

# ENERGER



## SAFETY AND OPERATING MANUAL

Original Instructions 1.0

**550W JIGSAW ENB454JSW**

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# ENERGER

Read all safety warnings and all instructions before use. 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.

## GENERAL SAFETY INSTRUCTIONS



**WARNING!** Read all safety warnings designated by the symbol and all instructions.

**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

- a) **Keep work area clean and well lit.** Cluttered and 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 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 the 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 using 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.

### 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 safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries
- c) **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your fingers on the switch or plugging in power tools that have the switch in 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 a 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 get 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 these devices 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 is 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 preventative safety measures reduce the risk of starting power tools accidentally.

d) **Store idle power tools out of 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 tools 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 easier to control.

g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, 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

**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.

### SPECIAL SAFETY INSTRUCTIONS

1. **Wait for the cutter to stop before setting the tool down.** An exposed cutter may engage the surface leading to possible loss of control and serious injury.
2. **Hold the power tool by insulated gripping surfaces only, because the cutter may contact its own cord.** Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
3. **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.
3. Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
4. Fully unwind extension cords to avoid potential overheating.
5. When an extension cord is required, please ensure it has the correct ampere rating for the power tool and that it is in a safe electrical condition.
6. Ensure the supply voltage is same as rating voltage.
7. The tool is double insulated for additional protection against a possible electrical insulation failure within the tool.
8. After long working periods, external metal parts and accessories could be hot.
9. Wear eye protection when operating this tool.
10. Always check the workpiece before operation and remove any obstructions such as nails, staples, screws, string, rags, cloths and other debris. Do not cut into nails, screws or other metal objects.
11. Check the position of power cables before commencing work ensuring they are well away from the work area.
12. Do not use worn or damaged blades. This may result in motor overload and substandard work.
13. Keep hands and other body parts well away from the blades while the jigsaw is in use. Do not attempt to remove cut material whilst the jigsaw is in operation or reach underneath for any reason.



### WARNING!

Some dust created by power Planing, cutting and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products,
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

## NOISE INFORMATION

### Wear hearing protection!

Measured sound values determined according to EN 60745.

The noise figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of work-force include the characteristics of the work room, the other sources of noise, etc. i.e. the number of machines and other adjacent processes, and the length of time for which an operator is exposed to the noise. Also the permissible exposure level can vary from country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

## VIBRATION

The European Physical Agents (Vibration) Directive has been brought in to help reduce hand arm vibration syndrome injuries to power tool users. The directive requires power tool manufacturers and suppliers to provide indicative vibration test results to enable users to make informed decisions as to the period of time a power tool can be used safely on a daily basis and the choice of tool.

Further advice can be found at [www.hse.gov.uk](http://www.hse.gov.uk)

Vibration total values (triax vector sum) determined according to EN 60745:	
cutting board	Level of vibration $a_{h,B} = 13.98 \text{ m/s}^2$
	Uncertainty $K = 1.5 \text{ m/s}^2$
cutting sheet metal	Level of vibration $a_{h,M} = 12.179 \text{ m/s}^2$
	Uncertainty $K = 1.5 \text{ m/s}^2$

The declared vibration emission value should be used as a minimum level and should be used with the current guidance on vibration.

The declared vibration emission been measured in accordance with a standardised test stated above and may be used to compare one tool with another tool. The declared vibration emission value 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 dependent on the following examples and other variations on how the tool is used:

How the tool is being used and the materials being cutting.

The tool being in good condition and well maintained

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

The tightness of the grip on the handles.

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

While working with this power tool, hand/arm vibrations occur. Adopt the correct working practices in order to reduce the exposure to vibration.

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

### **WARNING!**

Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

### **Vibration and noise reduction**

To reduce the sanding of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.

Take the following points into account to minimize the vibration and noise exposure risks:

1. Only use the product as intended by its design and these instructions.
2. Ensure that the product is in good condition and well maintained.
3. Use correct application tools for the product and ensure they are in good condition.
4. Keep tight grip on the handles/grip surface.
5. Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
6. Plan your work schedule to spread any high vibration tool use across a number of days.

### **Emergency**

**Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.**

1. Always be alert when using this product, so that you can recognise and handle risks early. Fast intervention can prevent serious injury and damage to property.
2. Switch off and disconnect from the power supply if there is any malfunction. Have the product checked by a qualified specialist and repaired, if necessary, before you put it into operation again.

### **Health Surveillance**

All employees should be part of an employer's health surveillance scheme to help identify any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

### **Residual risks**

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

1. Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
2. Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.
3. Danger of injury and property damage caused by flying objects.

**WARNING!**

This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

**Important note**

Be sure the supply is the same as the voltage given on the rating plate. Remove the mains plug before carrying out any adjustment or servicing.

**Intended use**

The machine is intended for making separating cuts and cut-outs in wood, plastic, metal, ceramic plates and rubber while resting firmly on the workpiece by different blades. It is suitable for straight and curved cuts with mitre angles to 45°.



## SYMBOLS

The symbols shown on the product has great significance for the safe use of the product.



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



Wear eye protection.



Wear hearing protection.



Wear breathing protection.



Wear safety gloves.



This product is of protectionclass II. That means it is quipped with enhanced or double insulation.

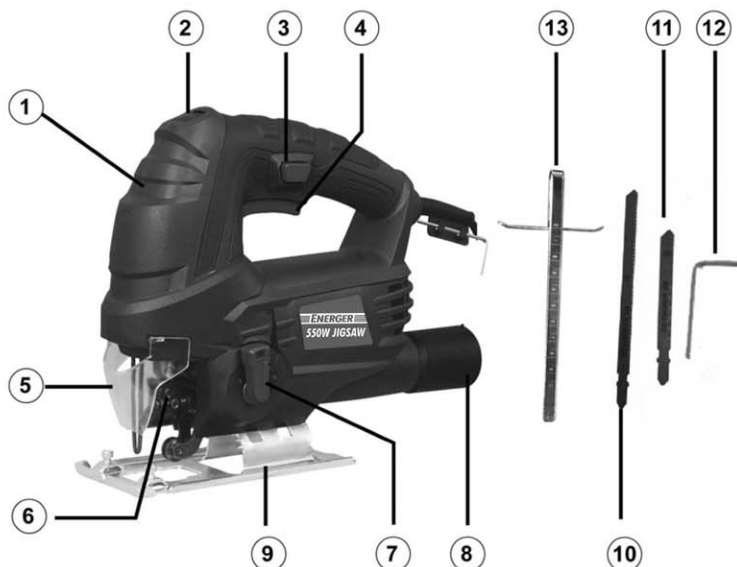


This product complies with all applicable European Directives.

yyWxx Manufacturing date code:

Year of manufacturing (20yy) and week of manufacturing (Wxx);

## Components and controls



- 1 Decoration cover
- 2 Speed control knob
- 3 Locking button
- 4 On/Off switch
- 5 Protective device
- 6 Chuck
- 7 Pendulum adjustment button
- 8 Dust suction tube
- 9 Base plate
- 10 1pcs wood cutting blades
- 11 1pc metal cutting blade
- 12 Hex key
- 13 Parallel guide

## TECHNICAL DATA

Model	ENB454JSW
Rated voltage	220-240V 50Hz
Rated power	550W
No load speed	0-3000 min <sup>-1</sup>
Max. cutting depth:	
Steel	6 mm
Aluminum	8 mm
Wood	65 mm
Weight	2.0 kg

## NOISE DATA

Sound pressure level:  $L_{pA} = 90.5\text{dB (A)}$  uncertainty  $K= 3.0\text{dB (A)}$

Sound power level:  $L_{WA} = 101.5\text{dB (A)}$  uncertainty  $K= 3.0\text{dB (A)}$

Wear ear protection when sound pressure is over 80 dB(A)

## ACCESSOIRES

The machine comes with the following accessories :

- 1pc Dust suction tube (using a 35mm tube)
- 1pc Parallel guide
- 1pc Wood cutting blade
- 1pc Metal cutting blade
- 1 pc Hex key 3mm

## BEFORE USE

Before making assembly, changing and adjustment for any accessory, disconnect the tool from the mains supply to avoid any unintentional starting.

Please always check the mains supply voltage before use! It must correspond with the rating label on the appliance.

Remove any packing material and loose parts from unit.

Check the accessories before use. It should be fit with the machine and your purpose.

Never use any damaged or deformed blade in planer.

Check the blade before use. It must be fixed correctly.

## Operating instructions

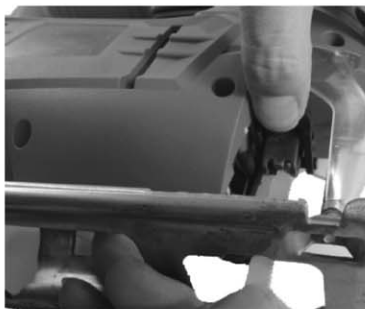


Fig.1



Fig.2



Fig.3

### 1. Inserting Blade (Fig. 1)

The jigsaw has a keyless blade holder so you do not need a key to lock the blade in place. Make sure that the blade is not skewed when it is inserted and tightened.

- Set the Pendulum adjustment button to position 0
- Pull back the blade lock knob from original position.
- Insert the blade to the holder with the teeth pointing forwards and loosen the black lock knob.
- Apply a sufficient pressure to the blade, to make sure the blade has been locked correctly in position.

To remove the blade, please pull back the blade lock knob, and then remove it by hand.

#### Caution!

There are 2 kinds of blade head, please always select bayonet type for this machine. (Fig. 2)

Please always make sure the teeth pointing forwards, if the blade assembled in wrong direction, it may cause serious injuries.

The blade could be very hot after working. Don't touch the tip of accessory by hand directly!

Please always use protective gloves to remove the accessory.

### 2. On/Off switch (Fig. 3)

Depress the On/Off switch to start and release it to stop the machine.

Pressing the lock button while the On/Off switch is engaged will allow the jigsaw to continue operating without constant pressure on the On/Off switch.

To switch the machine off, depress the On/Off switch again to release the lock button first.

Before putting the jigsaw down, please make sure it has stopped completely

#### CAUTION!

Always hold the machine firmly.

Never start the machine with the blade in contact with the workpiece. Start cutting only after the motor reached required speed. And always remove the machine from the workpiece before switching it off

Never stop the blade by exerting pressure on the side of the blade.

Always carry out a test run before starting work and after every tool change! Always ensure that the tools are in good condition, correctly mounted and able to turn freely. The trial run should be at last 30 sec.



Fig. 4



Fig. 5



Fig. 6

### 3. Speed control (Fig. 4)

The machine is equipped with a speed control knob for convenient operation by simply turning the control knob left or right.

Increase speed by turn the variable speed knob to a higher number or reduce speed by turn it to a lower number. Use the fastest speed for cutting the material quickly. Use a low speed to reduce the rate of removal of material and increase the accuracy of finishing.

#### **CAUTION!**

**Never adjust the working speed during working! Adjust the variable speed knob to suit different working materials. The tool cuts quicker and smoother at varying speeds when working in different timber materials or in plastic.**

**Determine the optimum speed by making a trial cut in a scrap piece of material.**

### 4. Pendulum Adjustment knob (Fig. 5)

The Pendulum Adjustment knob has 4 settings. It can be used to control the working efficiency and the quality of the cutting surface according to the type of material.

Use a lower pendulum setting if you want to get better cutting quality.

Setting 0 is selected for metal plates, sheets or splinter-sensitive material

Setting I is selected for or plastic or hard wood

Setting II is selected for hard wood

Setting III is selected for soft wood

Determine the optimum pendulum setting by making a trial cut in a scrap piece of material.

### 5. Dust suction (Fig. 6)

The dust will be collected by the dust suction tube to the vacuum cleaner during use.

To assembly the vacuum cleaner, please follow below steps:

- Assembly the dust suction tube to the base plate.
- Remove the accessories on soft tube of vacuum cleaner.
- Connect the soft tube to the dust suction tube directly.



#### **WARNING**

When sawing metal, sparks are generated; do not use vacuum cleaner and keep other persons and combustible material away from work area.



Fig. 7

#### **6. Adjusting the base plate (Fig. 7)**

The base plate can be adjusted in 7 positions: 0,  $\pm 15$ ,  $\pm 30$  and  $\pm 45^\circ$ .

To adjust the cutting angle, please follow below steps:

1. Use the hex key (3mm) to loosen two screws underneath the base plate.
2. Pull away the base plate from the angle slot, and adjust it to the desired angle.
3. Assembly the base plate to the angle slot and then re-tighten the screws.
4. Make a trial cut to check whether the blade is positioned at the desired angle.

#### **CAUTION!**

Unstable base plate may cause serious injury for user. Please always check it after each adjustment!



Fig. 8

#### **7. Using the Parallel Guide Fence (Fig.8)**

The parallel guide fence is an effective aid for cutting in a straight line.

To set the cutting width, install the guide in the machine and rotate the knob to the required width. Then lock the guide in place.

**Note:** If the distance between the side of the work piece and the cutting position is too wide, or the side of the work piece is not straight, firmly clamp a straight board to the work piece and use this as a guide.

## TERMS OF USE

When all precautions have been taken and the previous operations were done, you can start working. The stress on the machine should not be such that the speed is reduced by more than 25% for significant periods.

When overloaded happened, run the machine empty for 3 to 5 minutes to cool the engine.

For cutting a hole in a workpiece, please drill a hole by 12 mm drill first and then start the working from this point.

For metal cutting, please always use a suitable cutting oil to prevent overheating of the blade.

Do not use the saw with a cracked, blunt or damaged blade.

Do not attempt to cut objects thicker than the maximum cutting depth of the blade or when there is not enough space under the object for the blade.

The saw blades have different types for different materials. Please select it carefully and make sure it fits with the machine and your purpose before use.

## CARE AND MAINTENANCE

Keep the ventilation openings clear and clean the product regularly. This machine requires no special mechanical maintenance such as greasing the bearings.

If something unusual occurs during use, switch off the supply and disconnect the plug. Inspect and repair the tool before using it again. The repairs must be carried out by a qualified technician.

**Repair of the tool must only be carried out by a qualified repair technician.**

Repair or maintenance by unqualified personnel can lead to a risk of injury.

**Use only identical spare parts for repairing a tool.**

### Caution!

If the supply cord of this power tool is damaged, it must be replaced by a specially prepared cord available through the service organization.

### Care and cleaning

Cleaning of plastic parts is disconnected machines, using a soft damp cloth and a mild soap.

Never immerse the machine and do not use detergent, alcohol, petrol, etc..

In case of problems or for a deep cleaning, consult the manufacturer, its service agent or a similarly qualified person to avoid a hazard.

## STORING

Store the machine, operating instructions and where necessary the accessories in the original packaging. In this way you will always have all the information and parts ready to hand.

Pack the device well or use the original packaging in order to avoid transit damage.

Always keep the machine in dry place.

## GUARANTEE

This ENERGER product carries a guarantee of 12 months.

If your product develops a fault within this period, you should, in the first instance contact the retailer where the item was purchased.

This guarantee specifically excludes losses caused due to:

- Fair wear and tear
- Misuse or abuse
- Lack of routine maintenance
- Failure of consumable items
- Accidental damage
- Cosmetic damage
- Failure to follow manufacturer's guidelines
- Loss of use of the goods This guarantee does not affect your statutory rights.

This guarantee is only valid in the UK. For any enquiries relating to the guarantee please refer to your retailer.

## ENVIRONMENTAL PROTECTION



This product is marked with the selective sorting symbol on waste electrical and electronic equipment. This means that this product should not be disposed of with household waste but must be supported by a collection system in accordance with Directive 2002/96/EC. It will then be recycled or dismantled to minimize impacts on the environment, electrical and electronic products are potentially hazardous to the environment and human health due to the presence of hazardous substances.



## PLUG REPLACEMENT (UK & IRELAND ONLY)

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:

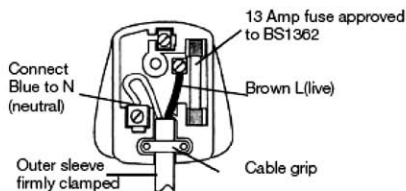
**BLUE = NEUTRAL**  
**Brown = Live**

As the colors of the wires in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows. The wire which is colored blue must be connected to the terminal which is marked with N. The wire which is colored 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 13AMP 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, Importer  
**Powersmith (UK) LTD.**  
Trade house, Mead Avenue, BA22 8RT

Declare that the product:  
**Designation: JIGSAW 550W**  
**Model: ENB454JSW**

Complies with the following Directives:  
**2004/108/EC** Electromagnetic Compatibility Directive  
**2006/42/EC** Machinery Directive  
**2006/95/EC** Low Voltage Directive  
**2011/65/EU** Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment  
**2002/96/EC and 2003/108/EC** Waste Electrical and Electronic Equipment (WEEE)

Standards and technical specifications referred to:

**EN 55014-1**  
**EN 55014-2**  
**EN 61000-3-2**  
**EN 61000-3-3**  
**EN60745-1**  
**EN60745-2-11**

Authorised Signatory and technical file holder

Date : 15/01/2013

Signature: P.C. Harries



Name / title: Peter Harries / Quality Manager  
Powersmith (UK) LTD. Trade House , Mead Avenue ,BA22 8RT

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