BENCH GRINDER
MODEL CBG6RP
OPERATING & MAINTENANCE INSTRUCTIONS
Thank you for purchasing this CLARKE Bench Grinder
Before attempting to operate this machine, please read this instruction manual thoroughly and follow all directions carefully. By doing so you will ensure the safety of both yourself and others around you, and at the same time, you should look forward to it giving you long and trouble free service.

GUARANTEE
This product is guaranteed against faults in manufacture for 12 months from purchase date. Keep your receipt as proof of purchase. This guarantee is invalid if the product has been found to have been abused in any way, or not used for the purpose for which it was intended, or to have been tampered with in any way. The reason for return must be clearly stated. This guarantee does not affect your statutory rights.

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GENERAL SAFETY RULES

1. KEEP GUARDS IN PLACE and check they are not damaged.
2. REMOVE ADJUSTING KEYS AND SPANNERS. Make a habit of checking to see that all adjusting keys and spanners are removed from the machine before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and work benches invite accidents.
4. DO NOT USE IN A DANGEROUS ENVIRONMENT. Do not use any power tools in damp or wet areas, or expose them to rain. Keep work area well lit.
5. KEEP CHILDREN AWAY. All visitors, but in particular children, should be kept at a safe distance away from the work area.
6. MAKE YOUR WORKSHOP CHILDPROOF with padlocks, master switches, or by removing starter keys.
7. DO NOT FORCE YOUR BENCH GRINDER. It will do a better and safer job if used at the rate for which it was designed.
8. WEAR THE PROPER APPAREL. No loose clothing, neckties, rings, bracelets, or any other jewellery which might get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

9. ALWAYS USE SAFETY GOGGLES. Everyday glasses only have impact resistant lenses, they are not safety glasses. Also use a face mask if grinding operation is generating a lot of dust.

10. DO NOT OVERREACH. Keep a firm footing and proper balance at all times.

11. DISCONNECT FROM THE MAINS before attempting any kind of service work or adjustment or when changing accessories such as grinding wheels.

12. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in the OFF position before plugging in.

13. CHECK FOR DAMAGED PARTS. Before further use of tool, any damaged part should be carefully inspected and checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, mounting, and any other damage that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced. If in any doubt contact your local dealer.

**ADDITIONAL SAFETY RULES FOR BENCH GRINDERS**

1. Replace a cracked wheel immediately.

2. Always use guards and eyeshield.

3. Do not overtighten the wheel nut.

4. Adjust distance between wheel and tool rest to maintain 1/16" (1.6mm) or less separation, as the diameter of the wheel decreases with use.

5. Use a grinding wheel suitable for the speed of grinder. (See technical data).

6. Stand slightly to one side of the bench grinder during operation, not facing directly in front.

7. One minute of free rotation is necessary for a new grinding wheel. Should the new grinding wheel be faulty and break, it will happen within the first minute of operation.

8. NEVER remove the wheel guard except when changing a worn wheel.

9. Do not use the grinding wheel for any kind of cutting.

10. Do not over stress the grinding wheel.

11. NEVER LEAVE A GRINDER RUNNING UNATTENDED. TURN POWER OFF. Do not leave tool until it comes to a complete stop.

12. USE ONLY APPROVED REPLACEMENT GRINDING WHEELS. Contact your local dealer or Clarke International for approved replacement grinding wheels and accessories. The use of inferior accessories may cause risk of injury.

13. Never use the side of the grinding wheel. Use only the front face.
PRE-ASSEMBLY CHECK

Before assembling your Bench Grinder, please check to ensure that all the parts, shown below, have been included.

Note: if any parts are missing or damaged, please contact your local dealer or Clarke International for replacement.

1. **Main Body** (A) - switch and power cable with plug are included.

2. **Two Eye Shields (B)**, each complete with:
   - 1 x nut,
   - 1 x bolt,
   - 1 x spring washer
   - 2 x flat washers.

3. **Two Spark Arrestor brackets (C)**, each complete with:
   - 1 x screw,
   - 1 x spring washer
   - 1 x flat washer.

4. **Two Tool Rests (D)** - **Left and Right hand**, each complete with:
   - 2 x screws,
   - 2 x spring washers
   - 2 x flat washers.
ELECTRICAL CONNECTIONS

Connect the mains lead to a standard, 240 volt (50Hz) electrical supply through a fused good quality (rubber preferred) 13 amp BS 1363 plug, or a suitable fused isolator switch.

WARNING: THIS APPLIANCE MUST BE EARTHED

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

- Green & Yellow - Earth
- Blue - Neutral
- Brown - Live

As the colours of the flexible cord of this appliance may not correspond with the coloured markings identifying terminals in your plug, proceed as follows:

- Connect GREEN & YELLOW cord to terminal marked with a letter “E” or Earth symbol ¯ or coloured GREEN or GREEN & YELLOW.
- Connect BROWN cord to terminal marked letter “L” or coloured RED.
- Connect BLUE cord to terminal marked letter “N” or coloured BLACK.

We strongly recommend that this unit is fitted with a Residual Current Device (RCD).

FUSE RATING

The fuse in the plug for this appliance must be rated at 5 amps.

IMPORTANT NOTICE

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non rewirable) please note:

1. This plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted in a socket outlet.

2. Never use the plug without the fuse cover fitted.

3. Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).

4. Replacement fuse covers can be obtained from your local dealer, an electrical stockist, or CLARKE INTERNATIONAL Spare Parts Department

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

1. Fix the Tool Rests, with the screws and washers provided, in the manner shown in Fig. 1. The Tool Rests are adjustable and should be positioned 1/16" (1.6mm) from the grinding wheels. Ensure that the Tool Rest is firmly fixed and horizontal.

2. Assemble the Spark Arrester brackets onto the wheel guards, using the screws and washers provided, in the manner shown in Fig. 2.

   **NOTE:** Before fully tightening the screws, each bracket should be adjusted by sliding it as close to the grinding wheels as possible, without impairing the wheels rotation. As the wheel wears down with use, it will be necessary to re-adjust the spark arrester brackets in order to maintain a gap between the spark arrester and the bracket. This gap should never be allowed to become greater than 1/8".

3. Assemble the Eye Shields on to the Spark Arrester brackets using the nuts, bolts and washers supplied, in the manner shown in Fig. 3. The angle for the Eye Shields can be adjusted to suit the operator.

4. We recommend that your Clarke Bench Grinder is secured to your workbench before operation, using the pre-drilled holes in the base. Do not overtighten the mounting bolts as this could damage the plastic base.
MAINTENANCE

(A) EYESHIELD and SPARK ARRESTER BRACKET ADJUSTMENT

The see-through eye shields allow the user to see the operation clearly and to work precisely. The eye shields can be adjusted up and down to suit the operator.

The Spark Arrester brackets should be adjusted so that they are as close as possible to the wheel without impairing the wheels rotation.

IMPORTANT: Even though the Eye Shields are fitted, you should nevertheless ALWAYS wear safety goggles when operating a grinding machine.

(B) TOOLREST ADJUSTMENT

The appropriate adjustment of the Tool Rests provides the operator with a correct working angle and a firm and efficient base for working. Adjustments can be made by loosening the mounting screws and moving the Tool Rest to within 1/16" (1.6mm) from the wheel. Due to the wear on the grinding wheel, it will be necessary to adjust the Tool Rests from time to time. Always re-tighten the mounting screws once adjustment is complete.

(C) CHANGING THE GRINDING WHEEL

To renew or change the grinding wheels, follow the steps given below.

1. Switch off and un-plug from mains power supply. Disassemble outer covers, left or right, by removing the three cover retaining nuts, bolts and washers.
2. Slacken the Spark Arrester bracket and Tool Rest mounting screws, and pull the bracket and Tool Rest away from the wheel.
3. Hold the grinding wheel firmly and remove the nut and flange from the shaft, noting that the left hand wheel nut has a left hand thread.
4. Take off the used wheel and replace with the new one, ensuring:
   a. the paper blotters are in place either side of the wheel.
   b. that there is a good balanced rotation of the grinding wheel, and
   c. you do not overtighten the wheel nut.
5. Readjust the Tool Rest and Spark Arrester Brackets as described above.
6. Switch ON the machine and allow it to rotate freely for at least one minute.

(D) DRESSING THE WHEEL

It will be necessary from time to time to dress the wheel to obtain a true working surface. This should be done ONLY with an approved dressing tool, which can be obtained from your CLARKE dealer, quoting Model No. GWD-1. Part No. 6501120.
TECHNICAL DATA

Motor ................................................................. 230v ~ 50hz; 1ph
Speed ................................................................. 2900 RPM
Power Rating ......................................................... 150Watts
Wheel Size .......................................................... 150 X 20 X12.7 Mm
Fuse Rating ......................................................... 5 Amps
Wheels ................................................................. 1 X Fine; 1 X Coarse
Part No. .................................................. 6500520
Weight (Packed) ................................................... 8 kg
Duty Cycle .......................................................... 5/5 Min.*

*This machine may be operated for 5 minutes in any 10 minute period.
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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
PARTS & SERVICE FAX: 020 8558 3622
or e-mail as follows:

PARTS: Parts@clarkeinternational.com
SERVICE: Service@clarkeinternational.com
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Clarke INTERNATIONAL
Hemmall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com