Clarke®

WOODWORKER

10” COMPOUND MITRE SAW

Model CMS10

Part Number 6501305

Operating & Maintenance Instructions

CE

SPECIFICATIONS

Motor:	230V 50Hz 1 phase.
Input Current	8.35 Amps
Power Rating:	1600 Watts
Speed:	4800 RPM
Fuse Rating	13 Amps
Dimensions: (Head Lowered)	(H) 375 x (W) 767 x (D) 545 mm
Dimensions: (Head Raised)	(H) 575 x (W) 767 x (D) 545 mm
Blade type/size: (Fitted)	TCT/ 255 mm, 30 mm bore, 60T
Drive Spindle Diameter	16 mm
Dust Port Diameter	31/37 mm (Inner/Outer)
Sound Power level (measured)	99.3 dBLWA
Vibration Level	<2.5 m/s² (Normal Load)
Net weight	11.5 kg
Part Number	6501305

Maximum Cutting Sizes

Type of Cut	Depth	Thickness
Cross (90°)	**65mm**	**130mm**
Mitre(45°)	**65mm**	**90mm**
Bevel (at 45°)	**40mm**	**130mm**
Compound (at 2x 45°)	**90mm**	**32mm**

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. Always consult the machine's data plate

DO NOT dispose of theis product with general household waste. It must be disposed of in accordance with all laws governing waste electrical and electronic equipment at a recognised disposal facility.

PARTS & SERVICING

For Parts & Servicing, 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

Thank you for purchasing this CLARKE 10 inch Compound Mitre Saw which is designed for DIY/hobby and medium trade use only.

Before operating the Mitre Saw please read this leaflet thoroughly and carefully follow all instructions. This will ensure the safety of yourself and that of others around you, and you can also look forward to the machine giving you long and satisfactory service.

GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt 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.

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SAFETY PRECAUTIONS

GENERAL SAFETY RULES FOR OPERATING MACHINERY

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. **READ** and **BECOME FAMILIAR** with the entire operating manual. Learn the machines' applications and limitations as well as the specific potential hazards peculiar to it.
2. **EARTH ALL MACHINES.** If the machine is equipped with three-pin plug, it should be plugged into a three-pin electrical socket. Never remove the earth pin.
3. **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.
4. **CHECK** for **DAMAGE**. Before using the machine, any damaged part, such as a guard etc., 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.
5. **DISCONNECT** the **MACHINE** from the power supply before servicing and when changing accessories such as blades, etc.
6. **KEEP GUARDS** in place and in working order.
7. **ALWAYS WEAR SAFETY GOGGLES,** manufactured to the latest European Safety Standards. Also use a face or dust mask if the cutting operation is dusty. Everyday eyeglasses do not have impact resistant lenses, they are NOT safety glasses.
8. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
9. **ALWAYS WEAR EAR PROTECTORS/DEFENDERS** as this machine generates considerable noise which can be in excess of 97dBA.
10. **DON'T FORCE** the machine. It will do a better and safer job at the rate for which it was designed.

11. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form the habit of checking to see that keys and adjusting wrenches are removed from the machine before switching on.
12. **DRUGS, ALCOHOL, MEDICATION.** Do not operate machine while under the influence of drugs, alcohol or any medication.
13. **USE RECOMMENDED ACCESSORIES.** The use of improper accessories could be hazardous.
14. **NEVER LEAVE MACHINE RUNNING UNATTENDED.** Turn power OFF. Do not leave machine until it comes to a complete stop.
15. **ALWAYS REMOVE PLUG** from electrical outlet when adjusting, changing parts, or working on machine.
16. **AVOID DANGEROUS ENVIRONMENT.** Don't use power machines 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.).
17. **KEEP CHILDREN AWAY.** All visitors should be kept a safe distance from the work area, especially whilst operating the unit.
19. **MAINTAIN MACHINE IN TOP CONDITION.** Keep tools sharp and clean for the best and safest performance. Follow maintenance instructions.
21. **DON'T OVERREACH.** Keep your proper footing and balance at all times. For best footing, wear rubber soled footwear. Keep floor clear of oil, scrap wood, etc.
22. **WEAR PROPER APPAREL.** Loose clothing or jewelry may get caught in moving parts. Wear protective hair covering to contain long hair.
23. **MAKE WORKSHOP CHILDPROOF.** Cover the saw adequately when not in use, to prevent children from damaging themselves by tampering with it.
24. **NEVER STAND ON THE MACHINE.** Serious injury could occur if the machine is tipped or if a cutting tool is accidentally contacted. Do not store materials above or near a machine, such that it is necessary to stand on the machine to reach them.
25. **HANDLE WITH EXTREME CARE** Whenever transporting or installing machinery, and always use a lifting tool.
26. **AVOID ACCIDENTAL STARTING.** Ensure the switch is OFF before plugging in to mains.
27. **BE AWARE** that **ACCIDENTS** are caused by carelessness due to familiarity. **ALWAYS** concentrate on the job in hand, no matter how trivial it may seem.

ADDITIONAL SAFETY INSTRUCTIONS for MITRE SAWS

1. Wear safety goggles as protection against flying wood chips and saw dust. In many cases, a full face shield is even better protection. A dust mask is also recommended to keep saw dust out of your lungs.
2. Use a solid wood workbench which will not move under load.
3. This saw is for indoor, DIY or medium trade use only.
4. Clear the work table of all objects except the workpiece (tools, scraps, rulers etc.) before switching on the saw.
5. Keep your fingers well away from the blade.
6. Switch off the saw, and make sure the blade has come to a complete stop before clearing sawdust or off-cuts from the table.
7. Make sure there are no nails or foreign objects in the part of the workpiece to be sawn.
8. Set up the machine and make all adjustments with the power OFF, and disconnected from the supply.
9. DO NOT operate the machine with the guards removed. They must all be in place and securely fastened when performing any operation.
10. Use ONLY approved replacement saw blades. Contact your local CLARKE dealer for advice. The use of inferior blades may increase the risk of injury.
11. DO NOT saw any material that does not have a flat surface on which to bear.
12. This machine is designed for cutting wood. DO NOT use for cutting metal, plastics or masonry.
13. Do Not force the blade, lower it gently into the work.
14. Ensure you have complete control of the Cutting Head at all times. When a cut is completed, return it to its uppermost position gently. DO NOT allow it to snap back heavily under spring pressure.
15. Always clamp the work to the table...DO NOT perform freehand operations.
16. Ensure that the portion of the workpiece being cut bears firmly against the back fence.
17. Provide adequate support for long workpieces.
18. Never use solvents for cleaning plastic parts as this could cause damage to the material. A soft damp cloth only is required.
19. The saw blade must have a rated capacity greater than the maximum speed of the machine - see Specifications

ELECTRICAL CONNECTIONS

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch.

WARNING! THIS APPLIANCE IS DOUBLE INSULATED

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

Blue - Neutral

Brown - Live

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

Connect BROWN cord to terminal marked with "L" or coloured RED.

Connect BLUE cord to the terminal marked with "N" or coloured BLACK.

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewirable) 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 dealer or most electrical stockists.

Fuse Rating

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

Cable Extension

If a cable extension is needed, it is essential to ensure that the size of the conductors is at least the same size as those of the power cable supplied.

PRINCIPAL PARTS OF THE SAW

Fig.1

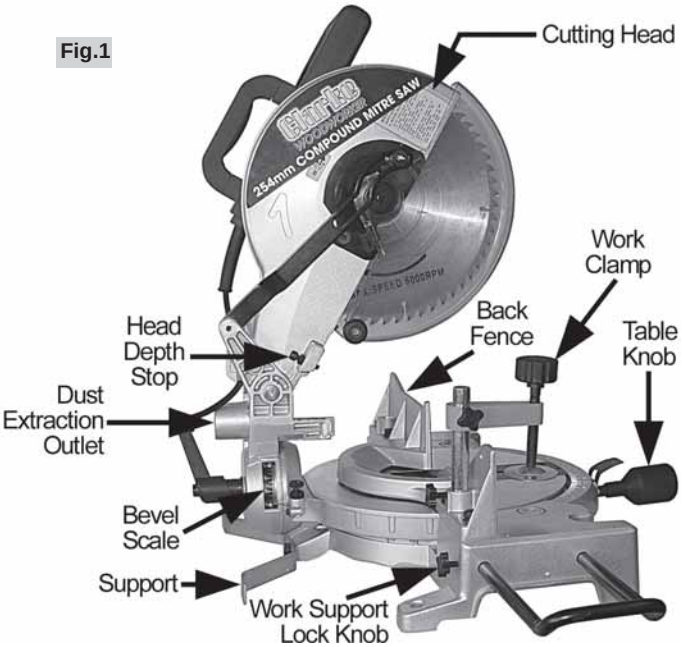
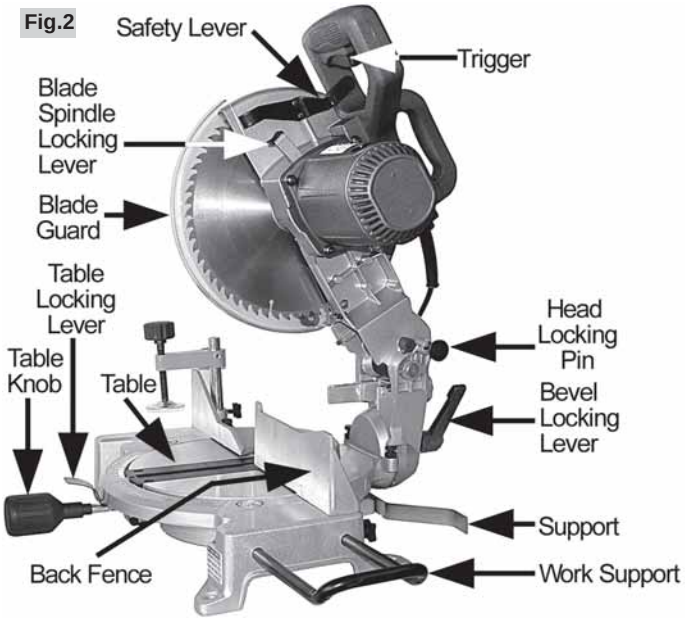


Fig.2



FEATURES

As its' name implies, the machine is a Bevel/Mitre Saw, capable of straight cross cutting, and cutting bevels and mitres, or a combination of the two.

The main arm, or Cutting Head, carries the motor and the tungsten carbide saw blade. The head, complete with table, is allowed to swivel to produce mitre cuts and the head may also tilt to the left to produce bevel cuts. A combination of swivelling head and tilting head will also produce compound mitres

The table, with head, is designed to swivel up to 45 degrees in either direction and is provided with positive stops at 90, 60, 45 and 22.5 degrees.

The maximum sizes of wood that may be cut in any of these processes is given in the Specifications on page 3.

A dust extraction outlet is provided at the rear of the machine, on to which the dust bag (supplied) is fitted. If necessary, hose from a vacuum cleaner may be attached to provide fast and efficient removal of sawdust. The vacuum cleaner may be used continuously or intermittently depending upon your requirements.

The blade drive shaft has a 16mm diameter. A 60T TCT blade is provided with a bore of 30mm. A reducer bush is therefore used, and one spare is provided.

This saw is not designed for cutting metal, plastics or masonry.

To transport the saw, simply pick it up using the carry handle on top of the head.

NOTE: The cutting head must be in its lower position as shown below, locked in position using the Head Locking Pin.

A saw blade spindle locking lever is provided - see Fig.3, used in order to remove the saw blade. **WARNING! NEVER** touch this lever when the saw is operating.

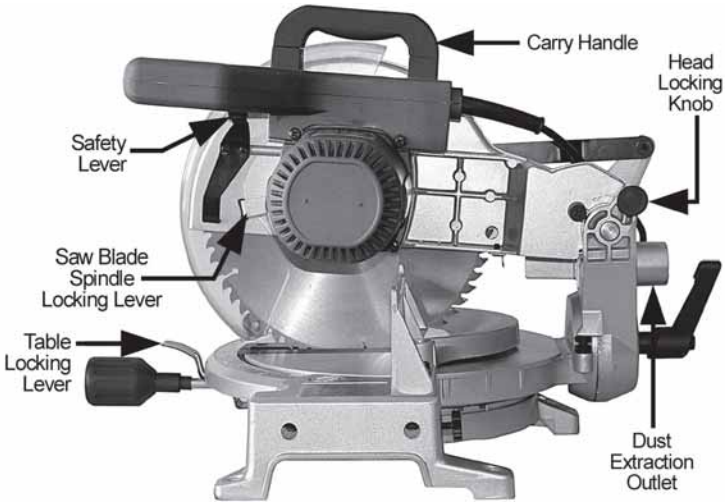


Fig.3

ASSEMBLY and INSTALLATION.

The saw is fully assembled and adjusted at the factory. On receipt inspect the machine to ensure that all parts are accounted for and that no damage was incurred during transit.

Loose items are:

- 1 x socket spanner:
- 1 x spare blade bore reducer bush.
- 1 x dust bag
- 1 x rear support with nut and bolt
- 1 x spare set of carbon brushes.
- 1 x plastic 90/45^{O} template.
- 1 x work clamp with support bar
- 2 x work supports

Any deficiency or damage should be reported to your CLARKE dealer immediately.

Mount the machine on a firm solid base that will not move under load. Ensure there is an appropriate electrical supply, and adequate lighting, so that you will not be working in your own shadow.

Four holes are provided, one at each corner of the base, so that the machine may be bolted permanently to a workbench for added stability, using 8mm bolts (not provided). Alternatively it may be bolted to a piece of plywood with a thickness of 16mm (5/8").

If not bolted to a workbench, the rear support must be fitted - see Figs 1 and 2. A single bolt secures the support to the rear of the base housing.

The Cutting Head is locked in its lower position for transit purposes. To release it, pull out the Head Locking Pin - see Fig 3 (It may be necessary to apply slight downward pressure to the head in order to do so), and allow the head to rise to its upper position gently, under control.

The head will lock in its upper position, and is prevented from being lowered until the Safety Lever (see Fig 2) is pushed to one side.

OPERATION. (Ref Fig.4)

A. Cross Cutting. (at 90°)

Set the table at 0 degrees as shown on the scale at the front of the table. To do this, firstly unscrew the large table knob a few turns, then press down on the table locking lever - see Fig.3, and turn the table, using the large table knob, until it clicks into place.

To secure the table, screw in the table knob fully.

Set the work in place with the left end firmly clamped against the table and back fence.

It is important to ensure that one end of the workpiece is completely free to move i.e. NOT clamped or held in any way. This will normally be the off-cut or shorter end.

NOTE: If the workpiece is not entirely straight, ensure that the portion at either side of the intended cut rests firmly against the table and back fence.

When satisfied, make a final check to ensure that all safety precautions are being complied with, then pull and hold the trigger and allow the blade to reach full speed. If any unusual sounds or vibrations occur, release the starter switch immediately and investigate the cause.

When satisfied, push the Safety Lever to one side with your thumb or forefinger and gently lower the head so that the blade makes contact with the workpiece. Do not force the blade, a light pressure is all that is required.

You will notice that to provide maximum safety, the blade is not exposed at any time, and the guard rises automatically as the blade is lowered. Nevertheless, NEVER treat the machine with indifference, and NEVER be casual with your approach.

To switch off, release the trigger whilst still maintaining full control of the head. NEVER allow the head to spring upwards - always maintain control. Wait for the blade to stop completely before removing the workpiece, off-cuts etc.

B. Mitre Cutting

This is a cross cutting operation, except that the saw blade is set at an angle to the work, but remains perpendicular to the table. This is achieved by mounting the complete head assembly on a table which is free to rotate by up to 45° in either direction .

To set the required mitre angle, unscrew the table knob a few turns, then depress the table locking lever and rotate the table, with the head and saw blade, to the desired position, using the large table knob, lining up the angle on the scale with the pointer. Note that the table will lock in position in the 0^{O}, 22.5^{O}, 30^{O} and 45^{O} positions. The procedure for cutting is the same as that for cross cutting.

To secure the table, screw in the table knob.

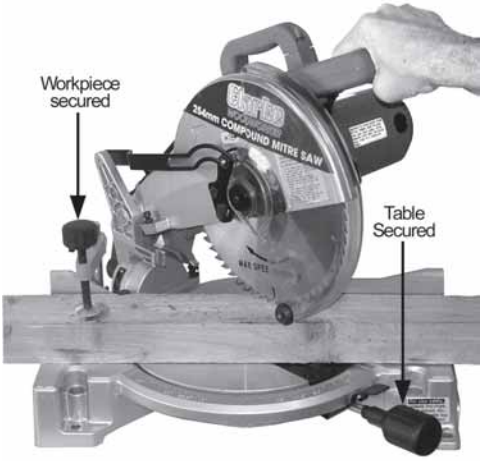


Fig.4

C. Straight Bevel Cutting

As with Mitre Cutting, this is a cross cutting operation, except that the blade is not perpendicular to the table, (see fig. 5)

Ensure the table is set to 0°, and is locked in place using the table knob.

The bevel adjuster is factory set so that when the head is tilted to its fullest extent the blade will cut a perfect 45° bevel.

If however you require any other angle, you should proceed as follows:

Cut a mitre of the required angle, on a spare piece of wood, and use this as a template for your bevel cut.

Fig.5

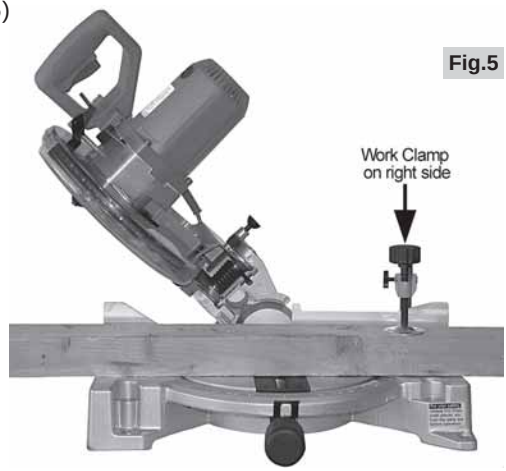
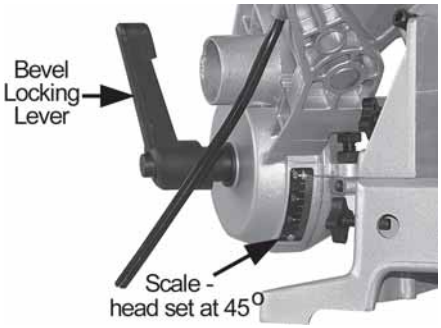


Fig.6



Slacken off the bevel locking lever, and swing the head to the side. Lower the arm, and bring your template up to the saw blade. When satisfied that the edge of template and blade are parallel, lock the head in position with locking lever. Your angle is now set.

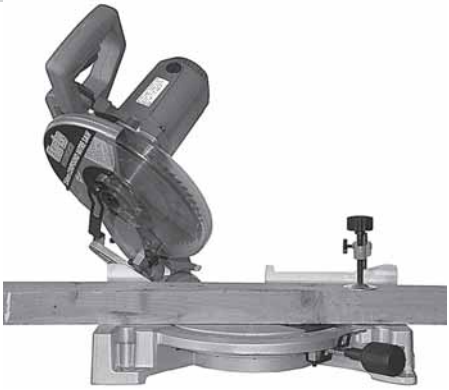
The procedure for cutting is the same as that for cross cutting....press trigger, wait for full speed to develop, push safety lever to one side, then lower the blade to the workpiece.

D. Compound Mitre and Bevel Cutting.

Having determined the angles you require, firstly set the bevel angle, using the procedure described above, and then the mitre angle.

NOTE: Compound mitre and bevel cuts, at a full 45°, can only be made when the head is turned to the left.

The procedure for cutting is the same as that for cross cutting.



MAINTENANCE

1. General

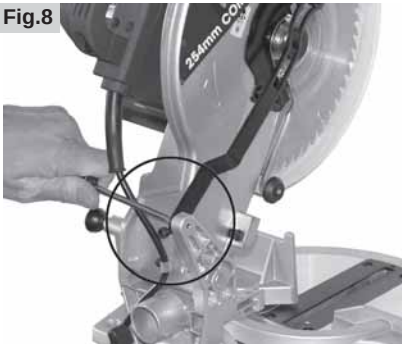
The machine is maintenance free, except for changing the saw blade when necessary, maintaining adjustments, and ensuring that after use, you clean away any sawdust or wood chips, with a low pressure air line or brush, paying particular attention to the motor air vents which should be kept clear at all times.

Should the motor not function normally, it is possible that it has become clogged with saw dust, in which case, it will be necessary to disassemble the motor in order to clean the various components. Contact your CLARKE dealer for advice.

2. Changing the Saw Blade

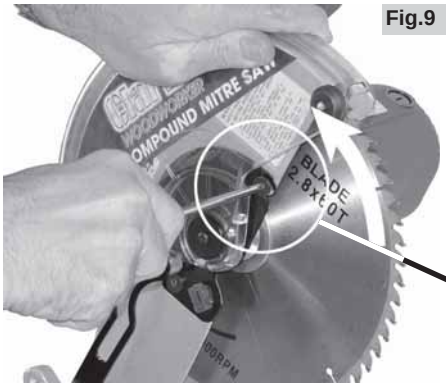
IMPORTANT: Exercise extreme care when handling the saw blade. The tips are extremely sharp, and careless handling could result in severe personal injury.

Fig.8



1. With the machine disconnected from the mains supply, and the cutting head in the raised position, undo and remove the screw securing the link arm attached to the clear plastic blade guard, indicated in Fig.8.

Fig.9



2. Move the safety lever to one side to allow the clear plastic blade guard to be pulled around the saw blade as shown in Fig.9.

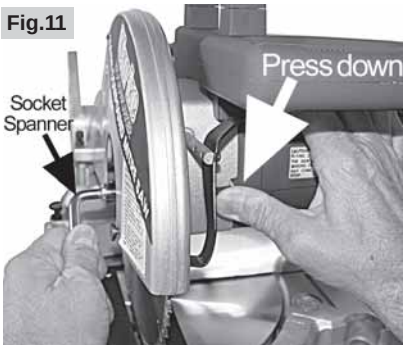
3. Hold the blade guard in this position whilst slackening off the screw, indicated, sufficient for the cover to become disengaged - note the slotted hole. It is not necessary to remove the screw.

Fig.10

4. Allow the blade guard to fully reassert, as shown in Fig.10, then unscrew and remove the second cover screw, as shown.

   This will allow the complete blade guard with centre hub and linkage to be carefully pulled from the head.

Fig.11



5. Lower the saw head and lock in place with the locking pin
6. With the clear plastic blade guard removed, hold down the spindle locking lever, arrowed in Fig. 11, and undo, but do not remove the saw blade centre screw, using the box spanner supplied, by turning **CLOCKWISE** .i.e. **The screw has a left hand thread.**

WARNING! NEVER push IN the Spindle Locking Lever with the motor running

7. Pull out the head locking pin and allow the saw head to rise, under control, then unscrew and remove the blade centre bolt. Finally, pull off the outer flange followed by the saw blade.

NOTE: You should take this opportunity to thoroughly clean parts previously inaccessible.

By removing the collar, it is possible to use blades with a 16mm bore.

8. Replace the blade, ensuring it is of the correct bore, or, where necessary a collar is used to ensure it is a perfect fit on the shaft. Ensure also that all parts are perfectly clean and the blades' teeth point down at the front.

   Additionally, the blade **MUST** be rated with a maximum speed greater that 4850RPM

   Please note that spare blades are available from Clarke International. Please see your Clarke dealer.

   Replace the outer flange and screw in the centre bolt, remembering it has a **left hand thread** - i.e. turn anticlockwise to tighten.
9. Replace the clear plastic blade guard in reverse order to that when disassembling.

3. Carbon Brushes Replacement

A spare pair of carbon brushes are supplied with the machine. Should it become necessary to change these, evidenced by erratic performance, then simply unscrew the brush holder plugs, ensuring the machine is disconnected from the mains supply, and pull out the worn brushes. Replace with new brushes, and screw in the plug, taking care not to cross thread it.

Fig.12

4. Head Adjustments

If you find that the cross cut is not entirely square, it will be necessary to adjust the head using the 90° adjuster screw shown in Fig. 13.

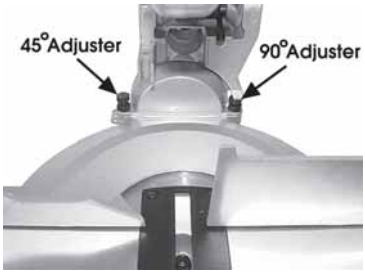
To do this, slacken off the bevel locking lever, then lower the arm and lock in place with the head locking knob.

Place a small square on the table, and bring the square up to the blade to test for accuracy.

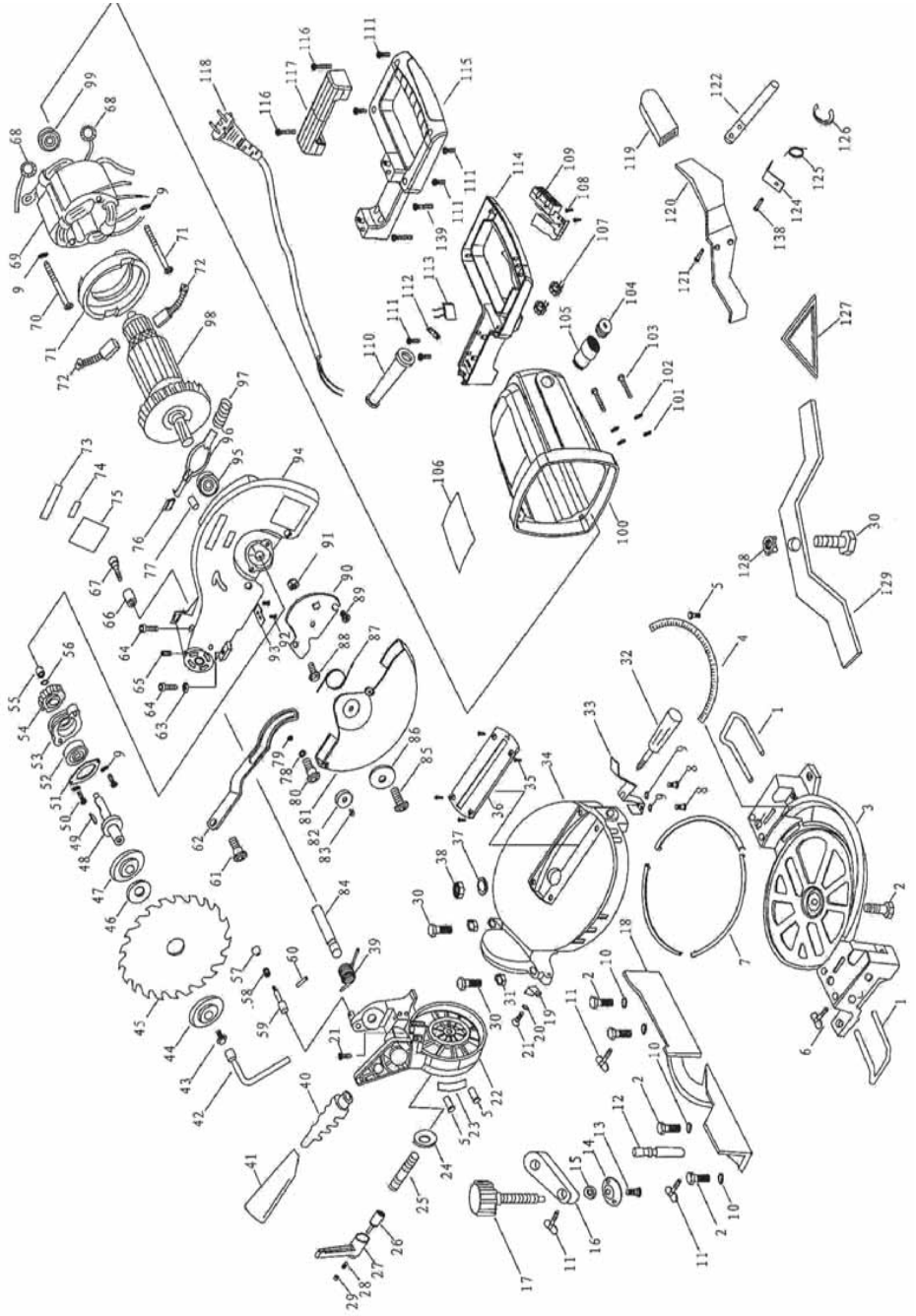
Should any adjustment be required, slacken off the 90° adjuster screw lock nut and screw the adjuster in or out, as necessary, whilst holding the head firmly against the stop. Tighten the securing nut when the head is exactly perpendicular.

Similarly should the 45° stop require adjusting, use a 45° template up against the saw blade to set the adjuster to the correct position.

Fig.13



PARTS DIAGRAM



PARTS LIST

No.	Description		Part No.
1	Circlip For Shaft	1	GRCMS1001
2	Pressure Rod	1	GRCMS1002
3	Screw M4×55	2	GRCMS1003
4	Spring Lock Washer	2	GRCMS1004
5	Screw M4×10	4	GRCMS1005
6	Cable Clip	2	GRCMS1006
7	Shaft	1	GRCMS1007
8	Split Washer	1	GRCMS1008
8-1	Screw M4.2×9	1	GRCMS1008-1
9	Split Washer	1	GRCMS1009
10	Cable Plug	1	GRCMS1010
11	Extension Spring	1	GRCMS1011
12	Push Rod	1	GRCMS1012
13	Head	1	GRCMS1013
14	Plain Washer	9	GRCMS1014
15	Spring Lock Washer	9	GRCMS1015
16	Screw M4×30	4	GRCMS1016
17	O-Ring	1	GRCMS1017
18	Stop Lever	1	GRCMS1018
19	Plain Washe	1	GRCMS1019
20	Nut M12	1	GRCMS1020
21	Nut M5	4	GRCMS1021
22	Handle (Upper)	1	GRCMS1022
23	Capacitor	1	GRCMS1023
24	Switch	1	GRCMS1024
25	Inductor	1	GRCMS1025
26	Handle (Upper Down)	1	GRCMS1026
27	Screw M4×22	3	GRCMS1027
28	Cover	1	GRCMS1028
29	Bolt M8×15(left)	1	GRCMS1029
30	Wheel Flange	1	GRCMS1030
31	Below Wheel Flange	1	GRCMS1031
32	Wheel Flange Washer	1	GRCMS1032
33	Screw M4×8	3	GRCMS1033
34	Bearing Cover plate	1	GRCMS1034
35	Protective Cover	1	GRCMS1035
36	Bearing D180201	1	GRCMS1036
37	Fore Cover	1	GRCMS1037
38	Output Spindle	1	GRCMS1038
39	Woodruff Key	1	GRCMS1039
40	Screw M5×10	1	GRCMS1040
41	Bevel Gear	1	GRCMS1041
42	Axle Elasticity Ring 12	1	GRCMS1042
43	Oil Bearing	1	GRCMS1043
44	Cable Base	1	GRCMS1044
45	Screw	1	GRCMS1045
46	Cable	1	GRCMS1046
47	Cable Armor	1	GRCMS1047
48	Rubber Washer	2	GRCMS1048
49	Cable Armor	1	GRCMS1049
50	Nut Wrench	1	GRCMS1050

No.	Description		Part No.
51	Lengthening Nut	1	GRCMS1051
52	Armor	1	GRCMS1052
53	Spring	2	GRCMS1053
54	Frame	1	GRCMS1054
55	Copper Washer	1	GRCMS1055
56	Spring Lock Washer	4	GRCMS1056
57	Screw M5×8	4	GRCMS1057
58	Blade Protective Plate	2	GRCMS1058
59	Socket Hd Cap Screw	4	GRCMS1059
60	Bolt M8×70	2	GRCMS1060
61	Turntable Locking Screw	3	GRCMS1061
62	Socket Hd Cap Screw	2	GRCMS1062
62-1	Socket Hd Cap Screw		GRCMS1062-1
63	Washer	2	GRCMS1063
64	Nut M8	1	GRCMS1064
65	Nut M12	2	GRCMS1065
66	Frame Rotation	2	GRCMS1066
67	Spring Fixed Seat	1	GRCMS1067
68	Washer	1	GRCMS1068
69	Blade Carrier Rotation	1	GRCMS1069
70	Base	1	GRCMS1070
71	Screw M5×12	2	GRCMS1071
72	Fence	1	GRCMS1072
73	Turntable	1	GRCMS1073
74	Nut M6	4	GRCMS1074
75	Plain Washer 6	2	GRCMS1075
76	Base Table	1	GRCMS1076
77	Right-angle Piece	2	GRCMS1077
78	Basetable Washer	6	GRCMS1078
79	Screw M4×65	2	GRCMS1079
80	Brush Holder	2	GRCMS1080
81	Carbon Brush	2	GRCMS1081
82	Screw	4	GRCMS1082
83	Bearing D18201	1	GRCMS1083
84	Armature	1	GRCMS1084
85	Bearing 80029	1	GRCMS1085
86	Fan Guide	1	GRCMS1086
87	Stator	1	GRCMS1087
88	Bushing	1	GRCMS1088
89	Housing	1	GRCMS1089
90	Rear Cover	1	GRCMS1090
91	Wrench	1	GRCMS1091
92	Wrench Socket	1	GRCMS1092
93	Screw M4x16	2	GRCMS1093
94	Nut	2	GRCMS1094
95	Connection Box	1	GRCMS1095
96	Connection Box Cover	1	GRCMS1096
97	Screw	2	GRCMS1097
98	Connection Terminal	1	GRCMS1098
99	Cable Clip	1	GRCMS1099

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This is an important document, and should be retained.

DECLARATION OF CONFORMITY

We declare that this product complies to the following standards/directives:

- **98/37/EEC**
- **2000/14/EC**

Product Description: **COMPOUND MITRE SAW**

Model Number: **CMS10**

Serial (Batch) No: **See Product Data Plate**

Signed

Mr. D Kemp
Engineering Manager

Clarke® INTERNATIONAL
Hemnall Street, Epping, Essex CM16 4LG

JANUARY, 2008

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