

# CLARKE<sup>®</sup>

## CONTRACTOR<sup>®</sup>



### SDS+ ROTARY HAMMER DRILL

MODEL NO: CON400RHD

PART NO: 6479510

### OPERATION & MAINTENANCE INSTRUCTIONS



LS0812

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## INTRODUCTION

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Thank you for purchasing this CLARKE SDS+ Rotary Hammer Drill.

Before attempting to use this product, 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 your purchase giving you long and satisfactory service.

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## GUARANTEE

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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.

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## WHAT'S SUPPLIED

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Unpack your tool and make sure that the following items are present. Should there be any damage caused during transit contact your Clarke dealer immediately.

Rotary Hammer Drill with SDS+ Chuck	Auxiliary Handle
Depth Stop Rod	Keyed Drill Chuck
1 x 150 mm x 6 mm Drill Bit	1 x Dust Shield Cup
1 x 150 mm x 10 mm Drill Bit	1 x 150 mm x 8 mm Drill Bit

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# GENERAL SAFETY RULES

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**WARNING: READ ALL INSTRUCTIONS. FAILURE TO FOLLOW ALL INSTRUCTIONS LISTED 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.**

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## WORK AREA

1. **Keep work area clean and well lit.** Cluttered and 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.

## 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.

## 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.

## 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 before making any adjustments, changing accessories, or storing power tools.** Such preventative 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 tools 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 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.

## 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.

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## HAMMER DRILL SAFETY INSTRUCTIONS

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1. Only use the drill in the manner and for the functions described in these instructions.
2. Using the correct bit. Use the appropriate drill bit for the material being drilled. Different bits are available from your Clarke dealer.
3. Use of the mains cable. Keep the mains cable well away from the drill and ensure an adequate electrical supply is close at hand so that the operation is not restricted by the length of the cable.
4. Working on the bench. Allow sufficient clearance beneath the work to ensure the drill bit does not come into contact with the floor, table etc.
5. Switching off. Never place the drill on a table or bench if it has not completely stopped. The drill bit will continue to rotate for a short time after the trigger has been released to stop the drill.
6. Drilling into walls. Do not drill into walls or cavities before checking for hidden electrical wires or water pipes etc.
7. Finishing drilling. Do not touch the drill bit immediately after use, allow time for it to cool.
8. Use outdoor extension leads. If working outdoors, always use an approved cable extension suitable for the power rating of this tool (see specifications), the conductor size should also be at least the same size as that on the machine, or larger. When using a cable reel, always unwind the cable completely. We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).
9. Cooling agents. When drilling metals, always use a cooling agent i.e. cutting/soluble oil.

## **SPECIFIC SAFETY RULES**

10. For your safety, do not plug in your power tool until you have read and understood this Owner's Manual.
11. **WEAR EYE PROTECTION.** Use face or dust mask along with safety goggles if operation is dusty. Use hearing protection, particularly during extended periods of operation, wear safety shoes.
12. "Wear ear protectors with impact drills. Exposure to noise can cause hearing loss"
13. **DO NOT** wear gloves, jewellery, neckties or loose clothing.
14. **DO NOT** drill, cut or sand material too small to be securely held.
15. **ALWAYS** keep hands out of the path of the drill bit and saw blade. Avoid awkward hand positions where a sudden slip could cause your hand to move into the path of the drill bit or saw blade.
16. **SECURE WORKPIECE.** Use clamps or a vice to hold the work when practical. It is safer than using your hand and it frees both hands to operate the tool.
17. **MAKE SURE** there are no nails or foreign objects in the part of the workpiece to be cut, drilled or sanded.

## ELECTRICAL CONNECTIONS



**WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.**

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.

This product 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.

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 shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

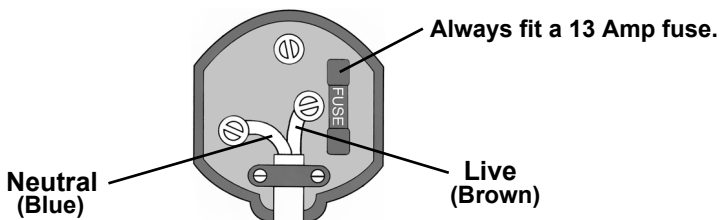


**WARNING! The wires in the power cable of this product are coloured in accordance with the following code:  
Blue = Neutral    Brown = Live**

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- 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**.

**Plug must be BS1363/A approved.**



**Ensure that the outer sheath of the cable is firmly held by the clamp**

**We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)**

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.



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

# SETUP



**WARNING: TO REDUCE THE RISK OF PERSONAL INJURY, TURN THE UNIT OFF AND DISCONNECT IT FROM THE MAINS SUPPLY BEFORE INSTALLING AND REMOVING ACCESSORIES**

## AUXILIARY HANDLE & DEPTH STOP

**NOTE:** The depth stop can only be used if the handle is installed.

1. Loosen the auxiliary handle by rotating the shaft of the auxiliary handle anticlockwise
2. Slide the auxiliary handle assembly over the chuck and onto the body of the drill.
3. Insert the depth stop rod into the holder in the auxiliary handle assembly.
4. Secure the handle in position by rotating the shaft of the auxiliary handle clockwise.
  - DO NOT overtighten.



### ADJUSTING THE DEPTH STOP

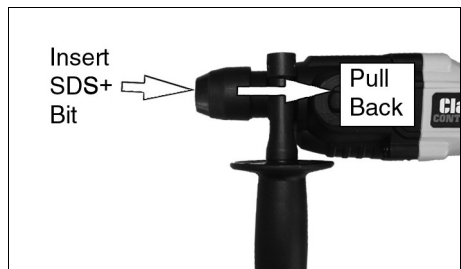
To set the depth stop, loosen the handle by turning the auxiliary handle anticlockwise and slide the rod to the required position.

- The scale markings on the rod are for reference only.

## INSERTING AND REMOVING SDS BITS

This machine uses SDS+ bits and chisels

1. Wipe clean the bit shank.
2. Pull back the locking sleeve and insert the SDS+ bit.
3. Release the locking sleeve.
4. Pull on the bit to check if it is properly locked.
  - The hammering function requires the bit to be able to move axially when locked in the tool holder.





5. To remove a bit pull back the locking sleeve and pull the bit out of the tool holder.

**NOTE:** The supplied dust shield cap can be placed over the shaft of the bits before inserting it into the SDS chuck this is used when drilling overhead to prevent dust or debris entering the drill vents.

## USING THE KEYED CHUCK



CAUTION: TO PREVENT DAMAGE, DO NOT USE THE HAMMER DRILL MODE WHEN USING THE KEYED CHUCK.

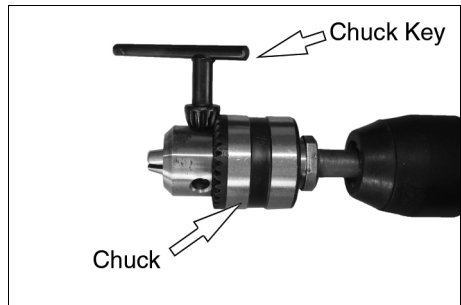
1. The keyed chuck is inserted in the same way as SDS Bits.



## INSERTING A NORMAL DRILL BIT INTO CHUCK

1. Open the chuck by rotating the chuck sleeve anticlockwise until the jaws are open sufficiently to take the drill bit.
2. Place the drill bit in the jaws of the chuck as far as it will go.
3. Insert the chuck key in one of the three holes in the chuck and tighten in a clockwise direction.

- Make sure the head of the chuck key is firmly located on the cogged barrel of the chuck when tightening.



**WARNING: REMOVE THE CHUCK KEY BEFORE OPERATING THE DRILL.**

4. To remove the bit, release by inserting the chuck key in one of the holes and turning in an anticlockwise direction.

# OPERATION

## PROPER HAND POSITION

Always hold the drill securely and use the auxiliary handle as shown.

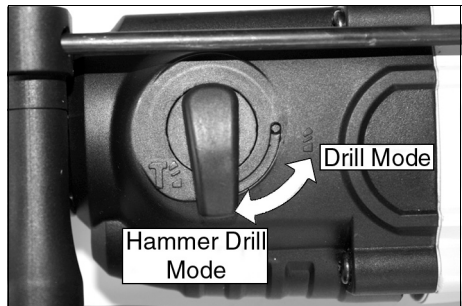




## SELECTING THE OPERATING MODE



CAUTION: THIS OPERATION SHOULD ONLY BE PERFORMED WHEN THE DRILL IS AT A COMPLETE STOP.

1. Rotate the mode selector to the required position.
  - The table below describes each position.



Symbol	Mode	Symbol	Mode
	Drilling only		Hammer Drill

## SWITCHING ON & OFF

1. Insert the plug into a mains power socket.
2. Squeeze the trigger to start the drill.
3. During use, press the trigger lock-on button and the drill will run continuously without you needing to press the trigger.
4. Squeeze the trigger again briefly to release the trigger lock & stop the drill.



## ADJUSTMENTS



CAUTION: THESE ADJUSTMENTS SHOULD ONLY BE PERFORMED WHEN THE DRILL IS AT A COMPLETE STOP.

### FORWARD / REVERSE SELECTION

1. Set the forward/reverse lever to the required setting.

### SETTING THE SPEED

1. Turn the speed control dial to the desired level.

**NOTE:** The required setting is a matter of experience.

- Set the dial to a low setting when drilling into soft or brittle materials.
- Set the dial to a higher setting when drilling in harder materials, .



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# MAINTENANCE

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**WARNING: MAKE SURE THAT THE SDS+ ROTARY HAMMER DRILL IS SWITCHED OFF AND DISCONNECTED FROM THE MAINS SUPPLY BEFORE STARTING ANY CLEANING OR MAINTENANCE PROCEDURES.**

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Before commencing any maintenance procedures, always ensure the drill is isolated from the electrical supply by switching off and removing the plug from the socket.

## BEFORE USE

1. Ensure all fixing screws remain tight to ensure the drill is in safe working condition.
2. Inspect the power cable to ensure it is sound and free from cracks, bare wires etc.

## CLEANING

1. Ensure all air ventilation slots are clear of blockages, (use compressed air to clean the machine if possible).
2. After use, clean all dust and swarf from the drill.
3. Clean the exterior of the drill with a soft cleaning cloth. Never use any chemicals or harsh abrasives to clean the tool.
  - Avoid using solvents when cleaning plastic parts, most plastics are susceptible to damage from the various types of commercial solvents.

## GENERAL MAINTENANCE

- All bearings etc, in this tool are lubricated with a sufficient amount of high grade lubricant for the tools lifetime under normal operating conditions, therefore no further lubrication is necessary
- Refer to your CLARKE dealer if internal maintenance is required.

# SPECIFICATIONS

		<b>CON400RHD</b>
Operating voltage and frequency		230V ~ 50Hz
Input Wattage @ 230V Typical load		400 W
Chuck Capacity		1.5 - 10 mm
Rotational Speed		0-1500 RPM
Impact Rating		0-6600 (blows/min)
Maximum drilling diameter	Steel:	Ø 10 mm
	Masonry	Ø 10 mm
	Wood	Ø 30 mm
Sound Power Measured		99.0 dB LWA
Sound Power Guaranteed		102.0 dB LWA
Vibration (RMS) (a) (m/s)		10.77 m/s <sup>2</sup>
Protection Class		II
Dimensions (L x W x H)		280 x 70 x 224 mm
Weight		2 Kg

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## REPLACEMENT PARTS

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The following parts are replaceable by the end user, refer to the Clarke servicing department for any other repairs.

DESCRIPTION	PART NUMBER
Dust Shield Cup	TMCCON400RHD01
Keyed 3 Jaw Chuck	TMCCON400RHD02
Auxiliary Handle	TMCCON400RHD03
Depth Stop Rod	TMCCON400RHD04
1 x 150 mm x 6 mm Drill Bit	TMCCON400RHD05
1 x 150 mm x 10 mm Drill Bit	TMCCON400RHD06
1 x 150 mm x 8 mm Drill Bit	TMCCON400RHD07

# DECLARATION OF CONFORMITY



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC *Electromagnetic Compatibility Directive.*  
2006/42/EC *Machinery Directive.*  
2002/95/EC *Restriction of Hazardous substances.*

The following standards have been applied to the product(s):

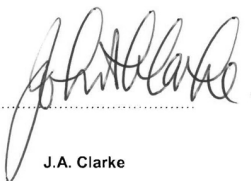
*EN61000-3-2:2006+A1:2009+A2:2009, EN6100-3-3:2008, EN60745-1:2009+A11:2010, EN60745-2-6:2010, EN55014-1:2006+A1:2009, EN55014-2:1997+A1:2001+A2:2008*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2011

**Product Description:** 400W Light Weight Rotary Hammer drill  
**Model number(s):** CON400RHD  
**Serial / batch Number:** N/A  
**Date of issue:** 12/06/2012

Signed:



J.A. Clarke  
Director

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