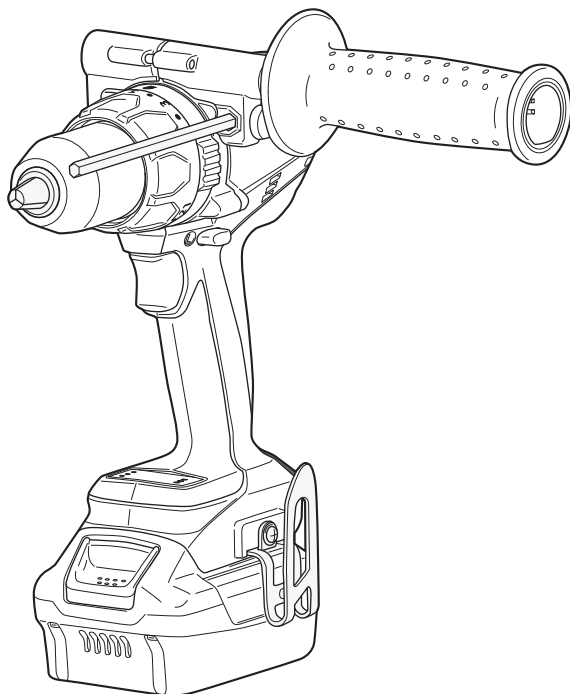
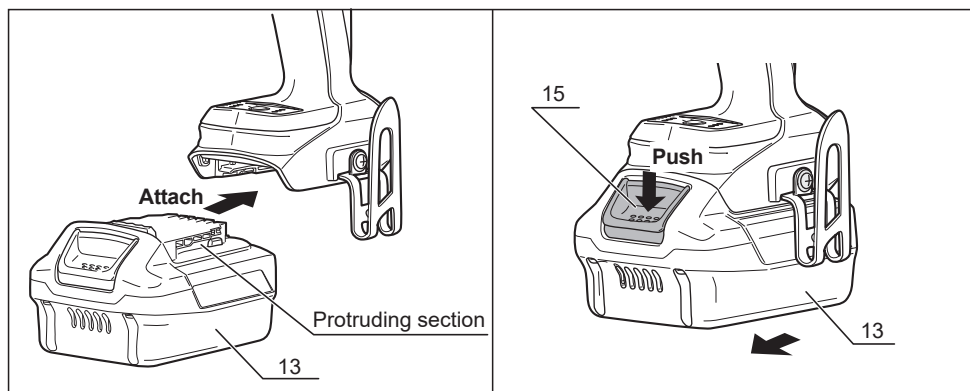
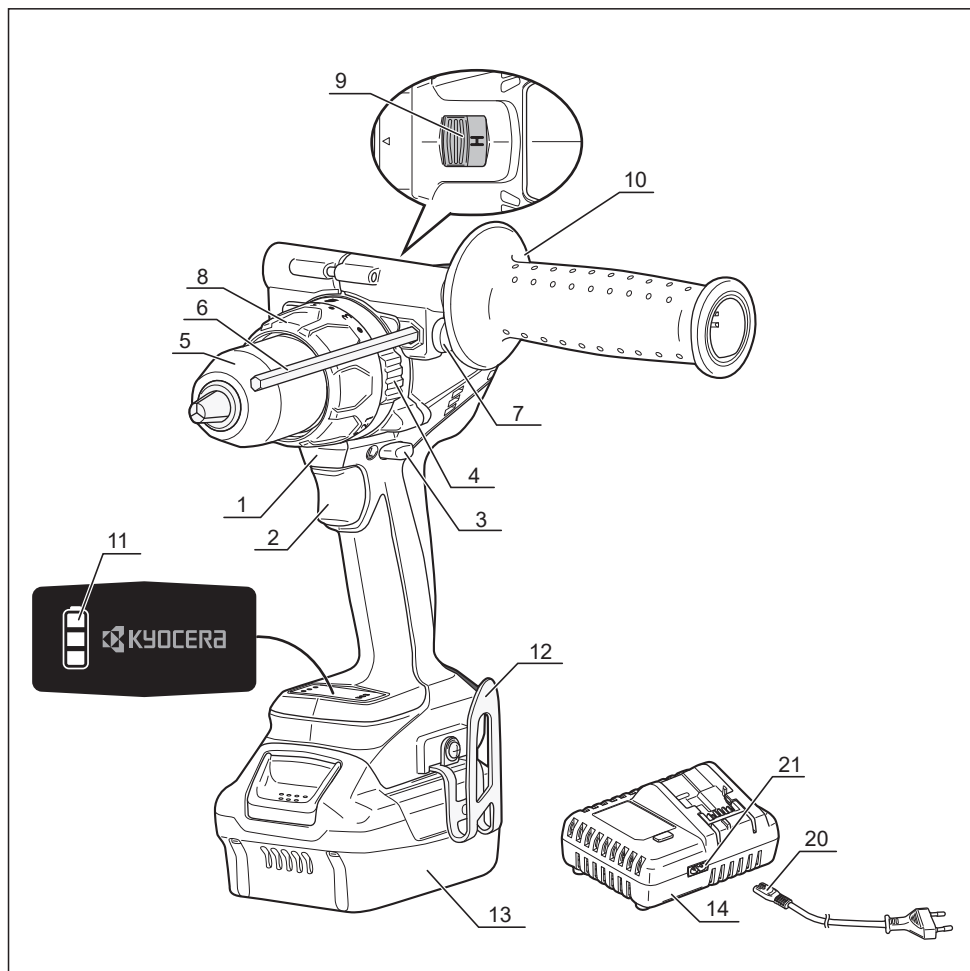
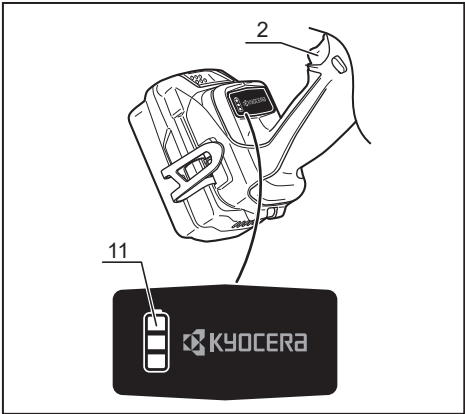


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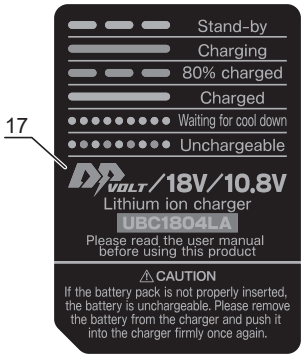
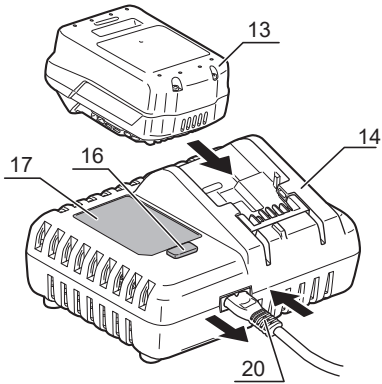
GB OWNER'S OPERATING MANUAL







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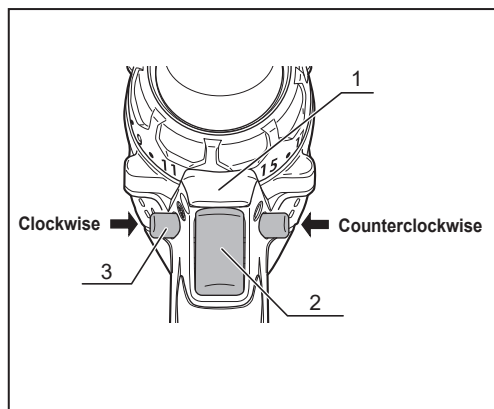


Lamp display

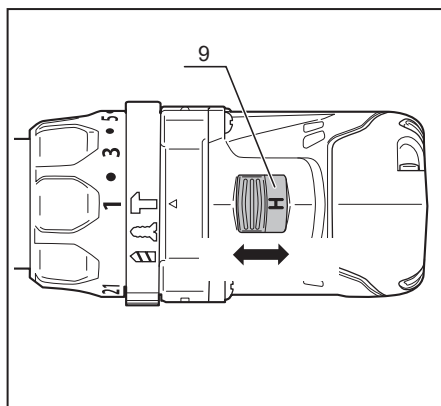
Table 1

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

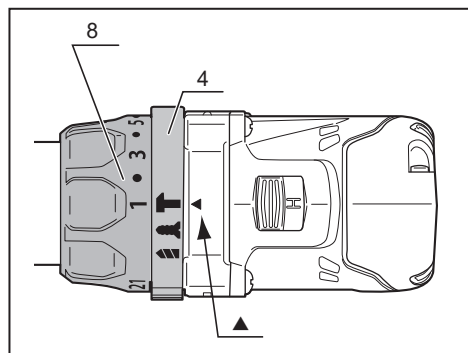
- Battery packs that have been purchased for the first time or have been stored for a long time may take longer to charge.
- The lamp might indicate inappropriately if the battery is not inserted properly.



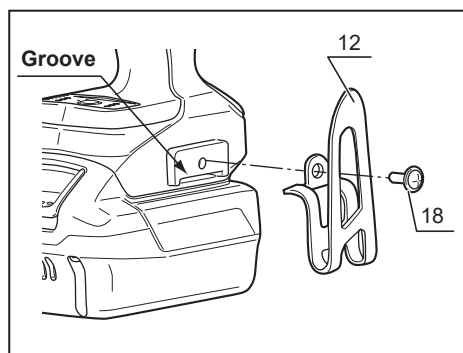
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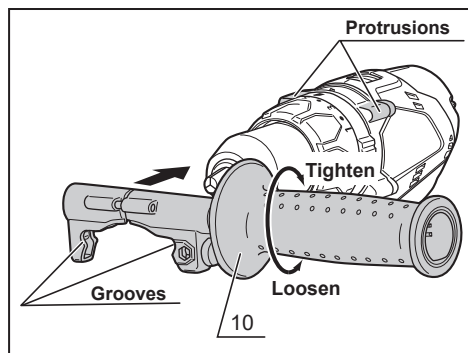
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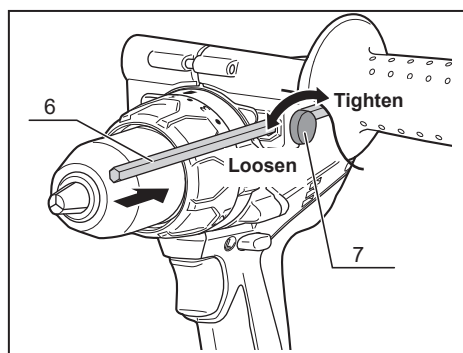
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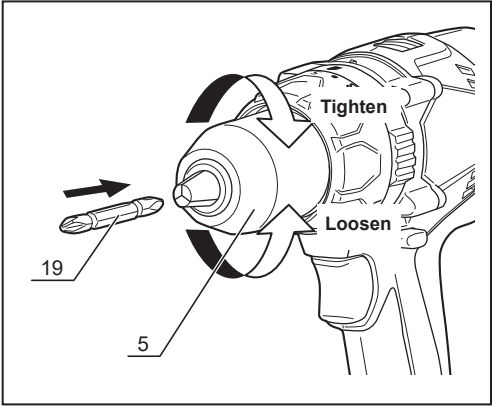
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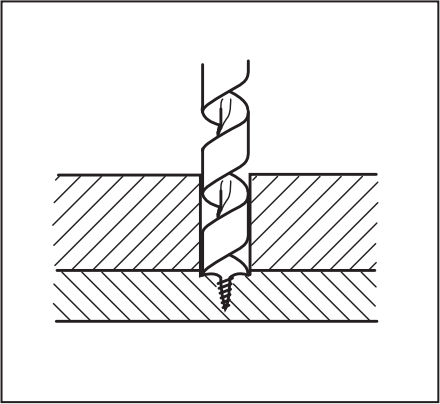
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THANK YOU FOR BUYING OUR PRODUCT.

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

General power tool safety warnings

⚠ WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your 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 the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Battery tool use and care

- a) **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.



- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
 - e) **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury
 - f) **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
 - g) **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.
- 6) Service**
- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
 - b) **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

1) SAFETY INSTRUCTIONS FOR ALL OPERATIONS

- a) **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.
- b) **Use the auxiliary handle(s).** Loss of control can cause personal injury.
- c) **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory 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.

INSTRUCTIONS FOR SAFE HANDLING

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

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

DISPOSAL OF THE EXHAUSTED BATTERY

Li-ion batteries must be recycled.

Take the battery to the shop from which it was purchased as soon as battery life becomes too short for practical use.

Do not discard the exhausted battery.

DESCRIPTION

1. LED
2. Trigger
3. Forward / Reverse switch
4. Mode Selection Ring
5. Keyless chuck
6. Stopper pole
7. Stopper Pole Fixing Bolt
8. Torque Adjustment Ring
9. Speed selector
10. Auxiliary handle
11. Battery level indicator
12. Belt hook
13. Battery pack
14. Charger
15. Push button
16. Charger lamp
17. Label
18. Screw
19. (+)Driver bit (Optional)
20. Connector
21. Connector Junction

SPECIFICATIONS

Chuck capacity		1.5 - 13 mm
Drilling capacity	wood	38 mm
	steel	13 mm
	concrete	13 mm
Driving capacity	Wood Screw	10x90mm
	Screw	M6
Max.torque	(High)	22N.m
	(Low)	80N.m
Voltage		DC18V (Li-ion)
Battery type		B-1850LA (5,000 mAh)
Charger type		UBC1804LA
Charging time		Approx. 54min (5,000 mAh)
No load speed	(High)	0-2,200 min ⁻¹
	(Low)	0- 600 min ⁻¹
Impacts per minute	(High)	0-33,000 min ⁻¹
	(Low)	0-9,000 min ⁻¹
Dimension		178x79x260mm
(Length x width x Height)		(with 5,000mAh battery)
Weight		2.0 kg
		(with 5,000mAh battery)

STANDARD ACCESSORIES

Charger, Carrying case, Battery pack (5,000mAh) x 2, Belt hook, Auxiliary handle, Stopper pole

APPLICATIONS

(Use only for the purposes listed below.)

1. Drilling holes in various types of wood, metal, mortar, block, resin, etc.
2. Fastening / removing screws and bolts.

REMOVING AND ATTACHING THE BATTERY PACK (Fig. 1)

(Attachment)

Align the protruding section of the battery pack (13) with the groove on the body, and slide the battery pack all the way into the groove in the direction of the arrow to attach securely.

(Removal)





Push and hold the push button (15) while pulling the battery pack (13) straight out in the direction of the arrow.

CHECKING THE BATTERY LEVEL (Fig. 2)

Pull the trigger (2) and the battery level indicator (11) will light up or flash for approximately 30 seconds.

The battery level can be determined by the indicator state.

Indicator display details are as follows.

Display	Battery condition
 3 lit	Battery fully charged
 2 lit	Battery half charged
 1 lit	Charge soon
 1 flashing	Charge immediately

CHARGING

The battery pack must be charged before you use the tool.

The batteries are affected by temperature, so do not charge them outside or in a location exposed to direct sunlight. Doing so will shorten the charging time and result in less than the full charge.

HOW TO CHARGE (Fig. 3)

The charger (14) may become a little warm while charging, but this does not affect its performance.

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

1. Securely insert the connector (20) of the power cord into the connector junction (21) of the charger.
2. Insert the electric plug of the charger into the socket.
3. Firmly insert the battery pack (13) into the charger.
4. When the charging is complete, remove the battery pack from the charger.
5. Remove the electric plug of the charger from the outlet.
6. Remove the connector (20) from the connector junction (21) on the charger.

Note1: Lithium ion batteries can be charged when the battery packs are between 0°C and 40°C, but the charging time will be longer if the battery pack temperature is lower than 10°C.

Note2: The charging time will be longer when the battery level is low.

HOW TO EXTEND THE LIFE OF THE BATTERY PACK

Do not recharge a fully charged battery pack.

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

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

TRIGGER (Fig. 4)

This tool is started and stopped by pulling and releasing the trigger (2).

The rotating speed is variable by controlling the trigger-squeezing force.

To change the direction of rotation, stop the tool by releasing the trigger and push the forward / reverse switch (3) to the opposite side.

When the forward / reverse switch (3) is set to the "R" mark, the direction of rotation will be clockwise when viewed from the handle end of the tool.

When the reversing switch is set to the "L" mark, the direction of rotation will be counter-clockwise.

The trigger can be locked by positioning the forward / reverse switch in the center.

Lock the trigger whenever the tool is not in use.

LED LIGHT (Fig. 4)

LED (1) is lit by pulling the trigger.

The LED continues to illuminate for 30 min. after releasing the trigger.

SPEED SELECTION (Fig.5)

The speed can be switched between high and low depending on the purpose.

To select speed, slide the speed selector (9) on the top of the main unit.

- Low speed State in which L is visible
- High speed State in which H is visible

- The speed selector (9) should be operated with the motor completely stopped.
- Select Low speed when drilling large diameter holes into wood.

OPERATION OF MODE SELECTION RING (Fig. 6)

By turning the mode selection ring (4), you can switch between Hammer drilling mode (rotation + hammering), Drilling mode (rotation only), and Screwdriving mode (rotation + clutch).

The mode selection ring (4) should be turned with the motor completely stopped.

(Hammer drilling mode)

Align the hammer mark (I) on the mode selection ring (4) with the ▲ on the main unit.

(Drilling mode)

Align the drill mark (II) on the mode selection ring (4) with the ▲ on the main unit.

The clutch will not activate when the mode selection ring (4) is set to the drill mark (II) position or the hammer mark (I) position.

(Screwdriving mode)

Align the screw mark () on the mode selection ring (4) with the ▲ on the main unit.

Select the torque by turning the torque adjustment ring (8) according to the object and screw diameter.

Tightening torque becomes stronger in the order of clutch position 1 to 21.

BELT HOOK (Fig. 7)

The belt hook (12) can be attached to either the left- or right-hand side.

Follow the steps outlined below to remove or attach the belt hook.

(Removing)

Loosen the screw (18), and remove the belt hook.

(Attaching)

Insert the belt hook in the groove on the body, and tighten the screw.

AUXILIARY HANDLE (Fig. 8)**WARNING!**

The auxiliary handle (10) must be attached. Hold the main unit securely with both hands during use. Failure to do so may result in injury.

- Attach the auxiliary handle so that the protrusions on the main unit fit in the grooves on the auxiliary handle, and turn the handle in the direction of the arrow (tighten) to tighten firmly.
- Auxiliary handle (10) can be mounted on either the left or right side.

ADJUSTMENT STOPPER POLE (Fig. 9)

- When drilling holes of the same depth in succession, the stopper pole (6) can be used for efficient drilling.
- To attach the stopper pole (6), loosen the stopper pole fixing bolt (7) by hand and insert the stopper pole (6) into the hole in the auxiliary handle (10).
- After adjusting to the desired drilling depth, firmly tighten the stopper pole fixing bolt to secure the stopper pole in place.

KEYLESS CHUCK AND MOUNTING THE BIT (Fig.10)


This tool comes equipped with a keyless chuck (5) to easily mount the bit.

Insert the bit into the chuck as far as it will go and rotate the chuck clockwise to securely tighten the (+)Driver bit (19). The bit can be removed by turning the chuck counterclockwise.

OPERATING


NEVER COVER THE AIR VENTS SINCE THEY MUST ALWAYS BE OPEN FOR PROPER MOTOR COOLING.

DRILLING IN WOOD (Fig.11)

Align the drill mark () on the mode selection ring (4) with the ▲ on the main unit.


To prevent splintering around the drilled hole on the reverse side of the work piece, place scrap lumber beneath the material to be drilled.

DRILLING IN METAL

Align the drill mark () on the mode selection ring (4) with the ▲ on the main unit.

Metals such as steel sheets, brass and aluminum sheets, stainless steel and pipe may also be drilled. Mark the point to be drilled with a nail or punch.

DRIVING

Align the screw mark () on the mode selection ring (4) with the ▲ on the main unit.

Match the bit and screw size to prevent damage to the screw head.

Adjust the torque by turning the torque adjustment ring (8) according to the size of the screw and the material of the object.

For removing screws, push the reversing switch to the "L" mark.

STORING THE TOOL

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

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

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

MAINTENANCE

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

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


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

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

WARNING!

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

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

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



ENGLISH

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