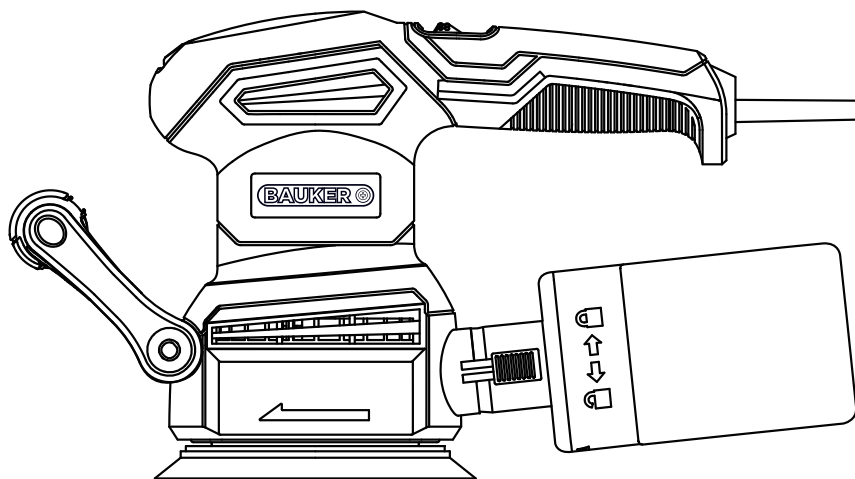




PES400GH.1



**125MM ROTARY SANDER
ORIGINAL INSTRUCTION MANUAL**

SAFETY INFORMATION

 **WARNING! Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

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.

ADDITIONAL SAFETY RULES

- 1) Always wear eye protection.**
- 2) Always wear ear protection during extended periods of operation..**
- 3) Always inspect and remove all nails and screws etc before sanding.**
- 4) Always check walls and ceilings to avoid hidden power cables and pipes. A metal detector can be obtained from any good DIY store for this purpose.**
- 5) Use the original accessories and the tool provided, no others.**
- 6) Only use accessories in good condition. Do not use torn or worn accessories.**
- 7) Do not turn the machine on whilst any of the accessories are resting on or inserted into the work piece or material that you want to work with. Wait until the machine is up to full speed before proceeding with your task.**
- 8) Keep your hands away from cutting area. Do not reach under the material being cut.**
- 9) The operating instructions and the enclosed safety information should be kept carefully for later use and enclosed with the machine, should it be passed on or sold.**

SYMBOLS



To reduce the risk of injury, user must read instruction manual



Wear eye protection



Wear ear protection



Wear dust mask



Warning

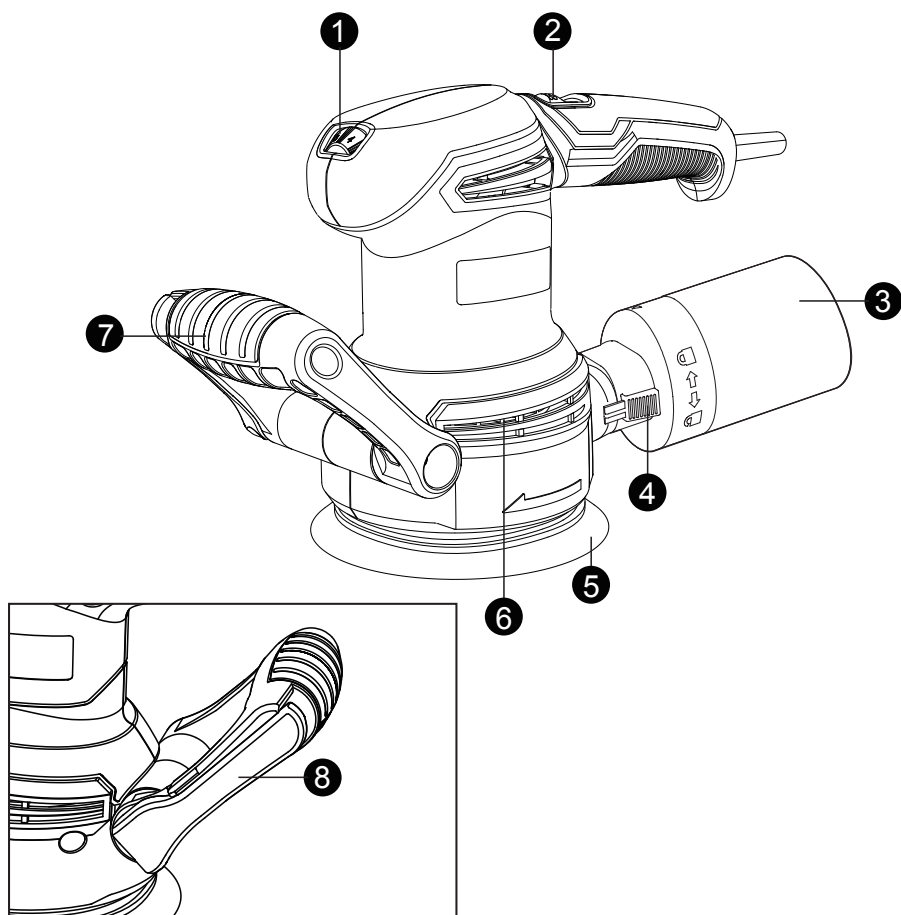


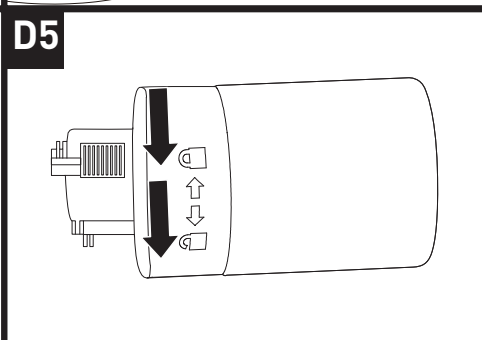
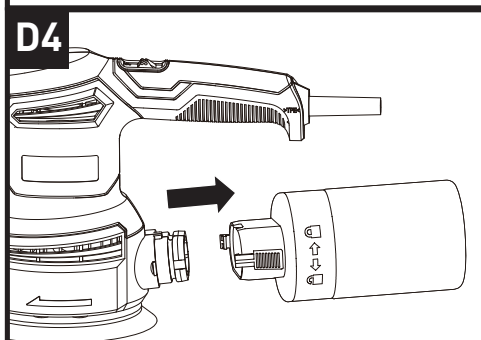
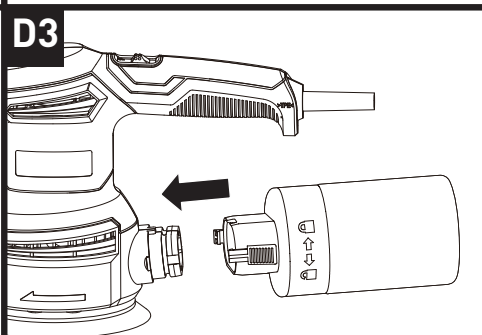
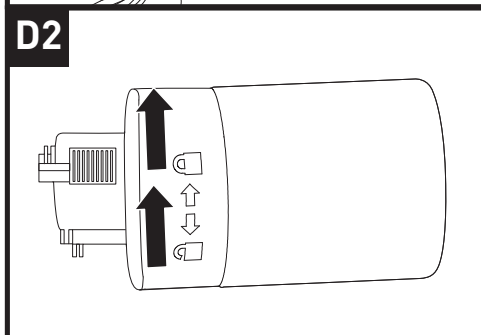
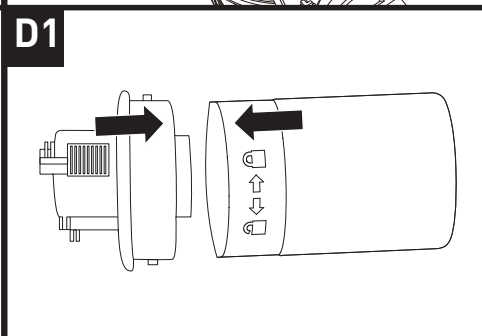
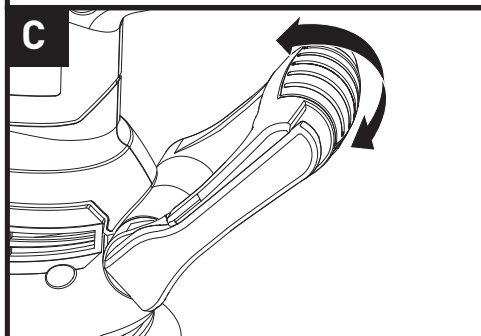
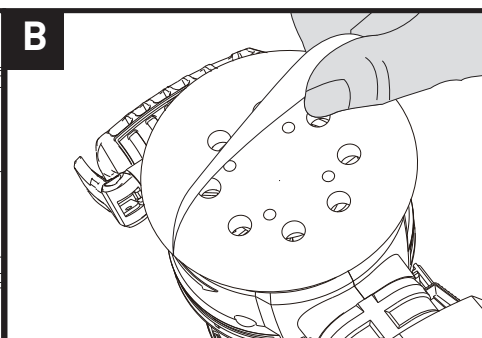
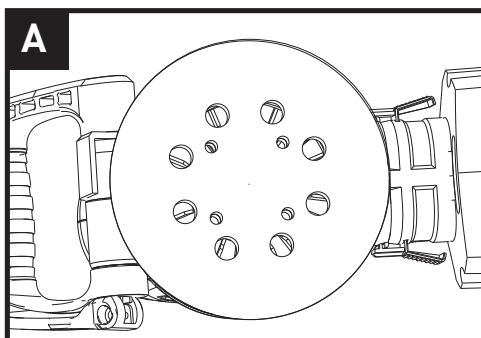
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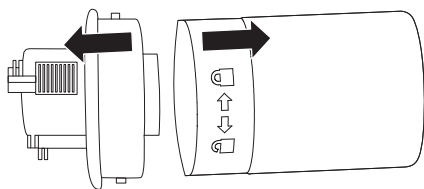
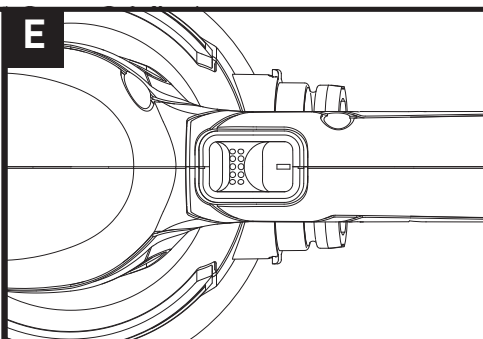
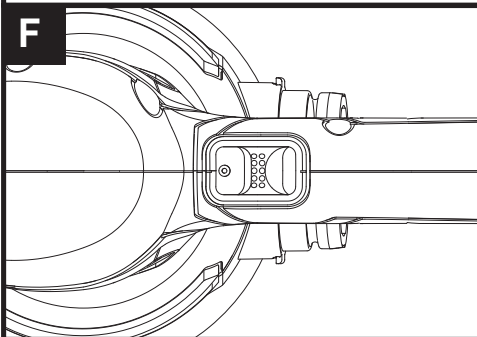
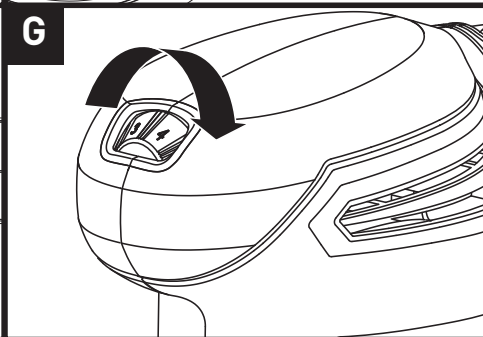
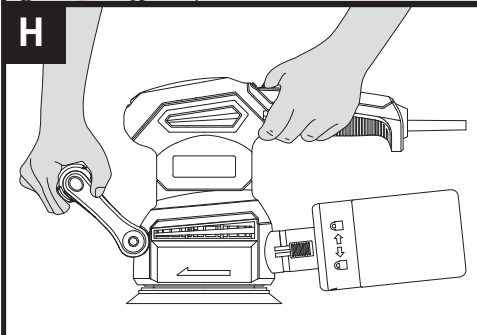


Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.







D6**E****F****G****H**

COMPONENT LIST

1. VARIABLE SPEED CONTROL
2. ON/OFF SWITCH
3. DUST BAG WITH ADAPTOR
4. LATCHING LEVER
5. SANDING BASE PLATE
6. MOTOR HOUSING
7. AUXILIARY HANDLE
8. AUXILIARY HANDLE LOCKING KNOB

Not all the accessories illustrated or described are included in standard delivery.

TECHNICAL DATA

Type Designation PES400GH.1 (PES-designation of machinery, representative of Rotary Sander)

Voltage:	230-240V~ 50Hz
Power input:	400W
No load speed:	4000-12000/min
Diameter of base:	125mm
Protection class:	□/II
Machine weight:	1.95kg

ACCESSORIES

Dust bag	1
80# Sanding paper	1

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

NOISE AND VIBRATION DATA

A weighted sound pressure	$L_{pA} = 76,4 \text{ dB(A)}$
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$K_{pA} = 3.0 \text{ dB(A)}$

A weighted sound power	$L_{wA} = 87,4 \text{ dB(A)}$
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$K_{wA} : 3.0 \text{ dB(A)}$

Wear ear protection. 

Vibration Information

Vibration total values (triax vector sum) determined according to EN 60745:

Vibration emission value:

$a_h = 4.943 \text{ m/s}^2$ Uncertainty $K = 1,5 \text{ m/s}^2$

The declared vibration total value may be used for comparing one tool with another, and may also be used in a preliminary assessment of exposure.



WARNING! The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:

How the tool is used and the materials being cut or drilled.

The tool being in good condition and well maintained

The use the correct accessory for the tool and ensuring it is sharp and in good condition.

The tightness of the grip on the handles and if any anti vibration accessories are used.

And the tool is being used as intended by its design and these instructions.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed.



WARNING! To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Helping to minimise your vibration exposure risk.

ALWAYS use sharp chisels, drills and blades

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate)

If the tool is to be used regularly then invest in anti vibration accessories.

Plan your work schedule to spread any high vibration tool use across a number of days.

OPERATING INSTRUCTIONS



NOTE: Before using the tool, read the instruction book carefully.

Intended Use

The machine is intended for dry sanding of wood, plastic, metal and filler material as well as painted surfaces. Machines with electronic control are also suitable for polishing.

1. FITTING THE SANDING PAPER (SEE FIG A, B)

FIT THE SANDING PAPER

This sander features an easy hook and loop accessory fastening system for quick changing without clamps.

The sanding papers are placed directly onto the base plate. The hole pattern in the base plate and sanding paper must match. Then press the sanding paper onto the base plate by hand. Firmly press the power tool with the sanding paper against a flat surface and briefly switch the power tool on. This provides for good adhesion and prevents premature wear

Before placing on the sanding paper, free the base plate from dust/debris by lightly tapping against it.

REMOVE THE SANDING PAPER

Simply remove the sanding paper directly.

2. INSTALLING THE AUXILIARY HANDLE (SEE FIG. C)

For your personal safety we recommend using the auxiliary handle at all times.

To adjust the handle, release the auxiliary handle locking knob and rotate the handle, the tool has preset some locked positions, choose the most comfortable and balanced one. Then press the auxiliary handle locking knob.

3. DUST COLLECTION/EXTRACTION (SEE FIG. D1,D2,D3,D4,D5,D6)

– Dust produced while working can be detrimental to health, inflammable or explosive. Suitable protection measures are required. Examples: Some dusts are considered to be carcinogenic. Use suitable dust/chip extraction and wear a dust protection mask.

– Light metal dust can burn or explode. Always keep the work place clean since material mixtures are especially dangerous.



CAUTION: Fire hazard! For unfavorable conditions such as flying sparks when sanding metals, sanding dust in the dust bag, micro filter or paper sack (or in the filter sack or filter of the wet/ dry vacuum cleaner) can self-ignite, especially when mixed with remainders of varnish, polyurethane or other chemical materials and when the sanded work piece is hot after long periods of working. Avoid overheating the object being sanded as well as the machine and always empty the dust container before pauses in the work.

A) Internal vacuuming with dust bag

Attaching The Dust Bag

Push the dust bag into the adapter.(SEE FIG. D1), and rotate the dust bag clockwise.(SEE FIG. D2).

Place the dust bag with adapter on the outlet piece and allow the latching lever to latch. (SEE FIG. D3)

Empty The Dust Bag

Always operate your sander with the dust bag with adapter fitted. To remove the dust bag with adapter, take the dust bag with adapter away from the sander. (SEE FIG. D4) . Then rotate the dust bag counterclockwise and pull off the dust box out of adapter directly and shake out dust.(SEE FIG. D5,D6) . For the best performance, always empty the dust bag in time. To refit the dust bag with adapter, firmly

push the dust bag with adapter into the location on the sander housing.

4. OPERATING THE ON/OFF SWITCH (SEE FIG E, F)

Slide the on/off switch to the position marked "I" to start the tool. (SEE FIG E)

Slide it to the position marked "0" to stop it. (SEE FIG F)

5. VARIABLE SPEED CONTROL (SEE FIG G)

With the variable speed control (1), the required speed can be selected (also while running).

The required speed is dependent on the material and is to be determined by a practical trial.

After longer periods of working at low speed, allow the tool to cool down by running it for approx. 3 minutes at maximum speed with no load.

6. USING THE SANDER (SEE FIG. H)

Guide your sander parallel to the working surface and move it in circles or in a cross pattern. Do not tilt the tool in order to avoid deep unwanted sanding marks. The amount of material removed is determined by the speed of the sanding disc and the grit size used. The speed of the sanding disc diminishes relative to the pressure applied to the tool. For faster removal, do not increase pressure on the tool, but use a coarser grit size .

7. SELECT THE RIGHT SAND PAPER

Selecting the correct grit of sanding paper is an extremely important decision that will allow you to achieve the best quality sanding finish.

Coarse grit will remove the most material and finer grit will give you the best finish in all sanding operations.

The condition of the surface to be sanded will determine which grit will do the job.

If the surface is rough:

Start with coarse grit (sold separately) and sand until the surface is uniform. Then use medium to remove any scratches left by the coarse grit. Then use finer grit (sold separately) for finishing the surface.

NOTE: Always continue sanding with each grit until the surface is uniform.

WORKING HINTS FOR YOUR SANDER

If your power tool becomes too hot, especially when used at low speed, set the speed to maximum and run it with no load for 2-3 minutes to cool the motor. Avoid prolonged usage at very low speeds. Always use sand paper that is suitable for the material you want to sand.

Always ensure the work-piece is firmly held or clamped to prevent movement.

Any movement of the material may affect the quality of the sanding finish.

Start your sander before sanding and turn it off only after you stop sanding. For the best results, sanding wood in the direction of the grain.

Do not start sanding without having the sandpaper fitted.

Do not allow the sandpaper to wear away it will damage the base-plate. The guarantee does not cover base-plate wear and tear.

Use coarse grit paper to sand rough surfaces, medium grit for smooth surfaces and fine grit for the final surfaces. If necessary, first make a test run on scrap material.

Use only good quality sandpaper.

The sandpaper controls the sanding efficiency, not the amount of force you apply to the tool. Excessive force will reduce the sanding efficiency and cause motor overload. Replacing the sandpaper regularly will maintain optimum sanding efficiency.

MAINTENANCE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. Occasionally you may see sparks through the ventilation slots. This is normal.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

TROUBLESHOOTING

1. If your sander will not operate, check the power at the mains plug.
2. If the sander does not abrade surface, checking the sanding paper. If the sanding paper has been worn, replace the new paper and try again. The paper must be kept in a dry place, if it is allowed to become damp, the abrasive particles will lose their adhesion to the backing paper and will not abrade.
3. If the sander does not move smoothly, The sanding paper may be loose, damaged or wrinkled. Replace and try again.
4. If a fault cannot be rectified return the sander to an authorized dealer for repair.

ENVIRONMENTAL PROTECTION



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

PLUG REPLACEMENT (ONLY FOR REWIRABLE PLUG OF UK & IRELAND)

If you need to replace the fitted plug then follow the instructions below.

IMPORTANT

The wires in the mains lead are colored in accordance with the following code:

BLUE – NEUTRAL

BROWN – LIVE

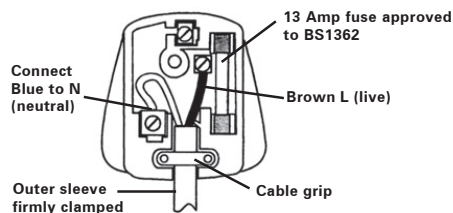
As the colors of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured blue must be connected to the terminal which is marked with N. The wire which is coloured brown must be connected to the terminal which is marked with L.



WARNING:

Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved BS1363/A plug and the correct rated fuse.

NOTE: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.



DECLARATION OF CONFORMITY

We,
Positec Power Tools (Europe) Ltd,
PO Box 6242, Newbury, RG14 9LT, UK

Declare that the product

Description **Electric Sanders and Polishers other than disk-type**

Type Designation **PES400GH.1 (PES-designation of machinery, representative of Rotary Sander)**

Function **Remove surface material using an abrasive medium**

Complies with the following Directives:

2006/42/EC, 2014/30/EU, 2011/65/EU

Standards conform to

EN 62841-1, EN 62841-2-4, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

The person authorized to compile the technical file:

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PO Box 6242, Newbury, RG14 9LT, UK**



2017/11/24

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