Clarke®

CONTRACTOR®

ROTARY HAMMER DRILL

MODEL NO: CON720RHD

PART NO: 6480215

OPERATION & MAINTENANCE INSTRUCTIONS

UK CA | CE

ORIGINAL INSTRUCTIONS

GC 0721- iss 3

INTRODUCTION

Thank you for purchasing this CLARKE 5-Function 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.

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 affect your statutory rights.

INVENTORY

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

Rotary Hammer	Side Handle Assembly (fitted)
SDS+ Chuck	Keyless Drill Chuck (non hammer mode only)
Depth Stop Rod	1 x Dust Shield Cap
1 x 250 mm Bull Point Chisel	1 x 250 mm x 20 mm Flat Chisel
1 x 150 mm x 8 mm Drill Bit*	1 x 150 mm x 10 mm Drill Bit*
1 x 150 mm x 12 mm Drill Bit*	

SAFETY PRECAUTIONS

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 WARNINGS LISTED BELOW REFERS TO YOUR HAMMER DRILL.

WORK AREA

1. **Keep the 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 cable. Never use the cable for carrying, pulling or unplugging the power tool. Keep cable 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 cable suitable for outdoor use.** Use of a cable 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. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

3. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes or hearing protection used for appropriate conditions will reduce personal injuries.
4. **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.
5. **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.
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 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 battery 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 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.** *Poorly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
7. **Use the power tool and accessories 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 intended could result in a hazardous situation.*

SERVICING

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.*

HAMMER DRILL SAFETY INSTRUCTIONS

1. Only use the drill in the manner and for the functions described in these instructions.
2. Use the appropriate drill bit for the material being drilled. Different bits are available from your Clarke dealer.
3. 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. Allow sufficient clearance beneath the work to ensure the drill bit does not come into contact with the floor, table etc.
5. 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. Do not drill into walls or cavities before checking for hidden electrical wires or water pipes etc.
7. Do not touch the drill bit immediately after use, allow time for it to cool.
8. 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. When drilling metal, always use a cooling agent i.e. cutting/soluble oil.
10. 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.
11. Wear ear protectors with impact drills. Exposure to noise can cause hearing loss.
12. DO NOT wear gloves, jewellery, neckties or loose clothing.
13. DO NOT drill material too small to be securely held.
14. ALWAYS keep your hands out of the path of the drill bit. Avoid awkward hand positions where a sudden slip could cause your hand to move into the path of the drill bit.

15. 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 drill.
16. MAKE SURE there are no nails or foreign objects in the part of the workpiece to be drilled.
17. The SDS Chuck is for use with SDS Bits only.
18. The standard chuck should be used for normal (non hammer) drilling into wood, metal or masonry.

ENVIRONMENTAL RECYCLING POLICY

Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

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. Connecting it to any other power source may cause damage.

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.

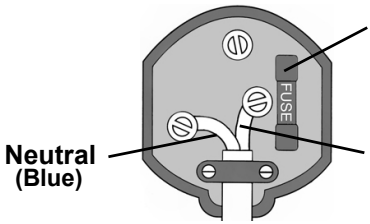
If the plug has to be changed due to damage, a replacement should be fitted, following the wiring instructions shown below. The old plug must be disposed of as insertion into a mains socket could cause an electrical hazard.

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 coloured **Blue** must be connected to the terminal marked **N** or coloured **Black**.
- The wire coloured **Brown** must be connected to the terminal 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)

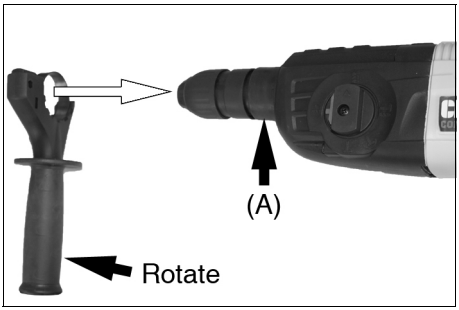
If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.

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.

ADJUSTING THE SIDE HANDLE

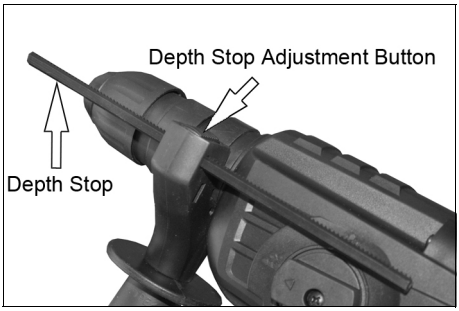


1. Loosen the handle by rotating the shaft of the handle clockwise (when viewed from above)
2. Slide the handle assembly over the chuck and onto the body of the drill. (A)
3. Position the handle in the desired position.
4. Secure the handle in position by rotating the shaft of the handle anticlockwise (when viewed from above), DO NOT overtighten.

FITTING THE DEPTH STOP

The depth stop is fitted within the side handle and can only be used if this handle is fitted.

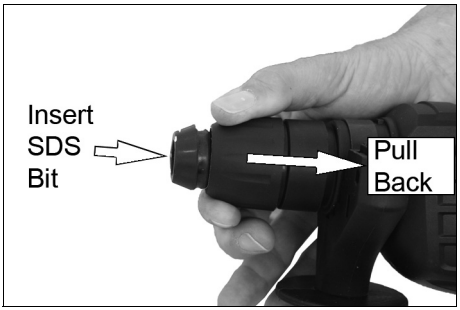
1. To set the depth stop, hold down the depth stop adjustment button and slide the rod in and out to the required position.



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.



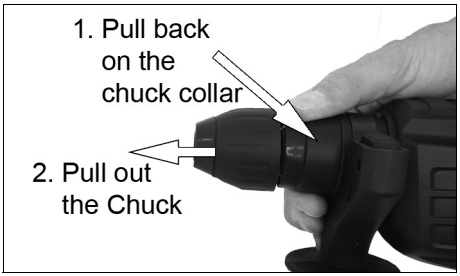
5. To remove a bit pull back the locking sleeve and pull the bit out of the tool holder.

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

CHANGING THE CHUCK

1. Slide the chuck collar back and hold it back.
2. Remove the chuck.
3. Insert the new chuck.
4. Release the chuck collar.

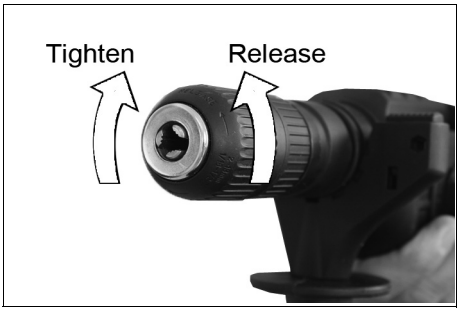
NOTE: Make sure the chuck is secure before use.



USING THE STANDARD CHUCK (NOT HAMMER MODE)

1. Open the chuck by rotating the chuck sleeve anticlockwise.
2. Place the drill bit in the jaws of the chuck as far as it will go.
3. Rotate the chuck sleeve clockwise to secure the drill bit.

NOTE: Do not use the hammer modes when using the standard chuck.



OPERATION

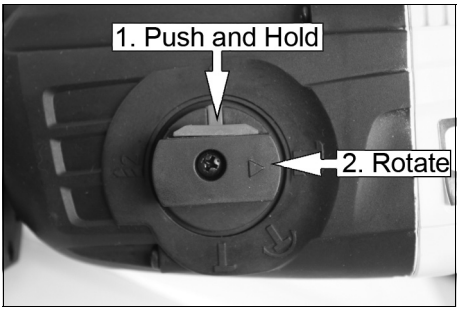
PROPER HAND POSITION

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.

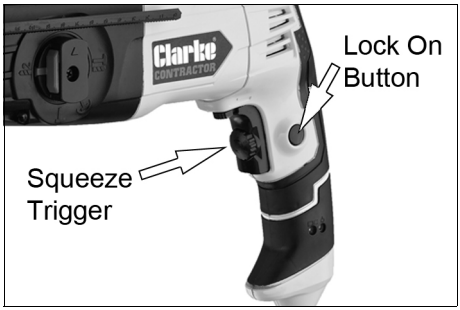
1. Push and hold the red button on the mode selector.
2. Rotate the mode selector to the required position.
   - The table below describes each position.



Symbol	Mode	Symbol	Mode
1	Drilling only; Speed 1 (Rated: 0 - 1020 RPM		Hammer only (SDS chuck and bits only)
2	Drilling only; Speed 2 (Rated: 0 - 2300 RPM)		Chisel orientation adjustment (SDS chuck and bits only)
	Drill + Hammer; (SDS chuck and bits only)		

SWITCHING ON & OFF

1. Insert the mains 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.

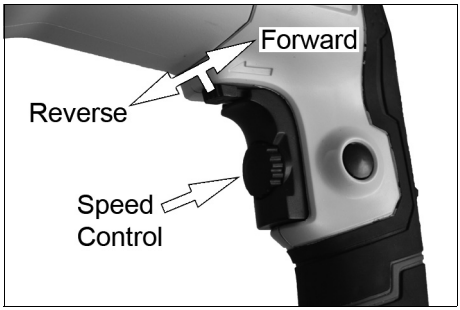


ADJUSTMENTS

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.

- When chiselling or drilling in soft, brittle materials or when minimum break-out is preferable, set the dial to a low setting.
- When breaking or drilling in harder materials, set the dial to a higher setting.

DRILLING TIPS

- Always use sharp, good quality drill bits. The performance of your drill is dependant on the quality of the bits used.
- After drilling material to the full depth, do not simply pull out the drill but maintain chuck rotation to ease withdrawal.
- 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 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.
- When drilling metal, the harder the metal the slower the drill speed. Similarly, the bigger the drill bit the slower the speed.
- 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.
- 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.
- 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.

MAINTENANCE

WARNING: MAKE SURE THAT THE 5 FUNCTION ROTARY HAMMER DRILL IS SWITCHED OFF AND DISCONNECTED FROM THE MAINS SUPPLY BEFORE STARTING ANY CLEANING OR MAINTENANCE PROCEDURES.

BEFORE USE

1. Ensure all fixing screws remain tight to maintain a 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.

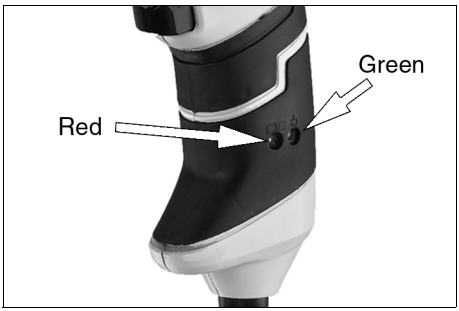
GENERAL MAINTENANCE

- 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.

INDICATORS

The **Green** indicator is a 'Power present' indicator. This illuminates when the product is plugged into a live socket.

The **Red** indicator is a brush wear indicator. It illuminates when the motor brushes need replacing, Refer to your clarke dealer.



SPECIFICATIONS

Model No		CON720RHD
Operating voltage and frequency:		230V ~ 50Hz
Input Wattage @ 230V Typical load:		720W
3 Jaw Chuck Capacity		0 - 13mm
Rotational Speed	Range 1	0 - 1020 rpm
	Range 2	0 - 2300 rpm
Impact Rating		4700 (blows/min)
Impact Energy		2.7J
Maximum drilling diameter:	Steel:	Ø 13 mm
	Concrete	Ø 26 mm
	Wood	Ø 40 mm
Sound Power Measured:		101 dB LWA
Vibration (RMS)(a)	At Main Handle	11.30 m/s^2
	At Auxiliary Handle	12.61 m/s^2
Protection Class		II
Dimensions (L x W x H)		400 x 250 x 90 mm
Weight		3.5 Kg

REPLACEMENT PARTS

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

DESCRIPTION	PART NUMBER
Dust Shield Cap	TMCCONRHD720201
Flat chisel 20 X 250mm	TMCCONRHD720202
Point chisel 14 X 250mm	TMCCONRHD720203
Drill bit 12 X 150 mm	TMCCONRHD720204
Drill bit 10 X 150 mm	TMCCONRHD720205
Drill bit 8 X 150 mm	TMCCONRHD720206
Auxiliary handle + Depth Gauge	TMCCONRHD720501
SDS Chuck	TMCCONRHD720502
3 jaw chuck	TMCCONRHD720503

UK CA

Clarke® 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 statuary requirement(s):

Electromagnetic Compatibility Regulations 2016

Supply of Machinery (Safety) Regulations 2008

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

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

EN 55014-1:2017/A11:2020, EN 55014-2:2015, EN 61000-3-2:2019, EN 61000-3-3:2013/A1:2019
EN 60745-1:2009+A11:2010, EN 60745-2-6:2010, IEC 62321-5-1:2013,IEC 62321-4-1:2013,
IEC 62321-7-2-1:2017, IEC 62321-7-1-1:2015, IEC 62321-6-1:2015,IEC 62321-8:2017.

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

The UKCA mark was first applied in: 2021

Product Description:	5 Function Electric Rotary Hammer Drill.
Model number(s):	CON720RHD.
Serial / batch Number:	N/A
Date of Issue:	27/07/2021

Signed:

J.A. Clarke
Director

CE

Clarke® INTERNATIONAL

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

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):

2014/30/EU	*Electromagnetic Compatibility Directive.*
2006/42/EC	*Machinery Directive.*
2011/65/EU	*Restriction of Hazardous substances.*

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

EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013,
EN 60745-1:2009+A11:2010, EN 60745-2-6:2010, IEC 62321-5-1:2013, IEC 62321-4-1:2013,
IEC 62321-7-2-1:2017, IEC 62321-7-1-1:2015, IEC 62321-6-1:2015, IEC 62321-8:2017.

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:	5 Function Electric Rotary Hammer Drill.
Model number(s):	CON720RHD.
Serial / batch Number:	N/A
Date of Issue:	27/07/2021

Signed:

J.A. Clarke
Director

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