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Clarke[®]

CONTRACTOR



185MM CIRCULAR SAW

MODEL No. CCS2

Part No. 6462040

OPERATING & MAINTENANCE INSTRUCTIONS

Clarke[®] INTERNATIONAL

For spare parts and servicing, please contact your nearest dealer, or Clarke International on

020 - 8988 - 7400

e-mail: Parts@clarkeinternational.com e-mail: Service@clarkeinternational.com



Thank you for purchasing this CLARKE Circular Saw, designed for cutting wood 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

Mains Supply	230V 50Hz 1ph
Power Rating	1300W
Fuse Rating	13amp
No Load Speed	4,800 RPM
Guaranteed Sound Power Level (Under Load)	108.6dB _{LWA}
Weight	6kg
Cutting Capacity @ 90°	60mm
Cutting Capacity @ 45°	45mm
Blade/Bore Diameter/Type	185/20mm/TCT
Dimensions	353x250x290mm
Part Number	6462040

Declared vibration emission value in accordance with
EN12096

Measured vibration emission value - α :	<2.5m/s ²
Uncertainty value - K:	0.99m/s ²
Highest measured reading in a single plane	4.56m/s ²
Values determined according to EN28622-1	



This product Confirms to 98/37/EEC Regulations

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.

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Parts List

No.	Description	Part No.	No.	Description	Part No.
1	Screw	TMCCCS201	39	Screw	TMCCCS239
2	Back Cover	TMCCCS202	40	Cord Clamp	TMCCCS240
3	Screw	TMCCCS203	41	Screw	TMCCCS241
4	Plate	TMCCCS204	42	Rubber Handle	TMCCCS242
5	Brush Holder	TMCCCS205	43	Cable Gland/protector	TMCCCS243
6	Carbon Brush	TMCCCS206	44	Capacitor	TMCCCS244
7	Carbon Brush Cap	TMCCCS207	45	Switch	TMCCCS245
8	Handle	TMCCCS208	46	Handle Cover	TMCCCS246
9	Housing	TMCCCS209	47	Screw	TMCCCS247
10	Stator	TMCCCS210	48	Locking Lever	TMCCCS248
11	Screw	TMCCCS211	49	Ring	TMCCCS249
12	End Plate	TMCCCS212	50	Depth Locking Lever	TMCCCS250
13	Bearing Sleeve	TMCCCS213	51	Washer	TMCCCS251
14	Bearing 609	TMCCCS214	52	Screw	TMCCCS252
15	Armature	TMCCCS215	53	Cable complete	TMCCCS253
16	Bearing	TMCCCS216	54	Needle Bearing	TMCCCS254
17	Case	TMCCCS217	55	Gear	TMCCCS255
18	Spring	TMCCCS218	56	Woodruff Key	TMCCCS256
19	Self-locking Bolt	TMCCCS219	57	Spindle	TMCCCS257
20	Button	TMCCCS220	58	Round Plate	TMCCCS258
21	Upper Blade Guard	TMCCCS221	59	Bearing	TMCCCS259
22	Screw	TMCCCS222	60	Front Cover	TMCCCS260
23	Bracket	TMCCCS223	61	Screw	TMCCCS261
24	Brace	TMCCCS224	62	Riving Knife Bracket	TMCCCS262
25	Washer	TMCCCS225	63	Nut	TMCCCS263
26	Nut	TMCCCS226	64	Riving Knife	TMCCCS264
27	Ring	TMCCCS227	65	Screw	TMCCCS265
28	Bevel Locking Lever	TMCCCS228	66	Rod	TMCCCS266
29	Washer	TMCCCS229	67	Rivet	TMCCCS267
30	Screw	TMCCCS230	68	Plastic Ring	TMCCCS268
31	Long Rivet	TMCCCS231	69	Lower Blade Guard	TMCCCS269
32	Spindle	TMCCCS232	70	Lever	TMCCCS270
33	Screw	TMCCCS233	71	Screw	TMCCCS271
34	Base	TMCCCS234	72	Ring	TMCCCS272
35	Screw	TMCCCS235	73	Inner Flange	TMCCCS273
36	Depth Plate w/scale	TMCCCS236	74	Blade	See Dealer
37	Rivet	TMCCCS237	75	Outer Flange	TMCCCS275
38	Handle	TMCCCS238	76	Screw	TMCCCS276

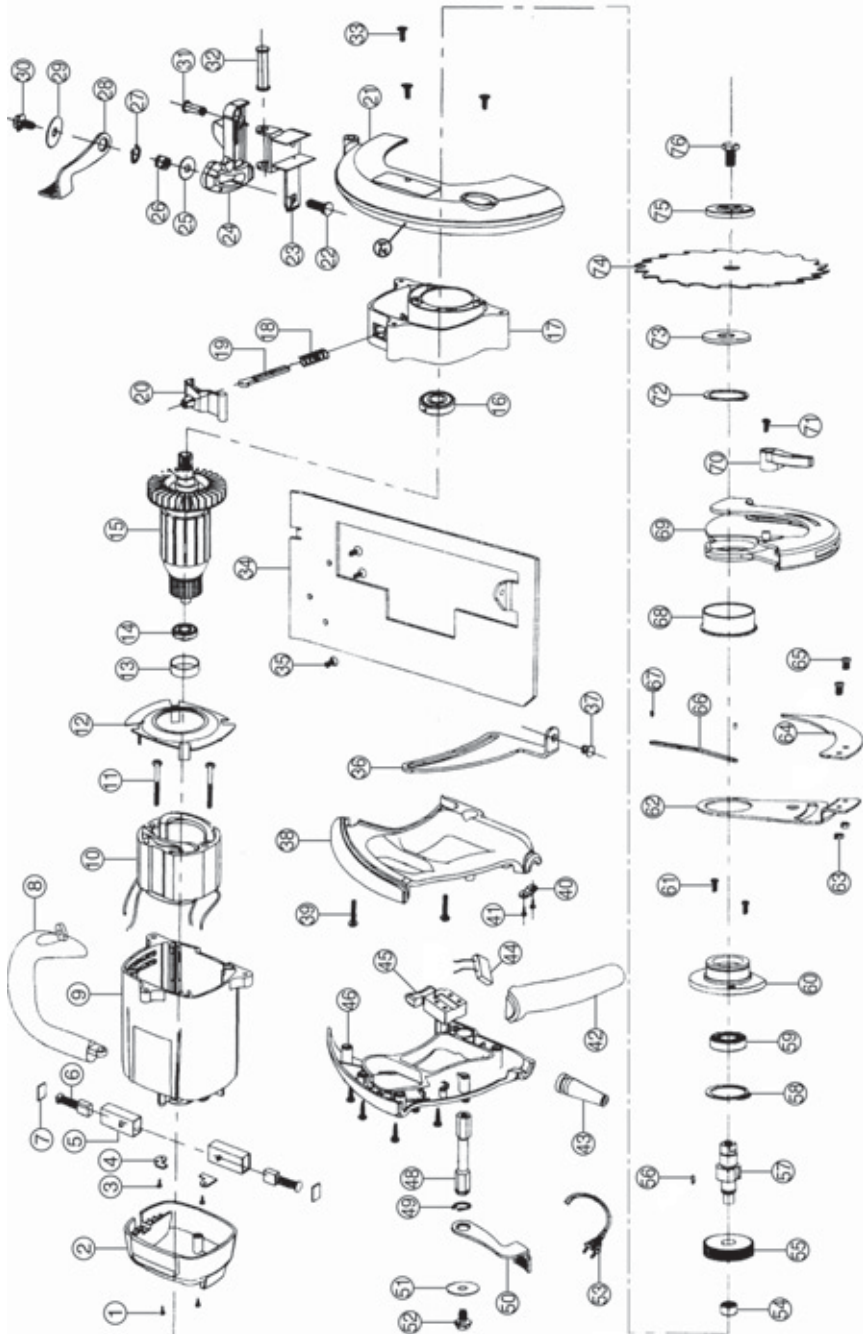
PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

Parts Diagram



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** use CLARKE replacement blades. The use of improper parts/accessories could be hazardous.
10. **ALWAYS** maintain machine in top condition. Keep tools/machines clean for the best and safest performance. Follow maintenance instructions.
11. **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.
12. **ALWAYS** ensure the switch is off before plugging in to mains. avoid accidental starting.
13. **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.
14. **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.



15. **ALWAYS** wear proper apparel. Loose clothing or jewellery may get caught in moving parts. Wear protective hair covering to contain long hair.

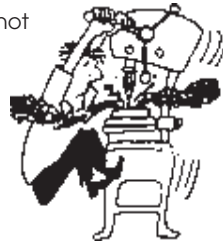
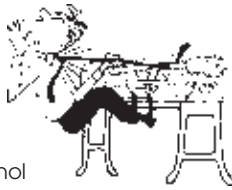
16. **ALWAYS** remove plug from electrical outlet when adjusting, changing parts, or working on the machine.

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 when using this machine.
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** ensure the Riving Knife is in place and directly in line with the blade.
5. **ALWAYS** allow sufficient clearance beneath the work to ensure the blade does not come into contact with the work bench or any other object.
6. **ALWAYS** ensure the blade is fully tightened before use.
7. **ALWAYS** use a rip fence or guide when ripping.
8. **ALWAYS** check blade guard has returned FULLY before putting saw down.
9. **ALWAYS** ensure that nails have been removed from a workpiece beforehand. Nails will damage the saw blade.
10. **NEVER** operate the saw when the blade guard is not working properly. The Guard should be checked for correct operation before each use.
11. **NEVER** use abrasive disks with this machine, it is designed to cut wood ONLY
12. **NEVER** start the saw when the blade is in contact with the work.
13. **NEVER** allow the ventilation slots in the motor to become blocked.
14. **NEVER** use the machine if the electric cable, plug or motor is in poor condition.
15. **NEVER** reach beneath the workpiece whilst cutting
16. If the blade binds whilst cutting, or cutting is interrupted, hold the saw firmly, release the trigger and allow the blade to stop completely. **NEVER** attempt to remove the saw when the blade is in motion, otherwise kickback will occur.
17. **NEVER** use the saw with the blade guard jammed open.

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.

Kickback

Kickback is when the saw is driven back fiercely into the hands of the operator, and may be caused by the following:

- a. The blade becoming twisted or misaligned in the cut.
- b. Dull Blades...ALWAYS use a sharp, perfectly serviceable blade.
- d. Workpiece not properly secured, or held down adequately
- e. Wet, warped, green or pressure treated timber.
- f. Riving Knife misaligned.
- g. Sawing into knots, nails etc.
- h. Forcing the tool.
- i. Using improper saw blades.
- j. Depth setting too great....do not exceed 3-4mm.

Always hold the saw firmly so as not to lose control should kickback occur.

Maintenance

The Saw is generally maintenance free, except for occasionally changing the saw blade, described below, and maintaining in a clean condition, ensuring the motor vents are clear at all times. Do not use solvents to clean body parts

Changing the Saw blade

Ensure the saw is isolated from the mains supply, by removing the plug from the socket. Press the Spindle Locking Knob (N, Fig. 1) in order to hold the blade securely, then, using the special wrench, (supplied), unscrew (anticlockwise) and remove the Blade Centre Bolt and washer, followed by the Outer Flange.

Retract the Lower Blade Guard all the way up into the Upper Guard, and slide the blade off the spindle and down through the slot, taking great care not to damage hands on the saw's teeth.

Replace in reverse order, ensuring the blade is the correct way round...i.e. The teeth should be pointing FORWARDS at the bottom. Ensure also, the blade sits snugly on its registration on the spindle before replacing the outer flange, washer and centre bolt, which should then be tightened but taking care not to overtighten.

Riving Knife Adjustment

It is vital that the Riving knife is perfectly in-line with the blade at all times with a gap of no more than 5mm existing between the blade and knife.

Should it be necessary to adjust the Knife, ensure the tool is disconnected from the mains, then lower the Guide Plate so that the blade depth is zero using the locking lever, O Fig. 1, to reveal the two Riving Knife securing screws - A, Fig.4. Slacken the screws sufficient for the knife to be adjusted, ensuring the gap between blade and knife - B, is no more than 5mm, and constant along the length of the knife.

Additionally, the blade should not extend more than 5mm below the end of the riving knife.

Ensure the securing screws are tight before use.

NOTE: It may be necessary to bend the knife slightly to ensure it is directly in-line with the blade.



B = 5mm MAX

Fig. 4

4. Starting

Place the leading edge of the Guide Plate on the top face of the workpiece, ensuring the saw blade IS NOT making contact. (See 'General Notes', which follow, for more detailed information Re: marking the workpiece and accurate cutting etc.)

Hold the saw FIRMLY with both hands, then press the Interlock Button 'M' Fig. 1 and pull up the ON/OFF switch.

The saw will start. Proceed to feed the saw into the work firmly and at a slow rate. Do not force it.

Be aware that sawdust will be emitted from the dust extractor outlet. Suitable precautions should be taken to protect property etc.

5. Stopping

Release the ON/OFF switch and allow the saw blade to stop completely before withdrawing the saw from the cut. NEVER attempt to remove the saw with the blade rotating and NEVER attempt to stop the blade by lateral pressure..

General Notes

1. Always support work as near as possible to the cut.
2. Support work so that the off-cut will be on your right hand side.
3. Clamp workpiece so that it will not move during the cut.
4. Side on which finished appearance is important should be face down.
5. Before beginning a cut, draw a guide line along the desired line of cut, then place the front edge of the Guide Plate on that part of the work that is solidly supported.....NEVER on the part of the work that will become the off-cut. The notch on the front of the Guide Plate is marked 45° and 0°. Line up your guideline with the 0° mark.

IMPORTANT! When marking your guideline, you must take into account the thickness of the saw blade. This must be added to your desired width.

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 your desired width.

Parallel Cut

Making a parallel cut using the Parallel Stop.

Position the face of the Stop 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 in order to produce your desired width.

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.



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

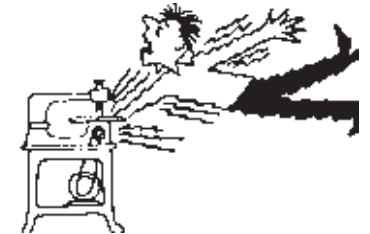
BLUE - NEUTRAL

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.

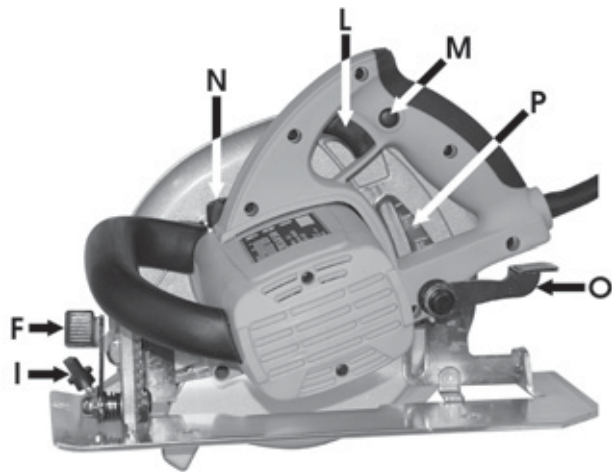
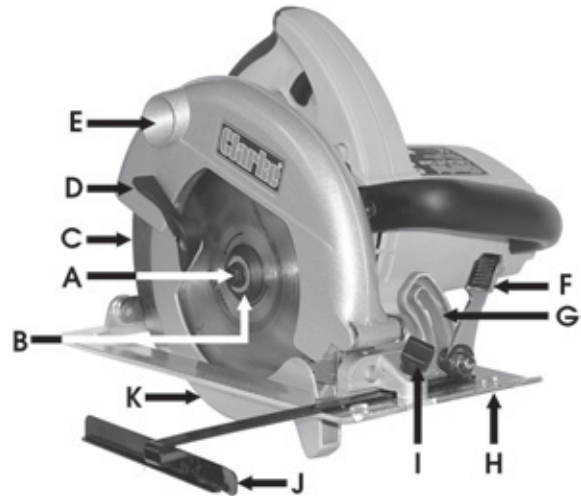
If in doubt, consult a qualified electrician. Do not attempt any electrical repairs yourself.

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.

Features

Fig. 1



- | | |
|---------------------------------------|------------------------------------|
| A - Saw Blade Centre Bolt | I - Parallel Stop Locking screw |
| B - Saw Blade Outer Flange | J - Parallel Stop |
| C - Riving Knife | K - Lower Blade Guard |
| D - Lower Blade Guard Lever | L - ON/OFF Switch |
| E - Dust Extraction Outlet | M - ON/OFF Switch Interlock Button |
| F - Guide Plate (Bevel) Locking Lever | N - Spindle Lock |
| G - Blade Bevel Gauge | O - Blade Depth Locking Lever |
| H - Guide Plate | P - Blade Depth Gauge |

Operation

WARNING! This appliance should not be used by anyone not fully trained in the use and operation of Power Tools

IMPORTANT!

Before use, ensure the workpiece is perfectly secure, and there is sufficient clearance **BENEATH** the workpiece so that there is no possibility of the saw blade coming into contact with any other object.

1. Set the blade depth

.... so that the blade just breaks through the underside of the workpiece. This is achieved as follows:

Raise the Lower Blade Guard using the lever 'D' Fig. 1, and lay the saw alongside the workpiece so that the blade guard is supported by the top surface of the workpiece.

Unlock the Blade Depth Locking Lever 'O' by pulling it upwards.

Hold down the Guide Plate whilst raising the saw, and push down the locking lever when the blade is just of the workpiece, as illustrated.

The saw blade should never extend by more than 3-4mm.

Failure to set the depth correctly will result in the Lower Blade Guard not operating correctly and fouling the workpiece during the cutting process.

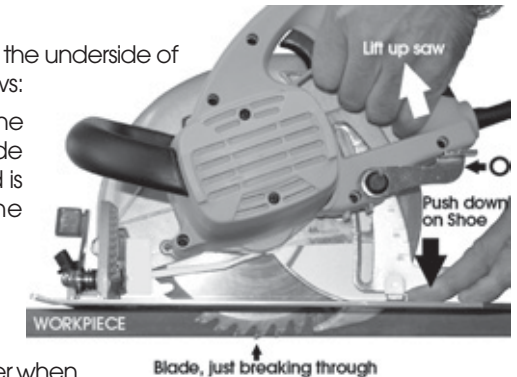


Fig. 2

2. Set the blade angle

If Accuracy is required, use a protractor against the saw blade and Guide Plate.

Unlock the Guide Plate using the locking lever 'F', adjust accordingly then re-lock the Guide Plate.

For general use, a scale is provided, shown at 'G' Fig. 1.

The illustration shows the blade set at 45°

3. Safety

Check that all parts are secure, including the saw blade and Riving Knife, which must be directly in line with the blade...if it is not, it **MUST** be realigned before use.

Adjust the parallel stop if required. Ensure the mains cable is well away from the saw blade and not looped under the workpiece, then plug into the mains supply.



Fig. 3