur when using the tool at the high speed, the motor will stop running, position the change lever to the “1” side for continuous operation.

4.If speed change lever cannot be switched due to the crash of the gear tooth, softly press the switch trigger to run the motor and then change the speed.

• Work Light

The white LED work light will be lit after pulling the switch trigger for illumination of the work area under unfavorable lighting conditions.

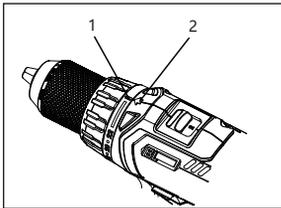


1.LED Light

If battery is running out, the white LED will flicker about once a second; if the machine is overheated, the white LED will flicker about twice a second.

●**Operating 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 mode switch cup to align the digital  with the indicated arrow and hear the “click” sound.



1.Function Sign
2.Indicating Arrow

●**Torque Setting**

CAUTION:

At  Position, The clutch will not trip, so use the auxiliary handle and pay attention to safety.

The torque force of the cup should be adjusted by turning 22 gears 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.

●**Drilling Action**

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 break-through. Hold the tool firmly and exert care when the bit begins to break through the work piece.

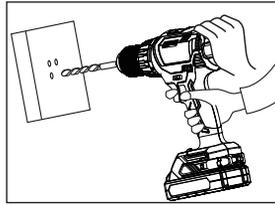
●A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly.

●Always secure small workpieces in a vise or similar hold down device.

●Position the speed change lever to the “1” side to drill the hole whose diameter is larger than 10mm.

Align the marketing  and indicating arrows for normal drilling operations. When drilling in boards, good drilling results can be obtained using a wooden

drill with a leading screw. This lead screws allow the bit to drill the workpiece more easily. When drilling in metal, to prevent the bit from slipping, a sharp punch and hammer can be used to make a mark in the metal plate where the desired hole is drilled. The drill tip is then aligned with the mark for drilling operation

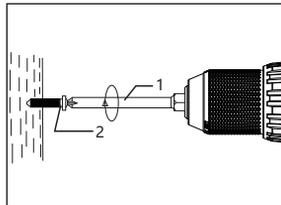


●**Tightening Bolt**

CAUTION:

- 1.Set the tap position at the low speed.
2. Make sure that the driver bit is inserted vertically in the bolt head, or the bolt or the bit may be damaged.
3. Please choose suitable torque according to your operational need.

When the torsion adjusting cup is set to the “ number” position, place the tip of the batch head on the screw head and apply appropriate pressure to the machine. Start the machine slowly, then gradually increase the speed. Release the switch button immediately when the clutch is engaged.



1.Bit
2.Bolt

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 sheet:

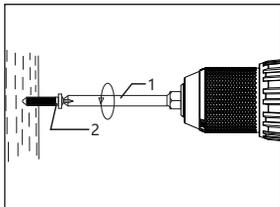
Nominal Diameter of Wood Screw (mm)	Recommended Size of Center Hole (mm)
3.1	2.0-2.2
3.5	2.2-2.5
3.8	2.5-2.8
4.5	2.9-3.2
4.8	3.1-3.4
5.1	3.3-3.6
5.5	3.7-3.9
5.8	4.0-4.2
6.1	4.2-4.4

●**Removing Bolt**

To remove the bolt, hammer the point of the driver bit at the bolt head and force the tool properly. Switch on the tool slowly and then speed it up gradually. Once the bolt is taken out, release the switch trigger. (Fig M)

CAUTION:

Please put the gear in “1” (low speed): Make sure the head is inserted vertically into the screw head, otherwise the screw or the head may be damaged. Please select the appropriate torque according to your work needs.

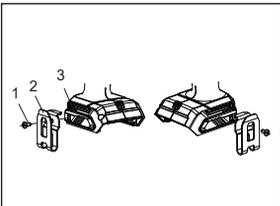


1. Drive Bit
2. Bolt

•Hook Installation

CAUTION:When installing the hook, be sure to fix it with screws. Otherwise, the hook may be detached from the tool, causing life harm.

Hooks facilitate temporary suspension of tools and can be mounted on either side of the tool. To install the hook, insert it into a groove on the first side of the tool housing and secure it with screws. To unscrew the hook, loose the screw and take it out.



1. Screw
2. Hook
3. Groove

not allowed to change original parameter of the tool, or adopt alternate materials whose performance is lower than original ones or spare parts that do not correspond to the specifications.

Cleaning Ventilation Slots

For safe and proper working, always keep the power tool and its ventilation slots clean. Use a soft, clean and dry brush to clean the ventilation slots regularly or when they're clogged.

Inspecting the Mounting Screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.

Cleaning

Only use soft and dry cloth to wipe the body of the tool. Do not clean the tool with wet cloth, thinner, gasoline or other volatile solvents.

*To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by authorized service centers, always using original replacement parts.

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	GC1001	GC1040 GC1020

MAINTENANCE AND INSPECTION

Inspecting

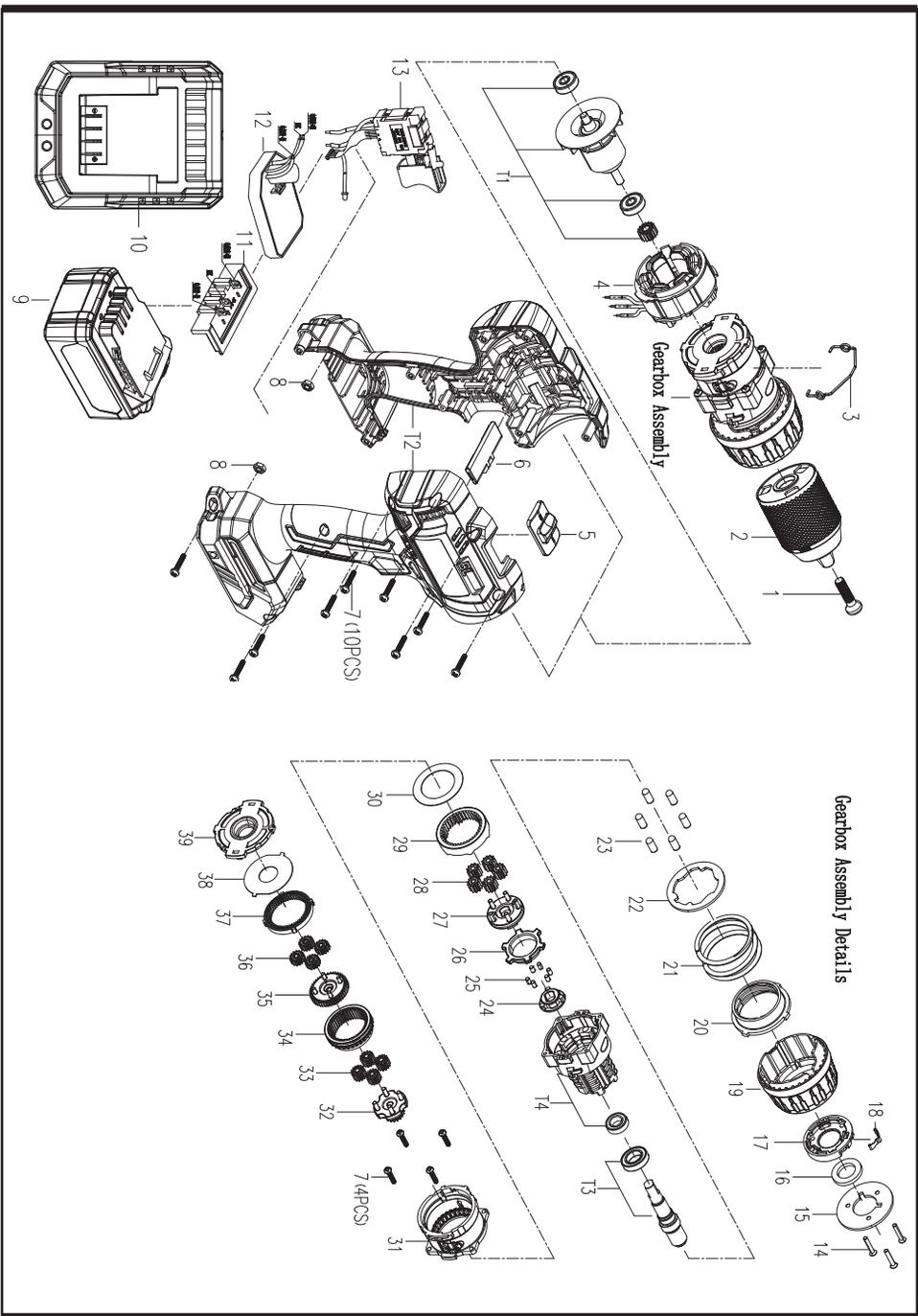
When the tool is distributed or withdrew, the custodial staff must give it a daily inspection; before use, users must give it a daily inspection; the companies using the tool must have professionals to inspect the tool regularly; Inspection cycle should be shortened in the area of humid climate and changeable temperature or under poor using conditions; Inspect in time before rainy season.

The tool that is inspected to be qualified should be marked with a sticker on which there are words “identifier, name or identification of the inspecting company, name or identification of the inspector and effective date.

The tool must be maintained by maintenance companies recognized by original manufacturer. The end-users and maintenance departments are

EXPLANATION OF GENERAL VIEW

1	Pan Head Screw M6×20	27	Planet Carrier III
2	13Mm Chuck(Weida)	28	Planet Gear III
3	Shift Wire	29	Inner Gear III
4	Stator	30	Front Gear Case Washer
5	Speed Control Push Button	31	Rear Gear Case
6	Reversing Switch Lever	32	Sun Gear III
7	Pan Head Tapping Screw ST2.9×16	33	Planet Gear II
8	Nut M4 (Model I)	34	Inner Gear II
9	Battery Pack	35	Sun Gear II
10	Charger	36	Planet Gear I
11	Terminal Block	37	Inner Gear III
12	PCBA Assembly	38	Rear Gear Case Washer
13	Switch Assembly	39	Gear Case Cover
14	Cross Recessed Countersunk Hex Screw	T1	Rotor Assembly
15	Adjusting Sleeve Pressure Plate	T2	Housing Set
16	Wool Felt	T3	Shaft Assembly
17	Front Gear Case Cover	T4	Front Gear Box Assembly
18	Click Spring Plate		
19	Torque Presetting Ring		
20	Torque Setting Nut		
21	Torque Setting Spring		
22	Torque Washer		
23	Ball Head Φ5x11.5		
24	LOCK CAM		
25	PIN 3.03X5		
26	Locking Ring		



Gearbox Assembly Details

Gearbox Assembly

INNOVATION
PERFORMANCE
SAFETY
CONFIDENCE
GAZELLE

GAZELLE

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