

# ENERGER



## SAFETY AND OPERATING MANUAL

Original Instructions 7.0

**800W BELT SANDER ENB459SDR**

# ENERGIZER

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 and instructions.

Failing to follow the warnings and instructions can result in an electric shock, a fire and/or a serious injury.

**Keep all warnings and all instructions to be able to refer to them later on.**

The term “tool” in the warnings refers to your electrical mains powered tool (with power cord) or your battery operated tool (without power cord).

### 1 Safety of the work area

- a) **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
- b) **Do not operate electric tools in explosive atmospheres, for example in the presence of flammable liquids, gases or dust.** Electric tools create sparks that can ignite the dust or fumes.
- c) **Keep children and bystanders away while operating the tool.** Distractions can cause you to lose control of the tool.

### 2 Electrical safety

- a) **The electric tool plugs must match the outlet. Never modify the plug in any way. Do not use adapters with earthed (grounded) tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
- b) **Avoid any body contact with earthed or grounded surfaces such as pipes, radiators, cookers and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose tools to rain or wet conditions.** Water entering a tool will increase the risk of electrical shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the tool. Keep the cord away from heat, lubricants, edges and moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When using a tool outside, use an extension cable suitable for outside use.** Use of a cord suitable for outside use reduces the risk of electric shock.
- f) **If use of a tool in a humid location is unavoidable, use a supply protected by a residual current differential device (RCD).** The 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 the tool. Do not use the tool when you are tired or under the influence of drugs, alcohol or medication.** One moment of carelessness while using a tool can result in serious personal injury.
- b) **Use safety equipment. Always wear eye protection.** Safety equipment such as dust masks, non-slip safety shoes, a hard hat and hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Avoid unintentional starting. Make sure that the switch is in the off position before plugging the tool into the mains and/or fitting the batteries, picking it up or carrying it.** Carrying tools with your finger on the switch or plugging in tools with the switch in the on position is a cause of accidents.
- d) **Remove any adjustment key before operating the tool.** A key left attached to a rotating part of the tool can result in personal injury.
- e) **Do not overreach. Keep a proper position and balance at all times.** This enables better control of the tool in unexpected situations.
- f) **Dress in a suitable manner. Do not wear loose clothing or jewellery. Keep hair, clothing and gloves away from moving parts.** Loose clothing, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection equipment, make sure that they are connected and used correctly.** Using dust collectors can reduce the dust-related risks.

#### 4 Use and maintenance of the tool

- a) **Do not force the tool. Use the correct tool for your application.** The correct tool will do the work better and safer in the conditions for which it was manufactured.
- b) **Do not use the tool if the switch does not make it possible to change from the operating condition to stop and vice versa.** Any tool which cannot be controlled by the switch is dangerous and should be repaired.
- c) **Disconnect the power cord before any adjustment, changing an accessory or before storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- d) **Keep idle tools out of the reach of children and do not allow persons unfamiliar with the tool or these instructions to operate it.** Tools are dangerous in the hands of untrained users.
- e) **Maintain the tool. Check that there is no misalignment or obstruction of the moving parts, broken parts or any other condition that could affect the operation of the tool. In the event of damage, have the tool repaired before using it.** Many accidents are due to badly maintained tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the tool, accessories and blades etc., in accordance with these instructions, while taking into account the work conditions and the work to be done.** The use of the tool for operations other than those intended could result in dangerous situations.

#### 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.

### SPECIAL SAFETY INSTRUCTIONS

1. This tool is not suitable for wet sanding. Never use the water during working! And never use the sanding sheet suitable wet sanding.
2. Never use the same sanding sheet for wood and metal. Please make sure the sanding sheet can be used in working price.
3. Do not touch the moving sanding sheet.
4. Do not continue to use worn, torn or heavily clogged sanding sheets.
5. Do not work on materials containing asbestos. Asbestos is considered carcinogenic.
6. Secure the work piece (a work piece clamped with clamping devices or in a vice is held more securely than by hand).
7. Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
8. Fully unwind extension cords to avoid potential overheating.
9. 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.
10. Ensure the supply voltage is same as rating voltage.
11. The tool is double insulated for additional protection against a possible electrical insulation failure within the tool.

#### WARNING!

**When sanding wood or other flammability materials; never use the lighter or spark plug!** The dust may be explosive.



#### WARNING!

Some dust created by power sanding, sawing, grinding, drilling, 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:	
Sanding operation	Level of vibration mode sanding $a_h = 4.308 \text{ m/s}^2$
	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 sanding.

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 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 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.

### **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!

### **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.

### **Double insulation**

The tool is double insulated. This means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulation barriers between the electrical and mechanical components making it unnecessary for the tool to be earthed.

### **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 dry sanding of wood, plastic, filler and coated surfaces.

## 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 ear protection  
Wear respiratory protection  
Wear safety gloves



Double insulation Class II



Conforms to all relevant safety standards.



Warning

yyWxx Manufacturing date code:

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



## Components and controls



- 1 Sander paper
- 2 Steel base
- 3 Auxiliary handle
- 4 Speed control knob
- 5 On / off switch with lock button
- 6 Belt tracking knob
- 7 Brush cap
- 8 Dust bag
- 9 Dust bag connection nozzle

## TECHNICAL DATA

Model	ENB459SDR
Rated voltage	230-240V~50Hz
Rated power	800W
Sanding belt size	457x75mm
No load speed	100-290m/min
Weight	3.5kg

## NOISE DATA

Sound pressure level:  $L_{PA} = 91.8\text{dB (A)}$  uncertainty  $K = 3\text{dB (A)}$   
Sound power level:  $L_{WA} = 102.8\text{dB (A)}$  uncertainty  $K = 3\text{dB (A)}$

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

## ACCESSOIRES

The machine comes with the following accessories :

- 1 pc dust bag with connection nozzle
- 1 set steel base
- 1 pair carbon brush

## BEFORE USE

### Caution:

**Do not use the sander on plaster!**

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.



### WARNING

When sanding metal, sparks are generated; do not use dust box and keep other persons and combustible material from work area.

For others material, always work with the dust extraction device!

## Operating instructions

### 1. Fitting and remove sanding sheet

Change the sanding belt regularly. Do not continue to use worn, torn or heavily clogged sanding belt.

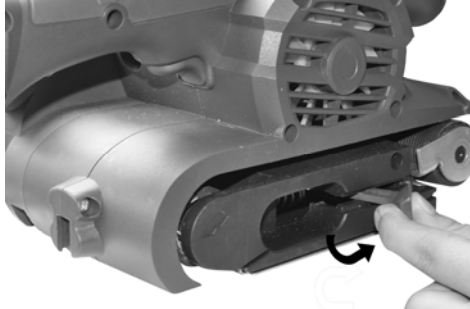


Fig.1

1. Pull out the belt tension lever. (Fig.1)
2. Remove the existing belt by sliding it along the drum roller.
3. Line up the new belt so the arrow on the underside of the belt is pointed in the same direction as the arrow on the drum roller assembly. (Fig.2)
4. Slide the belt into position over the drum roller assembly ensuring that the belt covers the rollers completely.
5. Press the belt tension lever and make sure it has been fixed in position..



Fig.2

**Caution:** Do not operate the sander unless the belt tension lever is in the locked position. Always ensure the direction of the arrow on the back of the belt corresponds with the arrow marked on the tool

**Caution:**  
**Always use the tool with the total sanding surface covered with sanding paper.**

### 2 Installing and removing the dust bag

The dust will be collected by the dust suction function during use.

To assemble the dust bag, please follow below step

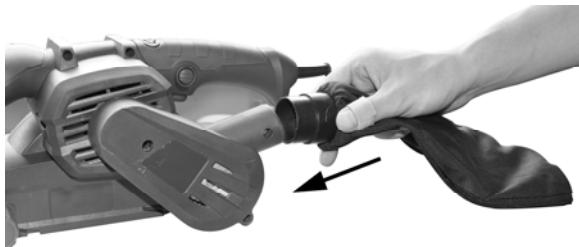


Fig.3

1. Push the dust bag connection nozzle (fitted to bust bag) firmly over the dust extraction chute.
2. Push forward until it locks in place.(Fig.3)

To remove the dust bag just pull out gently.

After emptying turn the bag inside out and shake.

**Note:** To ensure optimum dust collection, empty the dust bag at approximately 2/3 full.

#### **WARNING!**

When sanding metal, sparks are generated; do not use dust bag and keep other persons and combustible material from work area.



Fig.4

Locking button

### 3.Switching on/off

Use the On/Off trigger to start the machine and keep holding it for continuous operation.

To switch the machine off, release the On/Off trigger

Always switch the machine on before it reaches the work piece and Wait until the sander achieves its maximum speed before commencing work.

Remove the sander from the work piece before switching off

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

While working, please always hold the machine tightly at the grip area.

Don't apply too much pressure on the tool, best sanding results can be obtained by only a suitable pressure; the performance will not improve by applying more pressure on the tool.

### 4. Locking button (Fig.4)

The locking button can hold the switch on position for continuous running.

Please follow below step:

To lock the on/off switch, turn on the on/off switch and press the locking button, release the trigger.  
The sander will continue to operate until the locking button is released.

To release the on/off switch, just press it again and then release it to stop

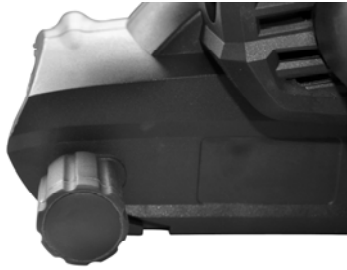


Fig.5

## 5. Speed control

The machine is equipped with a variable speed. The speed can be adjusted by turning the control knob left or right of the machine.

Turn the control knob to the left of the machine to increase speed or turn it right to reduce speed. (Fig.4)

Use the fastest speed for sanding 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!**

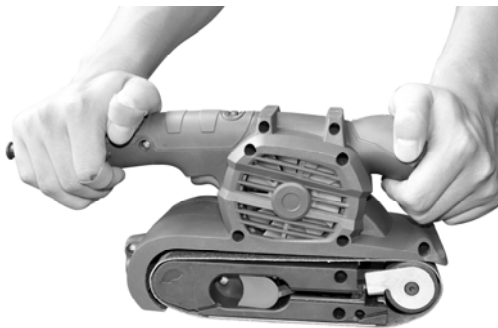


Fig.6

## 6. Tracking the sanding belt

1. Holding firmly with both hands turn the tool carefully upside down.
2. Switch on the tool.
3. Turn the belt tracking knob to align the sanding belt to the centre position over the base plate. If abrasive belt runs outward, turn tracking adjustment knob anti-clockwise and clockwise if belt runs inward.

Adjust the belt until the outer edge of the belt is even with the outer edge of the base-plate. Belt life will be greatly increased by keeping the tracking adjustment set properly.(Fig.5)

Caution: If the sanding belt is not centered correctly damage and serious personal injury could result and damage may be caused.

## 7. Sanding

1. Hold the sander firmly with both hands.(Fig.6)
2. Switch on the tool and wait a until it has reached it's full speed.
3. Keeping the sanding belt flush with the workpiece move the sander back and forth in a slow steady motion.

Caution: The belt sander will move forward rapidly when it makes contact with the workpiece. Ensure you are holding the sander firmly with both hands.



Fig.7

## 8. Installing and removing the steel base

This machine comes up with steel base to as a small operating platform.(Fig.7)

- 1.To install the steel base, make the four support led align with four ramp on the machine.
- 2.Turn the knob on the base anti-clockwise until it locks in place.
- 3.To remove the base, turn the knob on the base clockwise, and put it up gently.

## **9. REPLACING OF CARBON BRUSHES**

The carbon brushes are expendable. It is keeping abrasion during use.

The carbon brushes should be changed regularly. In order not to damage the electrical circuit, both carbon brushes should be changed at the same time.

### **CAUTION!**

The machine should be used only with both brushes!

## TERMS OF USE

When all precautions have been taken and the previous operations were done, you can start working. Always start the sander before putting it in contact with the workpiece to be sanded and stop it before it was released from the room.

Always secure the workpiece.

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.

### Warning!

#### The machine is not intended for sanding on plaster!

If the air inlet and outlet have been blocked by dust, the machine may stop working or burn during working. Please pay more attention for them during and after working.

Sanding sheet is graded based upon the number of abrasive particles per square inch that make up the sanding sheet. The lower the number, the more coarse the grit. Sanding sheet are commonly graded as coarse (40-60 grit), Medium (80-120), Fine (150-180), Very Fine (220-240), Extra Fine (280-320) and Super Fine (360 and above).

Coarse grit papers will remove material fast, and when followed by finer grit papers, makes for much easier and quicker sanding.

For better surface quality, sanding with progressively finer grits removes the scratches left by the previous paper and eventually leaves a smooth finish.

Roughly, the user can select the sanding sheet as below ways:

We are not liable for any damages occurring to material assets caused by choosing the wrong grit or wrong sanding paper.

Coarse - for removing paint; for sanding of extremely rough wood

Medium - for sanding of rough or plain wood

Fine - for smoothing of wood; for finishing of bare wood; for smoothing surfaces with old paint

## 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**

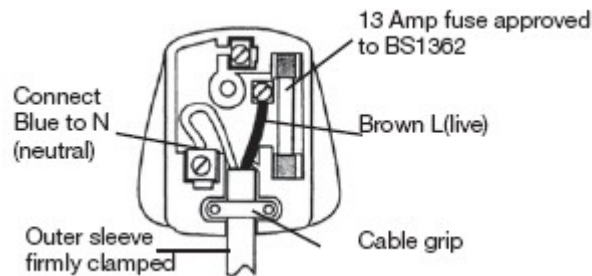
**Brown = Live**

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: BELT SANDER 800W**  
**Model: ENB459SDR**

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**  
**EN 60745-1**  
**EN 60745-2-4**

Authorised Signatory and technical file holder

Date : 07/09/2012

Signature: P.C. Harries



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

**800W BELT SANDER ENB459SDR**