

Clarke®



JIGSAW

Model No. CJS380

PART NO: 6462182

OPERATING & MAINTENANCE INSTRUCTIONS



GC07/13

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.

TABLE OF CONTENTS

INTRODUCTION	2
GUARANTEE	2
ENVIRONMENTAL PROTECTION	2
TABLE OF CONTENTS	3
GENERAL SAFETY RULES	4
JIGSAW SAFETY INSTRUCTIONS	6
ELECTRICAL CONNECTIONS	7
OVERVIEW	8
INSTALLING/CHANGING BLADES	9
OPERATION	9
MAINTENANCE	12
FAULT FINDING	13
PARTS LIST AND DIAGRAM	14
CONSUMABLE PARTS	16
SPECIFICATIONS	16
VIBRATION EMISSIONS	17
DECLARATION OF CONFORMITY	19

GENERAL SAFETY RULES

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.

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.

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. **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.
6. Concentrate on the job in hand, no matter how trivial it may seem. Be aware that accidents are caused by carelessness due to familiarity.
7. Switch the machine OFF immediately after the task is completed.

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 blades or 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.

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 saws 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.

Please keep these instructions in a safe place for future reference.

ELECTRICAL CONNECTIONS



WARNING! Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230VAC 50Hz. Do not connect it to any other power source.

This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse, the fuse cover must be refitted. If the cover is lost or damaged, the plug must not be used until a replacement is obtained.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.



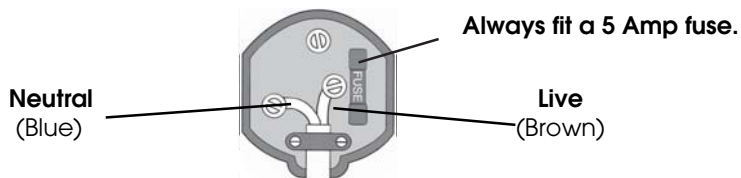
WARNING! The wires in the power cable of this product are coloured in accordance with the following code:

Blue = Neutral Brown = Live

If the colours of the wires in the power cable of this product do not correspond with the terminal markings 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 floodlight is connected to the mains supply via a Residual Current Device (RCD).

If in doubt, consult a qualified electrician. DO NOT attempt repairs yourself.



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

OVERVIEW

The CLARKE CJS380 is a variable speed jigsaw fitted with a lock-on button for continuous operation. It has a dust extract port for connection to a vacuum system and is supplied with 1.8 metres of cable and plug.

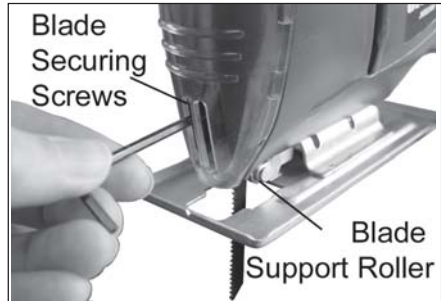
When unpacking, check for damage or shortages etc. Any found should be reported to your CLARKE dealer where the appliance was originally purchased. This CJS 380 Jigsaw is supplied with the following components:

- 1 x Jigsaw
- 1 x Wood Cutting Blade
- 1 x 3mm Hex Key
- 1 x Instruction Manual (this document)



INSTALLING/CHANGING BLADES

1. With the jigsaw disconnected from the mains supply, slacken off the two blade securing screws, using the hexagonal key stored in the bottom of the jigsaw body.
 - The key must be inserted through the slots in the blade guard.
2. Remove existing blade.
3. 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.
4. Tighten the two blade securing 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.
 - 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.

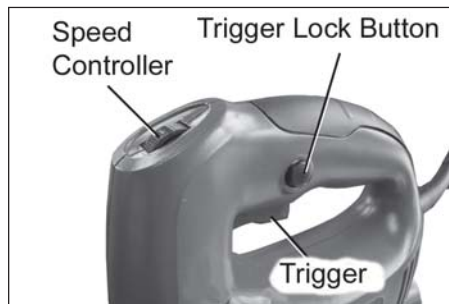


OPERATION

IMPORTANT: DO NOT plug in to the mains, unless you have ensured the jigsaw is switched OFF. To do this, squeeze the trigger fully upwards, then release it.

The trigger is located under the grip.

1. Ensure that the workpiece being cut is securely held in place and that the cut line is clearly marked.
2. Connect the vacuum extract port to an extract system wherever possible.
3. 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.
4. To start the saw, squeeze the trigger. Wait until the blade is running at speed before attempting to cut the workpiece.
5. To stop the saw if the trigger lock-on button is used, squeeze the trigger fully in, then release it and the motor will stop.



USING THE JIGSAW

1. When starting, place the sole-plate on the workpiece and let the blade touch the cut line. To make your cut, start the jigsaw and move the saw slowly forward along the cutting line.
2. 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.
3. Adjust the speed controller to suit the material being cut using the following suggested settings as a starting point. However, the optimum speed will be determined with practice.

Plastic	1 - 3
Steel	2 - 4
Hardboard	3 - 4
Ceramic, aluminium, non-ferrous metals	3 - 6
Timber, plywood & chipboard	4 - 6

- If cutting out an aperture, it will be necessary to drill a suitably sized hole in the workpiece for use as a starting point.
- 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 lateral pressure on the blade.
- Let the blade work through the workpiece, ensuring the sole plate remains flush with the workpiece.

CUTTING DIFFERENT MATERIALS

CUTTING WOOD

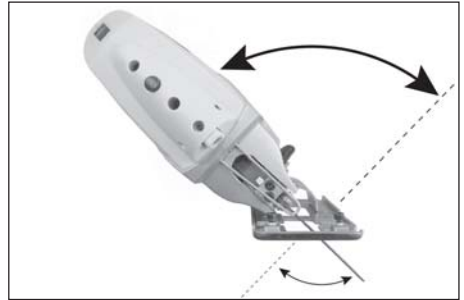
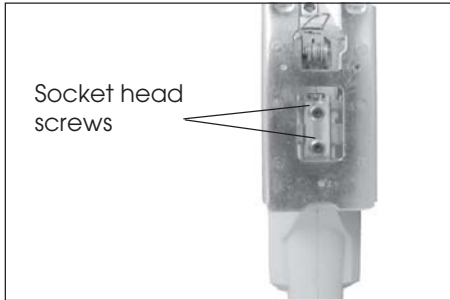
Check that any previously used timber being sawn does not contain any nails or other metal objects which would damage the blade.

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 jigsaw from overheating. Support the workpiece with wooden blocks on either side.

ADJUSTING THE SOLE-PLATE

The sole-plate is adjustable so that bevels of up to 45° may be cut. Loosen the two socket head 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 extract port, where a 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.

MAINTENANCE

CLEANING

1. Ensure all air vents are clear, (use compressed air to clean the machine if possible).
2. After use, clean all dust or wood chippings from the jigsaw.
3. Make sure that the base plate is free from dirt and grease.
4. The blade locating clip and support roller should be kept clean and lightly oiled at regular intervals.
5. Keep the handle clean and free from oil and grease.
6. Resin and glue on the blade causes poor cutting results. Clean the blade after use if necessary.

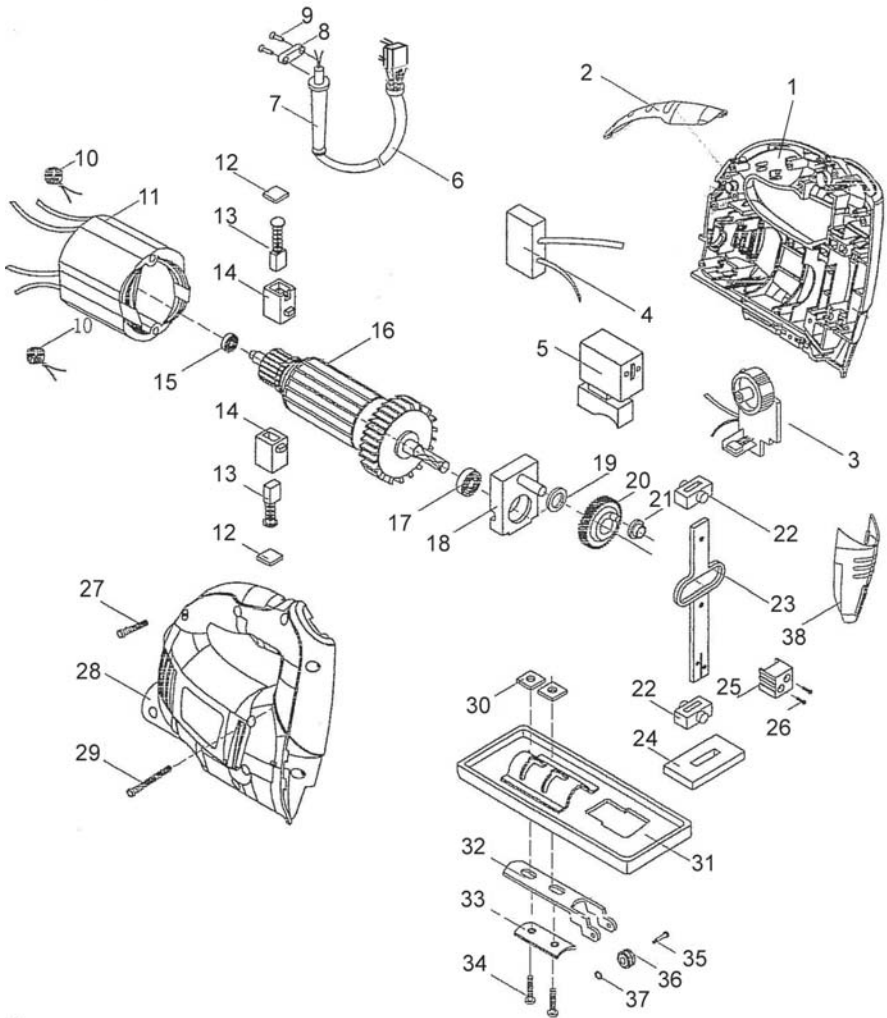
GENERAL MAINTENANCE

1. Ensure all fixing screws remain tight to ensure the jigsaw is in safe working condition.
2. 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.
 - Refer to your CLARKE dealer if internal maintenance is required.
 - Only use the replacement blades specified for this product (consult your CLARKE dealer).

FAULT FINDING

Problem	Possible Cause	Remedy
Tool will not operate.	No power supply.	Check supply and rectify as necessary.
	Switch is faulty.	Consult your Clarke dealer.
	Fuse blown.	Check and replace if necessary.
	Motor is faulty.	Consult your Clarke dealer.
Motor runs but blade does not move.	Blade fastening not tight.	Secure blade.
	Drive gear broken.	Consult your Clarke dealer.
Heavy internal sparking.	Faulty motor.	Consult your Clarke dealer.
	Worn Brushes.	Consult your Clarke dealer.
Motor becomes hot.	Unduly heavy use.	Reduce the force applied to the tool. Let the tool do the work.
	Air vents have become blocked.	Clean out the air vents using compressed air or clean with a dry cloth.
	Low supply voltage.	Ensure supply voltage is correct. If an extension cable is used, ensure it is of the correct rating and is fully unwound.
Excessive vibration.	Blade not mounted correctly.	Check and rectify.
	Machine bearings worn.	Consult your Clarke dealer.

PARTS DIGRAM



PARTS LIST

No	Part No	Description
1	WGCJS38001	Casing (LH)
2	WGCJS38002	Hand Pad
3	WGCJS38003	Speed Controller
4	WGCJS38004	Capacitor
5	WGCJS38005	Trigger
6	WGCJS38006	Power Cable & Plug
7	WGCJS38007	Grommit
8	WGCJS38008	Cable Clamp
9	WGCJS38009	Screw
10	WGCJS38010	Inductor
11	WGCJS38011	Motor Stator
12	WGCJS38012	Carbon Brush Cover
13	WGCJS38013	Carbon Brush
14	WGCJS38014	Carbon Brush Holder
15	WGCJS38015	Motor Bearing
16	WGCJS38016	Motor Armature
17	WGCJS38017	Drive Bearing
18	WGCJS38018	Drive Support
19	WGCJS38019	Copper Washer

No	Part No	Description
20	WGCJS38020	Drive Gear
21	WGCJS38021	Drive Sleeve
22	WGCJS38022	Guide Block
23	WGCJS38023	Saw Arm
24	WGCJS38024	Felt Pad
25	WGCJS38025	Blade Holder
26	WGCJS38026	Blade Holder Screw
27	WGCJS38027	Casing Screw
28	WGCJS38028	Casing (RH)
29	WGCJS38029	Casing Screw
30	WGCJS38030	Retaining Plate
31	WGCJS38031	Sole Plate
32	WGCJS38032	Guide Arm
33	WGCJS38033	Adjustment Plate
34	WGCJS38034	Socket Head Screw
35	WGCJS38035	Roller Spindle
36	WGCJS38036	Guide Roller
37	WGCJS38037	Spindle Retainer
38	WGCJS38038	Perspex Guard

CONSUMABLE SPARE PARTS

Replacement saw blades (10 per pack) for wood and metal are available from your CLARKE dealer.

Wood:- Part no. 6462184

Metal:- Part no. 6462186

SPECIFICATION

Item	Specification
Weight	1.6 kg
Dimensions (L x W x H)	183 x 64 x 188 mm
Voltage	230V / 50 Hz
Fuse Rating	5 amp
Motor Power	420 W
Speed Control	Variable
No-load Speed	0-3000 strokes/min
Max Depth of Cut	55 mm (wood) / 6 mm (steel)
Sound Pressure Level	87.4 dB LpA
Guaranteed Sound Power Level	95.7 dB LWA
Vibration	5.024 m/s ²
Uncertainty Factor	1.5 m/s ²

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.

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 hertz 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.

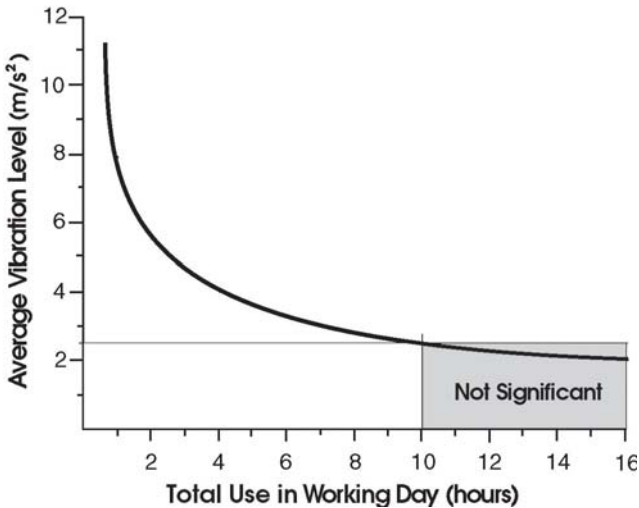
These tests produce a value 'a', expressed in metres per second per second, which represents the average vibration level of all tests taken, in three axes where necessary, and a second figure 'K', which represents the uncertainty factor, i.e. a value in excess of 'a', to which the tool could vibrate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

MODEL No:	CJS380
DESCRIPTION:	JIGSAW
Declared vibration emission value in accordance with EN12096	
Measured vibration emission value - α : 5.02m/s ²	
Uncertainty value - K: 1.5m/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



Clarke[®]
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.*

2006/95/EC *Low Voltage Equipment Directive.*

2002/95/EC *Restriction of Hazardous substances.*

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

EN 60745-1:2006, EN 60745-2-11:2003+A11+A1, EN 60825-1:2007, EN 55014-1:2006,

EN 55014-2:1997+A1, EN 61000-3-2:2006, EN 61000-3-3:1995+A1+A2.

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: 2009

Product Description: 380W Jig Saw
Model number(s): CJS380
Serial / batch Number: N/A
Date of Issue: 17/01/2011

Signed:

J.A. Clarke
Director

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