

# Clarke®



## RECIPROCATING SAW

MODEL NO: CRS710V

PART NO: 6462552

## OPERATION & MAINTENANCE INSTRUCTIONS



LS0416

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## INTRODUCTION

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Thank you for purchasing this CLARKE 710W Variable Speed Reciprocating Saw.

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.

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## GUARANTEE

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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.

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## ENVIRONMENTAL RECYCLING POLICY

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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.

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# GENERAL POWER TOOL SAFETY WARNINGS

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**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 MAINS-OPERATED RECIPROCATING SAW.**

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**Save all warnings and instructions for future reference.**

## 1) 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.*

## 2) 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 cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
- e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord 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.*

## 3) 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.*

#### 4) 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. **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 power tool.** *Power tools are dangerous in the hands of untrained users.*
- e. **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.*
- 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.*

#### 5) SERVICE

- 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.*

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## ADDITIONAL WARNINGS FOR RECIPROCATING SAWS

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1. **ALWAYS** use the appropriate blade for the material being cut.
2. **ONLY** sharp saw blades in perfect working condition should be used; cracked or bent saw blades should be discarded and replaced at once.
3. **ENSURE** that the saw blade is securely fixed.
4. **ALWAYS** use a cooling agent when cutting metals, i.e. cutting oil.
5. When cutting wood, ensure any nails have been removed beforehand. Nails will damage the wood saw blade.
6. **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.
7. **ALWAYS** allow sufficient clearance beneath the work to ensure the blade does not come into contact with the floor, table etc.
8. **ALWAYS** check for hidden electrical wires or water pipes etc.
9. **NEVER** allow the ventilation slots in the machine to become blocked.
10. **DO NOT** cut material above the specified thickness.
11. **DO NOT** cut through walls or cavities before checking for hidden electrical wires or water pipes etc.
12. **DO NOT** touch the blade immediately after use, allow time for it to cool.
13. **NEVER** attempt to stop the saw blade with your fingers.
14. **NEVER** put the saw down on a table or work bench unless switched off. The saw blade will keep running briefly after the tool has been switched off.
15. Wherever possible, use clamps and vices to fasten the workpiece securely.
16. Do not attempt to saw extremely small workpieces.
17. **ALWAYS** hold the saw with both hands.

## ELECTRICAL CONNECTIONS



**WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.**

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.

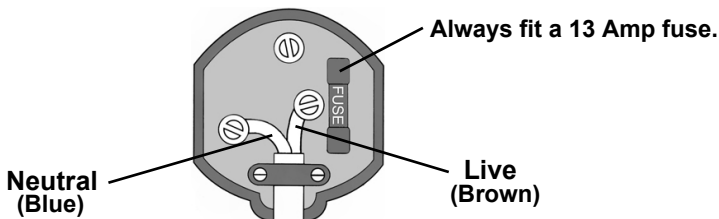


**WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:  
BLUE = NEUTRAL    BROWN = LIVE**

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

**Plug must be BS1363/A approved.**



**Ensure that the outer sheath of the cable is firmly held by the clamp**

**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.



**This symbol indicates that this is a Class II product, and does not require an earth connection.**

## PARTS IDENTIFICATION



Number	Description
1	Wood Blade (X3)
2	Shoe
3	Blade Holder
4	Carbon Brush Cap
5	Handle Release Button.
6	Trigger
7	Lock On Button
8	Metal Blade (X3)
	Hex Key (Not shown)

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## BEFORE USE

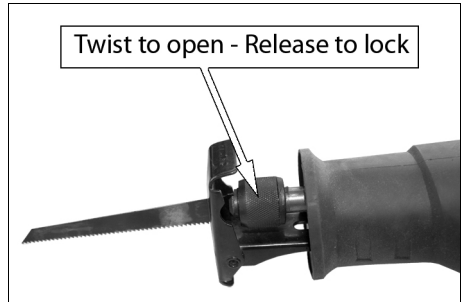
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### FITTING THE BLADE



**WARNING: BEFORE REMOVING, OR INSTALLING A BLADE, MAKE SURE THAT THE MAINS PLUG HAS BEEN REMOVED FROM THE MAINS SUPPLY.**

1. Twist and hold the blade holder open.
2. Insert the blade as far as possible into the holder with the blade teeth facing downwards.
3. Release the blade holder to lock the blade in place.
  - Check that the blade is secure before use.



**CAUTION: THE RETRACTED BLADE LENGTH SHOULD BE LONGER THAN THE WIDTH OF THE WORKPIECE. IF THE BLADE IS SHORTER, THE TIP WILL JAM IN THE WORKPIECE DURING CUTTING, POSSIBLY CAUSING INJURY AND DAMAGING THE BLADE OR WORKPIECE.**

### ROTATING THE HANDLE



**WARNING: DO NOT ADJUST THE HANDLE IF THE BLADE IS MOVING.**

1. Press down the handle release button.
2. Twist the handle to the required position.
3. Release the handle release button.





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# OPERATION

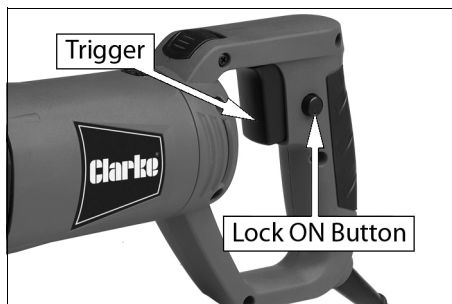
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## TO SWITCH ON THE SAW

1. Squeeze the trigger.
  - The saw will start.
  - The speed can be increased by increasing the pressure on the trigger.

### TRIGGER LOCK FEATURE.

Squeeze the trigger fully and then press and hold the Lock ON button, then release the trigger.



## TO STOP THE SAW

1. Release the trigger when not using the trigger lock feature. If using the trigger lock function, press and release the trigger.



**WARNING: THE BLADE WILL CONTINUE TO RUN FOR A SHORT PERIOD AFTER THE TRIGGER HAS BEEN RELEASED WAIT UNTIL IT STOPS BEFORE REMOVING IT FROM THE WORKPIECE.**

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## REPLACEMENT BLADES

Replacement blades are available from your CLARKE dealer. Please quote the following part numbers:

Type	Part number
Metal Cutting Blades (5 Pk)	6462029
Wood Cutting Blades (5 Pk)	6462028
Log Cutting Blades (5 Pk)	6462027

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# CUTTING TIPS

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**WARNING: IF THE CUTTING OPERATION IS DUSTY, WE RECOMMEND THAT YOU WEAR A DUST MASK.**

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## GENERAL CUTTING

- Allow the tool to reach full speed before touching the work material.
- Guide the saw blade into the workpiece keeping the shoe pressed firmly against the workpiece while cutting to prevent tool kickback.
- Do not press too hard, if the saw slows down as it is cutting, apply less pressure.
- Allow the saw to come to a complete stop before setting it down.
- To prevent accidents, turn off the saw and disconnect its power supply after use. Clean, then store the saw indoors out of the reach of children.

## PLUNGE CUTTING

Plunge cut into plywood and thin board panels. Do not attempt to plunge cut into thick, hard wood or metal panels.

1. Clearly mark the line of cut.
2. From a convenient starting point within the cutting area, place the tip of the blade over that point with the saw parallel to the line of cut.

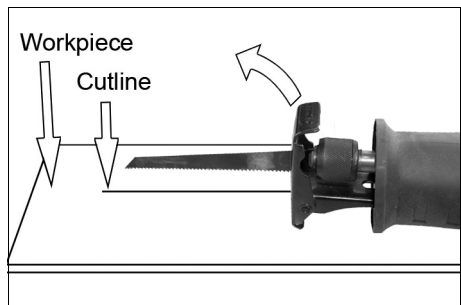
3. Place the edge of the pivot shoe on the work piece with the blade NOT touching the work material.

- Never start a plunge cut with the blade tip touching the work piece. this will cause an immediate kick back that can damage the work piece, the blade or cause injury.

4. Squeeze the trigger. When the saw reaches full speed, slowly rotate the tool on the pivot shoe until the blade has penetrated through the work material.

- Hold the tool firmly.

5. Press the pivot shoe firmly against the work material and continue to make the cut.



## CUTTING METAL

1. Install a metal cutting blade (supplied).
2. Coat the cutting surface with cutting oil to prevent the blade from overheating.
  - Follow general cutting procedure above.

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## MAINTENANCE AND SERVICING

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**WARNING: BEFORE PERFORMING ANY MAINTENANCE TASKS MAKE SURE THAT THE MAINS PLUG HAS BEEN REMOVED FROM THE MAINS SUPPLY.**

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- After use, clean all dust and wood chippings from the reciprocating saw.
  - Clean all of the ventilation slots on the motor housing.
  - Make sure that the shoe is free from dirt and grease.
  - Keep the handle clean and free from oil and grease.
  - Resin and glue on the blade causes poor cutting results. Clean the blade after use.
  - Refer to your CLARKE dealer if internal maintenance is required.

## CHANGING THE CARBON BRUSHES

1. Remove the carbon brush caps using a flat screwdriver.
2. Remove the carbon brushes and replace with new ones.
  - Replacement brushes are available from the Clarke spares department (part number HTCRS710V58).
  - Always replace the brushes in pairs.
3. Replace the carbon brush caps.



# SPECIFICATIONS

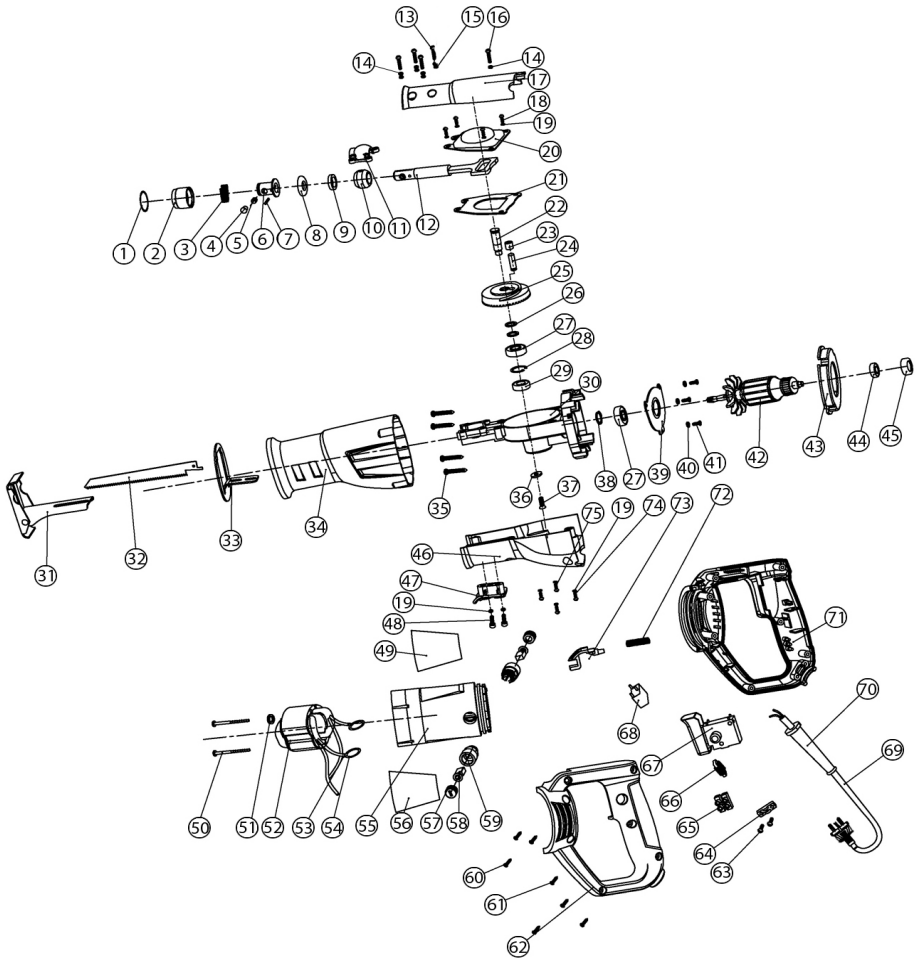
## MODEL CRS710V

Voltage	230 V AC @ 50Hz
Input power	710 Watts
No-load speed	0-2800 Strokes Per Min
Stroke Length	20 mm
Weight	2.38 kg
Dimensions (L x W x H)	453 x 78 x 149 mm
Maximum Blade Length	Wood 115 mm, Metal 70 mm
Sound Pressure Level (LPA)	93.4 dB(A)
Sound Power Level (LWA)	104.4 dB(A)
Sound Uncertainty Value (K)	3 dB(A)
Vibration	Cutting Chipboard 17.436 m/s <sup>2</sup> (Main handle) 17.858 m/s <sup>2</sup> (Auxiliary handle)
	Cutting Wooden Beam 15.080 m/s <sup>2</sup> (Main handle) 17.885 m/s <sup>2</sup> (Auxiliary handle)
Vibration Uncertainty Value (K)	1.5 m/s <sup>2</sup>

## MAX CUTTING CAPACITY

Wood	115 mm
Mild Steel	6 mm
Aluminium	20 mm

# PARTS DIAGRAM



## PARTS LIST

01	Chuck Washer	26	Washer Ø10.2xø14.8x1	51	Connecting Ring 4.2
02	Outer Ring	27	Bearing 6000-2z	52	230v Stator
03	Tension Spring	28	Circlip For Shaft Ø 22	53	Cable Sleeve
04	Pin	29	Bearing 608-2z	54	Spring
05	Compression Spring	30	Gearing Housing	55	Housing
06	Inner Ring	31	Shoe	56	Brand
07	Chuck Pin 3x16	32	Saw Blade103x1x1	57	Brush Cover
08	Plastic Ring	33	Baffle	58	Carbon Brush
09	Felt Ring	34	Rubber Cover	59	Brush Holder
10	Sliding Bearing	35	Screw St4.2x25	60	Screw M4.2x14
11	Ball Press Cover	36	Washer Ø6xø14x1.5	61	Screw M4.2x16
12	Reciprocating Lever	37	Cross Csk Screw M5x12	62	Left Handle
13	Screw M4x18	38	Circlip For Shaft Ø 10	63	Screw M4.2x14
14	Spring Washer Ø 4	39	Bearing Pressplate	64	Cable Pressplate
15	Flat Washer Ø 4	40	Washer Ø 4	65	Terminal
16	Screw M4x8	41	Cross Csk Screw M4x8	66	Rectangle Inductor
17	Gear Housing	42	Rotor 230v	67	Switch 230v
18	Screw M5x10	43	Air Baffle Plate	68	Capacitor
19	Spring Washer Ø 5	44	Bearing 607-2z	69	Cable & Plug
20	Cover Plate	45	Bearing Sleeve	70	Cable Sleeve
21	Middle Plate	46	Plastic Sleeve	71	Right Handle
22	Gear Spindle	47	Plastic Block	72	Spring
23	Needle Bearing 7x13x11	48	Hexagon Column Screw m5x14	73	Rotary Switch
24	Pin	49	Label	74	Screw M5x18
25	Gear	50	Screw St4.2x60	75	Screw M5x14

Please quote the reference HTCRS710V01 onwards. e.g. Carbon Brush will be HTCRS710V58.

# DECLARATION OF CONFORMITY



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall 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):

2004/108/EC *Electromagnetic Compatibility Directive.*

2006/42/EC *Machinery Directive.*

2011/65/EU *Restriction of Hazardous substances.*

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

EN 55014-1:2006+A1:2009 +A2:2011, EN 55014-2:1997 +A1:2001 +A2:2008,

EN 61000-3-2:2006 +A1:2009 +A2:2009, EN 61000-3-3:2008, EN 60745-1:2009 +A11:2010,

EN 60745-2-11:2010.

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: 2014

**Product Description:** Reciprocating Saw  
**Model number(s):** CRS710V  
**Serial / batch Number:** N/A  
**Date of Issue:** 12/02/2016

Signed:

J.A. Clarke  
Director

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