CETALVORKER



BENCH GRINDER WITH WIRE BRUSH WHEEL, LIGHT AND WHEEL DRESSER

MODEL NO: CBG6250LW

PART NO: 6500526

OPERATION & MAINTENANCE
INSTRUCTIONS





ORIGINAL INSTRUCTIONS

GC0321 - ISS 7

INTRODUCTION

Thank you for purchasing this CLARKE Bench Grinder with wire brush wheel, light and wheel dresser.

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 effect your statutory rights.

SPECIFICATIONS

Model Number	CBG6250LW
Part Number	6500526
Rated Voltage	230V~50Hz
Rated Input	150 W (S1)
No Load Speed	2980 RPM
Sound Pressure Level LpA	84 db
Sound Power Level LWA	97 db
Uncertainty Factor K	3
Weight	9.1 kg
Abrasive wheels supplied	Wire Brush Wheel & Fine Grinding Wheel (60 Grit)
Grinding Wheel dimns	Dia(150mm) Thickness(20 mm) Bore(12.7 mm)
Wire Wheel dimns	Dia (150mm) Thickness (13.5 mm) Bore (12.7 mm)

POWER TOOL SAFETY WARNINGS

1) WORK AREA

- 1. **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
- 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

- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 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.
- 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.
- Remove any wrench before turning the power tool on. A wrench left attached to a
 rotating part may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 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.
- 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.
- 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

 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.
- 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.
- 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 center. 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.

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

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.

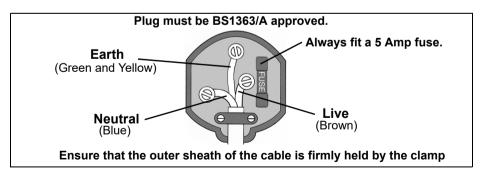
Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Connecting it to any other power source may cause damage.

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 marked N or coloured Black.
- The Brown wire must be connected to the terminal marked L or coloured Red.



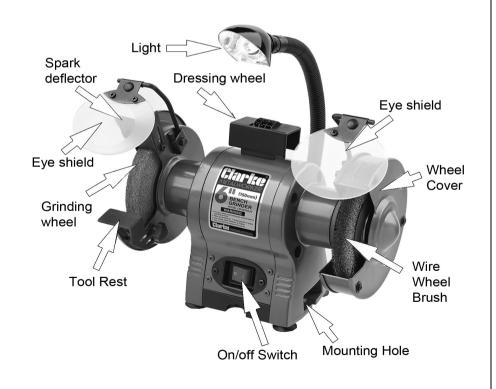
We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

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

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 (1 fine grinding wheel & 1 wire brush wheel 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
- 1 x Hand Knob with washers
- 1 x Spark Deflector with bolts and washers
- 1 x Tool Rests with screws and washers
- 1 x Wheel Dresser



BEFORE USE

MOUNTING THE GRINDER ON A WORKBENCH

NOTE: We highly recommend that you bolt this bench grinder securely to a workbench to gain maximum stability for your machine.

- Using the base of the bench grinder as a template, mark the bench through the holes in the casting.
- Bolt the bench grinder to the bench with bolts, washers and nuts (not supplied).
- To reduce vibration, mount the bench grinder on a vibration absorbing mat.



INSTALLING THE TOOL REST (GRINDING WHEEL ONLY)

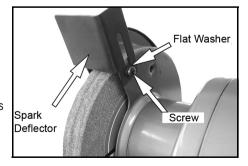
- Fix the tool rest to the bench grinder with the hand knob and washer as shown.
 - The tool rest is adjustable and should be positioned 1.5 mm from the grinding wheel.
 - Ensure that the tool rest is firmly fixed and horizontal.



INSTALLING THE SPARK DEFLECTOR (GRINDING WHEEL ONLY)

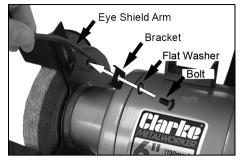
Fit the spark deflector to the wheel guards using the screws provided.

 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.



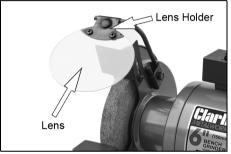
INSTALLING THE EYE SHIELDS

 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 handle end of the blade toward the tip.

KNIVES

Remove metal equally from both faces, working from the handle end of the blade toward the tip.

OPERATION



CAUTION: KEEP ALL BYSTANDERS A SAFE DISTANCE AWAY FROM THE TOOL AND NOT IN DIRECT LINE, FRONT OR BACK OF THE GRINDER.

CAUTION: ALWAYS WEAR SAFETY GLASSES

NOTE: Check that there is a 1.5 mm clearance between the tool rests and the surface of the grinding wheel. Adjust as necessary.

NOTE: Check the gap between the spark deflectors and the surface of the grinding wheel. These should also be a maximum of 2 mm. Adjust as necessary.

NOTE: Check that the eyeshields have been secured in the correct position and that the grinding wheel lock nuts are tight.

- Stand to the side of the bench grinder and switch it on using the on/off switch.
 - Let the wheels reach full speed before use.
 - The wheel rotates in the same direction as the arrow stamped in the side of the wheel guard.
- 2. Hold the work piece firmly against the tool rest (if grinding). Hold very small pieces with pliers or other suitable clamps.
- 3. Feed the work piece smoothly and evenly against the wheel.
- Always keep the work piece moving across the face of the wheel. Grinding against the same part of the wheel will cause uneven wear of the wheel face.
 - Grind only on the face of the grinding wheel and never the side of it.
 - The wire wheel can be used to remove paint and rust. Always wear a dust mask when removing paint or rust.

NOTE: Prolonged grinding will cause most tools to become hot. Use care when handling hot tools.

Switch the bench grinder off using the on/off switch when you have finished.

USING THE BUILT IN LIGHT

The built in light will come on automatically whenever the bench grinder is switched on.

The arm can bend to set the light in to a suitable position.

MAINTENANCE



WARNING: DISCONNECT THE GRINDER FROM THE MAINS SUPPLY BEFORE FITTING REPLACEMENT WHEELS, CLEANING OR ADJUSTMENT.

Keep the machine clean by wiping off dust with a clean cloth, and occasionally blowing the grinder through with compressed air. Always wear protective goggles when blowing through with compressed air.

The grinding wheel may need trueing or dressing occasionally. Only dress the wheel with a proper dressing tool, whilst wearing safety goggles or glasses. If in doubt seek expert advice.

DRESSING THE WHEEL

When the wheel starts to become clogged with debris, use the dresser tool supplied to clean (dress) it.

- 1. Start the bench grinder running.
- Place the dresser tool on the tool rest with the dressing wheels facing the abrasive wheel.
- 3. Slide the dresser tool forward until contact is made with the abrasive wheel and maintain a light pressure to clean the debris from the abrasive wheel.
- 4. After dressing, adjust the tool rest and spark deflector as necessary.

CHANGING THE LIGHT BULB

Remove the bulb by twisting it anticlockwise.

Replace with an identical bulb (12V, 10W, ES10 fitting) available from the Clarke Parts Department.

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.

REPLACING THE WHEELS



WARNING: THE POSITIONS OF THE GRINDING WHEEL AND WIRE WHEEL SHOULD NOT BE INTERCHANGED, AS THIS MAY RESULT IN INJURY OR DAMAGE TO THE PRODUCT

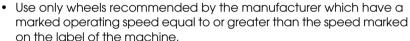
WARNING: DO NOT USE DAMAGED GRINDING WHEELS.

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

- Loosen the screws shown and rotate and remove the cover.
- Hold the other wheel by hand and remove the nut and outer retaining disc.

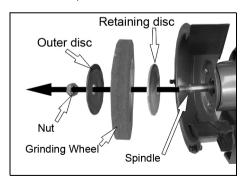
NOTE: The left hand wheel locking nut has a left handed thread.

3. Slide off the old wheel and replace with a new one.



- 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 retaining disc.
 - Make sure both retaining discs are placed with the concave sides towards the wheel.
- 5. Replace the nut securely.
 - Do not overtighten as this may damage the grinding wheel.
- 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).





PARTS DIAGRAM 13 -

PARTS LIST

	I =:
1	Philips screw
2	Left guard cover
3	I type hex nut
4	Wheel retaining disc
5	Grinding wheel
6	Philips screw
7	Left guard inner cover
8	Left spark deflector
9	Cable clamp
10	Philips Screw
11	Left eyeshield mounting rod
12	Eyeshield bracket
13	Flat washer
14	Bolt
15	Dome screw
16	Eyeshield plate
17	Penny washer
18	Philips screw
19	Philips screw
20	Right eyeshield mounting rod
21	End cap
22	I type hex nut
23	Wavy washer
24	Ball bearing
25	Stator
26	Rotor
27	Nut
28	Cable clamp base plate
29	Left working toolrest
30	Eyeshield
31	Locked knob
32	Philips screw
33	Philips screw
34	Hex nut

35	Nut
36	Wire wheel
37	Philips screw
38	'
39	Tooth locking washer
	Philips screw
40	Right guard inner cover
41	Cable bush
42	Capacitor
43	Capacitor stand
44	Standard washer
45	Wheel dressing tool
46	Lamp assembly
47	Motor housing
48	Power cable & plug
49	Strain gland
50	Nut
51	Toothed locking washer
52	Switch plate
53	Switch
54	Hex nut
55	Philips screw
56	Philips screw
57	Rubber foot
58	Tool kit
59	Base plate
60	Locking nut
61	Left wheel cover
62	Light bulb
63	Magnifying eyeshield
64	Dressing tool base
65	Flat washer
	1

DECLARATION OF CONFORMITY



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This is an important document and should be retained.

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

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 62841-3-4:2016+A11:2017, EN 62841-1:2015, EN 55014-1:2017, EN 55014-2:2015, 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 adversariation has been compiled and is available for inspection by the relevant enforcement authorities.

This product was placed onto the market: 2007

6" Bench Grinder 250W, 6" Bench Grinder 250W with Light, 6" Bench Grinder 250W with Light and Wire Wheel.

Product Description: Model number(s): Date of Issue:

CBG6250, CBG6250L, CBG6250LW. Serial / batch Number:

16/03/2021

J.A. Clarke

Signed:

Director

UKCA (09-0575) CBG6250 CBG6250L CBG6250LW - Bench grinders (rv 0)No21...

itzwilliam 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): Electromagnetic Compatibility Directive. 2014/30/EU

Restriction of Hazardous Substances, (amended by 2015/863). Machinery Directive. 2006/42/EC 2011/65/EU

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

EN 62841-3-4:2016+A11:2017, EN 62841-1:2015, EN 55014-1:2017, EN 55014-2:2015,

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The CE mark was first applied in: 2007

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6/03/2021 Α× Serial / batch Number:

Signed:

J.A. Clarke

Director

D O C (09-0575) CBG6250 CBG6250L CBG6250LW - Bench grinders (rv 0)No2..

Page 1 of 1

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