V 1.0

8390312

CORDLESS IMPACT DRIVER

User Manual

Please read and understand all instructions before use.
Retain this manual for future reference.

2 – EQUIPMENT PROTECTION

- Before use, ensure that the battery is properly secured in the drill.
- Do not place such loads on the drill that it ceases to turn.
- Change rotational direction only when drill is not moving.
- Use only genuine accessories.
- Battery should be protected against impact.Do not open battery.Store battery in a dry place where it is protected against freezing.
- Battery and charger are specifically designed for use in conjunction with one another. Charging should be performed exclusively with a charger.
- Do not expose battery to heater flames.

Danger or explosion! Do not place the battery on a heater or expose to direct sunlight for long periods. Allow warm battery to cool before charging.

- When the battery is outside the drill,cover the contacts avoid short circuits(e.g. from tools).
- Avoid repeated consecutive rapid charges of the battery.Do not recharge after using only briefly (e.g; 3 minutes).
- Never discharge the battery completely and recharge occasionally if not used for a prolonged period.

3-BEFORE USE

If the machine is new, the battery must first be charged.
Battery is housed in the handle.Swing over battery retaining clips and remove battery from handle.
A new battery or one which has not been used for an extended period achieves full performance only after approx.5 charging and discharging cycles.A substantial drop in operating period per charge indicates that the baterry is worn out and must be replaced.

4- BEFORE USE

The power voltage supply must conform to that specified on the rating plate of the rapid charger.
Always inspect battery charger. cord and plug before use. Always have damage repaired by a qualified professional.

- Protect battery charger against humidity and operate only in dry areas.
- The supplied charger is suitable for charging batteries only

Charging the battery

Start the charging process by plugging in the battery charger and inserting the battery into battery charger slot. The battery and battery charger become warm during the charging process. This is normal. After termination of the charging (approx. **1h).pull charger out of socket and** remove battery.

COMMENT:

To prevent. Incorrect battery inserting on the Charger, please insert the battery pack according to the position of the grill to the charger as the figure.

About the charger

- Disconnect the feeding before connecting or disconnecting the battery
- The charger must be used only with rechargeable battery. Never use unrechargeable battery.
- Do not expose the charger to rain or water.
- The charger must be used with the battery and with the adaptator.

5-INITIAL OPEARATION

- **Inserting battery**.

to center position(lock-out).Insert charged battery in handle and secure with battery securing clip. The spring must snap into place.

- **Switching ON and Off.**

Set rotation direction switch 5 to desired position.
To switch on: Press ON/OFF switch ...
To switch off: Release ON/OFF switch...

- **Switching direction of rotation.**

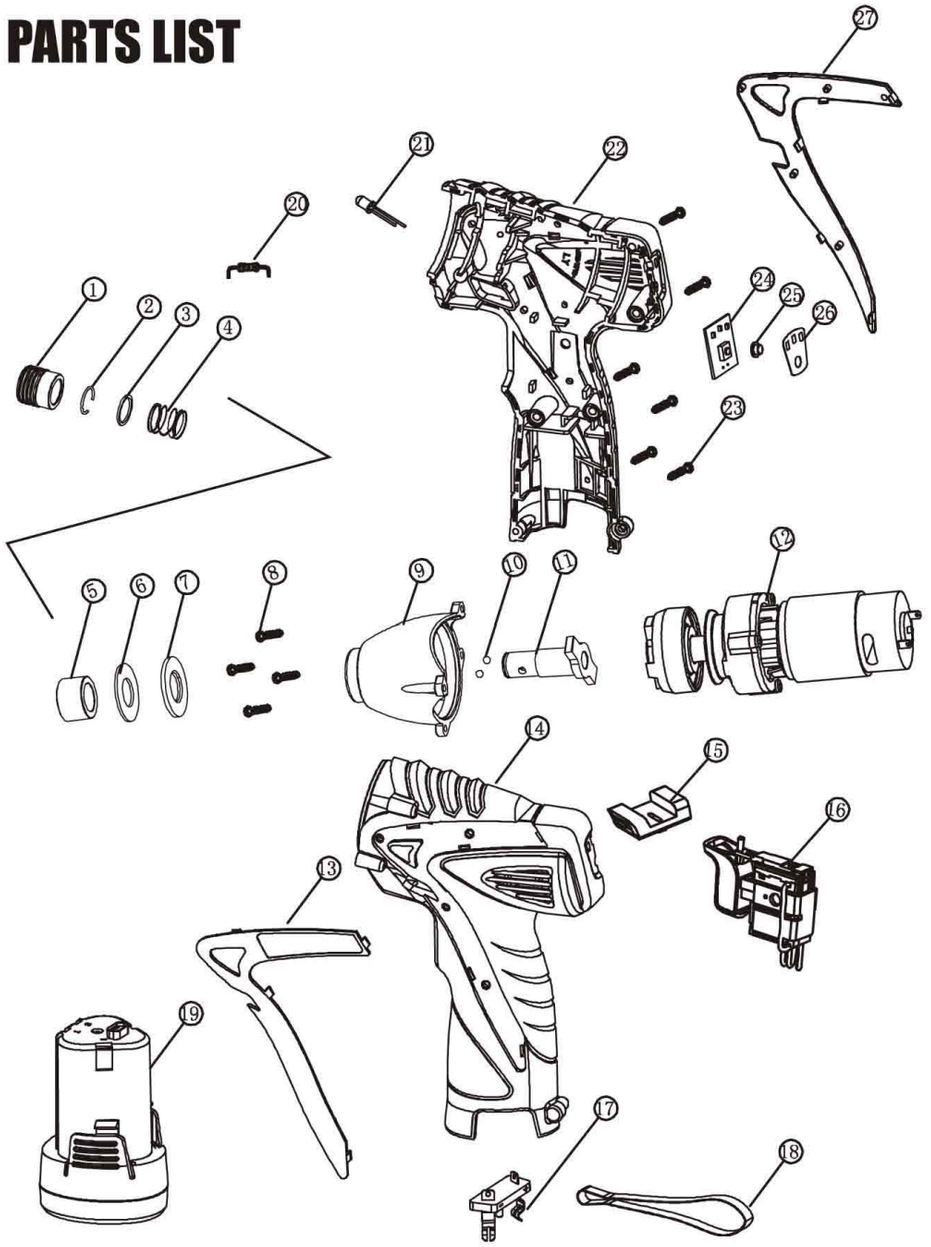
Set rotation direction switch either to R (clock wise) or to opposite side (anti-clock wise). (When the ON/OFF switch is activated,rotation direction switch is locked).
Anticlock wise rotation is suitable for, e.g. loosening screws and nuts.

Change direction of rotation only when machine is not in operation.

6-Technical data

Only use 6.35mm socket screw bit;
Voltage:10.8V
Square driver:1/4"(6.35mm)
No-load Speed:0-2000/min
Charging time:1hour
Max Torque:80NM

PARTS LIST



TECHNICAL INFORMATION

Volts	**10.8V**
Speed	**0-2000/min**
Square driver	1/4"(6.35mm)

1 NOTES ON SAFETY AND ACCIDENT PREVENTION

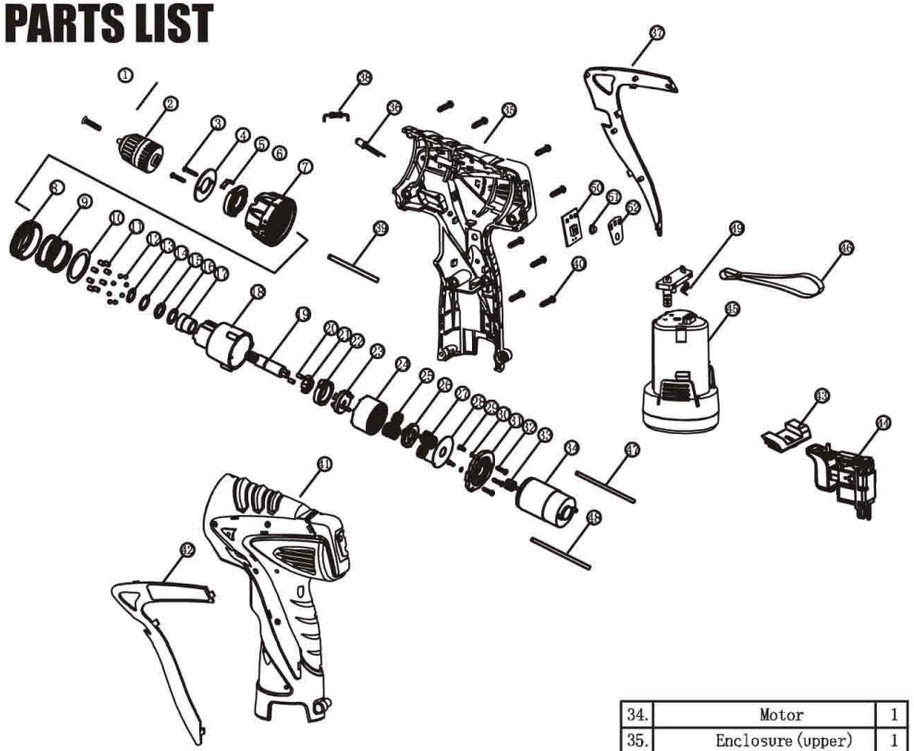
This machine can only be operated safely when the operating Instructions and the safety instructions completely read and Strictly adhered to.

- Caution:The machine can begin to operate immediately when the ON/OFF switch is activated.
- When replacing drill bit or battery,as well as for transport and storage,always set the rotation direction switch to the center position (lock –off).
- Use caution when inserting long screws: Danger of slippage.
- Always remove battery before working on machine.
- Do not leave any tool keys in place.The chuck key should always be kept in the holder provided on cable sleeve.

PARTS LIST

Item	Name of part	NO.
1.	sleeve	1
2.	Rataining ring	1
3.	washer	1
4.	spring	1
5.	sleeve bearing	1
6.	washer	1
7.	steel ball	1
8.	Tapping screwnail	4
9.	gear housing	1
10.	steel ball	1
11.	Anvil	1
12.	gearcase assemably	1
13.	trim strip of Enclosure(lower)	1
14.	Enclosure(lower)	1
15.	Reversing Bar	1
16.	Switch	1
17.	battery pack clip	1
18.	belt	1
19.	battery pack	1
20.	Resistance	1
21.	LCD	1
22.	Enclosure(upper)	1
23.	Tapping screwnail	5
24.	LED	1
25.	LED button	1
26.	fish paper	1
27.	trim strip of Enclosure(upper)	1

PARTS LIST



Item	Name of part	NO
1.	left-handed thread Screwnail	1
2.	Drill Chuck	1
3.	Tapping Screw	2
4.	Cover Board	1
5.	Plate Spring	1
6.	Plastic Cover Board	1
7.	Torque Setting Ring	1
8.	Plastic Pivot Circle	1
9.	Compression Spring	1
10.	Washer	1
11.	Runner Axle	8
12.	Steel Ball	8
13.	Circlip	1
14.	Washer	1
15.	Steel Ball	15
16.	Washer	1
17.	Shaft Housing	1
18.	Gearbox	1
19.	Shaft	1
20.	Runner Axle	2
21.	Lock self core	1
22.	Lock self circle	1
23.	Lock self star gear holder	1
24.	Inner Gear Ring	1
25.	Powder Metallurgical Gear	3
26.	Middle star gear holder	1
27.	Plastic Gear	3
28.	Washer	1
29.	Screwnail	2
30.	Washer	2
31.	Gearbox Cover	1
32.	Tapping Screw	3
33.	Motor Gear	1
34.	Motor	1
35.	Enclosure (upper)	1
36.	Radiate pipe	1
37.	trim strip of Enclosure(upper)	1
38.	Resistance	1
39.	contraction pipe	6
40.	Tapping Screw	8
41.	Enclosure(lower)	1
42.	trim strip of Enclosure(lower)	1
43.	Reversing Bar	1
44.	Switch	1
45.	battery pack	1
46.	belt	1
47.	Red Wire	2
48.	Black Wire	2
49.	battery pack clip	1
50.	LCD	1
51.	LCD button	1
52.	LCD cover	1

V 1.0

8390312

POWER FIST

CORDLESS DRILL

User Manual

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GENERAL SAFETY RULES

WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTION

1 Work area

1) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

2) 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.

3) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2 Electrical safety

1) 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.

2) 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.

3) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

4) 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.

5) 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.

6) 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

1) 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.

2) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

3) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

4) 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.

5) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

6) 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.

7) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

4 Power tool use and care

1) 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.

2) 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.

3) 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.

4) 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.

5) 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.

6) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7) 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.

5 Battery tool use and care

1) Ensure the switch is in the off position before inserting battery pack. Inserting the battery pack into power tools that have the switch on invites accidents.

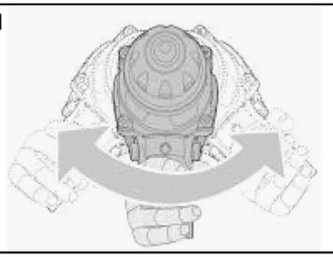
2) Recharge only with the charger specified by the

Tungsten carbide drill bits should always be used for concrete and masonry. When drilling in metal, only use HSS drill bits in good condition. When screw-driving, apply a small quantity of liquid soap or similar to the screw threads to ease insertion.

9. AUTOMATIC SPINDLE LOCK (SEE I)

The automatic spindle lock allows you to use it as a regular screwdriver. You can give an extra twist to firmly tighten a screw, loosen a very tight screw or continue working when the battery energy has expired. For manual screwdriver purposes, the chuck is automatically locked when the tool is off.

Figl



10. DISPOSAL OF AN EXHAUSTED BATTERY PACK

To preserve natural resources, please recycle or dispose of the battery pack properly. This battery pack contains lithium batteries. Consult your local waste authority for information regarding available recycling and/or disposal options. Discharge your battery pack by operating your drill, then remove the battery pack from the drill housing and cover the battery pack connections with heavy duty adhesive tape to prevent short circuit and energy discharge. Do not attempt to open or remove any of the components.

PROBLEM SOLUTION

1. WHY DOES THE DRILL NOT TURN ON WHEN YOU PRESS THE SWITCH?

The forward/reverse rotation control, which is on top of the trigger, is positioned in the lock function. Unlock the forward/reverse rotation control by putting it into the required rotation position. Push the trigger and the drill will start to rotate.

2. THE DRILL STOPS BEFORE THE SCREW IS COMPLETELY TIGHTENED. WHY?

Verify the torque position of the variable clutch, you can find the variable clutch between the chuck and the drill body. Position 1 is the lowest torque (screw driving force) and position 20 is the highest torque (screw driving force). Position 21 is for drill operation. Regulate the variable clutch to a higher position to reach the best result.

3. I CANNOT FIT THE BATTERY INTO THE BATTERY CHARGER. WHY?

The battery can be inserted into the charger only in one direction. Turn the battery around until it can be inserted into the slot.

4. REASONS FOR DIFFERENT BATTERY PACK WORKING TIMES.

Charging time issues, as above, and having not used a battery pack for a prolonged time will reduce the working life of the battery pack. This can be corrected after several charge and discharge operations by charging & working with your drill. Heavy working conditions such as large screws into hard wood will use up the battery pack energy faster than lighter working conditions. Do not re-charge your battery pack below 0^{o}C and above 45^{o}C as this will affect performance.

5. HOT BATTERY PACK PROTECTION

The normal charging temperature is between 0^{o}C and 45^{o}C. When the battery pack is too hot, it automatically starts a HOT battery pack delay, and suspends charging until it has reached the correct temperature. The charging process will then automatically begin.
When the battery pack is over 70^{o}C during operation, the drill stops working automatically. Allow the drill to cool down for re-operation.

6. BATTERY PACK OVERLOAD AND LOW-VOLTAGE PROTECTION

When max. allowable battery current is exceeded during working, the overload protection is activated to protect the battery against overheating.
When the battery is under normal voltage during working, the power tool will cease to operate.

MAINTENANCE

Your tool requires no additional lubrication or maintenance.
There are no user serviceable parts in your tool, battery pack or charger. Never use water or chemical cleaners to clean your tool. Wipe clean with a dry cloth. Always store your tool in a dry place. Keep the motor ventilation slots clean. Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool.

to remove screws or release a jammed drill bit. When the selector is in the center position, the switch is locked.

Warning:
Never change the direction of rotation when the chuck is rotating. Wait until it has stopped.

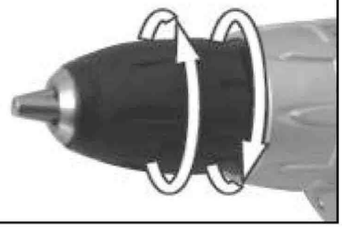
FigD

FigE

4. CHUCK ADJUSTMENT (SEE F)

To open the chuck jaws rotate the front section of the chuck. Insert the drill bit between the chuck jaws and rotate the front section in the opposite direction. Ensure the drill bit is in the center of the chuck jaws. Finally, firmly rotate the front chuck section in the opposite directions. Your drill bit is now clamped in the chuck.

FigF

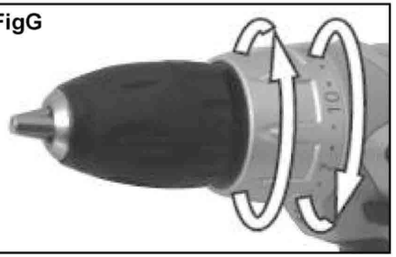


5. TORQUE ADJUSTMENT (SEE G)

(Screw driving force of your drill driver)
The torque is adjusted by rotating the torque adjustment ring. The torque is greater when the torque adjustment ring is set on a higher setting. The torque is less when the torque adjustment ring is set on a lower setting.
Make the setting as follows:

1 - 4 for driving small screws
5 - 8 for driving screws into soft material
9 - 12 for driving screws into soft and hard material
13 - 16 for driving screws into hard wood
17 - 20 for driving larger screws
for heavy drilling

FigG



6. USING THE SIGHT LIGHT

The sight light allows you to keep a clear view under less illuminated circumstances. To turn on the light simply press the on/off switch. When you release the on/off switch, the light will be off.

7. BATTERY CAPACITY INDICATOR (SEE H)

The three LED lights (3) will indicate the current battery capacity when pressing the switch (4).
1 LED light on: 30%±5% of capacity
2 LED light on: 60%±5% of capacity
3 LED light on: 90%±5% of capacity

FigH

8. DRILLING

When drilling into a hard smooth surface, use a center punch to mark the desired hole location. This will prevent the drill bit from slipping off center as the hole is started. Hold the tool firmly and place the tip of the bit at the point to be drilled. Depress the switch trigger to start the tool. Move the drill bit into the workpiece, applying only enough pressure to keep the bit cutting. Do not force or apply side pressure to elongate a hole.

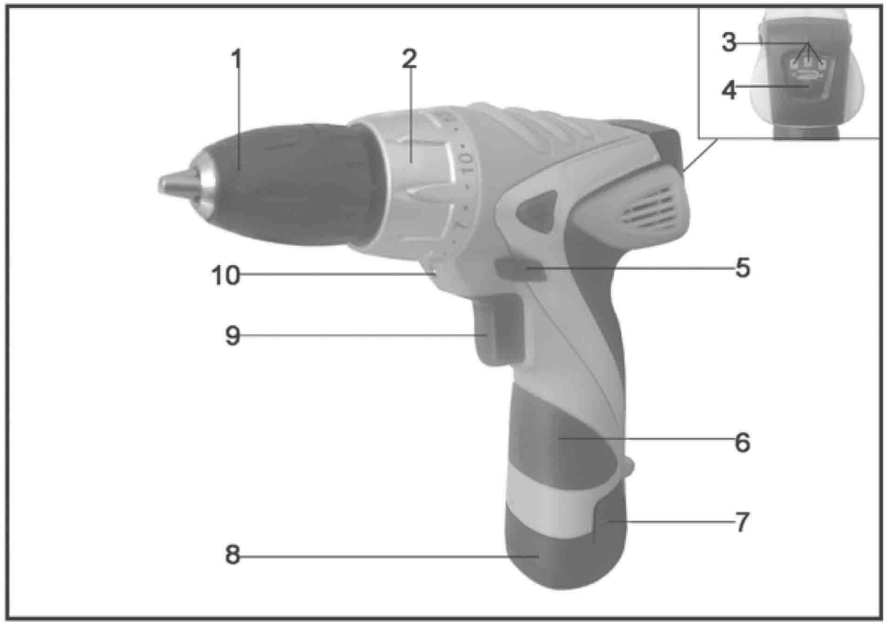
Note:
If your tool stops working when drilling a hole automatically, it's normal. This is the electrical protection for battery. Completely release the ON/OFF switch, then depress it to start the tool again.

manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
3) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
4) 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.
5) 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.

6 Service
1) 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.

ADDITIONAL SAFETY RULES FOR YOUR CORDLESS DRILL

1. Wear ear protectors with cordless drills. Exposure to noise can cause hearing loss.
2. Use auxiliary handles supplied with the tool. Always hold the tool with both hands. Loss of control can cause personal injury.
3. Hold tool by insulated gripping surfaces when performing an operation where the cutting tools may contact hidden wiring. Contact with a "live" wire make exposed metal parts of the tool "live" and shock the operator.
4. Always wear safety goggles or eye protection when using this tool. Use a dust mask or respirator for applications which generate dust.
5. Secure the material being drilled. Never hold it in your hand or across legs. Unstable support can cause the drill bit to bind causing loss of control and injury.
6. Disconnect battery pack from tool or place the switch in the locked or off position before making any assembly, adjustments or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.
7. Position yourself to avoid being caught between the tool or side handle and walls or post. Should the bit become bound or jammed in the work, the reaction torque of the tool could crush your hand or leg.
8. If the bit becomes bound in the workpiece, release the trigger immediately, reverse the direction of rotation and slowly squeeze the trigger to back out the bit. Be ready for a strong reaction torque. The drill body will tend to twist in the opposite direction as the drill bit is rotating.
9. Do not grasp the tool or place your hands too close to the spinning chuck or drill bit. Your hand may be lacerated.
10. When installing a drill bit, insert the shank of the bit well within the jaws of the chuck. If the bit is not inserted deep enough, the grip of the jaws over the bit is reduced and the loss of control is increased.
11. Do not use dull or damaged bits and accessories. Dull or damaged bits have a greater tendency to bind in the workpiece.
12. When removing the bit from the tool avoid contact with skin and use proper protective gloves when grasping the bit or accessory. Accessories may be hot after prolonged use.
13. Check to see that keys and adjusting wrenches are removed from the drill before switching the tool "ON". Keys or wrenches can fly away at high velocity striking you or bystander.
14. Do not run the dill while carrying it at your side. A spinning drill bit could become entangled with clothing and injury may result.
15. Avoid bouncing and snagging the wheels, discs or brushes especially when working corners, sharp edges, etc. This can cause loss of control and kickback.
16. Position the tether clear of rotating bit. Do not wrap the tether around your arm or wrist. If you lose control and have the tether wrapped around your arm or wrist, it may entrap you and cause injury.



COMPONENT LIST

1.Keyless chuck
2.Torque adjustment ring
3.Battery capacity indicator lights
4.Battery capacity indicator switch
5.Forward/Reverse rotation control
6.Soft grip handle
7.Battery pack release button
8.Battery pack
9.On/off switch
10.Sight light

Not all the accessories illustrated or described are included in standard delivery.

ACCESSORY

1.3Ah Li-ion battery pack	1pc
1hr Charger	1pc

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

TECHNICAL DATA

Voltage:	10.8 V ⎓
Charger voltage:	120V~60Hz
No load speed:	0-550RPM
Number of clutch positions:	20+1
Max. torque:	10N.m
Max chuck capacity:	10mm
Max. drilling capacity	
Wood:	10mm
Steel:	6mm
Battery capacity:	1.3Ah Li-ion
Charging time:	1hr

CHARGING PROCEDURE

NOTE: Before using the tool, read the instruction book carefully.

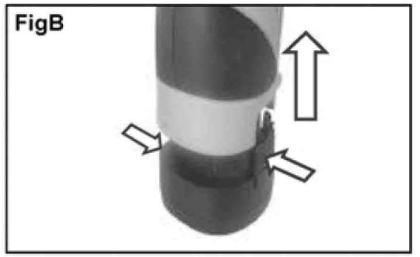
1. RECHARGING BATTERIES
A) CHARGING THE BATTERY
to the Li-ion battery installed in the machine. Do not use another battery charger.
The Li-ion battery is protected against deep discharging. When the battery is empty, the machine is switched off by means of a protective circuit: The chuck no longer rotates.
In a warm environment or after heavy use, the battery pack may become too hot. Allow time for the battery to cool down before recharging.
When the battery is charged for the first time and after prolonged storage, the battery will only accept approximately 60% charge. However, after several charge and discharge cycles the battery will accept a 100% charge.

B) IMPORTANT NOTES FOR CHARGING THE BATTERY
The battery in your new tool is not charged when it leaves the plant. Therefore it must be charged for 3-5 hours before using the first time!

C) CHARGING (SEE A)
Plug the charger plug into a suitable mains socket, and the indicator light will show green. Then insert the battery pack into the charger base , the indicator light will become red to indicate that charging is taking place.
After charging 1 hour, the battery will be fully charged. When fully charged, the light will turn red to green. Unplug the charger plug from the wall socket, the tool is ready to use.

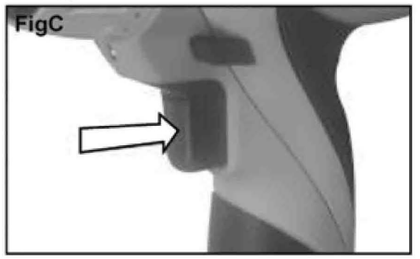
Warning:
When battery charge runs out after continuously use or exposure to direct sunlight or heat, allow time for the battery to cool down before re-charging to achieve the full charge.

2. TO REMOVE OR INSTALL THE BATTERY PACK (SEE B)
Locate buttons on side of the battery pack. Depress both sides to release and slide it out from the tool. After recharge, insert back into the tool. A simple push and slight pressure will be sufficient.



OPERATING INSTRUCTIONS

1. ON/OFF SWITCH (SEE C)
Depress to start and release to stop your drill. The on/off switch is fitted with a brake function which stops your chuck immediately when you quickly release the switch. It is also a variable speed switch that delivers higher speed and torque with increased trigger pressure. Speed is controlled by the amount of switch trigger depression.
Warning: Do not operate for long periods at low speed because excess heat will be produced internally.



2. SWITCH LOCK
The On/Off switch trigger can be locked in OFF position. This helps to reduce the possibility of accidental starting when not in use. To lock the switch, place the forward and reverse rotation selector in the center position by pushing it on either side of the drill.

3. REVERSIBLE (SEE D, E)
The forward/reverse rotation control located above the On/Off switch controls the direction of rotation. For drilling and screw driving use forward rotation marked " ◄ " (lever is moved to the left). Only use reverse rotation marked " ► " (lever is moved to the right)