ICON Power Tools

SAFETY AND OPERATING MANUAL

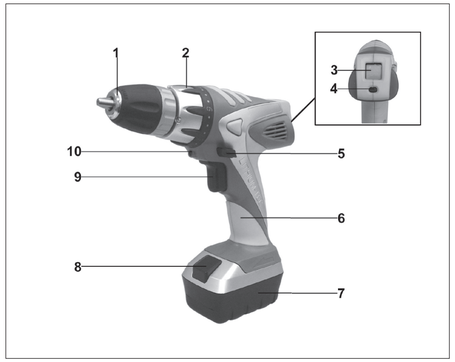
14.4V / 18V
CORDLESS DRILL

IC14KL / IC18KL

Caution: Carefully read this entire Instruction Manual before using this product

Thank you for purchasing an Icon product. We are confident that this product will meet and exceed your expectations of quality and reliability. Please take the time to carefully read this entire instruction manual before using your new product. Take note of the safety precautions contained herein.

ICON Power Tools



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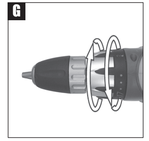
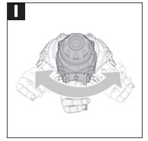




B

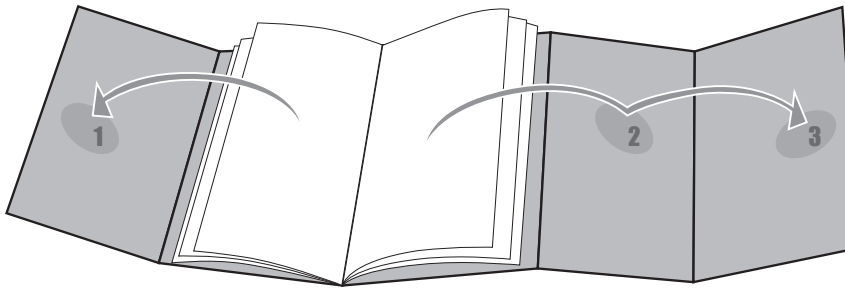
C

Contents

I - Component List

1. Keyless chuck
2. Variable clutch
3. Battery capacity indicator
4. Battery capacity indicator switch
5. Forward and reverse rotation selector
6. Soft grip handle
7. Battery pack
8. Battery pack latch
9. On/Off switch
10. Sight light

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



II - Technical specifications

	IC14KL	IC18KL
Rated voltage	14.4 V⎓	18 V⎓
Rated no load speed	0-550 /min	0-550 /min
Number of clutch position	20+1	20+1
Chuck capacity	10 mm	10 mm
Max. torque	15 N.m	16 N.m
Max. drilling capacity		
Wood	16 mm	18 mm
Steel	8 mm	8 mm
Weight	1.25 kg	1.28 kg
Charge voltage	100-240V~50/60Hz	100-240V~50/60Hz
Charging time	3-5 hr	3-5 hr

NOISE / VIBRATION INFORMATION
A weighted sound pressure 72.3 dB (A)
A weighted sound power 83.3 dB (A)
Wear ear protection when sound pressure is over 85 dB (A) 
Typical weighted vibration: 3.14m/s^2

III - Safety instructions

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

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.

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 power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

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

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

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

4. POWER TOOL USE AND CARE

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

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

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, 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

a) 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.

b) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack.

c) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

d) When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screw, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or fire.

e) 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

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.

ADDITIONAL SAFETY INSTRUCTIONS

——FOR DRILL

1. Always check walls, floors and ceilings for hidden power cables and pipes.
2. After long working periods, external metal parts and accessories could be hot.
3. Remove the battery pack from the drill before carrying out adjustments.

——FOR CHARGER

1. Only use the battery charger specifically stated on the base of the battery.
2. Charger is double insulated for additional electrical safety.
3. Charger is for indoor use only.
4. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

——FOR BATTERY

1. Always remove the battery pack from the charger immediately after re-charging is completed.
2. When not in use, remove a charged battery pack from the charger.
3. Do not charge a damaged battery pack.
4. Do not charge non-rechargeable batteries.
5. Lithium-ion and lithium polymer cells and battery packs may get hot, explode or ignite and cause serious injury if exposed to abuse conditions.
6. Do not install the battery backwards so the polarity is reversed.
7. Do not connect the positive terminal and negative terminal of the battery to each other with any metal object (such as wire).
8. Do not carry or store battery together with necklaces, hairpins or other metal objects.
9. Do not pierce the battery with nails, strike the battery with a hammer, step on the battery or otherwise subject it to strong impacts or shocks.
10. Do not solder directly onto the battery.
11. Do not expose battery to water or salt water, or allow the battery to get wet.
12. Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite. The protection circuit module provided with battery packs is not to be used as a substitute for a shut-off switch.
13. Do not place the battery in or near fire, on stoves or other high temperature locations. Do not place the battery in direct sunlight, or use or store the battery inside cars in hot weather. Heating the battery can damage the safety circuitry, which can cause additional heating, rupture or ignition of the battery. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.
14. Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.
15. If you intend to store a battery for a period without use then store battery at room temperature (19°C to 25°C), charged to about 30 – 50% of capacity. When storing for very long periods boost-charge the battery once per year to prevent over discharge.
16. Always charge the battery in a temperature range of 0° to 45°C and discharge in a temperature range of 0° to 60°C.
17. The battery pack and charger will be warm during charging, this is normal.
18. Do not continue charging the battery if it does not recharge within the specified charging time. Doing so may cause the battery to become hot, explode or ignite. The temperature range over which the battery can be charged is 0°C to 45°C. Charging the battery at temperatures outside this range may cause severe damage to the battery or reduce battery life expectancy.
19. When the battery is worn out, insulate the terminals with adhesive tape or similar materials before disposal.
20. Do not dispose of batteries in fire, or with household waste. Return exhausted batteries to your local collection or recycling point.
21. Immediately discontinue use of the battery if, while using, charging or storing the battery, the battery emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.
22. In the event the battery leaks and the fluid gets into one's eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

IV - Symbols


Read the manual


Warning


Indoor use only


Wear dust mask


Wear eye protection


Wear ear protection


Do not expose to rain or water


Do not burn


5112
RCM approval

V - Accessories

IC14KL:

1.3Ah Li-ion battery pack	1
3-5 hr charger	1

IC18KL:

1.3Ah Li-ion battery pack	1
3-5 hr charger	1

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 advic.

VI - Charging procedure

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

1

BEFORE USING YOUR CORDLESS DRILL
Your battery pack is UNCHARGED and you must charge once before use.

WARNING: The charger and battery pack are specifically designed to work together so do not attempt to use any other devices. Never insert or allow metallic objects into your charger or battery pack connections because an electrical failure and hazard will occur.

2

TO CHARGE THE BATTERY PACK (See Fig. A, B)
Note:
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 100% charge.

Connect the charger DC plug to the charger socket (C) then connect the charger AC plug (D) to the power supply and the green light (B) will illuminate.
Slide the battery pack onto the charger base along the groove. The red light (A) will illuminate to show charging has started while the green light (B) is off.
A fully discharged battery will take approximately 3-5 hours to reach full charge. When charging is completed the green light (B) will illuminate while the red light (A) is off.
Unplug the charger. Press the battery pack latch and remove the battery pack along the groove.

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

3

TO REMOVE OR INSTALL THE BATTERY PACK TO DRILL (See Fig.C)
Depress the battery pack latch to release and slide it out from the drill. After recharge, slide the battery pack back into the drill. A simple push and slight pressure will be sufficient.

VII - Operating instructions

1

ON/OFF SWITCH
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 (See Fig.D)
The switch trigger can be locked in the OFF position. This helps to reduce the possibility of accidental starting when not in use. To lock the switch trigger, place the direction of rotation selector in the center position.

3

REVERSIBLE (See Fig.E)
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) to remove screws or release a jammed drill bit.

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

4

CHUCK ADJUSTMENT (See Fig.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.

5

TORQUE ADJUSTMENT (See Fig.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 low setting, e. g., small screws, soft materials.
20 high setting, e. g., large screws, hard materials.
⍁ for heavy drilling

6

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.

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

Warning: When drilling in metal, only use HSS drill bits in good condition. When screw-driving, apply a small quantity of liquid soap or similar material to the screw threads to ease insertion.

7

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.

8

BATTERY CAPACITY INDICATOR (See Fig.H)
The indicator is located on top back of the drill. Press the button to show the current battery capacity.
Better to charge the battery when the capacity is less than 20%.

9

AUTOMATIC SPINDLE LOCK (See Fig.I)
The automatic spindle lock allows you to use 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.

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.

VIII - Maintenance

Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust.

Hole drilling
1. When attempting to drill a large diameter hole, it is sometimes best to start with a smaller drill bit then work up to the required

size. This prevents overloading the drill.
2. If the drill bit snags, switch off the drill immediately to prevent permanent damage. Try the reverse drive to remove the bit.
3. Keep the drill in line with the hole. Ideally, if the angle is changed during drilling it could cause the bit to break.
4. Frequently remove the drill bit from the hole when drilling deep holes to allow the dust to be ejected from the hole.

Screw driving

1. When driving in larger and/or longer screws in hard material, it is advisable to drill a pilot hole first, slightly longer and just smaller than the shank diameter of the screw to be fitted. The pilot hole will act as a guide for the screw and will also make tightening of the screw less difficult. When screws are positioned close to an edge of the material, a pilot hole will also help to prevent splitting of the wood.
2. Use only screwdriver bits that fit properly in the head of the screw.
3. When driving screws, always keep enough pressure on the drill to prevent wearing of the screw head. It will be difficult to drive or remove a screw if the screw head is worn.

IX - Troubleshooting and faq

Should you encounter any problems when using your cordless drill, check the following list.

1. **ON/OFF SWITCH WILL NOT DEPRESS**
   The switch will not depress if the forward and reverse rotation selector is in the locked position. Move to the forward or reverse position and try again.
2. **ON/OFF SWITCH DEPRESSES BUT DRILL WILL NOT WORK**
   The cordless drill needs sufficient charge in the battery pack to work. The battery charge will deplete if not used for a long period of time. Try recharging the battery pack.
3. **BATTERY PACK LEAKS**
   A small amount of leakage may occur under extreme temperatures or after heavy use. Immediately wash any leakage from hands, skin or clothes with soap and water.
4. **THE DRILL BODY GETS HOT AFTER EXTENSIVE USE**
   Under normal load condition the body, trigger and battery pack will heat up as the energy absorbed in the drilling operation produces heat. This is quite normal. Simply allow the drill to cool off for a few minutes.
5. **THE BATTERY PACK GETS WARM DURING USE**
   The power-draw from the battery generates heat. This is increased as the energy draw increases. You will not damage the battery pack and the generated heated heat is normal. Should you desire to cool it down, simply allow the drill to cool off prior to continuing work.
6. **THE BATTERY PACK GETS WARM WHEN CHARGING**
   This is normal; it is a result from the stepping down of the chemical reactions inside the batteries during the charging process.
7. **THE CHARGER WILL GET WARM DURING CHARGING**
   This is normal.
8. **BATTERY PACK OVERLOAD AND LOW-VOLTAGE PROTECTION**
   When max. allowable battery voltage is exceeded during charging, the overload protection is activated to protect the battery against overheating.
   When the battery is under normal voltage during working, it will cease to operate.
9. **HOT BATTERY PACK PROTECTION**
   The normal charging temperature is between 0°C and 45°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 60°C during operation, the drill stops working automatically. Allow the drill to cool down for re-operation.

X - Warranty

This product is warranted for a 2-year period for home domestic use from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be replaced free of charge with another of the same item. A samll freight charge may apply.
The warranty replacement unit only made available by returning the tool to the place of purchase with a confirmde register receipt. Proof of purchase is essential.
We reserve the right to reject any claim where the purchase cannot be verified.
This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents, alterations or commercial or business use.