

Clarke® WOODWORKER



185MM CIRCULAR SAW

MODEL No. CCS1

Part No. 6460200

OPERATING & MAINTENANCE INSTRUCTIONS



© 0606

Thank you for purchasing this CLARKE Circular Saw, which is designed for DIY and light workshop use only.

Before attempting to use the machine, 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 the saw 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

Elec. Supply	230V 50Hz 1 ph
Power Rating	1200W Motor
Fuse Rating	13amp
No Load Speed	4,500 RPM
Gross Weight	5.7kg
Cutting Capacity @ 90°	64mm
Cutting Capacity @ 45°	45mm
Blade/Bore Diameter	185/20mm

Declared vibration emission value in accordance with
EN12096

Measured vibration emission value - a : 2.47m/s²

Uncertainty value - K : 0.99m/s²

Highest measured reading in a single plane 4.56m/s²

Values determined according to EN28622-1

This product Confirms to 98/37/EEC Regulations



When disposing of this product, ensure it is disposed of according to all local ordinances. It must not be disposed of with general household waste.

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

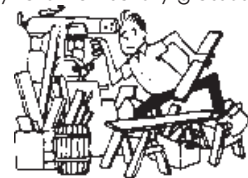
Safety Precautions



WARNING:

As with all machinery, there are certain hazards involved with their operation and use. Exercising respect and caution will considerably lessen the risk of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator or damage to property, may result.

1. **ALWAYS** Learn the machines' applications, limitations and the specific potential hazards peculiar to it. Read and become familiar with the entire operating manual.
2. **ALWAYS** use a face or dust mask if operation is particularly dusty.
3. **ALWAYS** check for damage. Before using the machine, any damaged part, should be checked to ensure that it will operate properly, and perform its intended function.
Check for alignment of moving parts, breakage of parts, mountings, and any other condition that may affect the machines' operation. Any damage should be properly repaired or the part replaced. If in doubt, **DO NOT** use the machine. Consult your local dealer.
4. **ALWAYS** disconnect the tool/machine from the power supply before servicing and when changing accessories.
5. **ALWAYS** wear safety goggles, manufactured to the latest European Safety Standards. Everyday eyeglasses do not have impact resistant lenses, they are not safety glasses.
6. **ALWAYS** keep work area clean. Cluttered areas and benches invite accidents.
7. **ALWAYS** ensure that adequate lighting is available. A minimum intensity of 300 lux should be provided. Ensure that lighting is placed so that you will not be working in your own shadow.
8. **ALWAYS** keep children away. All visitors should be kept a safe distance from the work area, especially whilst operating the machine.
9. **ALWAYS** maintain machine in top condition. Keep tools/machines clean for the best and safest performance. Follow maintenance instructions.
10. **ALWAYS** handle with extreme care do not carry the tool/machine by its' electric cable, or yank the cable to disconnect it from the power supply .
11. **ALWAYS** ensure the switch is off before plugging in to mains. Avoid accidental starting.
12. **ALWAYS** concentrate on the job in hand, no matter how trivial it may seem. Be aware that accidents are caused by carelessness due to familiarity.
13. **ALWAYS** keep your proper footing and balance at all times don't overreach. For best footing, wear rubber soled footwear. keep floor clear of oil, scrap wood, etc.



14. **ALWAYS** wear proper apparel. loose clothing or jewellery may get caught in moving parts. wear protective hair covering to contain long hair.
15. **ALWAYS** use recommended accessories. the use of improper accessories could be hazardous.
16. **ALWAYS** remove plug from electrical outlet when adjusting, changing parts, or working on the machine.
17. **NEVER** operate machine while under the influence of drugs, alcohol or any medication.
18. **NEVER** leave machine running unattended. turn power off. Do not leave the machine until it comes to a complete stop.
19. **NEVER** force the machine. it will do a better and safer job at the rate for which it was designed.
20. **NEVER** use power tools in damp or wet locations or expose them to rain. Keep your work area well illuminated. do not use in explosive atmosphere (around paint, flammable liquids etc.). Avoid dangerous environment.



Additional Precautions For Circular Saws

1. **ALWAYS** wear ear protectors/defenders as the noise level of this machine can exceed 85dB (A).
2. **ALWAYS** use the appropriate saw blade for the material being cut.
3. **ALWAYS** keep the mains cable well away from the machine and ensure an adequate electrical supply is close at hand so that the operation is not restricted by the length of the cable.
4. **ALWAYS** switch the machine OFF immediately the task is completed.
5. **ALWAYS** allow sufficient clearance beneath the work to ensure the blade does not come into contact with the work bench etc.
6. **ALWAYS** ensure the blade is fully tightened before use.
7. **ALWAYS** let saw stop completely before putting down.
8. **ALWAYS** check blade guard has returned before putting saw down.
9. **NEVER** use the saw with the riving knife removed, (see Fig. 1).
10. **NEVER** operate the saw when the blade guard is not working properly. Guard should be checked for correct operation before each use.
11. **NEVER** start the saw when the blade is in contact with the work.
12. **NEVER** allow the ventilation slots in the machine to become blocked.
13. **DO NOT** use the machine if the electric cable, plug or motor is in poor condition.
14. When cutting e.g. doors etc ensure all nails have been removed beforehand. Nails will damage the saw blade.
14. Replacement blades are available from your CLARKE dealer.

Note :

The guard is operating correctly when it moves freely and readily returns to closed position

Additionally, please keep these instructions in a safe place for future reference.

Electrical Connections



This product is provided with a standard 13 amp, 230 volt (50Hz), BS 1363 plug, for connection to a standard, domestic electrical supply. Should the plug need changing at any time, ensure that a plug of identical specification is used.

WARNING

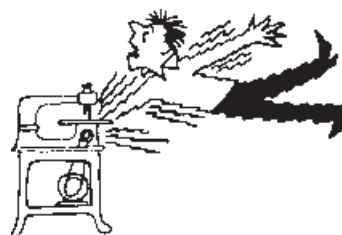
This appliance is Double Insulated, and the two wires in the mains lead should be wired up in accordance with the following colour code:

BLUE - NEUTRAL
BROWN - LIVE

- Connect the BLUE coloured cord to the plug terminal marked a letter "N"
- Connect the BROWN coloured cord to the plug terminal marked a letter "L"

If this appliance is fitted with a plug which is moulded on to the electric cable (i.e. non-rewireable) please note:

1. The 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 into 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 Clarke dealer or most electrical stockists.



FUSE RATING

The fuse in the plug must be replaced with one of the same rating (**13 amps**) and this replacement must be ASTA approved to BS1362.

If in doubt, consult a qualified electrician. Do not attempt any electrical repairs yourself.

CABLE EXTENSION.

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.

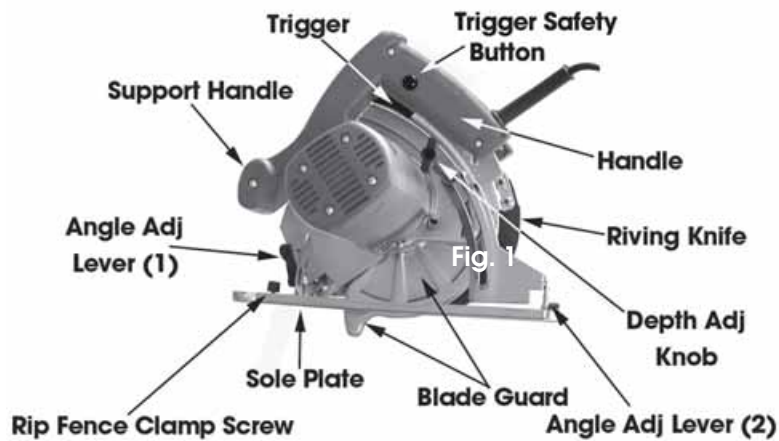
Changing Saw Blade

Note : *Item numbers refer to parts list.*

Ensure saw is switched off and isolated from the mains supply, by removing the plug from the socket.

Loosen depth adjusting knob, (see Fig.1) and set to minimum cut depth.

Fig. 1



Using the special wrench, (supplied), hold the blade securely, (see Fig. 2), unscrew (anticlockwise) and remove, allen screw and washer, (item Nos 53 & 52) with allen key (supplied), also remove special washer, (item No 51).

Open blade guard fully and remove blade by tilting up and sliding out.

Fit new blade in reverse order, ensure allen screw is tight.

IMPORTANT *Ensure correct rotation direction*

Fig. 2



WARNING



It is extremely important that you note the order of all the washers etc when removing saw blade, in order to refit them in the right order with new blade.



Adjustments

Ensure the machine is disconnected from the mains supply before attempting to make any adjustment.

Depth Of Cut

Always keep correct depth setting. The correct depth setting for all cuts should not exceed 6mm below the material being cut. More blade depth will increase the chances of kickback and result in a rough cut.

1. Loosen depth adjustment knob, (see Fig. 1).
2. Hold base flat against workpiece and raise or lower saw until the required depth is obtained.
3. Tighten depth adjustment knob securely, (hand tight only).

Rip Fence

The rip fence is used when making parallel cuts up to 100mm wide, it helps prevent the blade from twisting in the cut and causing kickback.

1. Install the side fence into the slots on the front sole plate.
2. Adjust the fence to the required position by measuring from the edge of the blade tooth, to the edge of the fence where it rests against the workpiece.
3. Tighten clamp screw, (see Fig. 1), securely, (hand tight only).

Bevel Setting (angle)

1. Loosen angle adjusting levers 1 & 2, (see Fig. 1).
2. Adjust to required angle setting on the bevel scale, (ref angle lever 1).
3. Tighten levers 1 & 2 securely, (hand tight only).

Operation

WARNING

BE AWARE that incorrect or improper use of this machine could cause KICKBACK.

Kickback occurs when the blade stalls rapidly and the saw is driven back towards you. Blade stalling is caused by any action which pinches the blade into the wood being cut.

Release the ON/OFF switch immediately if blade binds or stalls.

Kickback could cause you to lose control of the saw and could result in personal injury

Common Causes Of Kickback

1. Incorrect blade depth setting, (Blade protruding more than 6mm below workpiece).
2. Sawing into knots or nails etc.
3. Twisting blade while making cut.
4. Sawing with a dull, gummed up, or improperly set blade.
5. Not supporting workpiece securely.
6. Cutting warped or wet timber.
7. Forcing saw through the cut.

8. Tool misuse or incorrect operating procedures.
9. Failure to adhere to the correct refitment of the saw blade.
10. Using the wrong saw blade.

Starting A Cut

The ON/OFF trigger/switch is located on the handle.

To start the saw push IN and hold the trigger safety button on the side of handle, (see Fig 1) at the same time depress the trigger switch, and keep it depressed.

When the motor has reached maximum speed, place the end of the sole plate on the workpiece, line up 0° mark on cutting line and move it slowly forward, (Always cut in forward direction),

If cutting at an angle of 45°, line up with the 45° mark on sole plate.

Alternatively, the rip fence can be fitted to cut parallel to the edge of the workpiece.

Always operate the saw by holding it firmly with both hands.

Never place your hands on or near the workpiece.

Always Maintain Control

Always support work as near as possible to the cut.

Always Support work so that the cut is on your right hand side.

Always Clamp workpiece so that it will not move during the cut.

Always Place workpiece, good side down, i.e. the side on which the finished appearance is important.

Note :

Before beginning a cut, draw a guide line along the desired line of cut, then place the front edge of the sole plate on that part of the work that is solidly supported. Never place your saw on the part of the work that will fall off when the cut is made.

Cross Or Rip Cut

When making a cross or rip cut, align your line of cut with the outer blade notch on the sole plate (0°). Since the blade thickness may vary, always test on a scrap piece first to determine how much, if any, the guideline must be offset to produce an accurate cut.

Parallel Cut

Making a parallel cut using the rip fence.

Position the face of the rip fence firmly against the edge of the workpiece, this makes a true cut without pinching the blade.

The guiding edge of the workpiece must be straight for your cut to be straight. Use caution to prevent your blade from binding in the cut.

Bevel Cut

The angle of cut of your saw can be adjusted from 0° and 45°, there is a cutting indication notch in the sole plate to assist in lining up the line of cut.

Align your line of cut with the inner guide on the sole plate, (45°), when making full 45° bevel cuts, make a test cut on a scrap piece first, again to determine how much offset, if any, is needed.

IMPORTANT

DO NOT plug in to the mains, unless you have ensured the tool is switched OFF.

DUST EXTRACTION

The Saw is provided with a dust extraction facility, where a dust bag or vacuum extractor may be connected to the right hand side of the machine. Please note however, that this does not preclude the user from wearing a face mask to prevent the inhalation of dust particles.

It is an EEC requirement that a dust extraction facility be provided on power tools, however, due to the nature of the tool, some of the dust produced will be forced into the surrounding atmosphere, and will not be collected.

Maintenance

Always inspect the tool before use, and ensure it is in top condition.

Ensure all air vents are clear, (use compressed air to clean the machine where possible). Check the power cable to ensure it is sound and free from cracks, bare wires etc. avoid using solvents when cleaning plastic parts, most plastics are susceptible to damage from the various types of commercial solvents.

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 required.

Trouble Shooting

Saw is overheating

This indicates the machine is dirty. Clean the ventilation holes, and blow out with compressed air or clean with a dry cloth.

Overloading the machine will also cause overheating. Do not use for heavy duty work, and do not apply excessive pressure.

Excessive sparking occurs

This indicates worn brushes. This problem is quickly remedied but you should consult your CLARKE dealer for parts and advice.

Saw does not operate when switched ON

Check to ensure the fuse is sound and replace if necessary. If the fuse is sound or blows repeatedly, consult your CLARKE dealer.

Accessories

A wide range of accessories is available from your nearest CLARKE dealer, for further information, contact your nearest dealer, or telephone CLARKE International Sales department on 01992 565300.

Parts List

No.	Part No	Description	Qty	No.	Part No	Description	Qty
1	GRCSS1001	Cable	1	37	GRCSS1037	Spindle	1
2	GRCSS1002	Cable Protector	1	38	GRCSS1038	Screw	2
3	GRCSS1003	Board	1	39	GRCSS1039	Distance Collar	1
4	GRCSS1004	Screw	2	40	GRCSS1040	Screw	1
5	GRCSS1005	Capacitor	1	41	GRCSS1041	Rubber Stop	1
6	GRCSS1006	Switch	1	42	GRCSS1042	Screw	2
7	GRCSS1007	Handle	1	43	GRCSS1043	Spring	1
8	GRCSS1008	Washer	3	44	GRCSS1044	Pin	1
9	GRCSS1009	Screw	2	45	GRCSS1045	Bearing Holder	1
10	GRCSS1010	Washer	1	46	GRCSS1046	Bearing	1
11	GRCSS1011	Spring washer	4	47	GRCSS1047	Safety Cover	1
12	GRCSS1012	Screw	1	48	GRCSS1048	Bearing Gland	1
13	GRCSS1013	Handle	1	49	GRCSS1049	Blade Flange	1
14	GRCSS1014	Nut	2	50	GRCSS1050	Saw Blade	1
15	GRCSS1015	Screw	1	51	GRCSS1051	Special Washer	1
16	GRCSS1016	Tail Cover	1	52	GRCSS1052	Washer	1
17	GRCSS1017	Screw	1	53	GRCSS1053	Screw	1
18	GRCSS1018	Brush	2	54	GRCSS1054	Cover	1
19	GRCSS1019	Carbon Brush	2	55	GRCSS1055	Washer	1
20	GRCSS1020	Housing	2	56	GRCSS1056	Screw	2
21	GRCSS1021	Stator	1	57	GRCSS1057	Cover	1
22	GRCSS1022	Fan Guide	1	58	GRCSS1058	Nut	2
23	GRCSS1023	Screw	2	59	GRCSS1059	Knob	1
24	GRCSS1024	Flange	1	60	GRCSS1060	Washer	1
25	GRCSS1025	Bearing 80028	1	61	GRCSS1061	Screw	1
26	GRCSS1026	Armature	1	62	GRCSS1062	Screw	1
27	GRCSS1027	Bearing 80101	1	63	GRCSS1063	Knob	1
28	GRCSS1028	Choke	1	64	GRCSS1064	Nut	1
29	GRCSS1029	Gear Box	1	65	GRCSS1065	Knob	1
30	GRCSS1030	Bearing 8x12x8	1	66	GRCSS1066	Bracket	1
31	GRCSS1031	Housing	1	67	GRCSS1067	Bracket	1
32	GRCSS1032	Riving Knife Base	1	68	GRCSS1068	Guide	1
33	GRCSS1033	Riving Knife	1	69	GRCSS1069	Bracket	1
34	GRCSS1034	Plate	1	70	GRCSS1070	Label	1
35	GRCSS1035	Screw	1	71	GRCSS1071	Brush Cap	2
36	GRCSS1036	Gear	1	72	GRCSS1072	Screw	1

PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

Parts Diagram

