ENERGER

1 YEAR GUARANTEE

SAFETY AND OPERATING MANUAL

Original Instructions V1.0

1400W MITRE SAW ENB475MSW

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.

1400W MITRE SAW ENB475MSW

GENERAL SAFETY INSTRUCTIONS

⚠ WARNING! When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following.
Read all these instructions before attempting to operate this product and save these instructions.

1. Keep work area clear.
- Cluttered areas and benches invite injuries.
2. Consider work area environment.
- Do not expose tools to rain.
- Do not use tools in damp or wet locations.
- Keep work area well lit.
- Do not use tools in the presence of flammable liquids or gases.
3. Guard against electric shock.
- Avoid body contact with earthed or grounded surfaces (e.g. Pipes, radiators, ranges, refrigerators, other metal surfaces).
4. Keep other persons away.
- Do not let persons, especially children, not involved in the work touch the tool or the extension cord and keep them away from the work area
5. Store idle tools.
-When not in use, tools should be stored in a dry locked-up place, out of reach of children.
6. Do not force the tool.
- It will do the job better and safer at the rate for which it was intended.
7. Use the right tool.
- Do not force small tools to do the job of a heavy duty tool.
- Do not use tools for purposes not intended; for example do not use circular saws to cut tree limbs or logs.
8. Dress properly.
- Do not wear loose clothing or jewellery, they can be caught in moving parts.
- Non-skid footwear is recommended when working outdoors.
- Wear protective hair covering to contain long hair.
9. Use protective equipment.
- Use safety glasses.
- Use face or dust mask if working operations create dust.
10. Connect dust extraction equipment.
- If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.

11. Do not abuse the cord.
- Never yank the cord to disconnect it from the socket Keep the cord away from heat, oil and sharp edges.
12. Secure work.
- Where possible use damps or a vice to hold the work. It is safer than using your hand.
13. Do not overreach.
- Keep proper footing and balance at all times.
14. Maintain tools with care.
- Keep cutting tools sharp and clean for better and safer performance.
- Follow instruction for lubricating and changing accessories.
- Inspect tool cords periodically and if damaged have them repaired by an authorised service facility.
- Inspect extension cords periodically and replace if damaged.
- Keep handles dry, clean and free from oil and grease.
15. Disconnect tools.
- When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.
16. Remove adjusting keys and wrenches.
- Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
17. Avoid unintentional starting.
- Ensure switch is in “off” position when plugging in.
18. Use outdoor extension leads.
- When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.
19. Stay alert.
- Watch what you are doing, use common sense and do not operate the tool when you are tired.
20. Check damaged parts.
- Before further use of tool, it should be carefully checked to determine that it will operate properly and perform its intended function.
- Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation.
- A guard or other part that is damaged should be properly repaired or replaced by an authorised service centre unless otherwise indicated in this instruction manual.
- Have defective switches replaced by an authorised service centre.
- Do not use the tool if the switch does not turn it on and off.
21. Warning.
- The use of any accessory or attachment other than one recommended in this instruction

manual may present a risk of personal injury.
22. Have your tools repaired by qualified person.
- This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

SPECIAL SAFETY INSTRUCTIONS

1.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.
2. Only wood or products such as medium density fibre board can be cut with this saw. Other materials may shatter or cause the blade to grab.
3. Never fit substandard blades to the saw. Only fit correctly sized saw blade.
4. Let the blade reach full speed before commencing the cut.
5. Do not use damaged or worn blades.
6. Ensure that the directional arrow marked on the blade corresponds with the rotational direction of motor.
7. Ensure that the movable guards operate freely without jamming.
8. Never cut pieces too small to be held securely against the straight guide leave enough space for the hand to be a safe distance from the blade.
9. Regularly check the blade securing bolt.
10. Do not run the machine with any part of the casing missing or damaged.
11. Do not start the saw when the blade is inserted into the workpiece.
12. Let the blade come to a complete stop before removing any jammed or offcut material from around the blade area. Do not attempt to stop the blade by placing sideways pressure on the blade disc.
13. Before cutting let the saw blade run freely for a few seconds. If it makes an unfamiliar sound or vibration switch it off immediately and disconnect from the power supply. Investigate cause or consult your dealer.
14. Ensure all securing clamps are tight and check for excessive play.
15. Never try to cut freehand. Always ensure that the workpiece is securely pressed against the straight guide and table support surface.
16. Disconnect from the mains supply, pull down the handle of the saw. With the blade in its furthest down position, rotate the blade by hand to ensure it is free from obstruction. Repeat this procedure at all maximum mitre and bevel positions before commencing work.
17. Ensure that the workpiece to be cut off has sufficient room to move sideways. Failure to do so may result in the off cut binding against the blade.
18. Ensure that irregular or round piece to be cut off has sufficient room to move or twist so that they cannot pinch the blade.

19. Do not forget to remove any adjustment keys, spanners and wrenches before switching on the tool.
20. When the machine is in operation, keep hands away from the cutting area.
21. Always ensure the safety guard is in working order before use. Should the guard not close quickly over the saw blade, do not use.
22. Do not tie or wedge open the safety guard.
23. Only use blades with the correct bore size for the spindle.
24. Do not use saw blade which does not comply with the characteristics specified in these instructions.
25. Do not use saw blades made of high speed steel.
26. Do not cut into screws or nails. Inspect workpiece for nails and screws before use.
27.Use a Residual Circuit Breaker on all 230-240V Power tools. This can help minimise the risk of an electrical shock if an earth fault or short circuits occurs.
28. If using a power cable extension ensure that the cable is fully unwound and that its length is less than 30m. Lengths over 30 m will effect the tools performance as a result of voltage drop.
29. Always use the appropriate safety equipment that is required for the product. e.g. Goggles / Safety Spectacles, Ear defenders (essential with tools with a noise rating of over 80 dB(A), Gloves and face masks. In all cases ensure that the safety equipment is in good condition.
30.Ensure that there is adequate general or localised lighting.
31.Ensure that the machine is always fixed to a bench, whenever possible. Always to clamp work pieces to the saw table.
32.Always stand to one side when operating the saw.
33.Use only blades as recommended by the manufacturer and which conform to EN 847-1.
34.If the table insert is damaged or worn, have it replaced by an authorised service centre.
35. Rags, cloths, cord and string and the like should never be left around the work area.
36. Only use the saw with guards in good working order and properly maintained, and in position.
37. Keep the floor area free of loose material e.g. chips and cut-offs.
38. Ensure the speed marked on the saw blade is at least equal to the speed marked on the saw
39. Warning. Refrain from removing any cut-offs or other parts of the work piece from the cutting area whilst the machine is running and the saw head is not in the rest position.
40.The mitre saw can be safely carried by the carrying handle but only once it has been removed from the mains power and secured in the locked down position.
41. Ensure that the arm is properly secure when bevelling.
42. When cutting long pieces which extend well over the table width, ensure that the ends are adequately supported at the same height as the saw table top. Supports should be positioned in such a way to ensure that the workpiece does not fall to the ground once the

NOISE INFORMATION

Wear hearing protection!

Measured sound values determined according to EN 61029.
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 enablethe 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.

Vibration total values (triax vector sum) determined according to EN 61029:	
Cutting into wood	Vibration emission value ah = 2.382 m/s² Uncertainty K = 1.5 m/s²

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 aboveand 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 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 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. Fastv 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 identity 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 / battery pack before carrying out any adjustment or servicing.

Intended use

The machine is intended as a stationary machine for making straight lengthways and crossways cuts in wood. Horizontal mitre angles of -45° to +45° as well as vertical bevel angles of 0° to +45° are possible.

SYMBOLS


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


Wear gloves protection


Warning


Wear ear protection


Wear eye protection


Wear respiratory protection

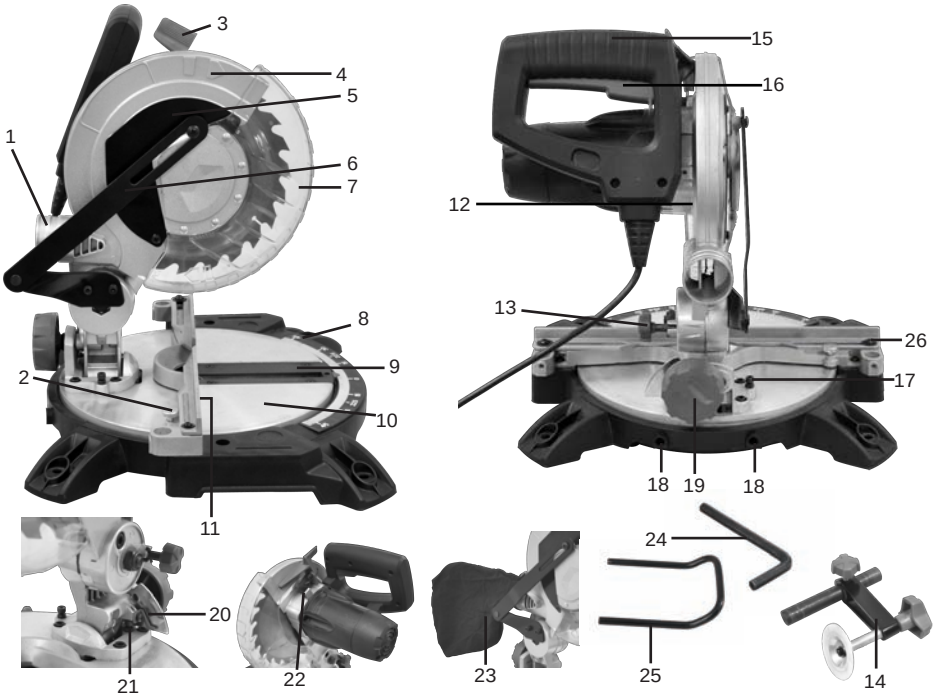

Double insulated for additional protection.


Conforms to relevant safety standards


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.

yyWxx Manufacturing date code:Year of manufacturing (20yy) and week of manufacturing (Wxx);

Components and controls



1 Dust extraction port
2 Mitre lock
3 Release latch
4 Upper fixed blade guard
5 Blade bolt cover
6 Guard retraction arm
7 Low blade guard
8 Mitre scale
9 Table insert
10 Mitre table
11 Fence
12 Saw arm
13 Release knob
14 Vertical clamp
15 Handle
16 Switch trigger
17 45°Bevel adjustment screw
18 Support bar location holes
19 Bevel lock
20 Bevel scale
21 0°Bevel adjustment screw
22 Spindle lock button
23 Dust bag
24 Hex key
25 Support stand
26 Fence locking screw

TECHNICAL DATA

Voltage:	**230-240V ~ 50Hz**
Input power:	**1400W**
No load speed:	**5000/min**
Blade diameter:	**Ø210mm**
Blade teeth:	**24TCT**
Blade arbour:	**Ø30mm**
Mitre table angles:	**-45°/0°/+45°**
Straight cut at 0° x 0°:	**120×55 mm**
Mitre cut at 45° x 0°:	**83×55 mm**
Bevel cut at	
0°x 45°(Left):	**120×30 mm**
Compound mitre cut at	
45°x 45°(Left):	**83×30 mm**
Weight:	**6.7kg**
A new section for Noise level and vibration data shall be on vibration section	
NOISE INFORMATION	
Sound pressure level	**LpA= 100dB(A) Uncertainty K=3dB**
Sound power level	**LwA = 113dB(A) Uncertainty K=3dB**
Wear ear protection when sound pressure is over 80dB(A)	

ACCESSORIES

This COMPOUND MITRE SAW comes with the following accessories:
- 24 Teeth blade (fitted)
- Dust bag
- Workpiece clamp
- Support stand
- 6mm Hex key

ASSEMBLY

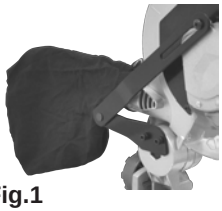


Fig.1

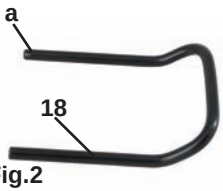


Fig.2

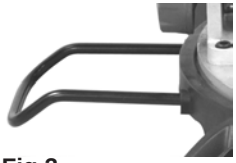


Fig.3

Fig.4

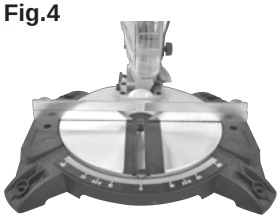


Fig.5

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

WARNING: To prevent the accidental starting that could cause possible serious personal injury, ALWAYS assemble all parts to your saw BEFORE connecting it to the power supply. The saw should NEVER be connected to a power supply when you are assembling parts, making adjustments, installing or removing blades, or when not in use.

1. DUST EXTRACTION PORT (Fig. 1)
To reduce build up of saw dust and maintain top efficiency of cutting, the saw dust collection can be achieved by clipping a dust bag on the dust extraction port.
A dust bag is provided for use on your mitre saw. To install it, simply fit the dust bag over the extraction port on the upper blade guard.
To empty the dust bag, remove it from the dust exhaust port, open the dust bag by unzipping the slide fastener.
NOTE: To ensure optimal dust collecting, empty the dust bag when it becomes filled to approximately 2/3 of its capacity.

2. SUPPORT STAND (Fig. 2-4)
Remove the screw (a) from support stand(18). Insert ends of support stand into the holes in the back of the base plate and screw in the screw on support stand as shown in Fig.2,3 & 4.
WARNING: Always assemble the support stand when using the product.

3. MOUNTING HOLES (Fig. 5)
Before use, the saw can be fixed to a firm, level surface with the 4 mounting bolts (Not supplied).

Fig.6

Four holes are provided in the base of the saw to enable it to be fixed to a bench, or other supporting surface.
To mount the saw, proceed as follows:
1) Locate and mark where the saw is to be mounted.
2) Drill 4 holes through the surface.
3) Place the mitre saw on the surface aligning holes in base with holes drilled in the surface. Install bolts, washers and hex nuts.

4. Workpiece clamp (Fig.6)

When cutting workpiece, the boards should always be clamped with a hold-down clamp (provided) as shown in Fig.6.

OPERATION

Fig.7

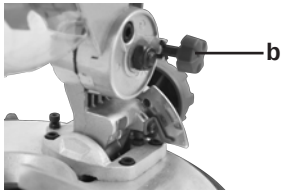


Fig.8

Fig.9

1. RELEASING THE SAW HEAD (Fig.7, 8)

When boxed or during storage, transportation, the saw head is locked in the down position. To release the head ready for operation, apply downward pressure and pull out the lock pin (b). The head will be raised gently to upper position.

2. TO MAKE A CUT (Fig. 9)

1) Connect the machine to power outlet, ensure that the mains cable is clear of the blade and the base plate.
2) Position the material to be cut on the rotary table, ensure it is firmly held so that it will not move during cutting.
Ensure that the rotary table locking screws(17) and the bevel lock (19) are tightened before cutting.
3) Press the switch trigger (16) and allow the saw blade to run up the speed.
4) Still holding in the trigger, press the safety release latch (3) towards the handle. It will then be possible to push the saw head down by the handle.
5) Continue to move the saw head down smoothly and make the cut exerting only gentle pressure on the downward stroke, letting the saw do the work.

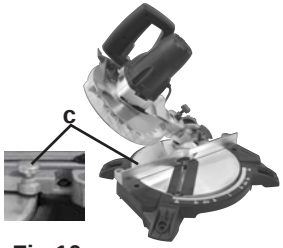


Fig.10

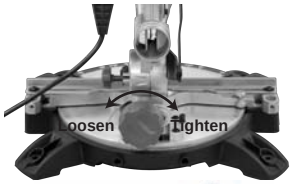


Fig.11

Fig.12

3. MITRE CUTS (Fig. 10)
A mitre cut is made at 0° bevel and any mitre angle in the range from 45° left to 45° right.
Release the rotary table locking screw (c). Move the saw to the desired angle by twisting so that the table turns. Set at the desired angle, and tighten the rotary table lock screw (c). Make your cut.

4.BEVEL CUTS (Fig. 11, 12)
A bevel cut is made at 0° mitre and any bevel angle in the range of 0° to 45° right.
The saw can be moved from the normal 0° perpendicular position to an angled position down to 45° from the horizontal, on the left only.

5. COMPOUND ANGLE CUTS (Fig. 10)
A compound cut is a cut requiring both a mitre setting and a bevel setting.
Compound mitre cuts can be achieved by setting both the mitre and bevel angles simultaneously. Follow the procedures for mitre and bevel cuts to achieve the desired angles.

6. The sliding upper fence section (Fig. 10)
The left hand side of the fence may be necessary to provide clearance for the moving cutting head when actual bevel or compound angles are selected.
To adjust the fence:
Loosen the fence locking screw(26) by provided hex key. Slide the upper section of the Fence leftwards to the required position and tighten the screw(26).
Note: Conduct a 'dry run' with the power off to confirm that there is no interference between moving parts as the Cutting Head is lowered.

MAINTENANCE

WARNING: Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
When all the adjustments, settings or maintenance have been done, make sure that all keys and

Fig.13

Fig.14

Fig.15

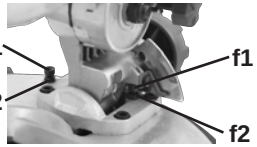


Fig.16

Fig.17

wrenches have been removed and that all screws, bolts and other fittings are securely tightened.
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 and will not damage your power tool.
If the supply cord of this power tool is damaged, it must be replaced by a specially prepared cord available through the service organization.

1. PRECISION SETTING OF ANGLES (Fig. 13-14)

While the machine has been factory set, it is advisable that the 0° setting of the rotary table and the 0° perpendicular setting of the tilt be checked, as these positions may have moved in transit. (Ensure power is disconnected while making these adjustments).
To confirm the 0° rotary table setting, set the rotary table at 0° and tighten the rotary table locking screw. Check that the angle between the straight guide and the blade is 90° using a try square (d, not supplied) as shown in **Fig.13**.
If the angle requires adjustment, loosen the locking screws (e) for straight guide, and align the fence against the try square.
Re-tighten the locking screws (e) for straight guide.
Similarly, check that the angle of the blade to the face of the rotary table is 90°. If necessary, adjust the tilt angle of the saw head at the 90° position by loosening the set screw (f1) for 90°. When the 90°position is correct, tighten the lock nut (f2) on the set screw for 90°. **(Fig. 15, 16)**
The 45° bevel tilt should also be adjusted use a 45° set square or mitre gauge (d , not supplied), to check the 45° angle, adjust the set screw (g1) for 45° to set the correct stop position, then tighten

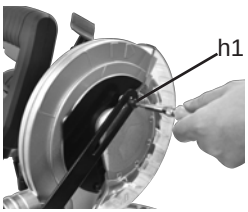


Fig.18

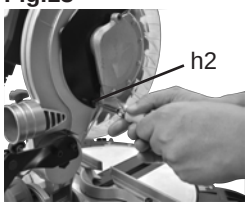


Fig.19

Fig.20

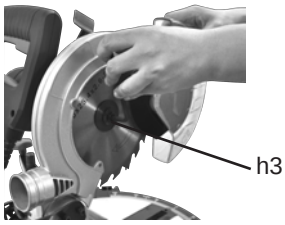


Fig.21

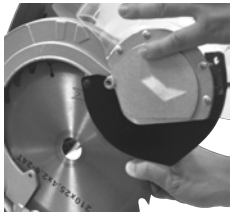


Fig.22

the locknut (g2) on the set screw for 45°.
(Fig. 16,17)

2. CHANGING THE SAW BLADE(Fig. 18-22)

NOTE: Blade securing bolt has a left hand thread. Remove the blade, (we recommend the use of a stout glove for this). Clean any saw dust and debris from the arbor and saw blade securing flanges.

1.Release the screw (h1) to remove the guard retraction arm (6).**(Fig. 18)**

2.Release the screw(h2).**(Fig. 19)**

3.Press the spindle lock button (22), and use the provided hex key (24) to release the screw (h3) at the same time.**(Fig. 20)**

4.release the blade.**(Fig. 21,22)**

To refit the blade, follow the above procedure in reverse order. If you want to take the inner flange out for cleaning, refit it as shown in Fig.23.

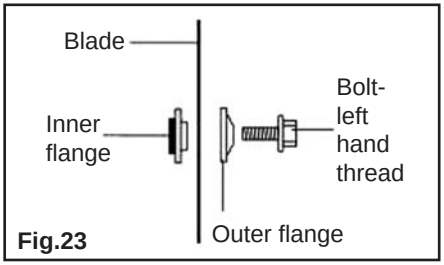


Fig.23

CAUTION: ALWAYS install the blade with the blade teeth and the arrow printed on the side of the blade pointing down at the front of the saw. The direction of blade rotation is also stamped with an arrow on the upper blade guard.

3. MOVING THE SAW

1. When transporting the saw with fixed locations, make sure that the saw head is locked in the lower position.

2. The rotary table locking knob, the bevel lock knob must all be securely tightened.

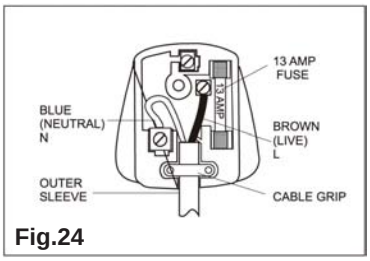


Fig.24

3. Use the transportation handle to lift the saw. Do not lift the saw by the switch handle.

4. PLUG REPLACEMENT (Fig.24)

Your Power Tool is supplied with a fitted plug, however if you need to fit a new plug follow the instruction below.

IMPORTANT

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

Blue = Neutral Brown = Live

As the colours 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 the letter L .

If a 13 AMP (BS 1363/A) Plug is used, a 13 AMP Fuse must be fitted, or if any other type of plug is used a 13 AMP Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.

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.

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

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 2012/19/EU. It will then be recycled or dismantled to minimise impacts on the environment, electrical and electronic products are potentially hazardous to the environment and human health due to the presence of hazardous substances.

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.

ENERGER

Declaration of Conformity

We, Importer
Powersmith Ltd., BA22 8RT

Declare that the product
1400W MITRE SAW
ENB475MSW

Complies with the following Directives:

Machine Directive **2006/42/EC**
and/or Low voltage directive **2006/95/EC**
EMC directive **2004/108/EC**

2011/65/EU Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment
2012/19/EU Waste Electrical and Electronic Equipment (WEEE)

Standards and technical specifications referred to:

EN61029-1: 2009
EN61029-2-9: 2002
EN55014-1: 2006+A1
EN55014-2: 1997+A1+A2
EN61000-3-2: 2006+A1+A2
EN61000-3-3: 2008

Authorised Signatory and technical file holder
Date: 20/09/12
Signature: P.C.Harries
Name: Peter Harries
Powersmith Ltd. Trade House , Mead Avenue ,BA22 8RT
Quality Manager

CE
2012

1400W MITRE SAW ENB475MSW