

ENERGER



SAFETY AND OPERATING MANUAL

Original Instructions 14

810W 115mm ANGLE GRINDER ENB461GRD

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 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.

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

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

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

Safety Warnings Common for Grinding or Abrasive Cutting-Off Operations:

- a) **This power tool is intended to function as a grinder or cut-off tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- b) **Operations such as sanding, wire brushing, polishing are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
- c) **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- d) **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- e) **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- f) **The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool.** Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- g) **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.
- h) **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron**

capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

i) Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

J) Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

k) Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.

l) Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.

m) Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

n) Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

o) Do not operate the power tool near flammable materials. Sparks could ignite these materials.

p) Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

Further safety instructions for all operations

Kickback and Related Warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a) Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.

b) Never place your hand near the rotating accessory. Accessory may kickback over your hand.

c) Do not position your body in the area where power tool will move if kick back occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.

d) Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

e) Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

Additional safety instructions for grinding and cutting-off operations

Safety Warnings Specific for Grinding and Abrasive Cutting-Off Operations:

a) Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.

b) The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. The guard helps to protect the operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.

c) Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.

d) Always use undamaged wheel flanges that are of correct size and shape for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.

e) Do not use worn down wheels from larger power tools. Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

Additional safety instructions for cutting-off operations

Additional Safety Warnings Specific for Abrasive Cutting-Off Operations:

a) Do not “jam” the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut. Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.

b) Do not position your body in line with and behind the rotating wheel. When the wheel, at the point of operation, is moving away from your body, the possible kick back may propel the spinning wheel and the power tool directly at you.

c) When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of wheel binding.

d) Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.

e) Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback. Large work pieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

f) Use extra caution when making a “pocket cut” into existing walls or other blind areas. The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.



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, and
- 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 INFORMATION

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

Vibration total values (triax vector sum) determined according to EN 60745:	
Work mode : Face grinding	Vibration emission value $a_{h,AG} = 8.099 \text{ m/s}^2$
	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 or cutting.

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 impact 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.

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!

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. The tool is fitted with a two-core cable and plug.

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

Intended use

The machine is intended for cutting metal and stone materials without using water.

DESCRIPTION OF THE 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 Spindle lock button
- 2 On / off switch
- 3 Lower flange
- 4 Upper flange
- 5 Grinding disc guard
- 6 Auxiliary handle
- 7 Flange wrench
- 8 Cutting disc guard

TECHNICAL DATA

Model	ENB461GRD
Voltage	230-240V~50 Hz
Power consumption	810W
Rated speed	12000min ⁻¹
Max disc diameter	115mm
Disc bore size	22.2mm
Drive spindle diameter	M14
Weight	2.5kg

NOISE DATA

Sound pressure level: $L_{pA} = 90.3\text{dB (A)}$ uncertainty $K = 3\text{dB (A)}$
Sound power level: $L_{WA} = 101.3\text{dB (A)}$ uncertainty $K = 3\text{dB (A)}$

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

ACCESSOIRES

The machine comes with the following accessories :

- 1 pc Auxiliary handle
- 1 pc Hex wrench
- 1 pc Flange spanner
- 1 pc cutting disc guard
- 1 pc grinding disc guard

OPERATING INSTRUCTIONS

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.

Disc selection

Please always double check the disc and select the one which is fit for purposes.

WARNING!

NEVER USE CUTTING DISC AND GUARD FOR GRINDING OPERATION!

NEVER USE GRINDING DISC AND GUARD FOR CUTTING OPERATION!



Cutting disc guard



Grinding disc guard



Fig.1



Fig.2



Fig.3

1 DISC GUARD

CAUTION! For both cutting and grinding, the appropriate guard must be used.

The position of the disc guard can be adjusted to suit the working conditions.

To do this, please follow below steps:

1. Loosen the hexagon bolt with the hex wrench.(Fig.1)
2. Turn the guard to the desired position.(Fig.2)
3. Retighten the screw firmly.



WARNING

The closed disc guard should always point towards the user to protect him from sparks and chippings

2. REMOVING THE GUARD

Never remove the guard for any working conditions.

To remove it, take off the disc and both flanges first. Loose the hexagon bolt with the hex wrench and rotate the guard to align the projections with the gear case cut outs, and then remove the guard.

To re-fit the guard, repeat this process in reverse. Keep all parts in a safe place

3. AUXILIARY HANDLE

CAUTION! The machine should only be used with both hands.

Depending on the working method, the Auxiliary handle can be mounted in two different positions on the grinding head.(Fig.3)

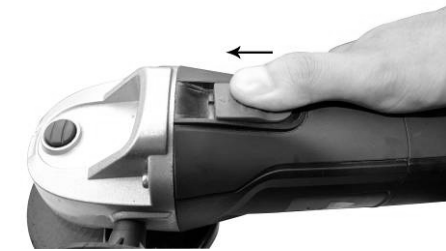
Do not continue to use an auxiliary handle if it is damaged.



4. ON/OFF SWITCH

Use the On/Off switch and switch lock to start the machine and keep holding it for continuous operation. The machine can only be started by depressed the switch lock first to preventing any unintentional operation.(Fig.4)

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



VIBRATING DISCS MUST BE REPLACED IMMEDIATELY.

Please always keep other persons and combustible material from work area.

Please always make sure work with guard and disc in position before start the machine.

Fig.4



5. MOUNTING DISC (Fig.5)

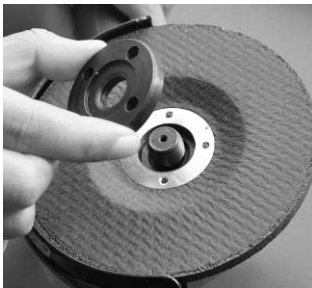
Depending on the working condition, always select a suitable type and thickness of the disc.

The mounting hole of disc must fit with the mounting flange. Do not use reducers or adapters.

CAUTION!

Never use discs whose diameter is larger than that indicated.

The maximum rotation speed of disc must be greater than the rated speed of the machine.



WARNING: Only use discs with a diameter of 115mm, bore size 22.5mm and with a max speed of 12000min⁻¹

To assemble the disc, press the spindle-lock button in deep and hold it in this position continuously. If necessary, turn the spindle slightly with the free hand until it locks into position.

The inner flange is located over the spindle and on the two spindle flats. Locate the disc onto the inner flange and then the outer flange is screwed on to the spindle. Check the disc rotates freely and is securely clamped.

CAUTION!

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.5

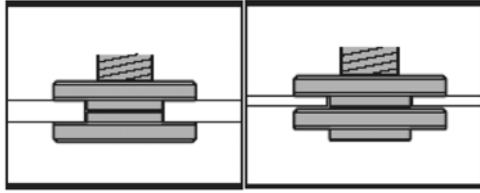


Fig.6

6. ADJUSTABLE OUTER FLANGE CLAMPING

The outer flange should be adjusted to suit different disc thickness. For thinner cutting discs the raised part of the outer flange is fitted facing away from the disc. For thicker grinding discs the raised part of the outer flange is fitted facing towards the disc to provide improved support for the disc hole. Always ensure your disc is securely clamped.(Fig.6)

7. REMOVING DISC

To remove the disc, press the spindle-lock button in deep and hold it in this position continuously. If necessary, turn the spindle slightly with the free hand until it locks into position.

Loose the flange with the spanner provided and then removes the disc from spindle.

CAUTION!

Check the diameter of disc regularly during use. If it is less than 80mm, replace it!

WORKING ADVICE

After heavily straining the power tool, continue to run it at no-load for several minutes to cool down the cutting/grinding tool.

Grinding and cutting discs become very hot while working; do not touch until they have cooled.

Do not use the power tool with a cut-off stand.

Don't use the machine near inflammable materials, the flying sparks are very hot and could cause fire or personal injury.

Always hold the machine so, that the disc is perpendicular to the workpiece. Avoid the disc to jam. A jammed or blocked disc may crack and cause serious injuries to the user and third persons.



WARNING

Don't apply heavy pressure to the machine.

Best grinding and cutting results can be obtained by only a slight pressure on the tool; Forcing and excessive pressure will damage the disk and cause serious personal injury.

INSTRUCTION FOR ABRASIVE WHEELS AND DISCS

Abrasive wheels should not be mounted on makeshift apparatus. They should be mounted on the type of machine for which they are intended. These appear to be obvious precautions, but accidents still occur because wheels are mounted on home-made or improvised apparatus quite unsuitable for the work. Likewise, accidents are caused by heavy wheels being fitted to spindles designed to take only the lightest of wheels. As a result, vibration is excessive and breakages occur. On no account should an abrasive wheel be screwed on to the tapered spindle of a buffing machine. This dangerous method of mounting is likely to result in the breaking of the wheel owing to the wedging action of the tapered spindle.

The new wheels should be carefully unpacked, cleaned with a brush and examined for possible damage in transit. In unpacking, the careless use of a tool may cause damage to the wheel. The soundness of wheels can be further checked by tapping them with a light, non-metallic implement. This is known as the 'ring' test. Wheels must be dry and free from sawdust for the ring test otherwise the sound will be deadened. It should also be noted that organic bonded wheels do not emit the same clear metallic ring as inorganic bonded wheels. Heavy wheels should be supported on a clean hard floor for the ring test while light wheels should be suspended from their hole on a finger or small pin. If the wheel sounds dead, for example due to cracking, it should not be used.

All abrasive wheels are relatively fragile. It should not be assumed that organic bonded wheels (resin, shellac, rubber) will stand rough handling.

As the wheel wears down in use, the effective peripheral surface speed will reduce if the rotational speed remains constant and may result in a reduced grinding efficiency. To make sure the machine work smoothly, the wheel should be replaced with the maximum size less than 80 mm.

TERMS OF USE

When all precautions have been taken and the previous operations were done, you can start working. Always start the angle grinder 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.

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.

Instruction for abrasive wheels and discs

Stack and support wheels carefully on trucks so that they will not topple over and be damaged. Do not pile heavy castings or tools on top of abrasive wheels.

Suitable racks, bins or compartmented drawers should be provided to accommodate the various types of wheels used. Most plain and tapered wheels are best supported on their edges or on a central support.

To minimise deterioration, wheels must be stored in a room which is dry and not subject to extreme temperatures. It is recommended that wheels should be marked with the date they are received from the supplier. Older wheels should be issued before newer wheels and if there is any doubt, or if wheels have been in stock for more than three years, the manufacturer should be consulted about their suitability for use.

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 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

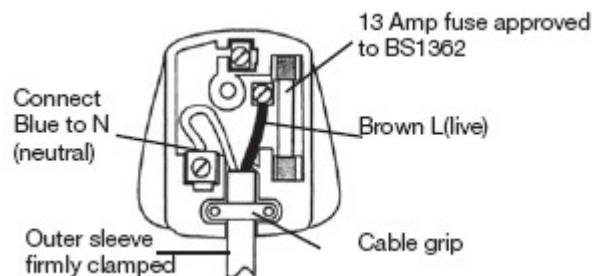
Brown = Live

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: ANGLE GRINDER 810W
Model: ENB461GRD

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 60745-2-3

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