

Clarke®



355MM 110 V ABRASIVE CUT-OFF SAW MODEL NO: CON14110

PART NO: 6470169

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

DL0922 - ISS 3



INTRODUCTION

Thank you for purchasing this CLARKE Abrasive Cut-Off Saw which is suitable for cutting any ferrous metals which are compatible with the type of abrasive wheel fitted.

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.

SAFETY SYMBOLS

	Read instruction manual before use		Wear eye protection
	Wear ear defenders		Wear a dust mask
	Wear protective gloves		Class II product that does not require an earth connection



GENERAL POWER TOOL SAFETY WARNINGS



WARNING: READ ALL INSTRUCTIONS. FAILURE TO FOLLOW ALL INSTRUCTIONS LISTED BELOW MAY RESULT IN ELECTRIC SHOCK, FIRE AND/OR SERIOUS INJURY. THE TERM "POWER TOOL" IN THE WARNINGS REFERS TO YOUR SAW.

Save all warnings and instructions for future reference.

WORK AREA SAFETY

- a. **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
- b. **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.*
- c. **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

ELECTRICAL SAFETY

- a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*
- c. **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d. **Do not abuse the cable. Never use the cable for carrying, pulling or unplugging the power tool. Keep cable away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cables increase the risk of electric shock.*
- e. **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.*
- f. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*



PERSONAL SAFETY

- a. **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 serious personal injury.*
- b. **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*
- d. **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- e. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- f. **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.*
- g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*

POWER TOOL USE AND CARE

- a. **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*
- b. **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.*
- c. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- d. **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.*



- e. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the tool.** *Power tools are dangerous in the hands of untrained users.*
- f. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

SERVICING

- a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

ADDITIONAL WARNINGS FOR CUT-OFF SAWS

1. **IMPORTANT:** You should not operate this machine unless you are thoroughly familiar with metal cutting saws. If there is any doubt whatsoever, you should consult a qualified person.
2. DO NOT operate the machine until it is completely assembled and this entire manual has been read and understood.
3. Ensure the proper electrical regulations are followed.
4. Ensure the abrasive disc is securely mounted in accordance with these instructions before connecting to a power supply.
5. DO NOT over tighten the abrasive disc. This can cause stress, and could lead to the wheel shattering when under load.
6. Always check the abrasive disc for cracks before use.
7. Before switching the machine on, ALWAYS ensure the work is properly secured. ALWAYS use the vice, NEVER hand hold a workpiece.
8. Make all adjustments with the power OFF.
9. When starting a cut, always ease the tool into the work. A harsh or sudden impact could shatter the abrasive disc.
10. Ensure the abrasive disc reaches maximum speed before beginning a cut.
11. DO NOT use the machine with the guards removed.
12. Ensure you use the correct type of abrasive disc for the type of material being cut. Metal cutting & masonry abrasive discs are available from your Clarke dealer. NEVER cut magnesium, wood, or non-ferrous metals.



ELECTRICAL CONNECTIONS (110V ONLY)



WARNING! READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO A POWER SUPPLY.

This product can be connected to one of the following power supplies:

- 110V Generator, 110V Isolating Transformer or 110V site supply

Connecting it to any other power source may cause damage.

This product includes a fitted industrial plug to BS-EN 60309 and cable for use with a 110 volt supply.

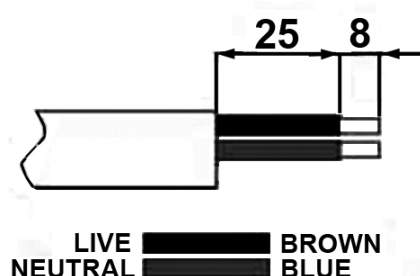
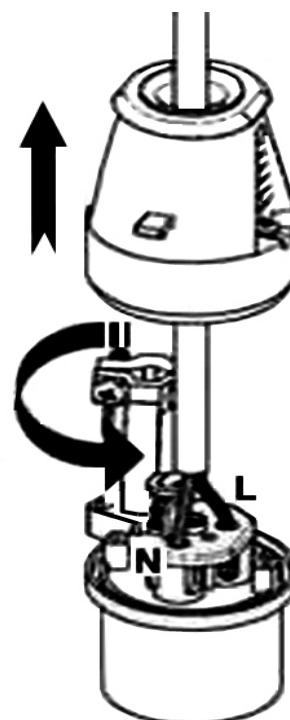
ON NO ACCOUNT MUST A 230V, 13AMP (BS1363) PLUG BE USED.

If using a portable 110V transformer make sure it has a rated capacity sufficient to take the load of the saw.

If the plug needs changing at any time, a plug of identical specification must be used:

1. Undo the socket screws & remove the rear section.
2. Rotate the cable clamp clear of the terminals.
3. Feed the cable through the rear gland in the plug.
4. Remove the cable sheath to the required lengths as shown in the diagram.
5. Terminate the correct wires in the correct terminal blocks as shown.
6. Remove the cable clamp screws. Clip the cable clamp back into position and place the clamp around the outer sheath of the cable. Replace the screws and tighten until the cable is secure.
7. Replace the rear cover and tighten the cover screws.

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself. This is a Class II product and does not require an earth connection.



UNPACKING AND ASSEMBLY

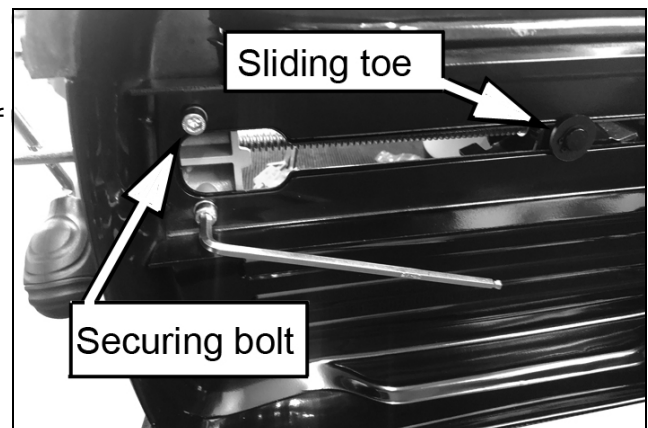
Unpack the saw carefully and ensure that the following items are in the box. In the event of any deficiencies you should contact your CLARKE dealer immediately.

- Abrasive Cut-off Saw
- 355mm Cutting disc (supplied fitted)
- Work holding clamp c/w fixing bolts

Install the work holding clamp to the base of the machine.

With the saw on its side, slide the toe of the work clamp along the slot in the saw base.

Secure it to the base from underneath using the two fixing bolts supplied. Tighten using a 6mm hex key.

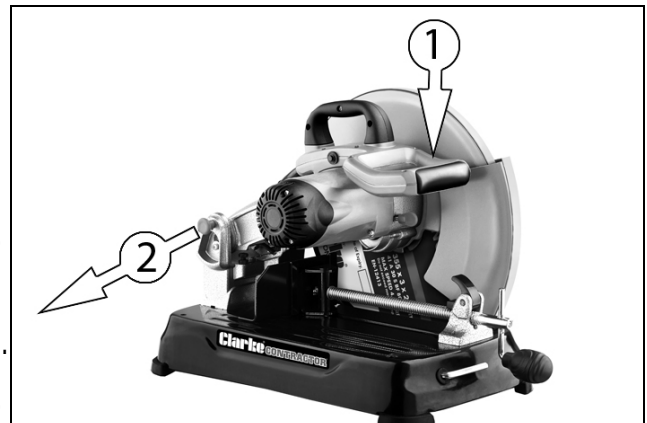


BEFORE USE

UNLOCKING / LOCKING

To unlock the saw and raise the motor arm.

1. Push down on the handle (1).
2. Pull the locking pin out slightly (2) to unlock the motor arm.
3. Release the pressure on the handle.
 - The motor arm will then raise into position.
 - Reverse this process when locking the motor arm down for storage.



MATERIAL CLAMPING AND SUPPORT

- Angle iron should be clamped and cut with both edges resting against the base of the saw.
- A spacer block slightly narrower than the workpiece can be used to raise the workpiece if required.

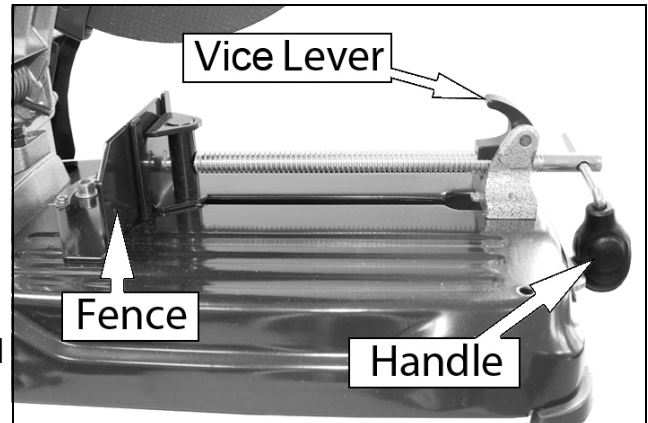


- A long workpiece must be supported by a block so that it will be level with the top of the base. The cut-off end should be free to fall downward to avoid binding against the wheel.

OPERATION

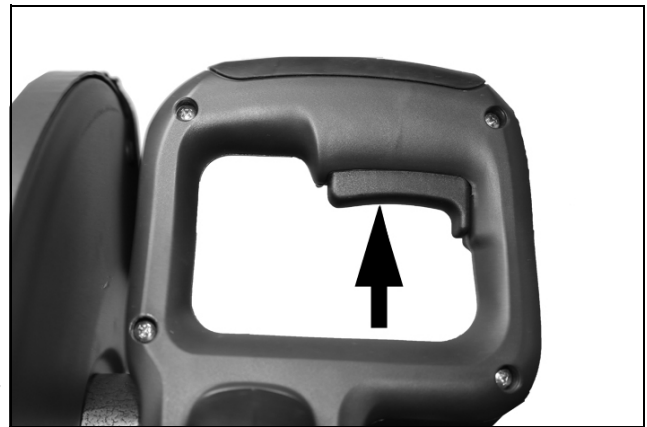
VICE OPERATION

1. Turn the handle counterclockwise to remove clamping pressure.
2. Lift the vice lever up.
3. Pull the handle out as far as desired.
 - The vice may be pushed forward into the work without turning the handle.
4. Lower the vice lever then tighten the vice on to the workpiece using the handle.



TRIGGER SWITCH

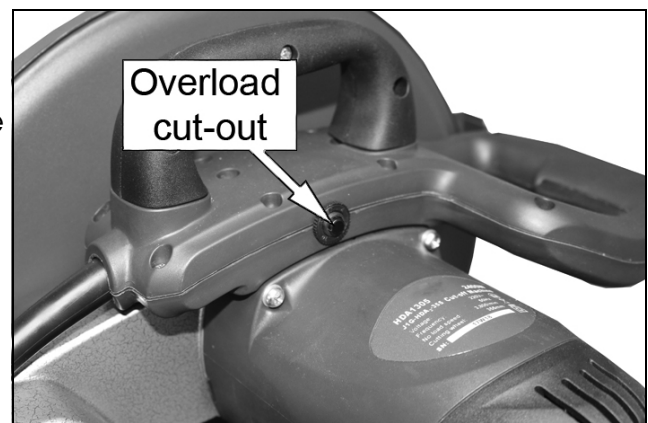
1. To start the saw, pull the trigger switch.
 - Wait a couple of seconds until the blade reaches full speed.
2. To turn the saw off, release the trigger switch.
 - Keep hands and materials away from the wheel until it has come to a complete stop.



OVERLOAD CUT-OUT

The motor is protected against overload by an overload cut-out. If the rated current is exceeded, the overload cut-out switches the saw off.

After a short cooling-off phase, the saw can be reset by pressing the overload switch.



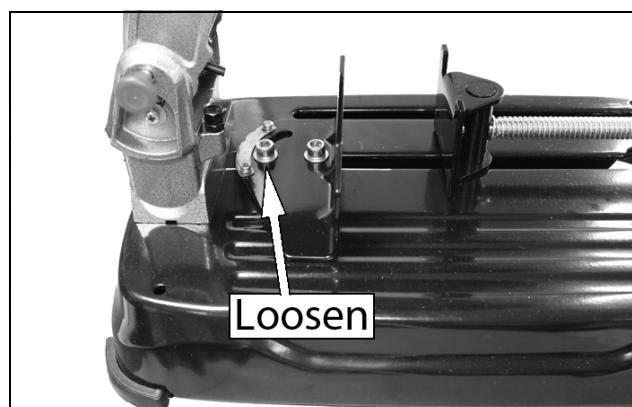
ADJUSTMENTS



WARNING: TURN OFF AND UNPLUG THE SAW BEFORE MAKING ANY ADJUSTMENTS. MAKE SURE THE TRIGGER SWITCH IS IN THE OFF POSITION.

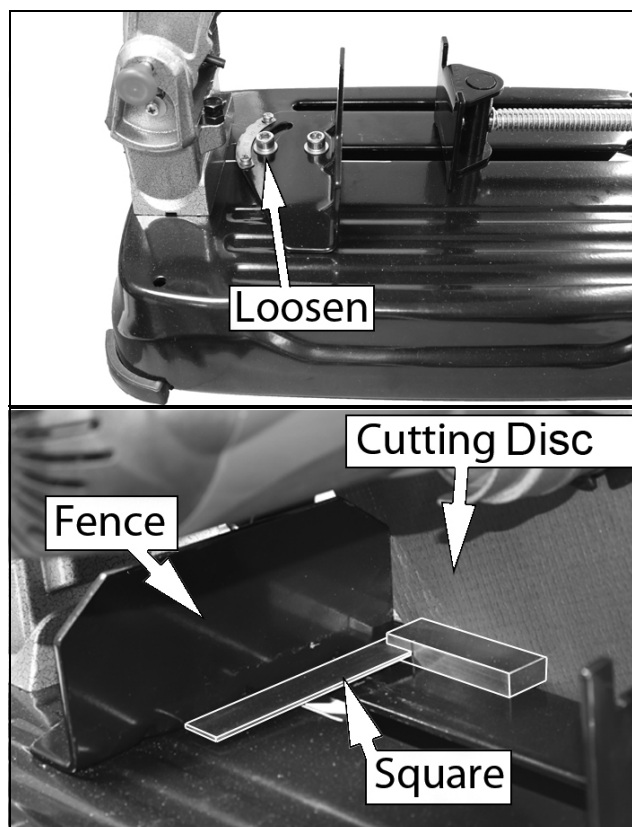
CHANGE THE CUTTING ANGLE

1. Use the hex wrench provided to loosen (do not remove) the two fence bolts.
 2. Adjust the fence to the desired angle.
 3. Re-tighten both fence bolts before use.
- When making a mitre cut, the vice may not clamp securely, depending on the thickness of the workpiece and the mitre angle.
 - Other aids (such as spring, bar or C-clamps) will be necessary to secure the workpiece to the fence when making these cuts.



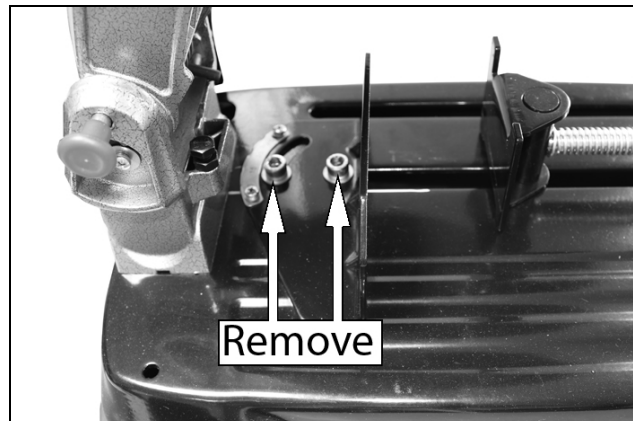
SQUARING THE FENCE TO THE BLADE

1. Disconnect the power supply.
2. Loosen the two fence bolts, push the arm down until the cutting disc lowers into the base.
3. Place a set square against the cutting disc and adjust the fence to rest against the square.
4. Securely tighten both fence bolts before use.



TO CHANGE THE SPACING BETWEEN THE FENCE AND VICE

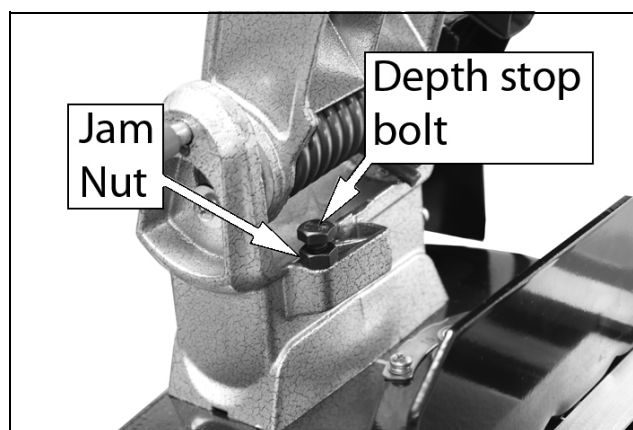
1. Use the wrench provided to loosen and remove the two fence bolts.
2. Adjust the fence to the desired position.
3. Replace the fence bolts and tighten securely before use.



DEPTH STOP

The depth stop is set at the factory for a new 14" (355mm) cutting disc. This can be adjusted as the wheel wears.

1. Loosen the jam nut.
2. Loosen the depth stop bolt.
3. Adjust the bolt to desired height.
4. Then turn the jam nut until seated firmly against the casting.



- Securely tighten the depth stop bolt before use.



CAUTION: WHEN CHANGING TO A NEW CUTTING DISC, RE-ADJUST THE DEPTH STOP TO THE ORIGINAL POSITION TO PREVENT CUTTING INTO THE SUPPORTING SURFACE.



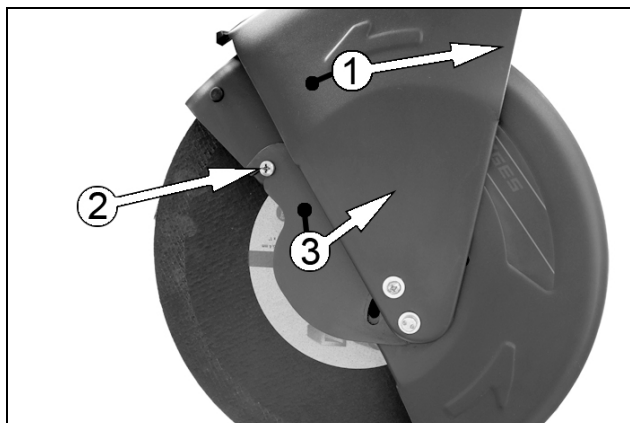
REMOVAL AND INSTALLATION OF CUTTING DISCS



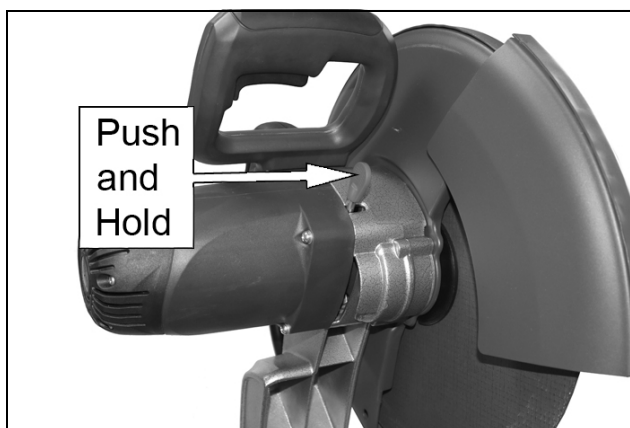
WARNING: TURN OFF AND UNPLUG THE SAW BEFORE MAKING ANY ADJUSTMENTS OR REMOVING OR INSTALLING CUTTING WHEELS. BE SURE THE TRIGGER SWITCH IS IN THE OFF POSITION.

Cutting discs are available from your CLARKE dealer - Part Number: 6470800

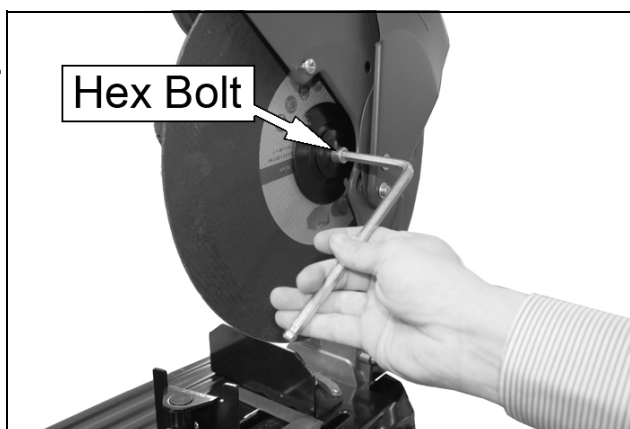
1. Lift the blade guard out of the way as shown.
2. Loosen the screw shown
3. Rotate the hub cover as shown to expose the blade.



4. Push and hold the blade lock.
 - You may need to rotate the blade by hand to allow the lock to engage.



5. Remove the Hex bolt, washer, outside flange and old cutting disc.
 - Make sure that the retaining disc surfaces are clean and flat.
6. Install the new cutting disc by reversing the above steps.
 - Do not overtighten the Hex bolt.



MAINTENANCE

CLEANING

1. Blow dirt and dust out of all air vents with clean, dry air at least once a week.
2. Never use solvents or other harsh chemicals for cleaning the saw.
3. Use a cloth dampened only with water and mild soap.
4. Never let any liquid get inside the saw or immerse any part of the saw in liquid.

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.

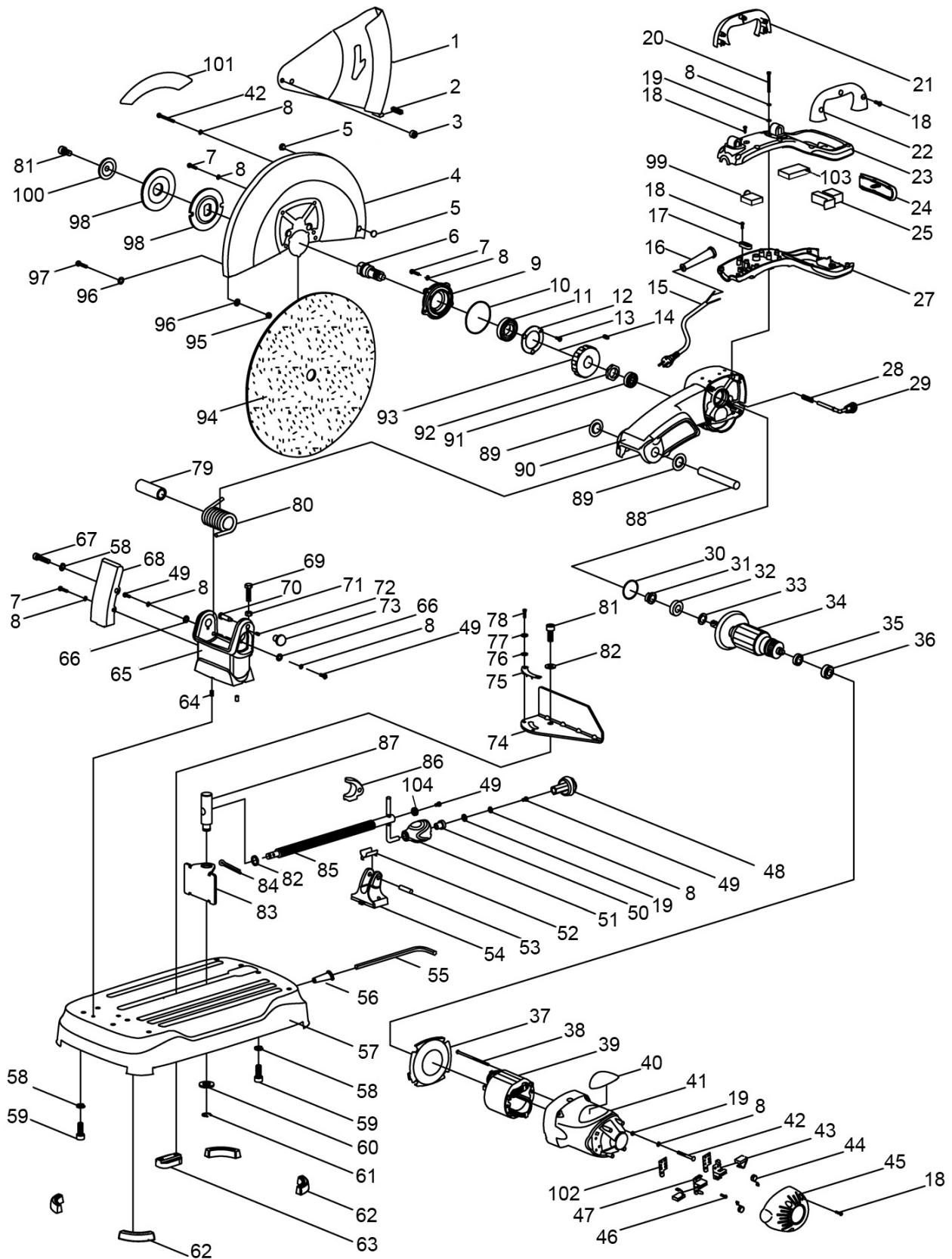
This means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

SPECIFICATIONS

Voltage	110V AC @ 50Hz		
Input power	1800W		
No-load speed	3800 rpm		
Weight	18.2 kg		
Dimensions (L x W x H)	550 x 315 x 400 / 570 (Height with saw head lowered / raised) mm		
Max cutting dimensions (mm)	Round	(130 dia @ 90°) - (115 dia @ 45°)	
	Square	(120 x 120 @ 90°) - (95 x 95 @ 45°)	
	Rectangle	(220 x 80 @ 90°) - (100 x 70 @ 45°)	
	Angle	(140 x 140 @ 90°) - (90 x 90 @ 45°)	
Sound Pressure Level (LPA)	95.24 dB(A)		
Sound Power Level (LWA)	108.24 dB(A)		
Sound Uncertainty Value (K)	3 dB(A)		
Vibration	< 2.5 m/s²		



PARTS DIAGRAM



PARTS LIST

1	Rotational Cover	37	Fan Guide	72	Rubber Pin
2	Plastic Sheath	38	Self-Tapping Screw ST4.8x95	73	Lockpin Knob
3	Sleeve Spacer	39	Stator	74	Fixed Block Plate
4	Disc Safety Guard	40	Rating Plate	75	Scale Plate
5	Rubber Sheath	41	Housing	76	Washer 4 mm
6	Output Spindle	42	Bolt M5 x 50	77	Washer 4 mm
7	Bolt M5 x 16	43	Carbon Brush	78	Bolt M4 x 6
8	Washer 5 mm	44	Roll Spring	79	Sheath
9	Bearing Holder	45	Back Cover	80	Twisted Spring
10	O-Ring	46	Self-Tapping Screw ST3.5x13	81	Bolt M10 x 25
11	Bearing 6005-2RZ	47	Brush Holder Assembly	82	Washer 10 mm
12	Bearing Washer	48	Rotating Knob II	83	Movable Block Plate
13	Bolt M4 x 12	49	Bolt M5 x8	84	Circlip 10 mm
14	Pin 6 x12	50	Rotating Sleeve	85	Stud
15	Cable with Plug	51	Rotating Knob III	86	Fast Clamp Nut
16	Cable Gland	52	Extract Reducer	87	Vertical Pin
17	Cable Clamp	53	Pin 8m 6 x35	88	Rotating Spindle
18	Self- Tapping Screw ST4.2x16	54	Pin Holder	89	Plastic Washer
19	Washer 5 mm	55	Hexagon Spanner	90	Gear Housing
20	Bolt M5 x30	56	Rubber Pipe	91	Bearing 6200-2Z
21	Right Handle	57	Base	92	Nut
22	Left Handle	58	Washer 8 mm	93	Driven Gear
23	Upper Grip	59	Bolt M8 x 20	94	Cutting Disc
24	Soft Grip Cover	60	Washer	95	Nut M6
25	ON-OFF Switch	61	Circlip 15 mm	96	Washer 6 mm
26	N/A	62	Rubber Foot	97	Bolt M6x20
27	Lower Grip	63	Bolts Locking Holder	98	Outer Retaining Disc
28	Compression Spring	64	Pin 6mm x 20	99	Overload protection
29	Spindle-Lock Assembly	65	Gear Housing Holder	100	Inner Retaining Disc
30	O-Ring 34.5x2.65	66	Washer	101	Name Plate
31	Oil-Seal Sheath	67	Bolt M8 x 35	102	Brush Holder
32	Bearing 6202-2Z/C	68	Rear Guard	103	Foam pad
33	Washer	69	Bolt M8 x 25	104	Lock Washer
34	Armature	70	Lockpin		
35	Bearing 609-2Z/C4	71	Nut M8		
36	Rubber Bearing Sleeve				



DECLARATION OF CONFORMITY



Hennell Street, Epping, Essex CM16 4LG

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 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 55014-1:2017 + A11, EN 55014-2:2015, EN IEC 61000-3-2:2019, EN 61000-3-11:2019,
EN 62841-1:2015, EN 62841-3-10:2015 + A11, EN 61029-1:2009 + A11, EN 61029-2-10:2010 + A11.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2022

Product Description: 355 mm (110V) Stationary Abrasive Cut Off Saw

Model number(s): CON14110

Serial / batch Number: N/A

Date of Issue: 24/08/2022

Signed:

J.A. Clarke
Director

CON14110 UKCA Clarke DOC 082422

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Fitzwilliam 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):

2004/108/EC *Electromagnetic Compatibility Directive.*
2006/42/EC *Machinery Directive*
2011/65/EU *Restriction of Hazardous Substances, (amended by 2015/863).*

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

EN 55014-1:2017 + A11, EN 55014-2:2015, EN IEC 61000-3-2:2019, EN 61000-3-11:2019,
EN 62841-1:2015, EN 62841-3-10:2015 + A11, EN 61029-1:2009 + A11, EN 61029-2-10:2010 + A11.

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Signed:

J.A. Clarke
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CON14110 CE Clarke DOC 082422

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A SELECTION FROM THE VAST RANGE OF

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