Cordless Impact Drill
Model No. CON24
Part No. 6485065
Operating & Maintenance Instructions
Thank you for purchasing this CLARKE Cordless Impact Drill. Before attempting to use the drill, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to the drill giving you long and satisfactory service.

## GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

## PACK CONTENTS

- **CON24 Cordless Impact Drill**
- Auxiliary handle
- 6 x HSS drill bits (various)
- Battery charger
- 1 x 24volt 1,300 mAh battery pack
- Magnetic bit holder
- 6 x screwdriver bits (various)

## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<td>Model Number</td>
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<td>Hammer drill voltage</td>
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<td>- speed setting 2</td>
<td>0 - 1400 rpm</td>
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<td>Keyless chuck capacity</td>
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<td>Charger voltage</td>
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<td>Charging time</td>
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Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.
GENERAL SAFETY PRECAUTIONS

WARNING:
As with all machinery, there are certain hazards involved with their operation and use. Exercising respect and caution will considerably lessen the risk of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator or damage to property, may result.

1. **ALWAYS** Learn the machines’ applications, limitations and the specific potential hazards peculiar to it. Read and become familiar with the entire operating manual.
2. **ALWAYS** use a face or dust mask if operation is particularly dusty.
3. **ALWAYS** check for damage. Before using the machine, any damaged part, should be checked to ensure that it will operate properly, and perform its intended function. Check for alignment of moving parts, breakage of parts, mountings, and any other condition that may affect the machines’ operation. Any damage should be properly repaired or the part replaced. If in doubt, **DO NOT** use the machine. Consult your local dealer.
4. **ALWAYS** disconnect the tool/machine from the power supply before servicing and when changing accessories.
5. **ALWAYS** wear safety goggles, manufactured to the latest European Safety Standards. Everyday eyeglasses do not have impact resistant lenses, they are not safety glasses.
6. **ALWAYS** keep work area clean. Cluttered areas and benches invite accidents.
7. **ALWAYS** ensure that adequate lighting is available. A minimum intensity of 300 lux should be provided. Ensure that lighting is positioned that you will not be working in your own shadow.
8. **ALWAYS** keep children away. All visitors should be kept a safe distance from the work area, especially whilst operating the machine.
10. **ALWAYS** handle with extreme care do not carry the tool/machine by its’ electric cable, or yank the cable to disconnect it from the power supply.
11. **ALWAYS** ensure the switch is off before plugging in to mains. Avoid accidental starting.
12. **ALWAYS** concentrate on the job in hand, no matter how trivial it may seem. Be aware that accidents are caused by carelessness due to familiarity.
GENERAL SAFETY PRECAUTIONS

13. **ALWAYS** keep your proper footing and balance at all times don’t overreach. For best footing, wear rubber soled footwear. Keep floor clear of oil, scrap wood, etc.

14. **ALWAYS** wear proper apparel. Loose clothing or jewellery may get caught in moving parts. Wear protective hair covering to contain long hair.

15. **ALWAYS** use recommended accessories. The use of improper accessories could be hazardous.

16. **ALWAYS** remove plug from electrical outlet when adjusting, changing parts, or working on the machine.

17. **NEVER** operate machine while under the influence of drugs, alcohol or medication.

18. **NEVER** leave machine running unattended. Turn power off. Do not leave the machine until it comes to a complete stop.

19. **NEVER** force the machine. It will do a better and safer job at the rate for which it was designed.

20. **NEVER** use power tools in damp or wet locations or expose them to rain. Keep your work area well illuminated. Do not use in explosive atmosphere (around paint fumes, flammable liquids etc). Avoid dangerous environments.

HEALTHFUL HINTS ON DRILLING

- After drilling material to the full depth, do not simply pull out the drill but maintain chuck rotation to ease withdrawal.
- Keep drill bits sharpened for optimum performance.
- Always drill directly in line with the bit. Do not use sideways movement as this may damage the drill or cause the bit to break.
- Always use a cutting lubricant when drilling all metals except brass and cast iron which should be drilled dry.
- As a general rule, when drilling metal, the harder the metal the slower the drill speed. Similarly, the bigger the drill the slower the speed. Consult a suitable book of reference if necessary.
- Always start drilling at a slow speed to prevent the drill from slipping out of the pop mark or indent, gradually increasing speed until the optimum cutting speed is achieved whilst maintaining a MODERATE pressure ONLY. **NEVER** force the drill bit into the work. This will overheat the tip and cause it to dull very quickly.
The product conforms to CE regulations.

The charger is a Class II appliance and does not need an earth connection.

The charger has a thermal fuse fitted for your safety.

The charger has a built-in safety isolating transformer for your safety.

For indoor use only.

The product conforms to CE regulations.

This battery contains Nickle Cadmium.

The mobius loop with the letters cd means the battery contains cadmium and is capable of being recycled.

Maximum operating temperature 40 degrees celcius.

Do not incinerate.

Do not submerge.

When disposing of this product, ensure it is disposed of according to all local ordinances. It must not be disposed of with general household waste.
BATTERY CHARGER ELECTRICAL CONNECTIONS

This product battery charger is provided with a standard 13 amp, 230 volt (50Hz), BS 1363 plug, for connection to a standard, domestic electrical supply. Should the plug need changing at any time, ensure that a plug of identical specification is used.

WARNING!
The wires in the power cable of this battery charger are coloured in accordance with the following code:

Blue = Neutral          Brown = Live

• This battery charger may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained. Replacement fuse covers can be obtained from your local Clarke dealer or most electrical stockists.

• If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions below. The old plug must be disposed of safely, as insertion into a 13 amp socket could cause an electrical hazard.

WIRING INSTRUCTIONS

• The wire which is coloured Blue must be connected to the terminal which is marked N or coloured Black.

• The wire which is coloured Brown must be connected to the terminal which is marked L or coloured Red.

This symbol indicates that this is a Class II appliance and does not require an earth connection.

FUSE RATING

The fuse in the plug must be replaced with one of the same rating (5 amps) and this replacement must be ASTA approved to BS1362.

If in doubt, consult a qualified electrician. Do not attempt any electrical repairs yourself.
**BATTERY CHARGING AND FITTING**

**WARNING!**
When the battery is removed from the tool after use, it may be hot. Always allow to cool before recharging. Do not recharge a hot battery.

The battery pack must be charged before operating the drill. New batteries, or a battery that has been stored for some time, may not initially accept a full charge. This is normal. It will charge fully after several charge and discharge cycles. The battery should be charged at ambient air temperatures of between 4°C and 40°C.

**To charge the battery pack, proceed as follows.**

1. Insert the battery into the battery charger. Make sure that the battery is inserted fully.

2. When the battery is fully charged, the red LED will extinguish and the green LED will remain illuminated.

3. Switch off the charger at the mains and remove the battery from the charger.

**NOTE:**
Whilst charging, the battery pack and charger may become warm. This is normal and will continue until the battery is fully charged and the charger has been disconnected from the mains supply.

**FITTING THE BATTERY**

**WARNING!**
Before removing, or installing a battery pack, make sure that the safety locked off button is in the central locked off position.

1. Slide the battery pack directly into the drill handle. The battery will only fit into the battery port in one direction.

**To remove the battery pack, proceed as follows.**

1. Press and hold the release buttons on each side of the battery pack.

2. Pull the battery out of the base of the handle.
BEFORE USE

SELECTING THE DRILLING MODE

WARNING!
Before selecting the drilling mode, or adjusting the torque setting, ensure that the directional control switch is located in the central, locked off position.

The drill is equipped with two drilling modes. Hammer drilling mode & rotary drill mode.

CAUTION!
Use only masonry drill bits (not supplied) when in the hammer drilling mode.

1. To select hammer action mode, rotate the mode selector until the symbol is aligned with the mode indicator. Set the torque selector to the symbol.

2. To select the rotary drilling mode, rotate the mode selector until the symbol, is aligned with the mode indicator, adjust the torque selector to the desired setting.

CAUTION!
Do not change the drilling mode while the chuck is rotating. Never use the hammer mode for drilling materials other than concrete and masonry.

SPEED RANGE

Use the mechanical speed selector to select the Speed range you want to use, (Gear 1 - 500 rpm, Gear 2 - 1400 rpm). ONLY use the mechanical speed selector when the chuck is stationary.
BEFORE USE

DIRECTION OF ROTATION

The direction control switch is used to alter the direction of rotation of the drill.

1 The direction of rotation is selected by moving the directional control switch to either side of the drill.

2 Reverse direction should only be used for removing screws.

WARNING!
The directional control switch can also be used as the safety locked off button to lock the trigger switch in the OFF position when the drill is not being used or adjustments are being made to the speed or torque settings. This is an important safety feature and must be observed.

TORQUE ADJUSTMENT

The drill is fitted with a torque setting ring to vary the amount of torque produced when drilling or screwdriving.

1 Select the setting by rotating the torque setting ring to align with the torque setting indicator.

2 When the symbol is selected, the clutch is designed not to slip and therefore most drilling applications should be performed on this setting.

3 To select the correct torque setting for screwdriving, first set the torque setting ring to position 1.

4 Fit and tighten the first screw, if the clutch starts to ratchet before the screw is correctly seated, rotate the setting ring to a higher number until the clutch ratchets only when the head of the screw is flush with the surface of the material.

5 The settings are provided to vary the amount of torque available to seat screws of different sizes in a variety of materials.

CAUTION!
Do not adjust the torque setting while the chuck is rotating.
OPERATION

INSERTING DRILL BITS, OR SCREWDRIVER BITS

WARNING!
Before removing, or installing a drill or screwdriver bit, make sure that the safety locked off button is in the central locked off position.

To insert a drill bit, or screwdriver bit, proceed as follows.

1. Grip the chuck collar and rotate the front of the chuck in an anti-clockwise direction.
2. Place the bit in the jaws as far as it will go.
3. Grip the chuck collar and rotate the chuck sleeve in a clockwise direction until it grips the bit tightly.

OPERATING THE DRILL

The trigger switch is used to start the drill. It also controls the speed at which it operates.

- Make sure that the directional control switch is positioned in either the forward, or reverse position. See page 9. The trigger switch will not operate if the directional control switch is in the central locked off position.
- Squeeze the trigger switch and the drill will start.
- The speed can be increased by increasing the pressure on the trigger.
- The speed will increase up to the maximum speed selected on the mechanical speed selector. (Gear 1 - 500 rpm, Gear 2 - 1400 rpm)
- Release the trigger switch to stop the drill.

The drill is fitted with an electric brake which stops the motor when the trigger is released.
OPERATION

DRILLING TIPS

- Always use sharp, good quality drill bits. The performance of your drill is dependant on the quality of the bits used.
- Reduce the pressure on the drill bit when it is about to break through. This will prevent the drill from jamming.
- If drilling a large hole, first drill a pilot hole using a smaller drill bit.
- Always apply pressure to your drill bit in a straight line and, where possible, at right angles to the workpiece.
- When drilling holes or driving screws into walls, floors etc., always make sure that there are no live electrical wires in the path of the bit.
- When drilling in metal, the materials being drilled can become hot. To reduce overheating use a suitable cooling lubricant. No cooling lubricant is necessary when drilling cast iron or brass as they should be drilled dry.
- To prevent the drill bit from slipping when starting to drill a hole in metal, use a centre punch to make an indentation at the start point.
- When drilling in wood, clamp a piece of scrap wood to the underside of the material to avoid splintering.
- Large holes should be drilled with wood augers, flat wood bits or hole saws.

SCREWDRIVING TIPS

- Place the screwdriver bit in the head of the screw and apply light pressure to the drill.
- Start the drill slowly and then gradually increase the speed.
- Release the trigger switch when the clutch operates.
- If the screw head is not flush with the material, increase the torque by adjusting the torque setting ring and start again.
- Make sure that the screwdriver bit is inserted straight and upright in the screw head, or the screw may be damaged.
- When driving wood screws, pre-drill pilot holes to make driving easier and to prevent splitting the material.
- Select the forward direction to drive screws in and reverse direction to take them out.
FITTING THE AUXILIARY HANDLE

1. Loosen the auxiliary handle by rotating the grip section anticlockwise a few turns.

2. Slide the auxiliary handle over the neck of the drill and into position as shown.

3. Secure the handle in place by rotating the grip section clockwise until the handle is held firm.

MAINTENANCE

WARNING!
Always remember to locate the direction control switch in the central locked off position and remove the battery pack, before cleaning the drill.

- After use, remove the drill or screwdriver bit, open the chuck jaws and tap the side of the chuck to remove any dust, or chippings etc.
- Keep the cooling vents clear.
- Clean the motor housing with a soft cloth.
- Keep the handles clean and free from oil and grease.
- Keep the charger clean and free from dust and grease.
- Worn or damaged parts must be replaced by qualified personnel.
- There are no user servicable parts inside the drill.

REMOVING THE CHUCK

1. Open the jaws as far as possible.

2. Using a cross head screwdriver (inserted, down through the jaws), remove the securing screw. The screw has a LEFT HAND THREAD and must therefore be turned CLOCKWISE.

3. Grasp the chuck and unscrew it from the drill in the normal manner, i.e., by screwing it ANTICLOCKWISE.
## PARTS LIST

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<th>Description</th>
<th>Qty</th>
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## PARTS & SERVICE

For spare parts and service, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

### PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

**PARTS:** parts@clarkeinternational.com

**SERVICE:** service@clarkeinternational.com
When disposing of this product, ensure it is disposed of according to all local ordinances. It must not be disposed of with general household waste.
A SELECTION FROM THE VAST RANGE OF

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