

Clear-See® WOODWORKER



JIGSAW

Model No.CJS1-C

PART NO:6462160

OPERATING & MAINTENANCE INSTRUCTIONS



INTRODUCTION

Thank you for purchasing this CLARKE Jigsaw.

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 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.

ENVIRONMENTAL PROTECTION



Do not dispose of this product with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment at a recognised disposal facility.

SPECIFICATION

Item	Specification	Item	Specification
Weight	1.5kg	Speed type	Single Speed
Dimensions	200 x 70 x 190	No-load speed	3000 strokes/min
Voltage	230v / 50 Hz	Depth of cut	55mm
Fuse rating	5amp	Blade change	hexagonal key
Motor power	350 w	Dust port dia	23.6 int / 35.8 ext

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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

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.

GENERAL SAFETY RULES

1) WORK AREA

1. **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres such as in the presence of flammable liquids, gasses or dust.** Power tools create sparks which may ignite dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

1. **Power tools must match the power outlet. Never modify the plug in any way. Do not use adaptor plugs with earthed (grounded) power tools.** Correct plugs and outlets will reduce the risk of electric shock.
2. **Do not expose power tools to rain or wet conditions.** Any water entering power tools will increase the risk of electric shock.
3. **Do not abuse the electrical cable. Never use the cord for pulling or unplugging the power tool. Keep the cable away from sources of heat, oil, sharp edges or moving parts.** Damaged or tangled cables increase the risk of electric shock.
4. **When operating a power tool outdoors, use an extension cable suitable for outdoor use.** Using the correct cable reduces the risk of electric shock.

3) PERSONAL SAFETY

1. **Stay alert, watch what you are doing and use common sense when you are operating a power tool.** Do not operate a power tool when you are tired, ill or under the influence of alcohol, drugs or medication.
2. **Wear personal protective equipment including eye protection.** Safety equipment such as a dust mask, non-skid shoes or hearing protection used for appropriate conditions will reduce personal injuries. Use a face or dust mask if operation is particularly dusty. Wear ear protectors/defenders as the noise level of this machine can exceed 85dB (A).
3. **Do not over-reach.** Keep your proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
4. **Avoid accidental starting of the machine.** Ensure the switch is in the off position and the locking button disengaged before plugging the machine in to the power supply. Carrying power tools around with your finger on the trigger or plugging in power tools that are switched on invites accidents.
5. **Remove any adjusting key or wrench before turning the power tool on.** A tool left attached to a moving part may result in personal injury.

6. **Dress properly.** Do not wear loose clothing or jewellery which may get caught in moving parts. Wear protective hair covering to contain long hair. For best footing, wear rubber soled footwear. Keep floor clear of oil, scrap wood, etc.
- 7 Concentrate on the job in hand, no matter how trivial it may seem. Be aware that accidents are caused by carelessness due to familiarity.
8. Switch the machine OFF immediately after the task is completed.

4) POWER TOOL USE AND CARE

1. **Do not force the machine.** Use the correct power tool for your application. It will do a better and safer job at the rate for which it was designed.
2. **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.
3. **Disconnect the power tool from the power supply before making any adjustments, changing accessories, or storing the tool.** These measures will reduce the risk of the power tool starting accidentally.
4. **Store power tools out of the reach of children and do not allow persons unfamiliar with these instructions to operate the power tool.** Power tools are potentially dangerous in the hands of untrained users.
5. **Maintain power tools in top condition.** Keep tools/ machines clean for the best and safest performance. Check for misalignment or binding of moving parts, broken parts, or any 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.
6. **Use recommended accessories.** The use of improper accessories could be hazardous.
7. **Machine cleanliness.** Do not allow the ventilation slots in the machine to become blocked with dust.
8. **Check the power tool for damage before using the machine.** Any damaged part should be inspected 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 machine's operation. Any damage should be properly repaired or the part replaced. If in doubt, **DO NOT** use the machine. Consult your local dealer.

5) SERVICE

1. **When necessary, have your power tools serviced or repaired by a qualified person using identical replacement parts.** This will ensure that the safety of the power tool is maintained.

JIGSAW SAFETY INSTRUCTIONS

1. Only use the jigsaw in the manner and for the functions described in these instructions.
2. **Using the correct blade.** Use the appropriate saw blade for the material being cut. Different blades are available from your Clarke dealer.
3. **Use of the mains cable.** 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. **Working on the bench.** Allow sufficient clearance beneath the work to ensure the blade does not come into contact with the floor, table etc.
5. **Switching off.** Never place the saw on a table or bench if it has not completely stopped. The saw blade will continue to reciprocate for a short time after the trigger has been released to stop the saw.
6. **Cutting of pipes.** Do not cut hollow pipe and do not cut material above the specified thickness.
7. **Cutting into walls.** Do not cut through walls or cavities before checking for hidden electrical wires or water pipes etc.
8. **Finishing cutting.** Do not remove tool from work until the blade has completely stopped. Do not touch the blade immediately after use, allow time for it to cool.
9. **Use outdoor extension leads.** If working outdoors, 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. We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).
10. **Cutting sheet materials.** Do not cut work less than at least twice the pitch of the saw blade. i.e. at least two teeth must be in contact with the work at all times.
11. **Always hold the saw by its insulated handle.** The saw's metal parts may become conductive if the blade should come into contact with the mains cable.
12. **Beware of foreign objects.** When cutting pre-used wood, ensure all nails have been removed beforehand. Nails will damage the wood saw blade.
13. **Cooling agents.** When cutting metals, always use a cooling agent i.e. cutting/soluble oil.
14. **Changing the blade.** Be careful during adjustment of the machine to prevent entrapment of the fingers between a moving blade and fixed parts of the machine. Ensure the blade is fully tightened before use.

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

ELECTRICAL CONNECTIONS

This product is provided with a 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 OF DOUBLE INSULATED DESIGN AND SUITABLE FOR USE ON AC SUPPLY ONLY



No earth conductor is provided. The two wires in the mains lead should be wired in accordance with the following colour code:

Blue	—	Neutral
Brown	—	Live

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

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

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 and this replacement must be ASTA approved to BS1362.

If in any 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.

OVERVIEW

The CLARKE CJS1-C is a 350W single-speed jigsaw fitted with a lock-on button for continuous operation. It is fitted with a dust extract port for connection to a vacuum system in accordance with EU regulations and is supplied with 1.8 metres of cable with a ASTA/BS approved 3-pin moulded plug. A hexagon key is stored within the body of the machine for convenient replacement of saw blades.

When unpacking, check for damage and /or shortages etc. Any found should be reported to your CLARKE dealer where the appliance was originally purchased. This CJS1-C Jigsaw is supplied with the following components:

- 1 x 350W Jigsaw
- 1 x Pack of Jigsaw Blades (3-wood/2-metal)
- 1 x Hexagonal Key Wrench
- 1 x Instruction Manual (this document)

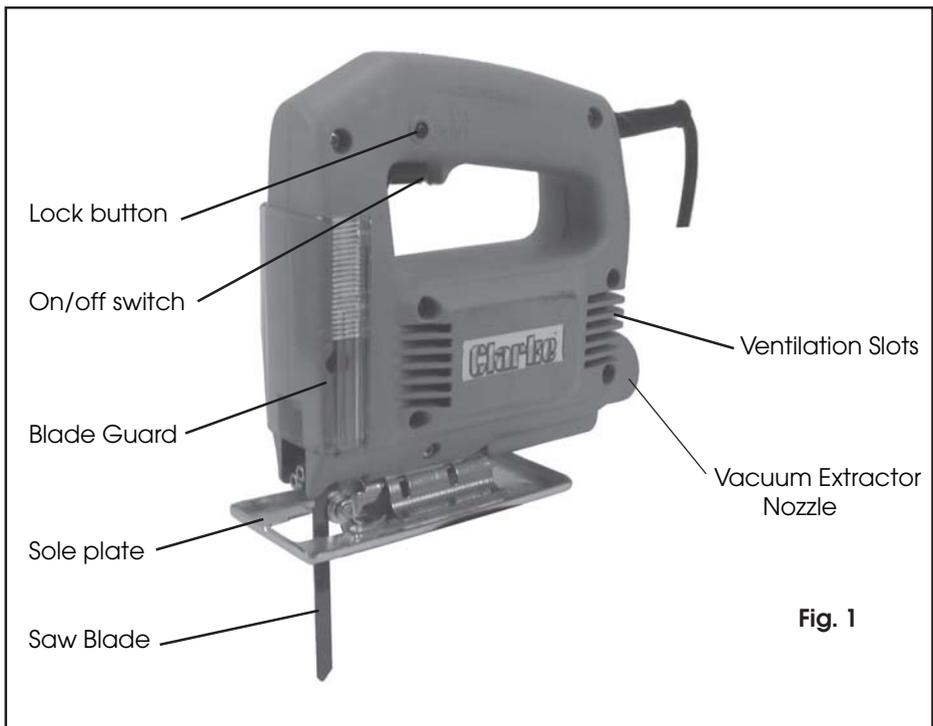


Fig. 1

INSTALLING/CHANGING BLADES

With the power cable disconnected from the mains supply, raise the blade guard and slacken off the two hexagonal socket screws using the hexagonal key stored at the rear of the tool body.

Loosen the two blade securing screws and remove existing blade. Select the saw blade appropriate for the job in hand, and insert it in to the Blade Holder as far as it will go, with the teeth facing forwards.

Tighten the two blade holder screws progressively, until the blade is held firmly. Ensure that the blade is straight and resting against the blade support roller. Pull the blade to check that it is secure before re-connecting the power supply.

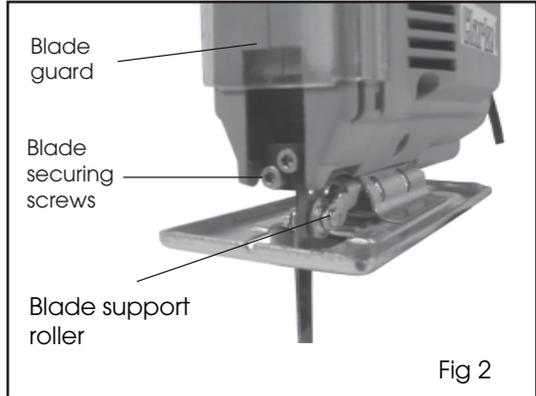


Fig 2

Take care that the saw blade is not touching anything before you start the saw. Take care never to use cracked, blunt or damaged blades.

OPERATION

USING THE JIGSAW

IMPORTANT: DO NOT plug in to the mains, unless you have ensured the tool is switched OFF. To do this, pull the switch fully upwards, and then release it.

The ON/OFF trigger switch is located under the grip.

Ensure that the workpiece being cut is securely held in place and that the cut line is clearly marked. Connect the vacuum extractor port to an extract system wherever possible.

Place the sole-plate on the workpiece taking care that the saw blade is vertical and correctly positioned in relation to the cut line without touching it. Push the clear plastic blade guard down fully.

Ensure the saw blade is not striking on anything below the workpiece and that the power cable is well away from the moving blade before starting the saw. If cutting out an aperture, it will be necessary to drill a suitably sized hole in the workpiece for use as a starting point.

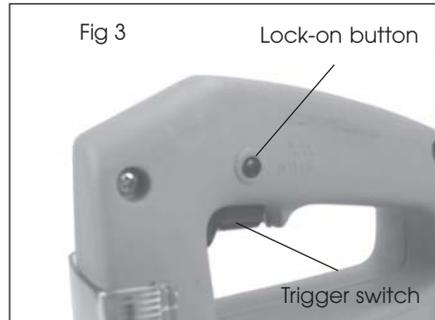
To start the saw, pull the trigger switch and the blade will move up and down. Wait until the blade is running at speed before attempting to cut the workpiece. To stop the tool if the switch lock is used, pull the trigger switch fully in, then release it and the motor will stop.

When starting, place the sole-plate on the workpiece and let the blade touch the cut line. To make your cut, pull the trigger and move the saw slowly forward along the cutting line.

Take extra care when cutting curves - move the blade slowly to avoid stress on the blade, leading to blade breakages. Never use a blade type which is unsuitable for the type of material to be cut.

When sawing, hold the saw in front of you but do not put more pressure on the blade than is necessary and avoid putting any lateral pressure on the blade.

Let the blade work through the workpiece, ensuring the sole plate is flush with the workpiece and the blade remains perpendicular to it.



CUTTING DIFFERENT MATERIALS

CUTTING WOOD

Check that any previously used timber being sawn does not contain any nails or other metal objects which would damage the blade.

CUTTING METAL

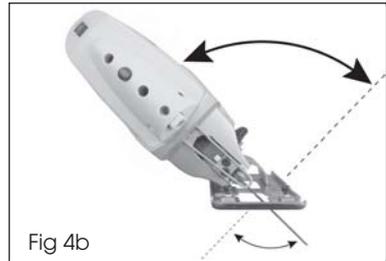
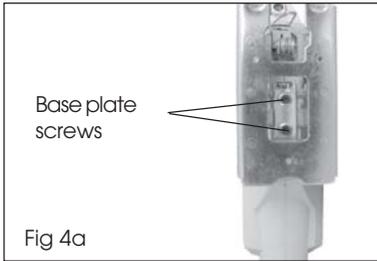
Having chosen a suitable blade for cutting metal it is recommended to lubricate the material and saw blade with cutting oil to prevent the tool from overheating. Support the workpiece with wooden blocks on either side.

CUTTING PLASTIC

Having chosen a suitable blade for cutting plastic, make a test cut first to determine that the material can tolerate the heat generated by sawing.

ADJUSTING THE SOLE-PLATE

The sole-plate is adjustable so that bevels of up to 45° may be cut. Loosen the two screws under the sole-plate before adjusting it to the desired angle and re-tightening the screws. However, if absolute accuracy is required you should always check the angle with a protractor whilst carefully tightening the securing screws. This includes setting the base plate for cutting at 90°, (check roller is still only just touching blade).



DUST EXTRACTION

The jigsaw is provided with a dust extraction facility, where a dust bag or vacuum extractor may be connected to the rear 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

CLEANING

- 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 if possible).
- After use, clean all dust and wood chippings from the jigsaw.
- Make sure that the base plate is free from dirt and grease.
- The blade locating clip and support roller should be kept clean and lightly oiled at regular intervals.
- 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.

GENERAL MAINTENANCE

- Ensure all nuts, bolts and screws remain tight to ensure the jigsaw is in safe working condition.
- Refer to your CLARKE dealer if internal maintenance is required.
- 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.
- Only use the replacement blades specified for this product (consult your CLARKE dealer).

FAULT FINDING

JIGSAW 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.

JIGSAW 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 by replacing the brushes or alternatively contact the Clarke Service department for their replacement.

EXCESSIVE VIBRATION

Disconnect the mains lead and check that the blade is correctly fitted see page 9. If the blade is damaged replace it with a new one.

If vibration persists, consult your local Clarke dealer, or contact the Clarke Service department.

SPARE PARTS

Replacement saw blades for wood, plastic and steel are available from your CLARKE dealer. Refer to your Clarke dealer or service department if internal maintenance is required.

Replacement Blades (3 per pack)

Steel:- part no. 6460210

Wood:- part no. 6460215

Plastic:- part no. 6460220

VIBRATION EMISSIONS

HAND-ARM VIBRATION

Employers are advised to refer to the HSE publication "Guide for Employers".

All hand held power tools vibrate to some extent, and this vibration is transmitted to the operator via the handle, or hand used to steady the tool. Vibration from about 2 to 1500 herz is potentially damaging and is most hazardous in the range from about 5 to 20 herz.

Operators who are regularly exposed to vibration may suffer from Hand Arm Vibration Syndrome (HAVS), which includes 'dead hand', 'dead finger', and 'white finger'. These are painful conditions and are widespread in industries where vibrating tools are used.

The health risk depends upon the vibration level and the length of time of exposure to it.....in effect, a daily vibration dose.

Tools are tested using specialised equipment, to approximate the vibration level generated under normal, acceptable operating conditions for the tool in question. For example, a grinder used at 45° on mild steel plate, or a sander on softwood in a horizontal plane etc.

These tests produce a value 'a', expressed in metres per second per second, which represents the average vibration level of all tests taken, in three axes where necessary, and a second figure 'K', which represents the uncertainty factor, i.e. a value in excess of 'a', to which the tool could vibrate under normal conditions. These values appear in the specification panel below.

MODEL No:	CJS1-C
DESCRIPTION:	JIGSAW
Declared vibration emission value in accordance with EN12096	
Measured vibration emission value - a :	8.6m/s ²
Uncertainty value - K :	3.0m/s ²
Values determined according to EN28622-1	

You will note that a third value is given in the specification - the highest measured reading in a single plane. This is the maximum level of vibration measured during testing in one of the axes, and this should also be taken into account when making a risk assessment.

'a' values in excess of 2.5 m/s² are considered hazardous when used for prolonged periods. A tool with a vibration value of 2.8 m/s² may be used for up to 8 hours (cumulative) per day, whereas a tool with a value of 11.2 m/s² may be used for ½ hour per day only.

The graph below shows the vibration value against the maximum time the respective tool may be used, per day.



The uncertainty factor should also be taken into account when assessing a risk. The two figures 'a' and 'K' may be added together and the resultant value used to assess the risk.

It should be noted that if a tool is used under abnormal, or unusual conditions, then the vibration level could possibly increase significantly. Users must always take this into account and make their own risk assessment, using the graph above as a reference.

Some tools with a high vibration value, such as impact wrenches, are generally used for a few seconds at a time, therefore the cumulative time may only be in the order of a few minutes per day. Nevertheless, the cumulative effect, particularly when added to that of other hand held power tools that may be used, must always be taken into account when the total daily dose rate is determined.

DECLARATION OF CONFORMITY



DECLARATION OF CONFORMITY

This is an important document and should be retained.



We declare that this product complies with the following directives:

89/336/EEC *Electromagnetic Compatibility directive, (amended 2004/108/EC).*

73/23/EEC *Low Voltage Equipment directive (amended by 93/68/EEC).*

98/37/EC *Machinery Directive*

2002/95/EC *Restriction of Hazardous substances*

The Following Standards have been applied to the product:

BS EN 55014-1:2000/A1: 2001/A2:2002, BS EN 55014-2:1997/A1:2001

BS EN 61000-3-2:2000/A2:2005, BS EN 61000-3-3:1995/A1:2001

EN 60745-1:2003+A3:03, EN 60745-2-11:2003

The technical documentation required to demonstrate that the products meet the requirements of the Low Voltage Equipment directive has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: **2006**

Product Description: Jig Saw (350W)
Model number(s): CJS1-C
Serial / batch Number: Current Manufacture.
Date of Issue: 05/01/2006

Signed

A handwritten signature in black ink, appearing to read 'A. C. Aiken'.

A.C. AIKEN

Senior Manager Clarke International.

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

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HYDRAULICS

Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS

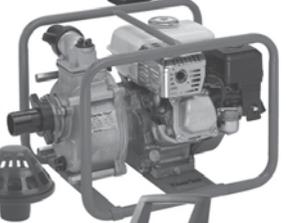
Submersible, electric and engine driven for DIY, agriculture and industry.

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Clarke® INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com