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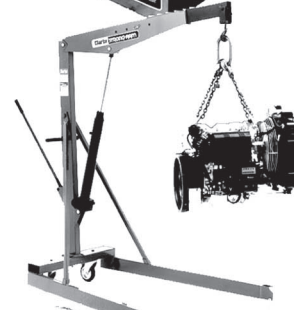
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Submersible, electric and engine driven for DIY, agriculture and industry.

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All sizes for car & commercial use.



Clarke® WOODWORKER



ELECTRIC PLANER

MODEL No. CEP1

Part No. 6462025

Clarke INTERNATIONAL

For spare parts and servicing, please contact your nearest dealer, or Clarke International on

020 - 8988 - 7400

e-mail: Parts@clarkeinternational.com e-mail: Service@clarkeinternational.com

Hemnal Street, Epping, Essex CM16 4LG

OPERATING & MAINTENANCE INSTRUCTIONS



Thank you for purchasing this CLARKE Electric Planer which is designed for DIY and light workshop use only.

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 the planer 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.

Specifications

Elec. Supply	230V 50Hz 1 ph
Power Rating	650 watt motor
Fuse Rating	5amp
No Load Speed	15,000
Net Weight	2.67kg
Base Length	290mm
Cutting Depth	0-2mm
Cutting Width	82mm
Vibration Emissions	Refer to notes on page 11
Overall Dimensions	285 x 154 x 157mm

Declared vibration emission value in accordance with EN12096

Measured vibration emission value - a : 2.9m/s²

Uncertainty value - K : 1.16m/s²

Highest measured reading in a single plane 3.9m/s²

Values determined according to EN28622-1



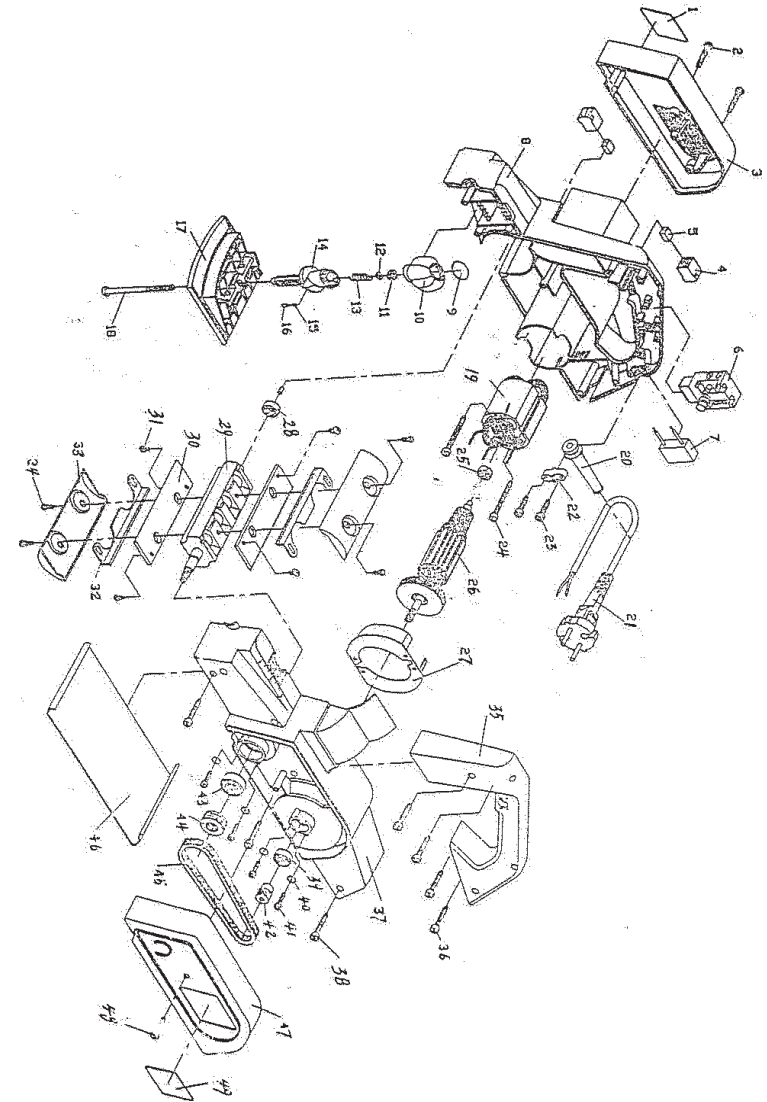
When disposing of this product, ensure it is disposed of according to all local ordinances. It must not be disposed of with general household waste.



This Product Conforms To 98/37/EEC Regulations

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.

Parts Diagram



Accessories

A wide range of accessories is available from your nearest CLARKE dealer, for further information, contact your nearest dealer, or telephone CLARKE International Sales department on 01992 565300.

Parts List

Item	Part No	Description	Qty	Item	Part No	Description	Qty
1	GRCEP1001	Namplate	1	26	GRCEP1026	Armature	1
2	GRCEP1002	S.T Screw	1	27	GRCEP1027	Wind Loop	1
3	GRCEP1003	Cover	1	28	GRCEP1028	Ball Bearing	1
4	GRCEP1004	Brush Holder	2	29	GRCEP1029	Drum	1
5	GRCEP1005	Brush	2	30	GRCEP1030	Blade	2
6	GRCEP1006	Switch	1	31	GRCEP1031	Screw	4
7	GRCEP1007	Capacitor	1	32	GRCEP1032	Blade Guide	2
8	GRCEP1008	Right Housing	1	33	GRCEP1033	Blade Clamp	2
9	GRCEP1009	Knob Cover	1	34	GRCEP1034	Bolt	4
10	GRCEP1010	Knob	1	35	GRCEP1035	Handle	1
11	GRCEP1011	Nut	1	36	GRCEP1036	S.T Screw	4
12	GRCEP1012	Flat Washer	1	37	GRCEP1037	Left Housing	1
13	GRCEP1013	Knob Spring	1	38	GRCEP1038	S.T Screw	6
14	GRCEP1014	Gear Shaft	1	39	GRCEP1039	Ball Bearing	1
15	GRCEP1015	Spring	1	40	GRCEP1040	Flat Washer	4
16	GRCEP1016	Sleeve	1	41	GRCEP1041	S.T Screw	4
17	GRCEP1017	Front Base	1	42	GRCEP1042	Small Pulley	1
18	GRCEP1018	Screw	1	43	GRCEP1043	Ball Bearing	1
19	GRCEP1019	Stator	1	44	GRCEP1044	Large Pulley	1
20	GRCEP1020	Cable Protector	1	45	GRCEP1045	Belt	1
21	GRCEP1021	Cable	1	46	GRCEP1046	Rear Base	1
22	GRCEP1022	Strain Relief	1	47	GRCEP1047	Belt Cover	1
23	GRCEP1023	S.T Screw	2	48	GRCEP1048	S.T Screw	1
24	GRCEP1024	Screw	2	49	GRCEP1049	Trade Mark	1
25	GRCEP1025	Ball Bearing	1				

PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

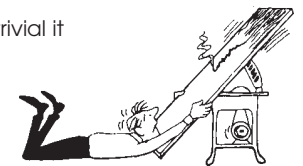
Safety Precautions



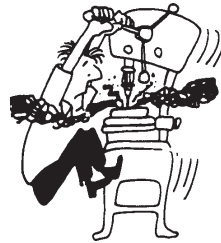
WARNING:

As with all machinery, there are certain hazards involved with their operation and use. Exercising respect and caution will considerably lessen the risk of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator or damage to property, may result.

- 1. ALWAYS** Learn the machines' applications, limitations and the specific potential hazards peculiar to it. Read and become familiar with the entire operating manual.
- 2. ALWAYS** use a face or dust mask if operation is particularly dusty.
- 3. ALWAYS** check for damage. Before using the machine, any damaged part, should be checked 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 machines' operation. Any damage should be properly repaired or the part replaced. If in doubt, **DO NOT** use the machine. Consult your local dealer.
- 4. ALWAYS** disconnect the tool/machine from the power supply before servicing and when changing accessories.
- 5. ALWAYS** wear safety goggles, manufactured to the latest European Safety Standards. Everyday eyeglasses do not have impact resistant lenses, they are not safety glasses.
- 6. ALWAYS** keep work area clean. Cluttered areas and benches invite accidents.
- 7. ALWAYS** ensure that adequate lighting is available. A minimum intensity of 300 lux should be provided. Ensure that lighting is placed so that you will not be working in your own shadow.
- 8. ALWAYS** keep children away. All visitors should be kept a safe distance from the work area, especially whilst operating the machine.
- 9. ALWAYS** maintain machine in top condition. Keep tools/machines clean for the best and safest performance. Follow maintenance instructions.
- 10. ALWAYS** handle with extreme care do not carry the tool/machine by its' electric cable, or yank the cable to disconnect it from the power supply .
- 11. ALWAYS** ensure the switch is off before plugging in to mains. Avoid accidental starting.
- 12. ALWAYS** concentrate on the job in hand, no matter how trivial it may seem. Be aware that accidents are caused by carelessness due to familiarity.
- 13. ALWAYS** keep your proper footing and balance at all times don't overreach. For best footing, wear rubber soled footwear. keep floor clear of oil, scrap wood, etc.



14. **ALWAYS** wear proper apparel. loose clothing or jewellery may get caught in moving parts. wear protective hair covering to contain long hair.
15. **ALWAYS** use recommended accessories. the use of improper accessories could be hazardous.
16. **ALWAYS** remove plug from electrical outlet when adjusting, changing parts, or working on the machine.
17. **NEVER** operate machine while under the influence of drugs, alcohol or any medication.
18. **NEVER** leave machine running unattended. turn power off. Do not leave the machine until it comes to a complete stop.
19. **NEVER** force the machine. it will do a better and safer job at the rate for which it was designed.
20. **NEVER** use power tools in damp or wet locations or expose them to rain. Keep your work area well illuminated. do not use in explosive atmosphere (around paint, flammable liquids etc.). Avoid dangerous environment.



Additional Precautions For Power Planers

1. **ALWAYS** wear ear protectors/defenders as the noise level of this machine can exceed 85dB (A).
2. **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.
3. **ALWAYS** switch the machine OFF immediately the task is completed.
4. **ALWAYS** Ensure the blades are fully tightened before use.
5. **NEVER** allow the ventilation slots in the machine to become blocked.
6. **NEVER** leave the cutter wrench in the planer.
7. **DO NOT** use the machine if the electric cable, plug or motor is in poor condition.
8. When doors etc. are to be planed, ensure all nails have been removed beforehand. Nails will damage blades.
9. Workpiece should always be firmly clamped to workbench etc.



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

DUST EXTRACTION

The sander is provided with a dust extraction facility, where a dust bag or vacuum extractor may be connected to the right hand side of the machine. An adapter is provided for this purpose. 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.

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 declaration on page 7.

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.

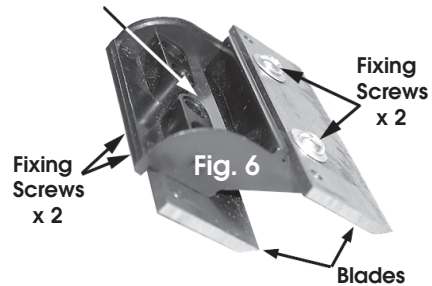
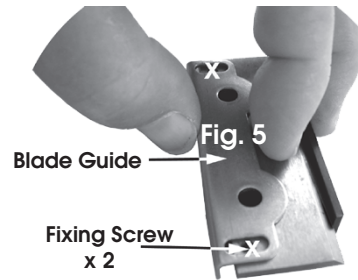
It should be noted that if a tool is used under abnormal, or unusual conditions, then the vibration level could possibly increase significantly. Users must always take this into account and make their own risk assessment, using the graph as a reference.



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.

Sharpening Blades.

- 1b. Carry out steps 1 -1a on Page 6, this time remove both blade assemblies.
- 2b. Fit both blades to sharpening jig, (supplied), (see Fig. 6). ensure blades but up to back stops before tightening screws.
- 3b. Lay assembly on sharpening stone and proceed to hone new edges.
- 4b. Remove blades from jig and reassemble planer 3a - 9a on page 6.



Trouble Shooting

Planer 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 but you should consult your CLARKE dealer for parts and advice.

Planer 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.

The waste is not extracted

Waste bag is full (empty waste bag), waste extractor flue is blocked, this is usually caused by allowing the waste bag to become too full, (remove and empty waste bag, also clear blockage.

Note :

Ensure planer is switched OFF and isolated from the mains by removing the plug from the socket.

Motor runs but blades do not turn

The drive belt is worn out or broken.

Electrical Connections

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.



This appliance is Double Insulated, and the two wires in the mains lead should be wired up in accordance with the following colour code:

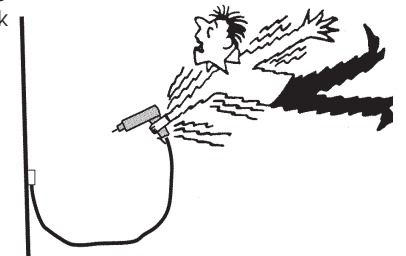
BLUE - NEUTRAL

BROWN - LIVE

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

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 (**5 amps**) and this replacement must be ASTA approved to BS1362.

If in 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.

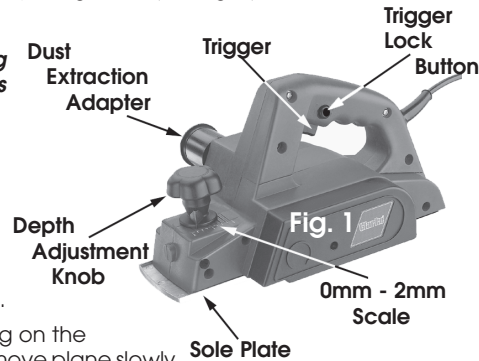
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Operation

1. Ensure machine is switched OFF and isolated from the mains supply.
2. Ensure workbench etc. is on a firm flat foundation, and workpiece is clamped securely to the bench.
3. Adjust the cutting depth required with adjusting knob (see fig. 1), turn knob clockwise from 0mm to 2mm.

Note : Never turn adjusting knob during planing, also adjusting knob should always be returned to '0' after planing.

4. To operate, insert plug into the mains socket and switch ON, holding the machine with both hands, one hand on the handle, the other on the adjusting knob, press the trigger lock button with thumb then depress trigger fully with forefinger, (motor will run).
5. Gently offer plane to workpiece, starting on the adjustable sole plate, then proceed to move plane slowly forwards, continue all the way across workpiece until plane is completely off the end. Repeat this procedure until required level is reached.



Note:

To obtain the best finish possible, start with the maximum cutting depth possible until almost the required level is reached, then reduce the depth of cut for final passes until the final level is reached.

6. When finished planing, remove planer from workpiece, release trigger, (motor will stop), once machine has stopped completely, turn adjusting knob fully anticlockwise before carefully putting down.
7. Switch OFF mains and remove plug from socket, (SAFETY).

Maintenance

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 where possible).

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.

Fitting Replacement Belt.

1. Ensure machine is switched OFF and isolated from the mains supply.
2. Remove L/H cover (1 screw).
3. Whilst turning large pulley, gently ease belt off small pulley one groove at a time.
4. Fit replacement belt onto small pulley first.
5. Whilst turning large pulley, gently ease belt onto large pulley one groove at a time.
6. Refit cover, (DO NOT RUN MACHINE WITH COVER REMOVED).

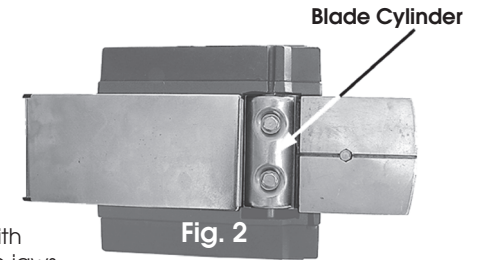
Blade Replacement

Note :

Item numbers refer to parts list, page 11

To replace blades proceed as follows :

1. Ensure Planer is switched off and isolated from the electrical supply, by removing the plug from the socket.
2. Turn depth adjusting knob fully clockwise to position '2'.
3. Turn Planer upside down, preferably with handle gently supported in workbench jaws or similar.
4. Turn blade cylinder assembly by hand, (Take care of sharp edges), until two screw heads are on top, (see Fig. 2).
5. Using 'T' wrench supplied, unscrew and remove both screws.
6. Lift off blade clamp, (item 33), noting which way round it is fitted, now lift out blade assy, (items 30 - 32).



Note : Keep all parts removed together.

Fitting New Blades.

- 1a. Unscrew and remove two screws (item 31), lift off blade guide, (item 32).
- 2a. Place setting jig, (supplied), on a flat surface, (see Fig. 3).
- 3a. Place new blade on setting jig ensuring cutting edge butts up to lip, (see Fig. 4).
- 4a. Fit blade guide on to new blade, Fig. 5), using two screws removed previously, (do not tighten).
- 5a. Hold blade in position with index finger, and gently squeeze assy together with thumb and second finger, (see Fig. 5), tighten both screws, check that blade has not moved, (cutting edge butting up to lip on jig).
- 6a. Refit blade assembly to blade cylinder taking care not to damage new blade, (lip on blade guide fits into slot on cylinder).
- 7a. Refit blade clamp
- 8a. Refit two screws and tighten with wrench.
- 9a. Repeat steps 4 - 8a for other blade.

