

CLARKE[®]

METALWORKER



MULTI PURPOSE SHARPENER

MODEL NO: CMPS2

PART NO: 6480237

OPERATION & MAINTENANCE INSTRUCTIONS

UK
PA | CE



ORIGINAL INSTRUCTIONS

DL1122 - ISS 3

INTRODUCTION

Thank you for purchasing this CLARKE Multi-purpose Sharpener.

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.

SPECIFICATION

Model Number	CMPS2
Voltage	230 V @ 50 Hz
Operating Temperature	-15°C - + 40°C
Drill Bit Sizes And Type	3.0 mm to 10 mm HSS
Maximum Chisel Blade Width	51 mm
Duty Cycle	S2 10min
No Load Speed	8000 rpm
Sound Pressure Level (L _{pA} dB)	61.7 dB(A)
Guaranteed Sound Power (L _{wA} dB)	74.7 dB(A)
Dimensions (L x W x H)	163 x 143 x 110 mm plus removable sharpening attachments
Weight	1 Kg

GENERAL SAFETY RULES



WARNING: WHEN USING ELECTRIC TOOLS, MACHINES, OR EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY.

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries. Keep work area well lit.
 2. **NEVER** use power tools in damp, wet, or poorly lit locations. Don't expose to rain. Do not use electrically powered tools in the presence of flammable gases or liquids.
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3. **KEEP CHILDREN AWAY.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cable.
4. **STORE IDLE EQUIPMENT.** When not in use, tools must be locked up in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **DO NOT FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended.
6. **DRESS PROPERLY.** Do not wear loose clothing or jewellery which could be caught in moving parts.
7. **USE EYE AND HAND PROTECTION.** Always wear approved impact safety goggles.
8. **DO NOT ABUSE THE POWER CABLE.** Do not yank it to disconnect it from the socket. Do not carry tools by the cable.
9. **DISCONNECT POWER.** Unplug when not in use, before servicing, and when changing accessories.
10. **AVOID UNINTENTIONAL STARTING.** Be sure the switch is in the OFF position when not in use and before plugging in.
11. **STAY ALERT.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
12. **CHECK DAMAGED PARTS.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Do not use the tool if the switch does not turn on and off properly.
13. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces such as pipes, radiators.
14. **REPLACEMENT PARTS AND ACCESSORIES.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool.
15. **DO NOT OPERATE TOOL IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.** If there is any doubt, do not operate the tool.
16. **KEEP AWAY FROM LIQUIDS.** Tool is designed for dry sharpening operations only.
17. **HEAT PRODUCED WHEN SHARPENING.** The sharpening head and any bits or tools being sharpened will become hot. Be careful when handling; allow drill bits & tools to cool before storing.

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. Connecting it to any other power source may cause damage.

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

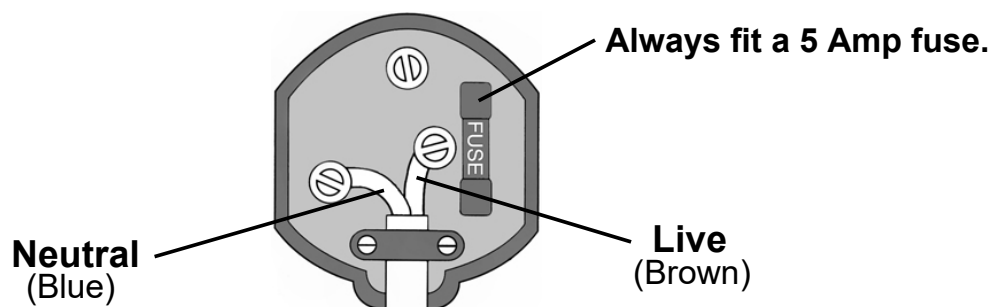


**WARNING! THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
Blue = Neutral Brown = Live**

If the colours of the wires in the power cable of this product do not correspond with the 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

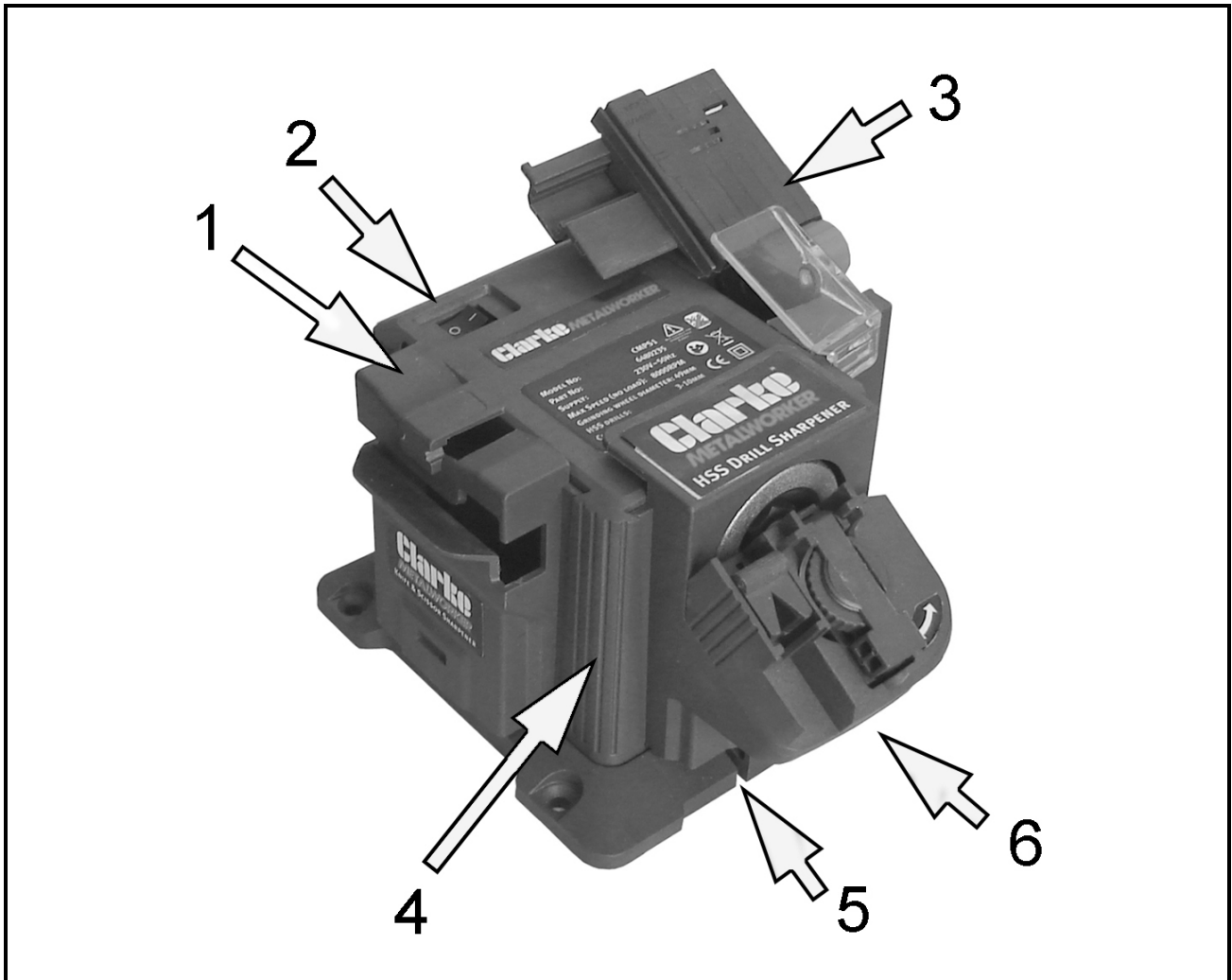
We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

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.

PRODUCT OVERVIEW



NO	DESCRIPTION
1	Knife & Scissor Sharpener Attachment
2	ON/OFF Switch
3	Chisel & Plane Sharpener Attachment
4	Power Unit
5	Retaining Catch/Interlock Switch
6	High Speed Steel Drill Sharpener Attachment

SETTING UP THE SHARPENER

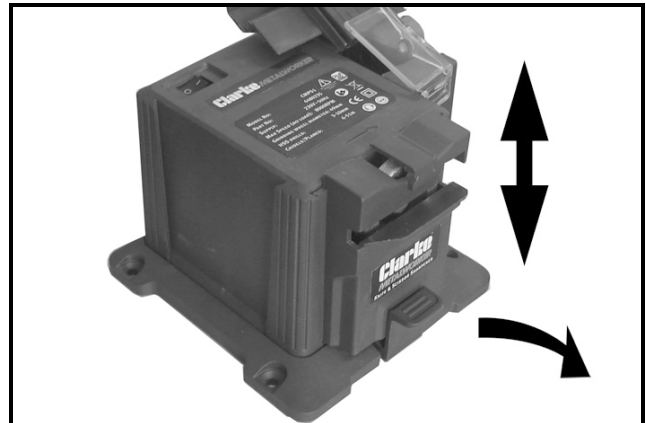
This sharpener should only be used on a stable, horizontal surface. It is intended to be screwed down onto a workbench using the mounting holes in the base. Use 4 x 1" No 8 counter-sunk screws (not supplied).

The sharpener is fitted with an interlock which prevents the motor from starting unless one of the sharpening attachments is clipped into its operating position on the power unit.

To attach each sharpening attachment, slide it fully down the slots on the front of the power unit until it latches into place.

To release any sharpening attachment, unclip it by pressing the release catch down. Always wait for the grinding wheel to stop before removing the attachment. Store all the attachments on sides of the power unit when not in use.

Plug the sharpener into a suitable mains power outlet.



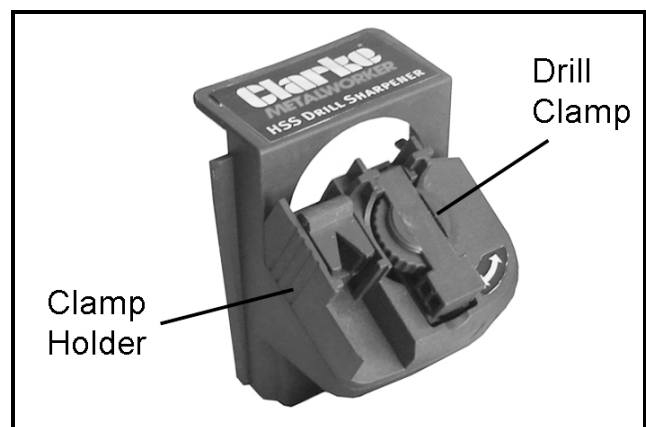
HIGH-SPEED DRILL SHARPENER

Using this attachment, you can sharpen any high speed drill bits from 7/64" (3mm) to 3/8" (10mm). The sharpener holds the drill bit at the correct sharpening angle.

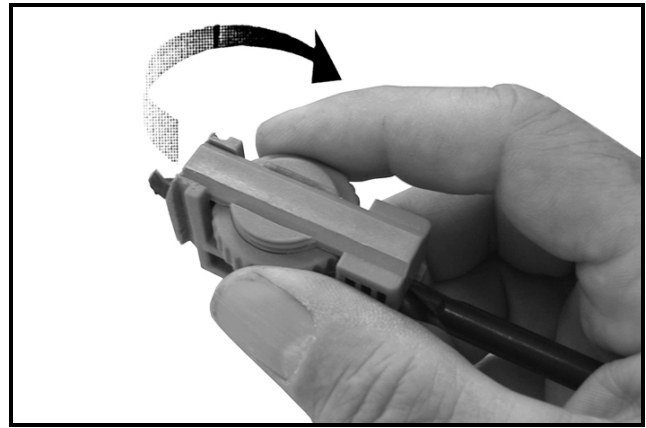
Do not use with masonry or hammer drill bits.

SHARPENING PROCEDURE

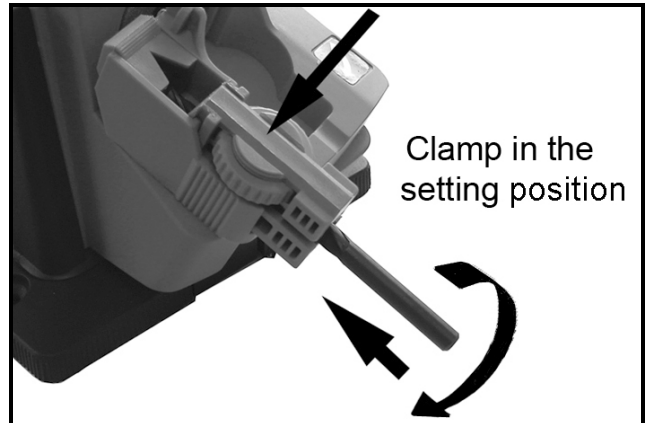
1. Slide the drill sharpening attachment onto the front of the power unit and clip into place.



2. Remove the drill clamp from the clamp holder and insert a drill bit such that the bit tip is either flush with the end face of the holder or protrudes a small amount. Grip the bit lightly with the drill clamp so that the drill can still move.



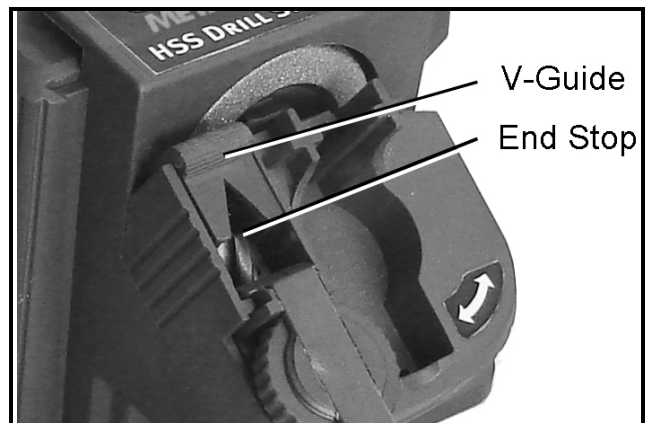
3. Slide the drill clamp into the grooves in the holder and slide the V-guide towards the drill clamp as far as it will travel.



4. Slide the drill bit towards the V-guide and rotate it until it seats snugly within the V profile and such that the ground edges are vertically above each other.

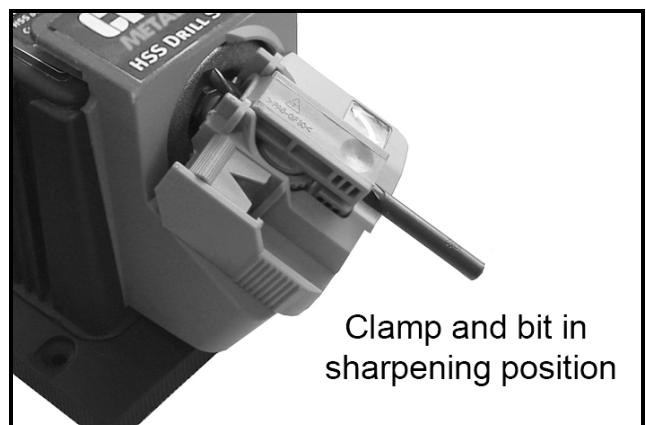
5. Without rotating the bit, push the bit forward within the clamp until the bit tip touches the metal end stop.

- The V-guide will slide backwards as the drill bit is advanced.
- This will set the drill bit with its cutting edges vertically above each other, so that the bit can be sharpened equally on both its edges.



6. With the bit in this position, tighten the clamp and remove it, complete with the drill bit.

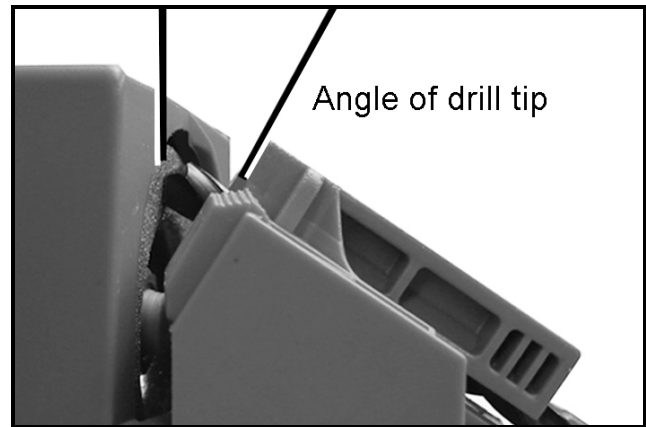
7. Transfer the clamp from the setting position to the sharpening position.



8. The drill bit should exactly touch the grinding wheel and will be held at the correct angle.

9. Turn the unit on and start sharpening.

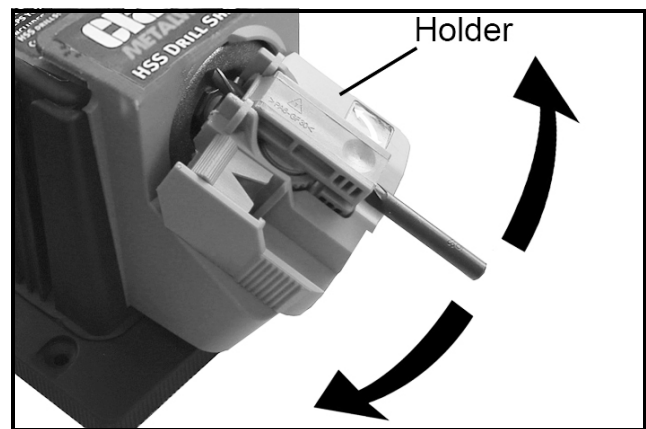
- Exert a slight downward pressure onto the bit and pivot.
- The bit should be constantly moved during sharpening by swinging the bit holder back and forth as indicated by the arrows.
- Examine bit according to the sharpening hints below.



10. Turn the clamp over and sharpen the other edge in the same way.

11. Try to ensure that both sides of the drill bit are sharpened, using the same amount of time and pressure.

- Check that both sides are the same shape and that the tip is exactly in the centre of the drill.
- Check that the trailing edge of each cutting surface is lower than the leading edge.
- Check that both sides are equal.



12. Repeat the above steps as necessary.

13. Switch the power unit off and ensure the grinding wheel has stopped before removing the sharpener attachment from the power unit.

SHARPENING HINTS

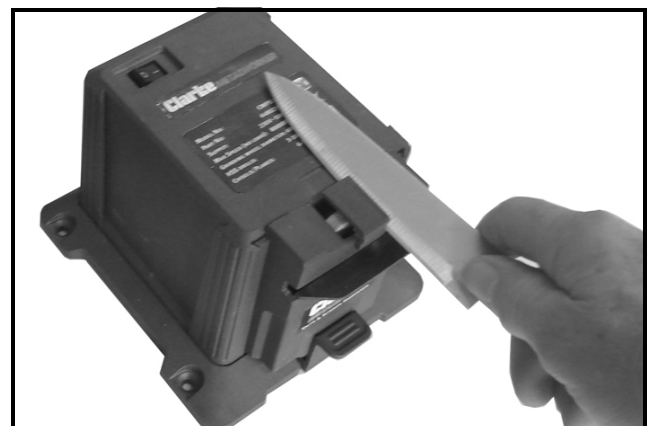
- If the tip of the bit starts to turn blue, it is overheating. Reduce the amount of pressure and sharpening time. Allow the bit to cool between sharpening cycles.
- If one edge is longer than the other, sharpen the short edge of the drill bit a little more.
- If you are sharpening a broken (rather than blunt) bit and the time required to restore the shape is too long, rough the bit into shape first using a bench grinder.

KNIFE AND SCISSOR SHARPENER

Using this attachment, you can sharpen any straight or curved blade but not serrated blades.

SHARPENING KNIVES

1. Slide the knife and scissor attachment onto the power unit.
2. Switch on the power unit.
3. Hold the knife by its handle, insert the blade into the guide slot.
4. As soon as the blade touches the grinding wheel, draw it across the wheel with a light, steady pressure towards the tip end before removing. Do not press hard.
5. Insert the second side of the blade into the other top guide slot and repeat as above.
6. Repeat sharpening each side in turn until a clean sharp edge is attained.
7. Switch the power unit off and ensure the grinding wheel has stopped before removing the sharpener attachment from the base unit.



SHARPENING SCISSORS

1. Slide the knife and scissor attachment onto the power unit.
2. Switch on the power unit.
3. Open the scissors fully and slide the first blade through the front guide slot with the other blade to the right hand side.
4. Draw the blade across the grinding wheel from pivot to tip using only a light pressure.
5. Remove and turn the scissor over to sharpen the second blade.
6. Repeat if necessary until clean, sharp edges are achieved.
7. Switch the power unit off and ensure the grinding wheel has stopped before removing the sharpener attachment from the power unit.



CHISEL AND PLANE SHARPENER

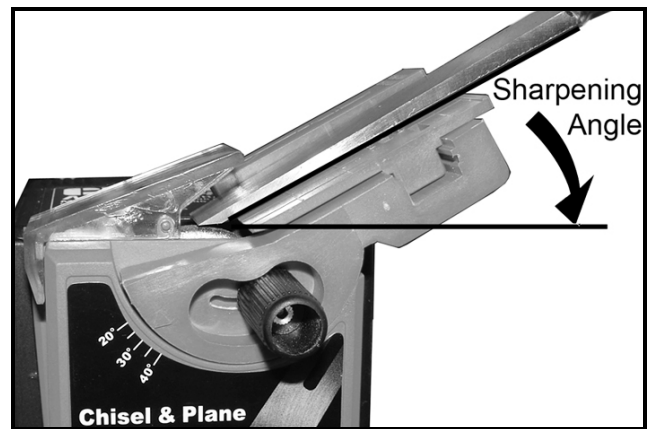
Using this module you can sharpen chisels and plane blades up to 2" (50mm) wide at a grinding angle from 20-40°.

SHARPENING BLADES

1. Slide the chisel and plane blade attachment onto the power unit.
2. Place the blade against the back lip of the support plate. The magnet helps hold the blade in position.



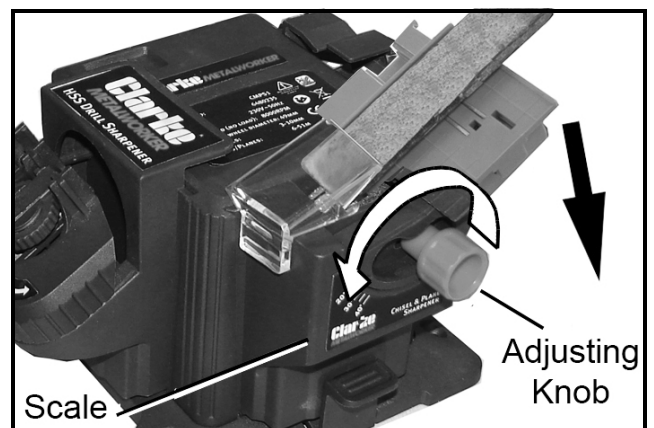
3. Take care that the sharpening angle matches the existing bevelled angle of the blade tip. This avoids removing too much metal unnecessarily and keeps the plane blade at its optimum cutting angle.



4. Adjust it to suit and set the angle securely using the adjusting knob. Note the angle on the scale before tightening.

5. Switch the power unit on.

6. Slide the blade and plate with light, steady pressure, back and forth across the grinding wheel in a continuous motion.



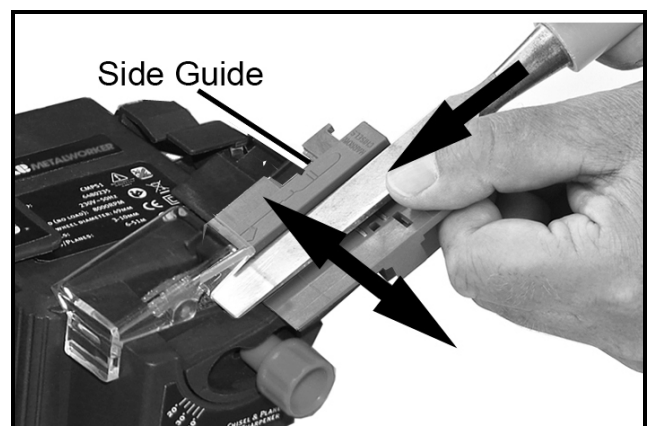
- Do not hold the blade stationary as this will cause irregular sharpening.

7. Gradually ease the blade down the plate while sharpening. Press very gently, repeating each step.

8. Lift the blade away and check that the bevelled edge and tip are evenly sharp across the blade width. If not, adjust the grinding angle and try again.

9. Use the extra side guide to act as a spacer when sharpening narrow chisels.

10. Switch the power unit off and ensure the grinding wheel has stopped before removing the sharpener attachment from the base unit.



- It is recommended that after grinding, the chisel or plane blade tip is honed using an oiled stone.

MAINTENANCE

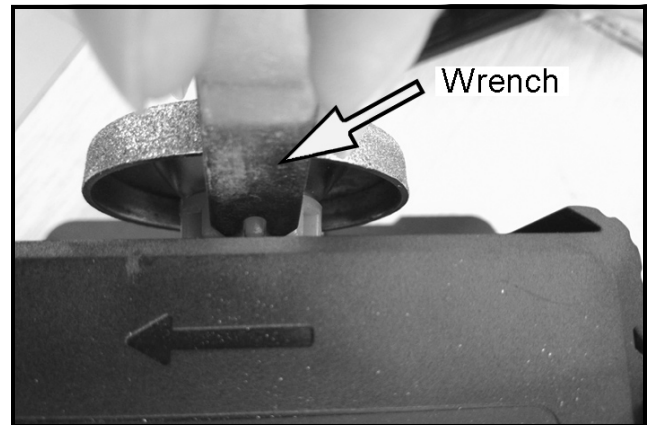
Keep the surface of your sharpener free of grit, dirt, and grease.

If cleaning, use soapy water or non-toxic solvents. Do not use petroleum based solvents.

If the motor does not operate it needs to be serviced or replaced by a qualified technician.

A special wrench is supplied with the product for the purpose of locking the spindle while the grinding wheel is removed.

Engage the wrench with the drive spindle as shown and remove the locking nut securing the wheel in place.



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.

DECLARATION OF CONFORMITY



Hemmill Steep, 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 statutory requirement(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+A11:2020, EN IEC 55014-1:2021, EN 55014-2:2015, EN IEC 55014-2:2021,

EN IEC 61000-3-2:2019, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019,

EN 61029-1:2009, EN 61029-1+A11:2010, EN ISO 12100:2010, IEC 62321-3-1:2013,

IEC 62321-4:2013, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017,

EN ISO 17075-1:2017

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

The UKCA mark was first applied in: 2022

Product Description: Multifunction Sharpener

Model number(s): CMPS2

Serial / batch Number: N/A

Date of Issue: 17/11/2022

Signed:

J.A. Clarke
Director



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):

2014/30/EU Electromagnetic Compatibility Directive

2006/42/EC Machinery Directive

2011/65/EU Restriction of the Use of Certain Hazardous Substances in electrical and Electronic Equipment Directive

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

EN 55014-1:2017+A11:2020, EN IEC 55014-1:2021, EN 55014-2:2015, EN IEC 55014-2:2021,

EN IEC 61000-3-2:2019, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019,

EN 61029-1:2009, EN 61029-1+A11:2010, EN ISO 12100:2010, IEC 62321-3-1:2013,

IEC 62321-4:2013, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017,

EN ISO 17075-1:2017

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: 2018

Product Description: Multifunction Sharpener

Model number(s): CMPS2

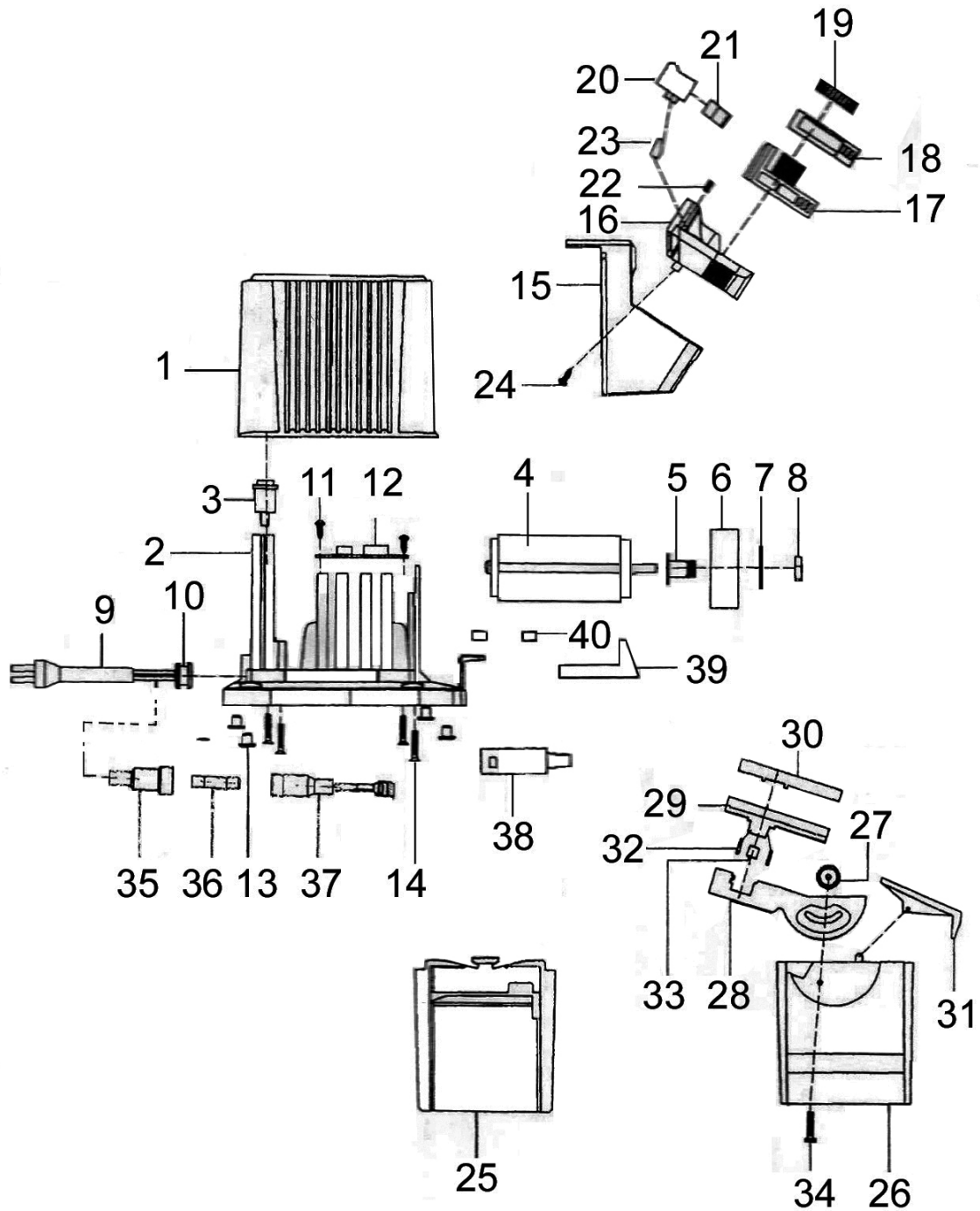
Serial / batch Number: N/A

Date of Issue: 17/11/2022

Signed:

J.A. Clarke
Director

PARTS LIST DIAGRAM



PARTS DIAGRAM

No	DESCRIPTION
1	Motor Housing
2	Base
3	Rocker Switch
4	Motor
5	Wheel Boss
6	Grinding Wheel
7	Washer
8	Nut
9	Power Cable
10	Cable Gland
11	Screw
12	Circuit Board
13	Rubber Foot
14	Screw
15	Drill Module Frame
16	Swivelling Frame
17	Drill Upper Clamp
18	Drill Lower Clamp
19	Drill Clamp Knob
20	Drill V- Guide

No	DESCRIPTION
21	End Stop
22	Steel Strip
23	Steel Blade
24	Pivot Screw
25	Knife/Scissors Module
26	Plane/blade Module
27	Locking Knob
28	Adjustable Plate
29	Sliding Blade Holder
30	Chisel Side Guide
31	Transparent Guard
32	Steel Edge
33	Magnet
34	Screw
35	Fuse Holder
36	Fuse
37	Fuse Holder
38	Interlock Switch
39	Interlock Switch Arm
40	Cable Clamp

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