

BENCH GRINDER MODEL NO: CBG6250

PART NO: 6500522

OPERATION & MAINTENANCE



ORIGINAL INSTRUCTIONS

GC0321 - rev 5

INTRODUCTION

Thank you for purchasing this CLARKE Bench Grinder.

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.

Please keep these instructions in a safe place for future reference.

SPECIFICATIONS

Model Number	CBG6250
Part Number	6500522
Rated Voltage	230V~50Hz
Rated Input	150 W (S1)
No Load Speed	2980 RPM
Sound Pressure Level LpA	81 db
Sound Power Level LWA	90 db
Uncertainty Factor K	3
Weight	7.4 kg
Abrasive wheels supplied	Coarse (36 Grit), Fine (60 Grit)
Wheel dimensions	Dia (150mm) Thickness (20 mm) Bore (12.7 mm)

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.

POWER TOOL SAFETY WARNINGS

1) 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.

2) ELECTRICAL SAFETY

- 1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
- 2. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 3. Do not abuse the cable. Never use it for carrying, pulling or unplugging the power tool. Keep the cable away from heat, oil, sharp edges or moving parts. Damaged or entangled cables increase the risk of electric shock.
- 4. 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
- 5. If operating the power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.

3) PERSONAL SAFETY

- 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 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 wrench before turning the power tool on**. A wrench left attached to a rotating part 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.

4) POWER TOOL USE AND CARE

- 1. **Do not force the power tool.** Use the correct accessories 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 plug from the power source before 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 it. 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 tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- 6. Use the power tool and accessories in accordance with these instructions and in the manner intended, 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.
- 7. The performance of this tool may vary, depending upon variations in line voltage. Extension cable usage may also affect performance.

5) SERVICING

1. Have your power tool serviced by qualified service personnel using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

6) BENCH GRINDER SPECIFIC SAFETY WARNINGS

- 1. Hold the hand tool or blade being sharpened firmly to prevent loss of control.
- 2. NEVER install a abrasive flap wheel or sanding disc on this grinder.
- 3. Always replace a cracked grinding wheel immediately.
- 4. Never use damaged or incorrect grindstones. The stone and retaining bolt were specially designed for your grinder, for optimum performance and

safety of operation. Inspect the condition of the grinding stone before use and do not use if any damage is noticed.

- 5. Do not use aluminium oxide wheels when grinding non-ferrous metals such as aluminium or brass. Use silicon carbide wheels (not included) for grinding non-ferrous metals.
- 6. Always use the tool rests to steady the workpiece. If the tool attachments are not used, the torque of the spinning grinding/polishing wheel may pull the workpiece from your hands.
- 7. Never leave the grinder unattended when it is connected to an electrical power supply. Switch off the machine and unplug it before leaving.
- 8. ALWAYS check for damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine if it would operate properly and perform its intended function. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tool's operation. A part that is damaged should be properly repaired or replaced at an authorised service Centre. Following this rule will reduce the risk of electric shock, fire or serious injury.
- 9. Gloves, manufactured to the current European safety standards should be worn when operating grinding equipment.
- 10. Eye protection manufactured to the current European safety standards should be worn when operating grinding equipment.
- **NOTE:** Bench grinders used in industrial environments may be subject to the requirements of The Provision and Use of Work Equipment regulations 1992 (particularly regarding the training requirement of The Abrasive Wheels Regulations 1970), or other legislation. If in doubt seek advice.

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.

SAFETY SYMBOLS



Read instruction manual before use

This machine is not suitable for hand held use

Not permitted for wet grinding

Wear eye protection

Wear ear defenders

Wear protective gloves

ELECTRICAL CONNECTIONS



WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.

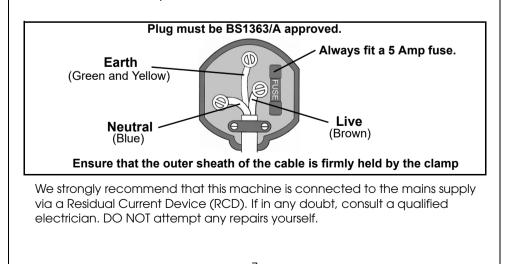
Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.

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.

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 **Blue** wire must be connected to the terminal which is marked **N** or coloured **Black**.
- The **Brown** wire must be connected to the terminal which is marked **L** or coloured **Red**.
- The **Yellow and Green** wire must be connected to the terminal which is marked **E** or ↓ or coloured **Green**.



CARTON CONTENTS

The following Items should be supplied in the carton, if any parts are missing or damaged, please contact the clarke dealer where you purchased the bench grinder.

1 x Bench Grinder Assembly (2 grinding wheels attached)

2 x Eye Shields (1 with Built-in Magnifying Lens)

2 x Eye Shield Arms with bolts and washers

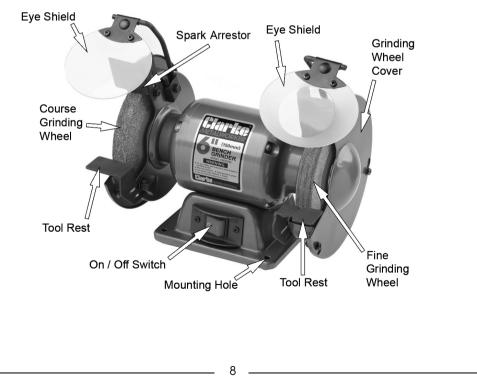
2 x Eye Shield Brackets

2 x Hand Knobs with washers

2 x Spark deflectors with screws and washers

2 x Tool Rests with screws and washers (1 flat and 1 with a channel for sharpening drill bits)

PART IDENTIFICATION



Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

BEFORE USE

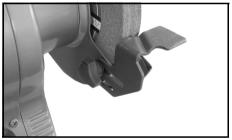
MOUNTING THE GRINDER ONTO A WORKBENCH

- **NOTE:** We highly recommend that you bolt this bench grinder securely to a workbench to gain maximum stability for your machine.
- 1. Using the base of the bench grinder as a template, mark the bench through the holes in the casting.
- 2. Bolt the bench grinder on the bench with bolts, washers and nuts (not supplied).
- To reduce vibration, mount the bench grinder on a vibration absorbing mat.

INSTALLING THE TOOL RESTS

- 1. Fix the tool rests to the bench grinder with the screw and hand knob as shown.
 - The tool rests are adjustable and should be positioned 1.5 mm from the grinding wheels.
 - Ensure that the tool rest is firmly fixed and horizontal.



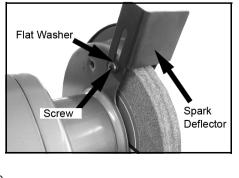


• One of the tool rest has a angled grove to allow you to sharpen the ends of drill bits.

INSTALLING THE SPARK DEFLECTORS

Fit both the spark deflectors to the wheel guards using the screws provided.

• Adjust the spark deflector frequently to compensate for wear of the wheel, keep the distance between the spark deflector and wheel as small as possible and never more than 2mm.

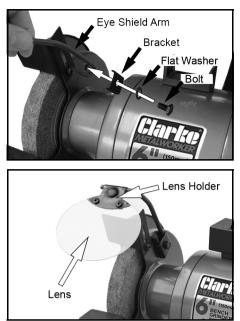


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INSTALLING THE EYE SHIELDS

 Attach the left eye shield arm to the bench grinder using the bracket, flat washer and bolt supplied.

- 2. Fit the lens to the lens holder as shown.
- 3. Repeat for right side eye shield.
- **NOTE:** Adjust the eye shields to an appropriate distance from the tool rests avoiding interference during operation.



SHARPENING TIPS

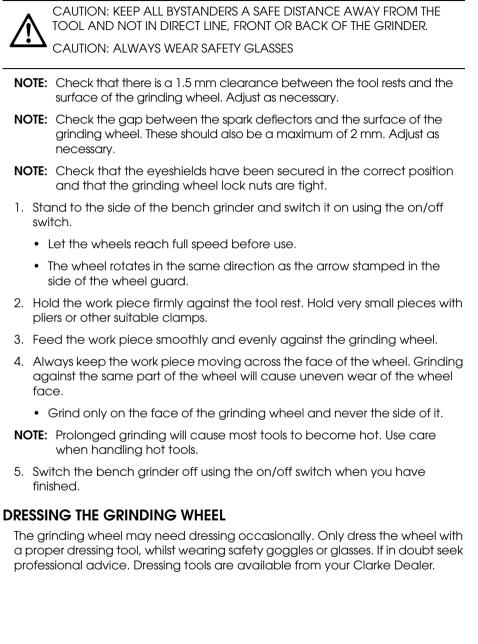
SCISSORS

If possible, take the scissors apart to make the sharpening operation easier and safer. Remove material only from the outside surface and work from the heavy end of the blade toward the tip.

KNIVES

Remove metal from both faces of most knives, working from the heavy end of the blade toward the tip.

OPERATION



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MAINTENANCE

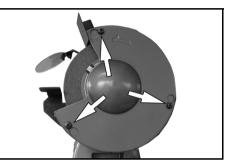
REPLACING THE GRINDING WHEELS



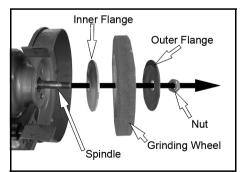
WARNING: DO NOT USE DAMAGED GRINDING WHEELS.

WARNING: SWITCH THE GRINDER OFF AND DISCONNECT THE POWER SUPPLY BEFORE CHANGING THE GRINDING WHEELS

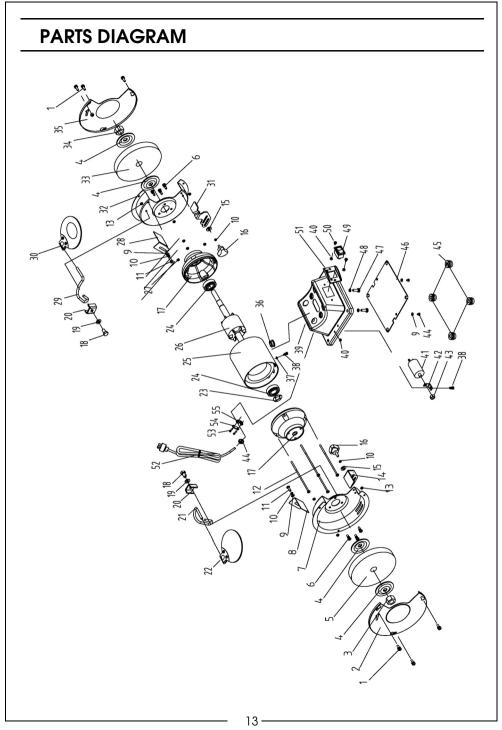
- 1. Loosen the screws shown and rotate and remove the cover.
- 2. Hold the other wheel by hand, and remove the nut and outer flange.
- **NOTE:** The left hand grinding wheel locking nut has a left handed thread.
- 3. Slide off the old wheel and replace with a new one.



- Use only wheels recommended by the manufacturer which have a marked speed equal to or greater than the speed marked on the nameplate of the tool.
- The disc should have maximum dimensions of 150 mm diameter, 20 mm thick with a bore size of 12.7 mm.
- Inspect the wheel for cracks, chips or any other visible damage, damaged abrasive products must be destroyed and discarded.
- 4. Replace the outer flange.
 - Make sure both wheel flanges are placed with the concave sides towards the wheel.
- 5. Replace the nut securely.
 - Do not overtighten as this may damage the grinding wheel.
- 6. Re-assemble the guards fully prior to carrying out testing.



• Each time after mounting, the wheel should be test run for a reasonable time (approximately 1 minute).



PART LIST

1	Philips Screw		33	Wheel (60#)
2	Left Guard Cover		34	l type Hex Nut
3	I Type Hex Nut		35	Right Guard Cover
4	Wheel Flange		36	Wire Bushing
5	Wheel (36#)		37	Lock Washer
6	Philips Screw		38	Philips Screw
7	Left Guard Inner Cover		39	Base
8	Left Spark Deflector		40	Nut
9	Flat Washer		41	Capacitor
10	Standard Washer		42	Capacitor Bracket
11	Philips Screw		43	Nut
12	Philips Screw (tie rod)		44	Strain Relief
13	Lock Nut		45	Rubber Foot
14	Left Work Rest		46	Bottom Cover
15	Big Flat Washer		47	Philips Screw
16	Lock Knob		48	Standard Washer
17	End Cap		49	Switch
18	Nut		50	Philips Screw
19	Flat Washer		51	Switch Plate
20	Bracket		52	Power Cable & Plug
21	Left Eyeshield Mounting Rod		53	Philips Screw
22	Flat Eyeshield Assembly		54	Cable Clamp Base Plate
23	Wavy Washer		55	Cable Clamp
24	Bearing			
25	Stator			
26	Rotor			
27	Nut			
28	Right Spark Deflector			
29	Right Guard Mounting Rod			
30	Magnifier Eyeshield Assembly			
31	Right Work Rest			
32	Right Guard Inner Cover			
		14	ı —	

33	Wheel (60#)
34	I type Hex Nut
35	Right Guard Cover
36	Wire Bushing
37	Lock Washer
38	Philips Screw
39	Base
40	Nut
41	Capacitor
42	Capacitor Bracket
43	Nut
44	Strain Relief
45	Rubber Foot
46	Bottom Cover
47	Philips Screw
48	Standard Washer
49	Switch
50	Philips Screw
51	Switch Plate
52	Power Cable & Plug
53	Philips Screw
54	Cable Clamp Base Plate
55	Cable Clamp

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DECLARATION OF CONFORMITY

	CE COLORATIONAL INTERNATIONAL Fromition Hall Fromition Page, Obdin 2
This is an important document and should be retained.	DECLARATION OF CONFORMITY This is an important document and should be retained.
We hereby declare that this product(s) complies with the following UK legislation:	We hereby declare that this product(s) complies with the following directive(s):
Electromagnetic Compatibility Regulations 2016.	2014/20/EU Electromagnetic Compatibility Directive.
Supply of Machinery (Safety) Regulations 200	2004/27FC Machinero Privarios
ine restriction or me use or contain Hazaroous substances in Electrical and Electronic Equipment Regulations 2012.	
The following standards have been applied to the product(s):	The following standards have been applied to the product(s):
EN 65841-3-42016-4111-2017, EN 65841-1-2015, EN 65014-1-2017, EN 55014-2-2015,	EN 62841-3-4:2015-411:2017, EN 62041-1:2015, EN 65014-1:2017, EN 56014-2:2015,
EN 61000-3-2-2014, EN 61000-3-3-2013.	EN 61000-3-2:2014, EN 61000-3-3:2013.
The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the	The lachnical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the
adromentioned legislation has been compled and is available for inspection by the relevant enforcement	adverment/ored directive(s) has been compiled and is available for inspection by the relevant enforcement
authorities. This product was placed onto the market: 2007	authorities. The CE mark was first applied in: 2007
Product Description: 6' Bench Grinder 250W, 6' Bench Grinder 250W with Light,	Product Description: 6' Bench Grinder 250W, 6' Bench Grinder 250W with Light,
6' Bench Grinder 250W with Light and Wire Wheel.	6' Bench Grinder 250W with Light and Wire Wheel.
Model number(s): CBG6280, CBG6280L, CBG6280L, W.	Model number(p): CB06250, CB062501, CB062501W.
Serial / batch Number: N/A	Serial / batch Number: NA
Date of issue: 16/03/2021	Date of issue: 10032021
Signed:	Signed:
UKCA, 09-0551, CB66290, CB662501, V Bendi grideta (n. 03A61)	DO C (09453) CB06290 CB06290L CB06290L V - Bench aniders for ONQ. Page 1 of 1

Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com



PARTS & SERVICE: 0208 988 7400

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