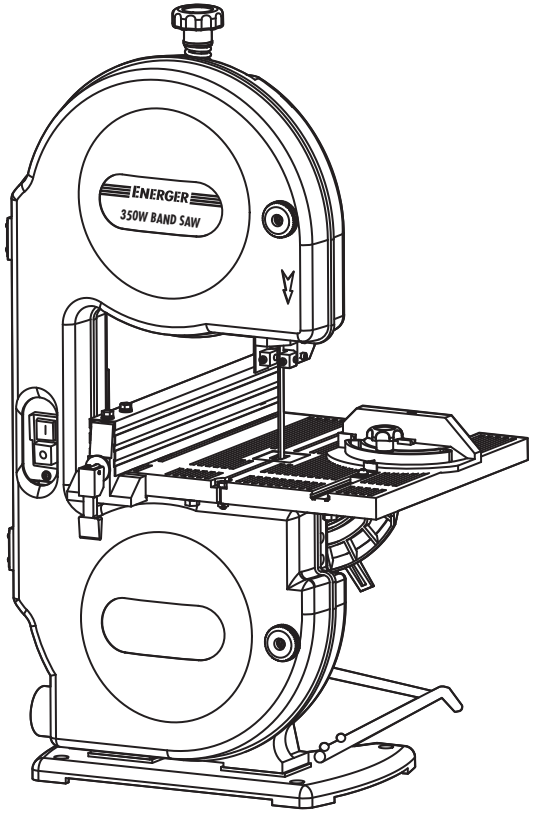
350W Band Saw



ENB542BDS

Barcode: 5052931253678

WARNING! Read the instructions before using the product!

Original Instructions_MNL_ENB542BDS_GB_V01_130720

Thank you for choosing a product ENERGER it will give you full satisfaction in your craft in the work.
The band saw is a product easy to use, it comes with accessories. For best use, you must read this noice. It will provide key information on the functions of the device and the rules to follow for maintenance.
Please keep this manual for future reference later.

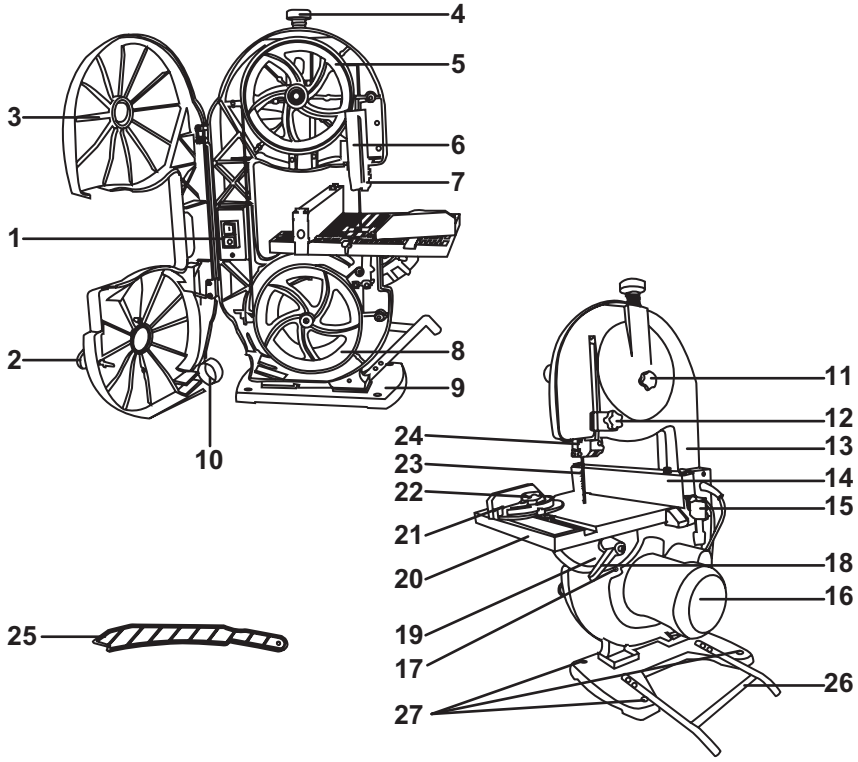
Let's get started…

These instructions are for your safety. Please read through them thoroughly before use and retain them for future reference.

Getting started... 03

In more detail... 22

Your product



1. On/Off switch
2. Fixing knob
3. Side cover
4. Blade tension knob
5. Upper band pulley
6. Saw blade guide
7. Upper blade guide
8. Lower blade pulley
9. Base
10. Dust extraction port
11. Setting screw for upper band pulley
12. Setting knob for blade guide
13. Machine frame
14. Rip fence
15. Rip fence locking handle
16. Motor
17. Angle scale pointer
18. Fixing handle for table
19. Dial scale for tilt angle
20. Work table
21. Mitre guage
22. Fixing knob
23. Saw blade
24. Fixing screw for band guide
25. Push stick
26. Additional support
27. Mounting holes

Technical specifications

General

>	**Input Voltage**	: 230-240V~50Hz
>	**Power Input**	: 350W
>	**No load speed**	: 1450min^{-1}
>	**Max. cutting depth**	: 80mm
>	**Max. cutting width**	: 190mm
>	**Table size**	: 300x300mm
>	**Table tilting range**	: 0°~45°
>	**Saw line speed**	: 14.7m/s
>	**Blade Length**	: 1425mm
>	**Width**	: 6.35mm
	Teeth	: 6TPI
	Thickness	: 0.3mm
>	**Net Weight**	: 17kg

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

Sound level according to EN 61029	Sound pressure level L_{pA} : 86.3dB(A)
	Sound power level L_{WA} : 99.3dB(A)
	Uncertainty K_{pA}, K_{WA} : 3dB(A)
Wear ear protection when sound pressure is over	85dB(A) 
Vibration total values (triax vector sum) determined according to EN 61029:	
Work mode description 1 (if required by the relevant Part 2)	Vibration emission value a_h = 3.0m/s^2
	Uncertainty K = 1.5m/s^2

The declared vibration emission value should be used as a minimum level and should be used with the current guidance on vibration.
Calculating the actual period of the actual period off use can be difficult and the HSE website has further information.

The declared vibration emission been measured in accordance with a standardised test stated above and may be used to compare one tool with another.
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 dependant on the following examples and other variations on how the tool is used:
How the tool is used and the materials being cut or drilled.
The tool being in good condition and well maintained.
The use the correct accessory for the tool and ensuring it is sharp and in good condition.
The tightness of the grip on the handles.
And the tool is being used as intended by its design and these instructions.

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

Warning! 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).Note The use of other tools will reduce the users' total working period on this tool.

Helping to minimise your vibration exposure risk.
ALWAYS use sharp chisels, drills and blades.
Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate)
Avoid using tools in temperatures of 10ºC or less.
Plan your work schedule to spread any high vibration tool use across a number of days.
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.

Important note

Remove the mains plug from socket before carrying out any adjustment or servicing.
Ensure your mains supply voltage is the same as your tool rating plate voltage.

Symbols

On the product, the rating label and within these instructions you will find among others the following symbols and abbreviations.
Familiarise yourself with them to reduce hazards like personal injuries and damage to property.

V~	Volt	Hz	Hertz
W	Input power	kg	Kilogram
min^{-1}	Per minute	dB(A)	Decibel (A-rated)

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

 Caution / Warning.

 Wear hearing protection.

 Read the instruction manual.

 Wear eye protection.

 Wear gloves.

 Wear respiratory protection.

 Switch the product off and disconnect it from the power supply before assembly, cleaning, adjustments, maintenance, storage and transportation.

CE The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.

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

Safety warnings

GENERAL SAFETY INSTRUCTIONS

WARNING! To ensure safe operation when using your Band Saw, make sure you follow basic safety principles to reduce risk of personal injury, electric shock and fire. Please read the following instructions prior to operating this product and keep for future use.

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).
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 clamps 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 tool repaired by a 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.

23. If the replacement of the supply cord is necessary, this has to be done by

23. If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

24. For tools intended to be connected to a water supply.

> For tools provided with a PRCD: Never use the tool without the PRCD delivered with the tool.

> For tools provided with an isolating transformer: Never use the tool without the transformer delivered with the tool or of the type as specified in these instructions.

> Replacement of the plug or the supply cord shall always be carried out by the manufacturer of the tool or his service organisation.

> Keep water clear off the electrical parts of the tool and away from persons in the working area.

HEALTH ADVICE

Warning! When drilling, sanding, sawing or grinding, dust particles will be produced. In some instances, depending on the materials you are working with, this dust can be particularly harmful to you (e.g. lead from old gloss paint). You are advised to consider the risks associated with the materials you are working with and to reduce the risk of exposure. You should:

- Work in a well-ventilated area.
- Work with approved safety equipment, such as those dust masks that are specially designed to filter microscopic particles.

ADDITIONAL SAFETY INSTRUCTIONS FOR YOUR BAND SAW

Warning! Some wood and wood type products especially MDF (Medium Density Fibreboard) can produce dust that can be hazardous to your health. We recommend the use of an approved face mask with replaceable filters when using this machine in addition to using the dust extraction facility.

1. Safety precautions

> Do not use saw blade which are damaged or deformed;

> Replace the table insert when worn;

> Lock the work table firmly before operation;

> Tension the saw blade properly;

> Do not clean the saw band whilst it is in motion;

> Wear suitable personal protective equipment, when necessary, this could include:
  - Hearing protection to reduce the risk of induced hearing loss,
  - Respiratory protection to reduce the risk of inhalation of harmful dust,
  - Gloves for handling the saw band and rough material.

Note: It is not advisable to wear gloves when feeding material through the machine.

> Always ensure that the adjustable blade guard is as close to the work piece as possible.
> Always ensure that all adjustments are correct and secure before starting the band saw.
> Always ensure that the blade tension and tracking are set correctly.
> Avoid cutting nails. Inspect the workpiece and remove all nails and other foreign objects before beginning sawing.

2. Safe operation

> When ever possible the band saw should be connected to a suitable dust extraction system when cutting timber or timber based products such as MDF.
> When straight cutting always use the push stick provided. This will prevent hands from contacting the blade. Store the push stick on it's holder after use.
> This saw must be attached to a solid secure work surface by means of the fixing holes in the base.
> Never adjust or assemble the rip fence or mitre gauge when the machine is working;
> When the workpiece is near to the saw blade, never use your hand to push it. Always use the push stick provided (See 25 on main diagram)
> Never tension the saw blade when working;
> If need to adjust the blade guide, stop the machine first.
> Do Not Operate the bandsaw with the door or guard protecting the band saw blade open, damaged or is missing. Always ensure that the bandsaw blade selected and the operating speed is suitable for the material being cut.
> Always support long lengths of material and ensure that the material is held flat against the table. This will help to reduce noise levels due to vibration.
> When bevel cutting with the table inclined place the guide fence on the lower part of the table.
> When cutting round material, use a suitable holding device to prevent the material from twisting.
> Never use your hands to remove sawdust, chips or waste close by the saw blade.
> Never reach over the blade to remove waste or off cuts.
> Do not attempt to free a jammed blade before first switching off the machine.
> Do not slow or stop a blade with a piece of wood. Let the blade come to rest naturally.
> If you are interrupted when operating the saw, complete the process and switch off before looking up.

3. Transportation

> During transportation ensure that the adjustable blade guard is in the fully down position.

> Do not use any guard or protection device as a hand hold when carrying or transporting the band saw. Lift and transport the band saw at position indicated.

4. After use

> After use and before storage clean the machine thoroughly and release the blade tension.

> Periodically check that all nuts, bolts and other fixings are properly tightened.

Unpack

> Unpack all parts and lay them on a flat, stable surface.
> Remove all packing materials and shipping devices if applicable.
> Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
> Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

You will need

(items not supplied)
> Suitable personal protective equipment
> Phillips screwdriver
> Combination square
> 10mm Spanner

(items supplied)
> 3, 4, 5mm Hex keys (3pcs)

WARNING! Before using your band saw, read the instruction manual carefully.

Condition of use

> The saw should be placed in a covered and dry place. The ambient temperature must be between-15°C to + 35°C. The humidity should be below 60%.
> Make sure the machine stands securely, i.e. bolt it to a workbench or solid base. There are two holes for this purpose in the machine foot.
> All covers and safety devices have to be properly fixed before the machine is switched on.
> It must be possible for the blade to run freely.
> The saw should only be used for cutting wood, Appropriate slides must be used depending on the material to be cut.

> When working with wood that has been processed before, watch out for foreign bodies such as nails or screws etc.
> Before you actuate the On/Off switch, make sure that the saw blade is correctly fitted and that the machine's moving parts run smoothly.
> Before you connect the machine to the power supply, make sure the data on the rating plate is the same as that for your mains.
> Wear safety glasses, gloves and a helmet for the job.
> Do not open the housing when the saw is running or when the saw is connected to the mains. To cut right against the guide, use the push stick.

WARNING! Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious injury.

Fitting the machine table

> Remove the bolt (28) and wing nut (29) from the hole located in the front edge of the table. (Fig. 1)

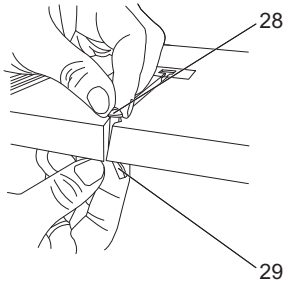


Fig. 1

> Carefully slide the work table (20) over the saw blade (23), through the slot in the work table (20). Please note that the saw blade (23) is positioned in the center of the table. (Fig. 2)

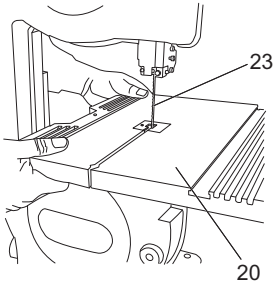


Fig. 2

> The dial scale (19) of the table (20) must be fitted in the guide on the machine frame. (Fig. 3)
> The work table (20) is capable of adjustment. Locate the guide on the machine frame and make sure the work table locates into the guide.

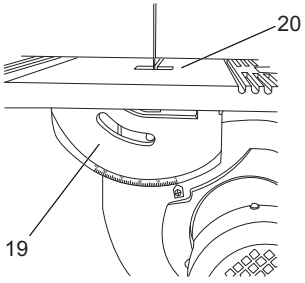


Fig. 3

> The fixing handle (18) is spring loaded.
> Pull the fixing handle (18) outward from the thread. This disengages the fixing handle (18) from the thread. Located the flat washer M10 (30), offer the thread to the hole and tighten the thread with the 4mm hex key. (Fig. 4)

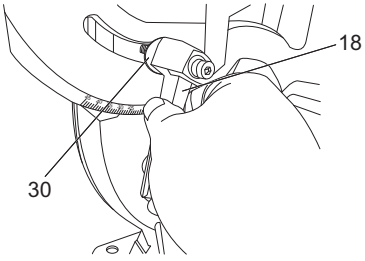


Fig. 4

> Alternatively you can tighten the fixing handle (18) in a clockwise direction as shown Fig. 5.
The fixing handle is spring loaded. Pull the fixing hanlde outward and rotate in a counterclockwise direction. Release the fixing handle and allow it to engage the thread. (Fig. 6)
Repeat the procedure until the working table is clamped.

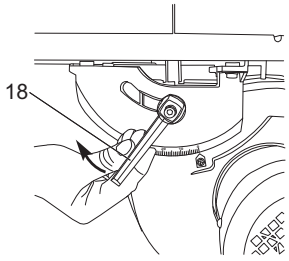


Fig. 5

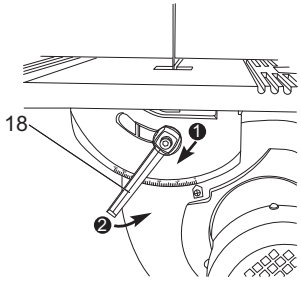


Fig. 6

> Insert and tighten the bolt (28) and wing nut (29) into the hole located in the front edge of the work table.

Fitting the push stick storage hook

> Unscrew the upper left hand hinge screw, attach the storage hook (31) and resecure the screw with screwdriver. (Fig. 7)
> Always store the push stick (25) in position when not in use. (Fig. 8)

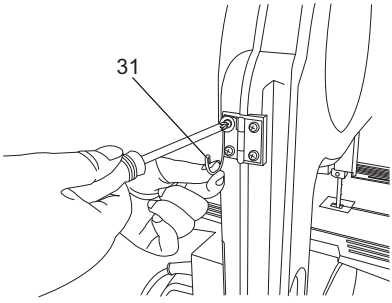


Fig. 7

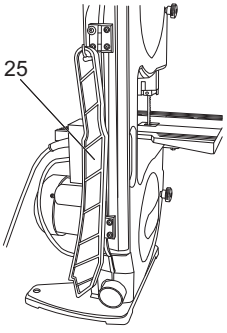


Fig. 8

Fitting the additional support

> Put the additional support (26) on the base (9), and align four holes to the holes (32) on the base, then put the flat washers M5 (33) and screws M5 x 20mm (34), then tighten them with the screwdriver. (Fig. 9 & 10)

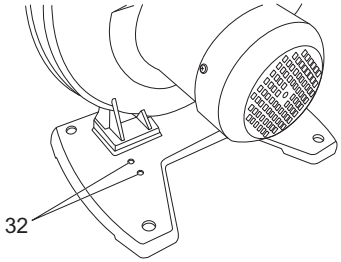


Fig. 9

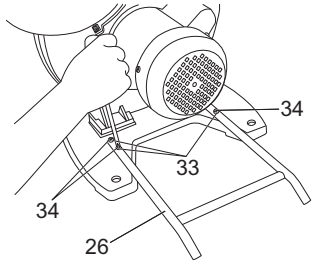


Fig. 10

Bench mounting

CAUTION: Two person handling may be required.

> The machine has four mounting holes (27) in its base. These can be used to permanently secure the band saw to a workbench with suitable screws or bolts (not supplied).
> Alternatively, if the machine needs to be moved frequently it can be secured to a base of 19mm plywood to provide a more stable base.

NOTE: The metal support must be fitted on the base with four bolts it the machine is not be bolted to a workbench.

Tensioning the saw blade

Note:

> Remove the tension from the saw blade if the band saw is not going to be used for some time. Be sure to re-tension the saw blade before you start the machine.

> Turn the blade tension knob (4) for tightening the saw blade (23) in a clockwise direction. (Fig. 11)
> The correct saw blade tension can be checked by applying pressure to the side of the band with your finger, carry out this check at a point roughly between the two band pulleys . You should only be able to bend the blade (23) very slightly (approx. 1-2 mm). (Fig. 12)

IMPORTANT! The saw blade may break if the tension is too high. BEWARE OF INJURY! If the tension is too low, the powered band pulley (8) will spin while the band does not move.

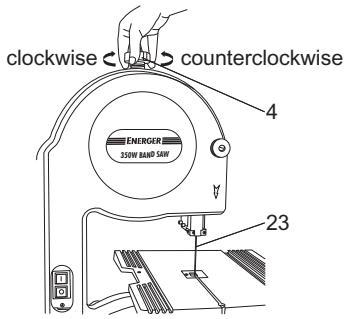


Fig. 11

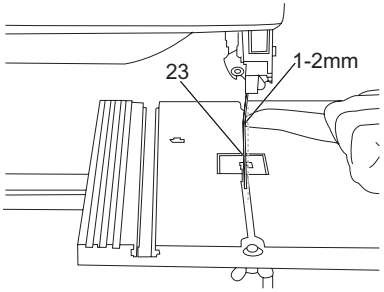


Fig. 12

Adjusting the saw blade

Note:
> The saw blade tension has to be set correctly before you can adjust the saw blade.
> Undo the fixing knobs (2) with the screwdriver and open the left side cover (3). (Fig. 13)

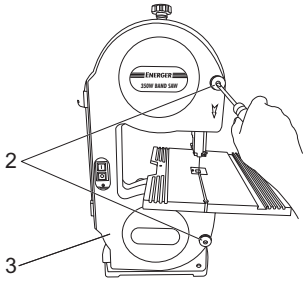


Fig. 13

> Slowly turn the upper band pulley (5) clockwise by hand. The saw blade (23) should run in the middle of the pulley. If it does not, you will have to adjust the tilt of the upper blade pulley (5). (Fig. 14)
> If the blade tends to run to the back of the blade pulley , i.e. towards the machine frame, turn the setting screw (11) anti-clockwise while turning the blade pulley by hand until the blade runs in the middle. (Fig. 15)
> If the blade tends to run to the front edge of the blade pulley, turn the setting screw (11) in a clockwise direction. (Fig. 15)
> After setting the upper band pulley you need to check the blade position on the lower band pulley (8). The blade should run in the middle of the band pulley (8), as above. If it does not, you will have to adjust the tilt of the upper band pulley (5) again. (Fig. 14)
> Turn the upper band pulley several times until the adjustment to the upper band pulley has an effect on the blade position of the lower band pulley.

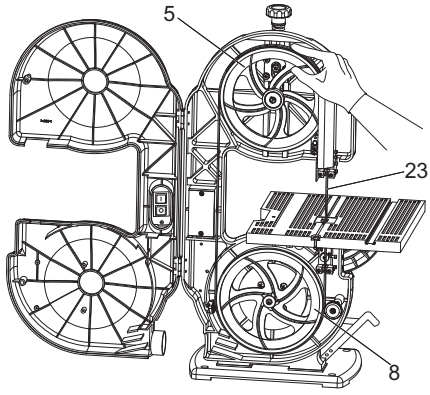


Fig. 14

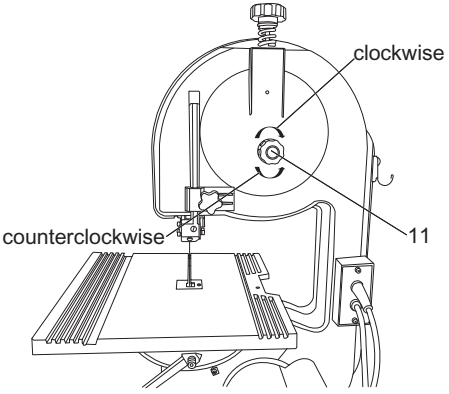


Fig. 15

> Close the left side cover when you have finished adjusting the blade and tighten the fixing knobs with the screwdriver.

Adjusting the upper band guide

> Undo the fixing handle.
> Undo the setting wheel (12) in a counterclockwise direction to lower the upper band guide (7) as close as possible to the workpiece to be cut. The gap should be approx. 2-3 mm. (Fig. 16)

> Re-tighten the setting wheel.
> Re-tighten the fixing handle.
> Check the setting before each cut and re-adjust if necessary.

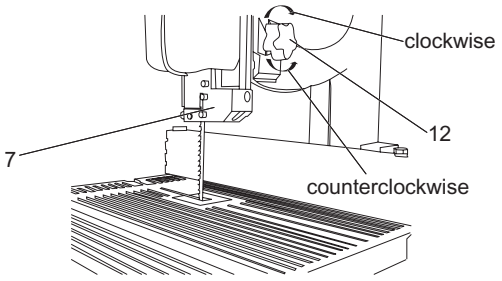


Fig. 16

Adjusting the work table to 90°

> Move the upper blade guide to the top.
> Undo the fixing handle (18). (Fig. 17)
> Set the angle between the blade and the table.
> Tilt the work table until it is at an angle of exactly 90° to the blade.
> Re-tighten the fixing handle.
> Undo the nut (35) with 10mm spanner (not supplied). (Fig. 18)
> Adjust the hex screw (36) until it contact with the machine frame.
> Re-tighten the nut (35). Then fasten the hex screw (36) with 3mm hex key (37). (Fig. 19)
> Undo the recessed head screw locked on the scale pointer (17) to position the angle scale pointer (17) on the 0° mark on the dial scale (19). (Fig. 17)

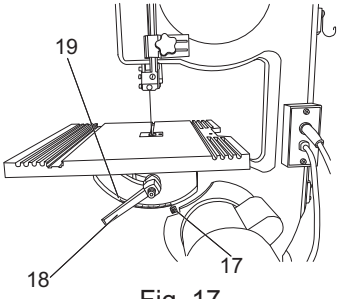


Fig. 17

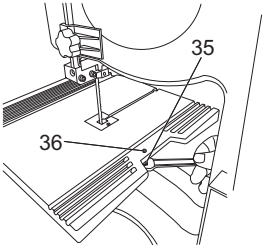


Fig. 18

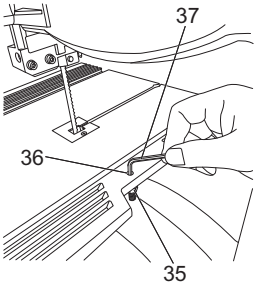


Fig. 19

Dust extraction port

> The band saw is equipped with dust extraction port (10) for extracting sawdust and chips. (Fig. 20)
> Using the extractor adapter, connection to a range of different sawdust extractors is straightforward.

WARNING: Always ensure that the machine is disconnected from the power supply before any maintenance or adjustments are carried out. Periodically clean dust away internally and externally. It is important that an approved dust mask is worn as airborne dust can be a health hazard.

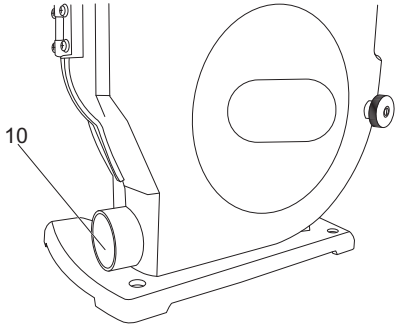


Fig. 20

On/Off switch

> To turn the machine on, press the green button “1” (38).
> To turn the machine off again, press the red button “0” (39).
> Your band saw has a switch with under voltage release. After a power failure you must reactivate the switch.

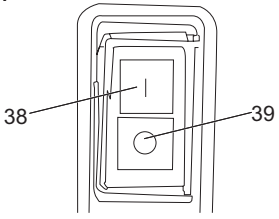


Fig. 21

In more detail…

In more detail...

Control elements

1) Rip fence

> Push the clip on the rip fence (14) upwards.
> Move the rip fence (14) along the table (20), from either the right or left of the blade (23), and position as required.
> Push the clip down to fix the rip fence (14). If the clip does not give enough hold, turn it clockwise several times until the rip fence is securely fixed.
> You must always ensure that the rip fence (14) is positioned parallel to the blade (23).

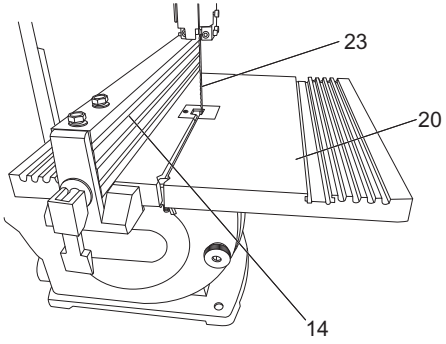


Fig. 22

2) Mitre gauge

> Slide the mitre gauge (21) into the groove (40) of the table (20).
> Undo the fixing knob (22).
> Turn the mitre gauge (21) until the arrow (41) points to the angle required.
> Re-tighten the fixing knob. (22)

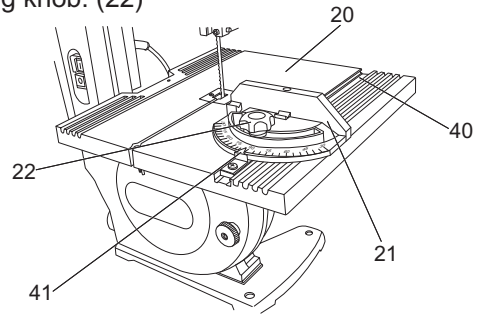


Fig. 23

3) Angle cuts

To enable you to perform angle cuts parallel to the blade (23); the table (19) can be tilted forwards between 0° - 45°.
> Undo the fixing handle (18).
> Tilt the work table (20) forward until the pointer (17) coincides with the required angle value on the main scale (19).
> Re-tighten the fixing handle (18).

Important: When the table (20) is tilted, place the rip fence (14) stop to the right of the blade (23) on the downward pointing side (provided the workpiece is wide enough) in order to stop the workpiece from slipping off.

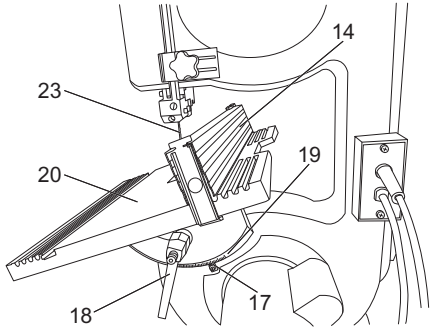


Fig. 24

NOTE: After every new adjustment we recommend you to make a trial cut in order to check the new settings.

> For all cutting operations it is important to position the blade guide (6) as close as possible to the workpiece (see the previous “adjusting the upper band guide” section on page 19-20).
> It will be better and safer to guide the workpiece with push stick, holding workpiece flat on the table (20) in order to prevent the blade (23) from jamming.
> Feed the workpiece at a uniform speed that enables the blade to cut through the material without difficulty and without blocking.
> Always use the rip fence (14) or the mitre gauge (21) on all cuts for which they are intended.

> Always aim at making a complete cut in one pass rather than in a stop-and-go operation requiring the workpiece to be withdrawn. If you have to withdraw the workpiece, switch off the band saw first and wait for the blade (23) to stop before freeing the workpiece.
> The workpiece must always be guided by the longer side during cutting.

Longitudinal cuts

Longitudinal cutting is when you use the saw to cut along the grain of the wood.
> Place the rip fence (14) to the left of the blade (23), as far as possible, for the width required.
> Lower the upper blade guide (7) down to the workpiece (see the previous “adjusting the upper band guide” section on page 19-20).
> Switch on the saw.
> Press the edge of the workpiece with your right hand to hold it securely against the rip fence (14) and flat on the table (20).
> Guide the workpiece along the rip fence (14) and through the blade (23) at a uniform speed.

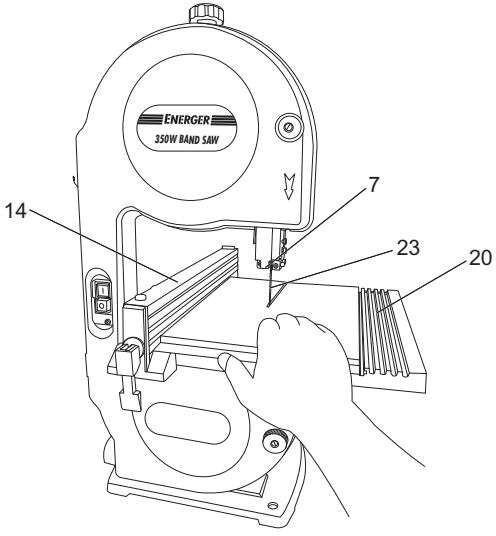


Fig. 25

Cross cuts

> Slide the mitre gauge (21) into one of the grooves in the table (20) and adjust to the required angle (see control elements 2).
> Lower the upper blade guard (7) to the workpiece (see the previous “adjusting the upper band guide” section on page 19-20).
> Switch on the saw.
> Hold the workpiece securely against the mitre gauge (21) and the table (20) and guide it at a uniform speed through the blade (23).

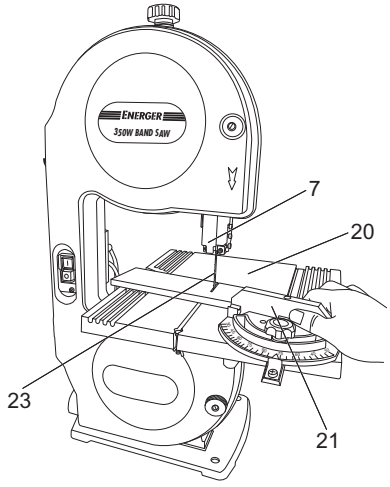


Fig. 26

Freehanded cuts

One of the most outstanding features of a band saw is the ease with which it allows you to make curved cuts and radii.
> Lower the upper blade guide (7) to the workpiece (see the previous “adjusting the upper band guide” section on page 19-20).
> Switch on the saw.
> Hold the workpiece securely on the table (20) and guide slowly through the blade (23).
> Freehanded cuts should be made at low feed speed so that you can guide the blade (23) along the required line.
> It often pays to first cut off surplus curves and corners up to about 6 mm from the cutting line.

> In the case of curves which are too tight for the band to cut correctly, it can help to make a series of close-lying cuts at right angles to the curved line. When you saw the radius the material will simply drop off.

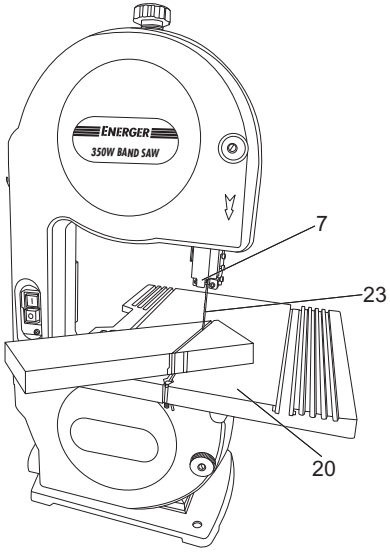


Fig. 27

The golden rules for care

WARNING! Always switch the product off, disconnect it from the power supply and let the product cool down before performing inspection, maintenance and cleaning work!

> Keep your machine and its cord clean. The outside of the machine can be cleaned using a damp soft cloth with a mild detergent if required.
> Regular and proper cleaning will help ensure safe use and prolong the life of the product.
> An occasional coat of paste wax on the work table will allow the wood being cut to glide smoothly across the work surface.
> Inspect the product before each use for worn and damaged parts. Do not operate it if you find broken and worn parts.

WARNING! Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

General operation

> Keep machine and workshop clean. Do not allow sawdust to accumulate on band saw.
> Keep wheels clean. Debris on wheels will cause poor tracking and blade slippage.
> Keep mechanisms and threaded or sliding surfaces clean and free of foreign particles.
> Operate band saw with a dust collector to minimize clean up.
> Switch the product off immediately if you are disturbed while working by other people entering the working area.
> Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.

In more detail...

Adjusting the blade guide

> Whenever you change the blade you must reset both the support bearings (42+43) and the guide pins (44 + 45). (Fig. 28 & 29)
> Undo the fixing knobs (2) to open the left side cover (3). (Fig. 30)
> Undo the hex screws (46) and remove the blade guard (6). (Fig. 31)

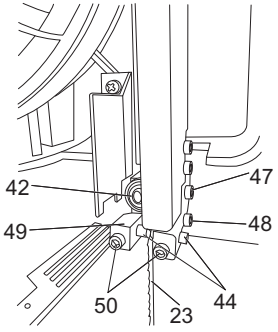


Fig. 28

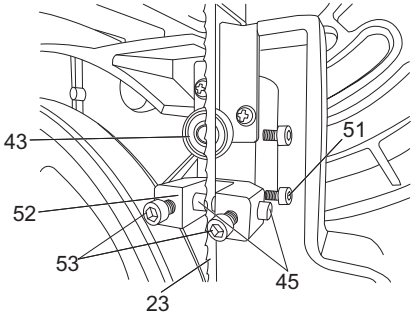


Fig. 29

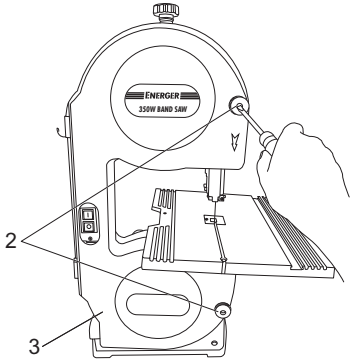


Fig. 30

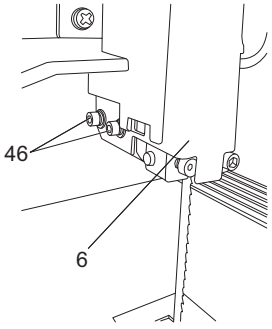


Fig. 31

1) Upper support bearing (Fig. 28)
> Undo the hex screw (47) with 3mm hex key supplied.
> Move the support bearing (42) so that it is almost touching the blade (23). There should be a gap of approx. 0.5mm.
> Re-tighten the hex screws (47).

2) Adjusting the lower support bearing (29)
> Adjust in the same way the upper support bearing adjusted.

> The blade (23) is only supported by the support bearings (43) during cutting.
> When idle the blade should not touch the ball bearings.

3) Adjusting the upper guide pins (Fig. 28)
> Undo the hex screw (48) with 3mm hex key supplied.
> Move the mount (49) of the guide pins (44) so that there is a gap of approx. 1mm between the front edge of the guide pins (44) and the gullet of the blade in front.
> Re-tighten the hex screw (48).

CAUTION: The blade will be rendered useless if the teeth touch the guide pins while the blade is running.

> Undo the hex screws (50) with 3mm hex key supplied.
> Move the guide pin (44) towards the blade so that there is a gap of approx. 0.5 mm between the guide pins (44) and the blade (23). The blade must not jam.
> Re-tighten the hex screws (50).
> Turn the upper band pulley several times in a clockwise direction.
> Check the setting of the guide pins (44) again and re-adjust if necessary.

4) Adjusting the lower guide pins (Fig. 29)
> Undo the hex screws (51) with 3mm hex key supplied.
> Move the mount (52) of the guide pins (45) so that there is a gap of approx. 1mm between the front edge of the guide pins (45) and the gullet of the blade in front.
> Re-tighten the hex screw (51).

CAUTION: The blade will be rendered useless if the teeth touch the guide pins while the blade is running.

> Undo the hex screws (53) with 3mm hex key supplied.
> Move the guide pins (45) towards the blade so that there is a gap of approx. 0.5mm between the guide pins (45) and the blade (23). The blade must not jam.
> Re-tighten the hex. screws (53).
> Turn the lower band pulley several times in a clockwise direction.
> Check the setting of the guide pins (45) again and re-adjust if necessary.

IMPORTANT! After completing the above adjustments, the upper and lower band guards must be refitted.

In more detail...

Lubrication

> The shielded ball bearings are permanently lubricated and require no further lubrication.
> Small amounts of machine oil can be applied to belt tension mechanisms and threaded or sliding surfaces.
- Occasionally apply a coat of paste wax to tabletop to keep it slick and corrosion free.

After use

> Switch the product off, disconnect it from the power supply and let it fully cool down before storing.
> Store the product and its accessories in a dry, frost-free place.
> Always store the product in a place that is inaccessible to children.

Power cord

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

Plug replacement

If you need to replace the fitted plug then follow the instructions below.
Important
The wires in the mains lead are coloured in accordance with the following code:
Green & yellow - Earth
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 **green & yellow** must be connected to the terminal which is marked with **E** or ⏚.

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**.

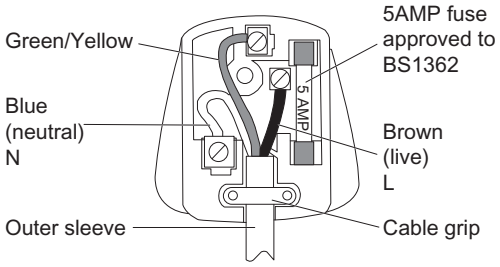


Fig. 32

Warning: Never connect live or netutral wires to the earth terminal of the plug. Only fit an approved 5 Amp 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.
If the supply cord is damaged it must be replaced by a service agent or a similarly qualified person in order to avoid hazard.

Repair

> This product does not contain any parts that can be repaired by the consumer. Contact a qualified specialist to have it checked and repaired.

Storage

> Clean the product as described previous.
> Store the product and its accessories in a dry, frost-free place.
> Always store the product in place that is inaccessible to children. The ideal storage temperature is between 10 and 30°C.

> We recommend using the original package for storage or covering the product with a suitable cloth to protect it against dust.

Transportation

> Switch the product off and disconnect it from power supply before transporting it anywhere.
> Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
> Secure the product to prevent it from slipping or failing over.

Blade selection

The blade supplied with the band saw is designed for all-purpose use. When you select a blade you should have regarded to the following criteria:
> Use a narrow blade to cut tighter radii than you can with a wider blade.
> Wide blades are used to saw straight cuts. This is particularly important in cutting wood because the blade has a tendency to follow the grain of the wood and thereby deviate easily from the cutting line.
> Finely toothed blades provide smoother cuts but are slower than coarse blades.

IMPORTANT: Never use warped or lacerated blades!

Changing the blade

> Move the blade guide into a position approximately half way between the table and the machine frame.
> Undo the fixing knobs (2) and open the left side cover (3). (see fig. 30)
> Undo the two hex screws (46) and remove the blade guard (6) (see Fig. 31).
> Unscrew and remove the wing nut (29) and bolt (28) (see Fig. 1).
> Turn the blade tension knob (4) anti-clockwise to remove the tension from the blade (23). (see Fig. 11)
> Remove the blade (23) from the upper blade pulley (5) and lower blade pulley (8), Then take out through the slot in the table (20). (Fig. 33)

> Fit the new blade (23), aligned centrally on the upper blade pulley (5) and lower blade pulley (8). The teeth of the blade (23) must point down towards the table. (Fig. 33)
> Tension the blade by turning the blade tension knob (4) clockwise to tension the blade. (see Fig. 11)
> Re-fix the blade guard (6) and close the left side cover (3). (see Fig. 30 & 31)

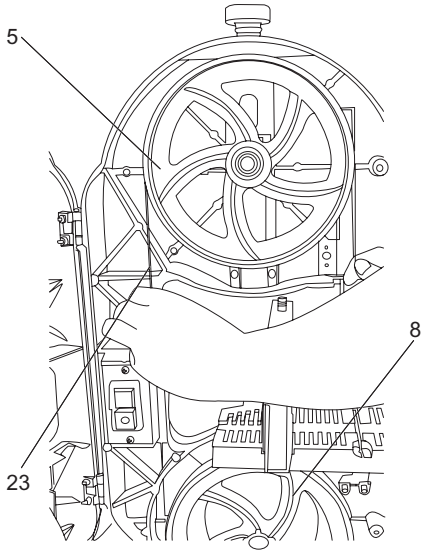


Fig. 33

Trouble shooting

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section.
In most cases the problem can be solved quickly.

WARNING! Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Possible cause	Solution
1. Saw will not start	1.1 Loose electrical connections	1.1 Have qualified electrician check electrical connections
2. Excessive blade breakage	2.1 Material not secure on table	2.1 Squarely place workpiece on table
	2.2 Blade too coarse for material	2.2 Use finer pitch blade
	2.3 Teeth in contact with workpiece before sawing	2.3 Place blade in contact with workpiece after saw is started and has reached full speed
	2.4 Misaligned guides	2.4 Adjust blade guides properly
	2.5 Blade too thick for wheel diameter	2.5 Use thinner blade
	2.6 Cracking at weld	2.6 Replace blade
3. Premature blade dulling	3.1 Blade too coarse	3.1 Use finer tooth blade
	3.2 Inadequate feed pressure	3.2 Gently increase pressure
	3.3 Hard spots or scale in or on material	3.3 Reduce speed; increase rate of feed for scale and change blades for hard spots
	3.4 Blade installed backwards	3.4 Remove blade, twist inside out and reinstall blade

Problem	Possible cause	Solution
4. Crooked cuts	4.1 Workpiece not square	4.1 Use miter gauge; adjust tilt of table at 90°
	4.2 Rate of feed too great	4.2 Reduce rate of feed
	4.3 Blade guides not adjusted properly	4.3 Readjust the blade
	4.4 Upper blade guide too far from workpiece	4.4 Adjust upper guide close to workpiece
	4.5 Dull blade	4.5 Replace blade
5. Rough cuts Blade is twisting or unusual wear on side/ back of blade	5.1 Too much feed	5.1 Reduce feed
	5.2 Blade too coarse; Cut is binding blade	5.2 Replace with finer blade; Decrease feed pressure
	5.3 Blade guides worn	5.3 Replace
	5.4 Blade guides not adjusted properly	5.4 Adjust blade guides (see “adjusting the blade guide” section)
	5.5 Blade guide brackets loose	5.5 Tighten properly
6. Teeth ripping from blade	6.1 Teeth too coarse for work	6.1 Use blade with finer teeth
	6.2 Rate of feed too great	6.2 Decrease feed rate
	6.3 Vibrating workpiece	6.3 Hold workpiece firmly
	6.4 Teeth filling with material	6.4 Use blade with coarser teeth
7. Motor running too hot	7.1 Blade too coarse for work (typical when cutting pipe)	7.1 Use blade with finer teeth
	7.2 Blade too fine for work (typical when cutting slick or soft material)	7.2 Use blade with coarser teeth
	7.3 Excessive dirt and chips	7.3 Clean thoroughly

In more detail...

Recycling and disposal

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

Guarantee

This ENERGER product carries a guarantee of 12months.

If yourproductdevelops a faultwithinthisperiod, youshould, in the first instance contact the retailerwhere the item waspurchased.

This guaranteespecificallyexcludeslossescaused due to:
> Fair wear and tear
> Misuse or abuse
> Lack of routine maintenance
> Failure of consumable items
> Accidental damage
> Cosmetic damage
> Failure to followmanufacturer's guidelines
> Loss of use of the goods This guaranteedoes not affect yourstatutoryrights.

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:
Designation: 350W band saw
Model: ENB542BDS

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 61029-1:2009+A11
EN 61029-2-5:2011
EN 60825-1:2007
EN 55014-1/A1:2009
EN 55014-2/A2:2008
EN 61000-3-2/A2:2009
EN 61000-3-3:2008

Authorised Signatory and technical file holder
Date : 20/07/2013

Signature: P.C. Harries

CE

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

In more detail...

GB

Powersmith (UK) LTD.
Trade House Mead Avenue, BA22 8RT