

UK Subject to change

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USER MANUAL

Ferm Band Saw

FLZ-275

CE

Ferm[®]

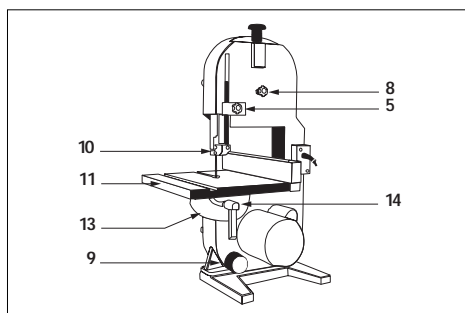
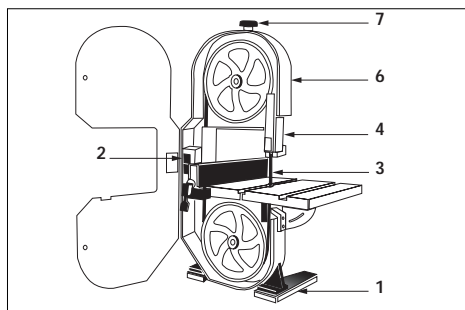
Art.nr. 730762
Screwfix Art.nr. 18772

FERMBAND SAW FLZ-275 USERS MANUAL

TECHNICAL SPECIFICATIONS

Voltage	230 V~
Frequency	50 Hz
Power input	350 W
No load speed	1300/min
Discharge	190
Max. Cutting capacity 90%	85 mm
Table dimensions	290 x 290 mm
Weight	17 kg
Lpa (sound pressure)	76.8 dB(A)
Lwa (acoustic power)	87.56 dB(A)
Vibration	5.0 m/s ²

PRODUCT INFORMATION



1. Base
2. On/off switch
3. Saw blade
4. Saw blade guard
5. Blade guide adjusting knob
6. Frame
7. Blade tension knob

8. Adjustment knob
9. Sawdust outlet
10. Blade guides
11. Table
12. Table tilt groove
13. Graduated scale
14. Pointer
15. Table locking knob

SAFETY INSTRUCTIONS

The following pictograms are used in these instructions for use:



Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.



Denotes risk of electric shock.

Carefully read this manual before using the machine. Make sure that you know how the machine functions and how to operate it. Maintain the machine in accordance with the instructions to make sure it functions properly. Keep this manual and the enclosed documentation with the machine.

Ferm products are manufactured to high quality standards, they are safe and fit for purpose at time of sale, but all tools can be dangerous if the correct precautions are not taken. Always follow these instructions, do not carry out the operation until you are sure you can do so in safety. Remember to consider the work environment for safe operation as well as safety for tool use.



Warning! When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before attempting to operate this product. Save these instructions for future reference.

PERSONAL SAFETY

Use Personal Protection Safety Equipment

Protect eyes with safety glasses or goggles note: the use of safety protective eyewear without the CE mark can lead to serious injury if the lens breaks. A suitable dust mask should be worn if cutting, drilling or sanding is dusty, in particular chipboard or MDF.

Approved safety footwear and headgear should worn as appropriate, for example on building works or when heavy weights are involved. Wear suitable gloves and apron to protect against sparks/debris. Wear earplugs or ear defenders.

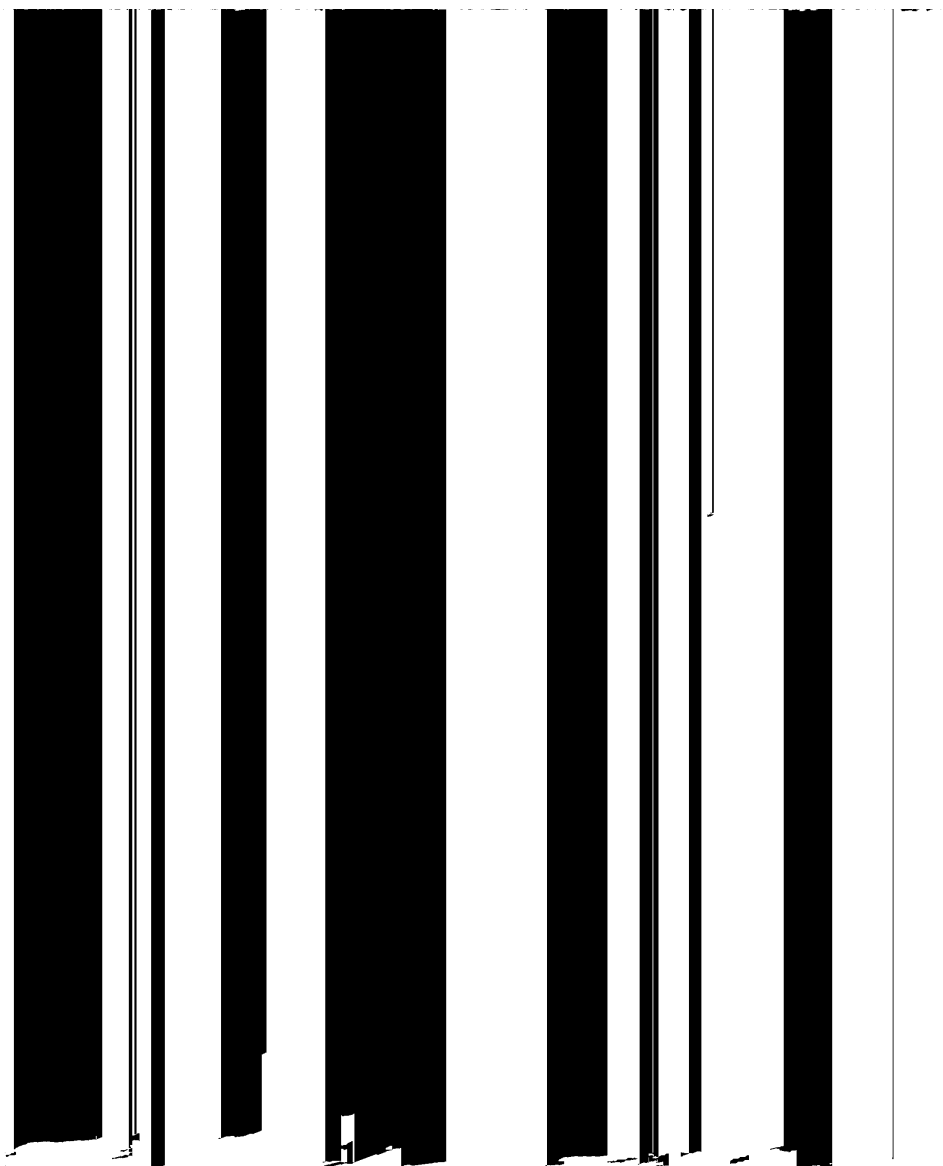
Dress properly

Do not wear loose clothing or jewellery. It can get caught in moving parts. Non-skid footwear is recommended when working out doors. Wear protective hair covering to contain long hair.

Stay alert

Watch what you are doing Use common sense. Do not operate tools when tired or after taking alcohol or prescription/ non-prescription drugs.

EXPLODED VIEW



SPARE PARTS LIST AAA-000

REF NR	DESCRIPTION	FERM NR
-	CAPACITOR (8 μ F)	311048
13	SPARE SAW BLADE (1.425 X 6 X 0,3 MM)	330795
16	RUBBER BAND	403461
19	PRESSED HANDLE (COMPLETE, PART 19, 20, 21, 22, 23, 24 + 25)	403463
36	MAGNETIC SWITCH	403469
50	MOTOR	403471
79	SAW GUIDE (COMPLETE, PART 79, 80, 81 + 82)	403483
105	INLAY TABLE	403486
112	OPERATING HANDLE (COMPLETE, PART 111 - 114)	403497
120	ANGLE GUIDE (COMPETE, PART 115 - 120)	403493
130	BASEMENT	403496

OPERATIONAL SAFETY



Warning! This machine can produce fine dust, which is harmful to your health. Always wear a suitable dust mask and other protection equipment as appropriate. Use dust extraction

Concentrate

Routine and repetition can lead to mistakes. Remember that a slight lack of concentration can result in serious injuries in a split second.

Keep work area clean

Cluttered areas and benches invite injuries

Consider the work environment

Do not expose power tools to rain or use them in damp or wet locations. Keep work area well lit. Do not use power tools in the presence of flammable liquids, vapours or gases.

Guard against electric shock

This unit contains dangerous voltages. Use a RCD (residual current device) to provide protection against electrical shock. Prevent body contact with grounded surfaces (e.g. pipes, radiator, ranges or refrigerators).

Keep children and pets away

Do not let children or pets come into contact with the tool, extension cable or work area.

Do not force the tool

It will work better and safer at the rate for which it was intended.

Use the right tool

Do not force small tools or attachments to do the job of a heavy-duty tool. Do not use tools for purposes for which they were not intended; for example do not use a circular saw for cutting trees or logs.

Do not abuse cable

Never carry the tool by the cable or pull it to disconnect it from the power socket. Keep the cable away from heat, oil and sharp edges. Do not touch the metal plug pins when connecting or removing the plug.

Do not over-reach

Keep a proper footing and balance at all times.

Disconnect tools from power supply

When not in use, before servicing and when changing accessories such as blades, bits and cutters.



Always switch off and unplug the saw from the power supply before making adjustments or changing blades.

Remove adjusting keys and wrenches

Ensure that they are removed from the tool before switching on.

Avoid unintentional starting

Do not carry plugged in tools with your finger on the switch. Check that the switch is off before plugging in to socket.

Connect a dust extraction device

Whenever there are facilities for fitting a dust or fume extraction system, make sure it is connected and used.

Use recommended accessories

The use of any other accessory or attachment other than recommended in the instructions or catalogue may present a risk of personal injury. Use extension cables suitable for the power input of the saw (minimum cable size 1.5mm²). When using a cable reel unwind the cable fully.

BEFORE USING THE BAND SAW



The saw is for bench use only. Do not use outdoors. This saw is intended for use on wood, wood derived products, plastics and soft materials/metals. This saw must be fully assembled before use.

ASSEMBLING/MOUNTING THE BAND SAW



Make sure the saw is switched OFF and unplugged from mains.

Refer to parts illustration.

Installing the foot

- Fasten the foot to the band saw base with the four M8 nuts/bolts and washers provided.
- Make sure the long legs of the foot are on the motor side. Tighten the bolts securely.

Fixing the band saw

The saw should be placed on a level stable non-slip surface; make sure there is enough room round the machine to operate and service it easily.

- Position the machine and mark the fixing holes with a pencil. Drill suitable diameter holes.
- Secure the machine with suitable bolts/nuts/washers through the four holes in the footplate.
- Route the mains cable well away from the saw, ensure that it cannot get caught in moving parts or the workpiece.

Installing the band saw table



Make sure the saw is switched OFF and unplugged from mains.

Refer to figs 1,2,3 below

- Remove the nut and butterfly bolt from the end of the saw slot in the table.
- Put the table onto the saw as shown in Fig 1. Make sure the groove on the back of the quadrant (C in Fig 1)) fits onto the raised curved lug on the saw body.
- Take the adjusting lever assembly (A in Fig 2)) and remove the Allen screw and spring with the 4mm wrench supplied, remove the lever.
- Screw the bolt part of the adjusting lever assembly with the large washer attached into the threaded hole in the saw body - hand tight.
- Reassemble the lever, bolt and spring and tighten with the wrench.
- Tighten the table adjusting screw fully with the lever.

Note: The lever can be pulled out and turned to set it in the best operating position
Reinstall and tighten the bolt and butterfly nut in the saw table.

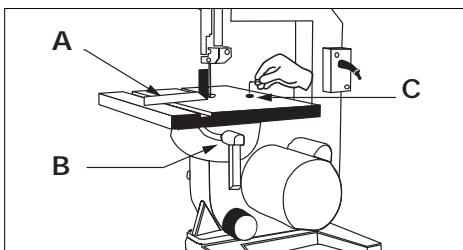
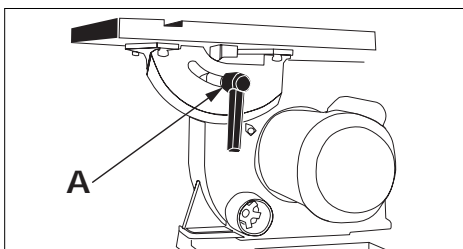
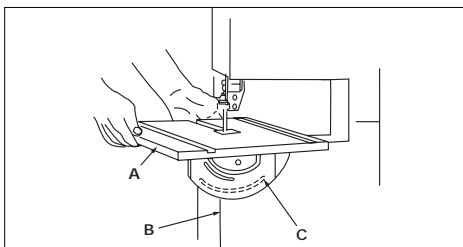
Check the table is square

With the blade guard (4 in parts illustration) raised, check the angle of the blade to the table with a small set-square.

- If it isn't square, from under the table loosen the adjusting screw lock nut. Loosen the clamp (B) then adjust the table angle by turning the table adjusting

screw with the 3mm wrench as shown in Fig 3.

- Tighten clamp lever (B) and check the angle again readjust a necessary.
- When the table is set at 90 degrees to the blade tighten the table clamp and set the red quadrant indicator finger by loosening its screw then lining it up with the 0 degrees mark on the table quadrant (C in Fig 3). The angles indicated on the quadrant are for indication only, always check setting by cutting and measuring on scrap before cutting the job.



GUARANTEE

The guarantee conditions can be found on the separately enclosed guarantee card.

CE DECLARATION OF CONFORMITY (UK)

We declare under our sole responsibility that this product is in conformity with the following standards or standardized documents

EN61029-1, prEN61029-2-5
EN55014-1, EN61000-3-2,
EN61000-3-3, EN55014-2

in accordance with the regulations:

98/37/EEC
73/23/EEC
89/336/EEC

from 01-05-2001
GENEMUIDEN NL
W. Kamphof
Quality department

Sawdust builds up inside the saw

- Clean saw chamber regularly.
- Connect a dust extractor to the port beside motor.

The blade cannot be positioned on the wheels

- The wheels are out of alignment due to a faulty bearing.

Take to your Ferm dealer for repair.

- Adjust tracking as previously described.

There are no user serviceable/repairable parts in this unit. Qualified service engineers must carry out repair and servicing.

MAINTAIN TOOLS WITH CARE

Keep the tool clean for better and safer performance. Store the blades properly in accordance with the maker's instructions. Follow instructions for changing accessories. Inspect tool and extension cables periodically and if damaged, have them repaired by a qualified person or authorised service body. Keep handles free from oil or grease. Keep the ventilation slots clean to prevent the motor overheating.

Check for damaged parts

Do not use a tool with damaged parts, before further use a damaged tool must be carefully checked by a qualified person to determine that it will operate properly. Check for alignment of moving parts, binding or breakage of parts, mounting and other conditions that may affect its operation.

A damaged part or guard should be properly repaired by an authorised service centre, unless indicated otherwise in the instruction manual. Have defective switches replaced by an authorised service centre. Do not use a tool if the switch does not turn on and off.

Have your tool repaired by an expert

This appliance is manufactured in accordance with relevant safety standards. Only experts must carry out repairing of electrical appliances, otherwise considerable danger for the user may result.

Storing tools

When not in use tools should be stored in the dry, out of reach of children.

Lubrication

The machine does not require user lubrication.

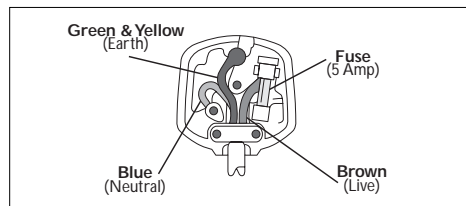
ELECTRICAL INFORMATION

This product is complete with a pre-wired mains plug. If the plug needs replacing follow these instructions.

Wire correctly

The wires in the mains lead are coloured in the following way:

- | | |
|--------------|----------------|
| BLUE | • Neutral |
| BROWN | • Live |
| EARTH | • Yellow/Green |



Securing wires

Secure wires carefully and firmly to the correct terminals. Secure the mains cable in the plug cord grip firmly. Fit a 5-amp fuse. If a 13amp (BS1363) plug is used a (BS 1362) ASTA approved 5-amp fuse must be fitted. If in doubt always consult a qualified electrician.

Recycle/Dispose of old plug and cable

Prevent inadvertent connection to socket and risk of electric shock

ENVIRONMENT

Recycle the packaging according to the identification marks on it.

At the end of the product or its accessories life please recycle where facilities exist - phone the Helpline for current advice on recycling.

Helpline

For any questions relating to operational or safety matters contact:

Ferm Customer Helpline on:

0115 966 1199

Monday-Friday

8am - 5pm

Saturday

9am - 5pm

FITTING/REMOVING AND TENSIONING SAW BLADES



Make sure the saw is switched OFF and unplugged from mains.

Refer to parts illustration and Figs 5/8 below.

When changing blades make sure that the blade slot, chamber, wheels etc are free from sawdust and debris.

- Open the band saw cover by unscrewing both slot head bolts (A in fig 5) with a flat blade screwdriver (not supplied) anticlockwise as shown in Fig 5.

- Remove the bolt and butterfly nut from the saw table to allow the blade to be fitted/removed.

- Set the upper blade guard (A) half way up the blade as shown in Fig 8 by slackening knob (B) and moving the guard as required, tighten the knob.

- Slacken the blade tension by turning blade tension knob (indicated in Fig 5) anticlockwise.

- If changing or replacing blades remove the old one.

- Clean the inside of the saw chamber with a brush.

- Wear dust mask.

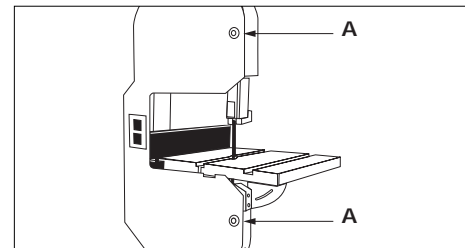
- Fit new blade with the teeth facing towards the front of the saw/downwards towards saw table, twist the blade side ways slightly to get it through the blade guards.

- Check that the blade is on both wheels and in between the blade guides.

- After you have changed blades you may need to align (track) the blade and adjust the thrust bearings and blade guides. See next sections.

- If not, tension blade by rotating the blade tension knob until the spring begins to compress, then rotating two further turns.

- Close and secure the band saw cover.



ALIGNING (TRACKING) THE SAW BLADE



Make sure the saw is switched OFF and unplugged from mains.

Refer to Fig 8 above.

- Open the band saw cover unscrewing the bolts
- Rotate one of the saw wheels by hand; the blade should run in the middle of both wheels, if it does not adjust it as below.

- Slack off the tracking knob locknut with a suitable spanner.

- Turn the tracking adjustment knob while rotating the upper wheel by hand. Watch the saw band running on the wheel and adjust with the knob until the saw band is running in the centre of the wheel.

- Lock the setting by tightening the tracking knob lock nut.

- Close and secure the band saw cover.

ADJUSTING THE BLADE GUIDES AND THRUST BEARINGS



Make sure the saw is switched OFF and unplugged from mains.

Refer to Figs 9 and 10 below.

- Remove the saw table. It is a lot easier to see to adjust the bearing and guides.

To adjust the upper thrust bearing

- Loosen the Allen bolt (A in Fig 9) with the 3mm wrench supplied.

- Use a screwdriver to push the bearing towards the back of the blade until the bearing face just touches it. The bearing has an eccentric adjustment to allow for different blade widths. Put the screwdriver blade in the slot on the end of the bearing rod and turn to get the bearing face fully behind the blade.

- Retighten the Allen bolt to lock the adjustment.

To adjust the lower thrust bearing

- Loosen the two Allen bolts holding the lower bearing plate (shown below)

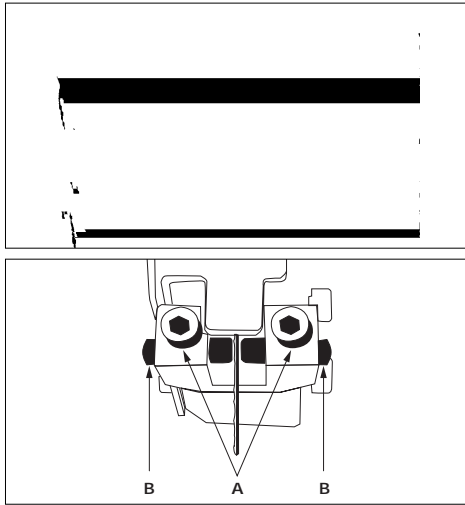
- Move the lower bearing plate until the lower bearing just touches the blade.

- Tighten the bolts with the wrench to lock the adjustment.

It is important that these adjustments are correct. The upper/lower thrust bearing support the blade and the saw will only work efficiently when the blade is supported by both of them.

To adjust the blade guides

- ❏ Loosen the Allen bolts (A in Fig 10) with the 3mm wrench.
- ❏ Move both guides (B) evenly towards the blade ❏ make sure they are as close as possible without touching the blade.
- ❏ Tighten the bolts to secure.
- ❏ Replace saw table as previously described.



SELECTING SAW BLADES

The saw takes a 1425mm (56") continuous blade - 6mm (1/4") wide, and 0.4mm (1/64") thick. The choice of blade depends on the dimension and material being cut. In general choose thinner (front to back) for tight turns and thicker for straight cutting.

Broadly there are three tooth forms available:

- Hook/Raker**
Removes material quickly
- Standard**
Gives clean cuts but will clog more easily.
- Skip**
Fast cutting in soft materials

They all have various sets and TPI (teeth per inch) depending on the use. The band saw is a very versatile saw which can undertake a broad range of cutting jobs, for this reason it is very important to use the right blade for the job. Consult the Helpline or a blade supplier for advice on specific requirements. With the right adjustments and blade it is a very successful tool.

ADJUSTING THE UPPER BLADE GUARD



Do not use this machine without the guards mounted.



Make sure the saw is switched OFF and unplugged from mains.

Refer to parts illustration below.

- ❏ Loosen knob B shown in Fig 8.
- ❏ Slide the guard to the desired position.

Note: The guard should be as close as possible to the workpiece but not touching it.

- ❏ Tighten the knob to secure.

FITTING THE FENCE AND MITRE GUIDE

To fit the fence



Make sure the saw is switched OFF and unplugged from mains.

- ❏ Take the fence assembly and undo the adjustment by revolving the clamp lever.
- ❏ Fit the fence by hooking the rear claw over the rear edge of the table.
- ❏ With the fence flat on the surface of the table and parallel to the blade adjust the clamping action by revolving the clamp one turn at a time then clamping the fence until it grips tightly against the front edge of the table.
- ❏ The clamp adjustment is correct when the fence is tightly clamped and cannot be moved sideways easily.

Note: Both parts of the front claw must engage with the front edge of the table for the fence to be secure.

To fit and adjust the mitre guide

- ❏ Fit the mitre guide by sliding it into the dovetail grooves on either side of the table.
- ❏ To adjust the angle, loosen the knob and rotate the guide to the desired angle (maximum 45° either side).

Note: The angle on the guide is for indication only. For accurate angles test on a piece of scrap first and readjust as necessary.

USING THE SAW

BEFORE OPERATING

- ❏ Check the voltage on the saw corresponds with your power supply voltage and that the plug and lead are in good condition.
- ❏ Check you have the correct type of saw blade for the machine and that it is mounted correctly. Do not use parts other than supplied with the machine to make the blade fit properly.
- ❏ Check you have a blade suitable for the material being cut and that it is in good condition.
- ❏ Check the band saw cover is closed and secured.
- ❏ Run idle for 30 seconds - if there is any abnormal vibration or other fault. Switch off, inspect and rectify before continuing

OPERATION

Plug into a suitable mains supply and switch on.

To switch the saw ON

Push in the green button.

To switch OFF

Push in the red button.

Note: This saw has an NVR (no volt release) switch and will automatically switch off if the mains supply is interrupted or disconnected.

CUTTING

- The saw will give best results cutting up to 85mm (3.3") thickness. Do not cut workpieces thicker than this.
- ❏ Place the workpiece on the table without the blade touching it and switch ON.
- ❏ Using gentle pressure, move the workpiece along the line of cut, keep the workpiece in firm contact with the table. The blade cuts on a continuously downward stroke.
- ❏ Let the saw do the cutting, undue pressure will overload the saw resulting in overheating and broken blades.
- ❏ When the cut is finished, switch off and withdraw the workpiece when the blade has stopped moving.

DURING USE

- ❏ Push the workpiece gently onto the blade.
- ❏ Tight radius cuts require narrow saw blades.
- ❏ Check material for foreign bodies. For example check for pins, nails screws etc.
- ❏ Apply suitable lubricant, when cutting metal.
- ❏ Do not use water as a lubricant/coolant.
- ❏ Keep the workpiece on the surface of table.
- ❏ Use constant gentle pressure.
- ❏ If the blade seizes in the cut, switch off and open the cut with a suitable tool before pulling the workpiece out. Never switch the saw on with the blade jammed.
- ❏ Regularly inspect the blade during use (switch off first) for signs of damage or wear and replace when required.
- ❏ Keep the band saw cover closed. Never operate this saw with the cover open or unsecured.
- ❏ Switch the machine off before removing the plug from the mains socket.
- ❏ Wear personal protection equipment. Use a suitable dust mask and glasses plus other items as required.
- ❏ Be careful. Keep your hands away from the blade.

MAINTENANCE, CARE AND REPAIR



Switch off and unplug the machine before carrying out any cleaning, adjusting or changing blades.

CLEANING

Do not use flammable liquids to clean the saw, they will damage the casing and are a fire risk. Clean with a soft brush or a cloth.

FAULTS

Switch OFF immediately at the mains plug and remove the plug when:

- ❏ The plug or cable is damaged.
- ❏ The switch on the machine is defective.
- ❏ The motor runs hot.
- ❏ You smell or see smoke caused by scorched insulation in the machine.

The saw overheats

- ❏ Use less pressure.
- ❏ Clean ventilation slots.
- ❏ Defective motor.
Take to your Ferm dealer.

The saw does not work when switched on

- ❏ Damaged/faulty plug, switch or power lead.
Take to your Ferm dealer for repair.

The saw wanders off the cut line

- ❏ Worn blade.
Replace blade.
- ❏ Blade tension wrong.
Readjust.

The saw makes a lot of noise and does not run smoothly

- ❏ The carbon brushes are worn; take to your Ferm dealer for replacement.

The blade does not move with the motor running

- ❏ Blade tension wrong.
Readjust.
- ❏ Blade off the wheels.
Reinstall blade.
- ❏ Broken blade.
Replace.

The blade does not cut in a straight line

- ❏ Blunt blade.
Replace.
- ❏ Blade guides need adjusting.
Adjust as described.
- ❏ Put less feed pressure on the workpiece.

The blade does not cut or cuts very slowly

- ❏ Blunt blade.
Replace blade.
- ❏ Wrong type of blade for the material being cut.
See Selecting blades
- ❏ Blade installed the wrong way round.
Reverse blade direction.