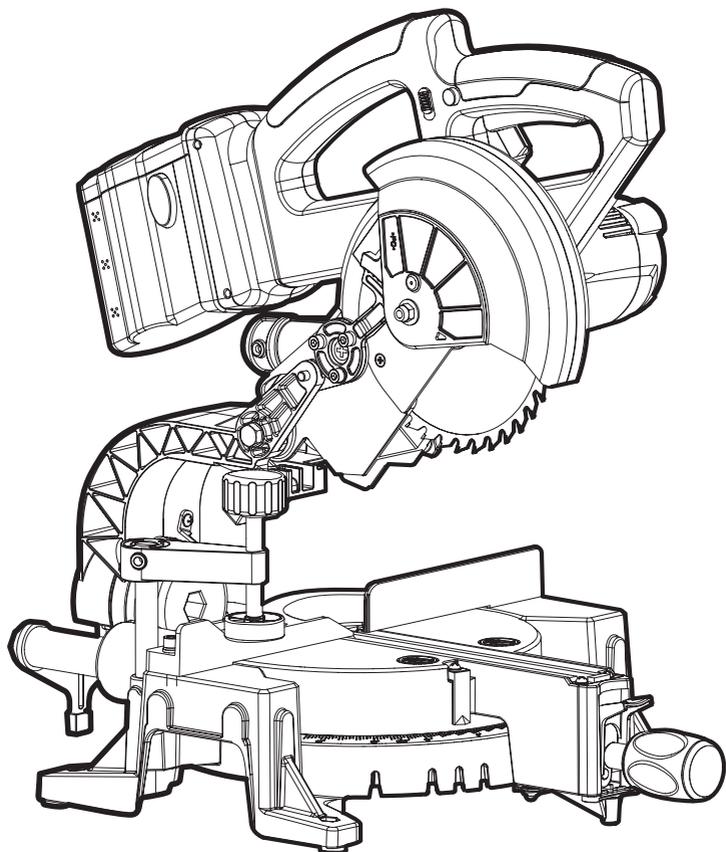


Erbauer®



Original Instructions

Read instructions fully before operating this tool

ERF298MSW

2 WARRANTY
YEARS

ERBAUER 24V 165MM SINGLE BEVEL MITRE SAW

Erbauer®

Erbauer 24V 165mm Sliding Bevel Mitre Saw

TABLE OF CONTENTS

24 Month Limited Warranty
General Safety Rules
Additional Specific Safety Rules
Safety Rules For Charger
Battery Pack Care
Labels and Symbols
Mitre Saw Overview
Specification
Functional Description
Operation
Maintenance
Environmental Protection

Erbauer®

Congratulations on your purchase of a quality power tool from Erbauer Ltd. This product should give you reliable service for your peace of mind this power tool does carry a 24-month guarantee, the terms of which are detailed below.

If this product develops a fault within the guarantee period contact your retailer.

Please retain this handbook in case you need to refer to safety, care or guarantee information in the future.

GUARANTEE

This **Erbauer** product carries an Erbauer Ltd guarantee of 24 months. If your product develops a fault within this period, you should, in the first instance contact your retailer. If the fault occurs within the first 24 months, you may return the goods for a full refund or we will repair or replace the goods if you prefer. When repair is not practical or identical goods are not available, alternative goods of similar specification and quality will usually be provided but, failing this, you will be offered a partial or full refund depending on the time period since purchase.

This guarantee specifically excludes losses caused due to:

- Fair wear and tear
- Misuse or abuse
- Lack of routine maintenance
- Failure of consumable items (such as batteries)
- Accidental damage
- Cosmetic damage
- Failure to follow manufacturer's guidelines
- Loss of use of the goods
- Repairs attempted by anyone, unless authorised by Erbauer Ltd.

This guarantee does not affect your statutory rights. This guarantee is only valid in the UK.

For further technical advice and spare parts, please contact your retailer quoting your Erbauer model number.

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.

SAVE THESE INSTRUCTIONS

The term “power tool” in the warning refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

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.

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 dust masks that are specially designed to filter microscopic particles.

SAFETY INSTRUCTIONS FOR ALL SAWS

a. DANGER: Keep hands away from cutting area and the blade. Keep your second hand on the handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.

b. Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.

c. Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.

d. Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimise body exposure, blade binding, or loss of control.

e. Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.

f. When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.

g. Always use blades with correct size and shape (diamond versus round) of arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.

h. Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

Further safety instructions for all saws

Causes and operator prevention of kickback:

- kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- when the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

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

- a. Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces.** Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- b. When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop.** Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
- c. When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material.** If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- d. Support large panels to minimise the risk of blade pinching and kickback. Large panels tend to sag under their own weight.** Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- e. Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.**
- f. Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.**
- g) Use extra caution when making a “plunge cut” into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.**

Safety instructions for saws

- a) Check lower guard for proper closing before each use.** Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- b) Check the operation of the lower guard spring.** If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- c) Lower guard may be retracted manually only for special cuts such as “plunge cuts” and “compound cuts.”** Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
- d) Always observe that the lower guard is covering the blade before placing saw down on bench or floor.** An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

ADDITIONAL SAFETY INSTRUCTIONS FOR YOUR MITRE SAW



Warning: Be sure to read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

- 1. Know your power tool.** Read operator's manual carefully. Learn the applications and limitations, as well as the specific potential hazards related to this tool.
- 2. Always wear safety glasses or eye shields when using this mitre saw.** Everyday eyeglasses have only impact-resistant lenses; they are not safety glasses.
- 3. Always protect your lungs.** Wear a face mask or dust mask if the operation is dusty. Always use dust extraction equipment to minimise dust.
- 4. Always protect your hearing.** Wear hearing protection during extended periods of operation.
- 5. Always inspect the tool cords periodically and if damaged have them repaired.** Always be aware of the cord location.
- 6. Always check for damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine if it will operate properly and perform its intended function. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. A guard or other part that is damaged should be properly repaired or replaced at a qualified service centre.
- 7. Do not abuse the cord.** Never use the cord to carry the tools or pull the plug from the socket. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- 8. Always make sure that your extension cord is in good condition.** When using an extension cord be sure to use one that is heavy enough to carry the current that your tool will draw. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating.
- 9. Always inspect and remove all nails from lumber before sawing.**
- 10. Do not use the tool while tired or under the influence of drugs, alcohol or any medication.** Following this rule will reduce the risk of electric shock, fire or serious personal injury.
- 11. Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If someone borrows this tool, make sure they have these instructions also.
- 12. When the correct blade to cut the material has been fitted, this saw is recommended for cutting wood and plastic only.**
- 13. Do not use saw blades with High Speed Steel (HSS) or damaged or deformed blades.**
- 14. Replace the table insert when worn.**
- 15. Use only saw blades recommended by the manufacturer and which have the exact bore and diameter required for this machine.**
- 16. Connect your mitre saw to a dust collecting device (I. D.Ø32mm) when sawing.**
- 17. Select saw blades in relation to the material to be cut.**
- 18. Check the maximum depth of cut.**
- 19. When sawing long work pieces, always use extra support to provide better support, and use clamps or other clamping device**

20. The operator is adequately trained in the use, adjustment and operation and operation of the machine.
21. Provide for adequate room lighting at your workplace or for adequate lighting of the immediate work area.
22. **When fitted with laser no exchange with different type of laser is permitted.** Repairs shall only be carried out by the laser manufacturer or an authorised agent.
23. **Refrain from removing any cut-offs or other parts of the workpiece from the cutting area whilst the machine is running and the saw head is not the rest position.**
24. **Never stand on this tool. Serious injuries could occur when this tool tips over or when coming in contact with the saw blade.**
25. **Only use the saw with guards in good working order and properly maintained, and in position.**
26. **Keep the floor area free of loose material e.g. chips and cut-offs.**
27. **Ensure the speed marked on the saw blade is at least equal to the speed marked on the saw.**
28. **Warning. Not replace the laser with a different type.** Instruction that repairs shall only be carried out by the laser manufacturer or an authorised agent.



WARNING: the operation of any mitre saw can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shield and a full face shield when needed.



WARNING: If any parts are missing, do not operate your mitre saw until the missing parts are replaced. Failure to follow this rule could result in serious personal injury.

CARRYING YOUR MITRE SAW

Safety Advice

1. **Although compact, this saw is heavy.** To reduce the risk of back injury, get competent help whenever you have to lift the saw.
2. **To reduce the risk of back injury, hold the tool close to your body when lifting.** Bending your knees so you can lift with your legs, not your back. Lift by using the handhold areas at each side of the bottom of the base.
3. **Never carry the mitre saw with the battery pack attached to the machine.** Be careful to avoid touching the on/off trigger switch in the handle. Carrying the machine by the cutting handle with the battery pack attached risks accidental starting of the machine.
4. **Before moving the saw tighten the slide lock knob, mitre handle and bevel lock knob to guard against sudden movement.**

WARNING!

Do not use the blade guard as a 'lifting point'.

The battery pack should be removed from the mitre saw before attempting to move the machine.

- Lock down the head using the head locking pin.
- Move the cutting head to its outermost position and lock in place by tightening the slide lock knob.
- Loosen the mitre angle lock knob. Pull up the mitre angle lever and rotate the table to either of its maximum settings.
- Lock the table in position using the locking knob.
- Use the two carry handle cut-outs machined into either end of the machine base, to transport the machine.

Place the saw on a secure stationary work surface and check the saw over carefully.

Check particularly the operation of all the machines safety features before commissioning or operating the machine.

SAFETY RULES FOR YOR ERBAUER BATTERY CHARGER

**WARNING! READ AND UNDERSTAND ALL OF THESE INSTRUCTIONS.
SAVE THESE INSTRUCTIONS FOR FUTURE OPERATOR USE.**

- 1. Read all instructions and cautionary labels on the charger and the battery pack before use.**
- 2. Do not insert a damaged battery pack into the charger.** There is a danger of electric shock.
- 3. Do not use an extension cord unless absolutely necessary.** Use of an improper extension cord could cause the risk of fire, electric shock or electrocution.
- 4. The charger is designed to be used from a standard domestic supply.** Do not attempt to connect the charger to a supply with a different voltage.
- 5. Do not use the charger outdoors or expose to wet or damp conditions.** Water entering the charger will increase the risk of electric shock.
- 6. Use this charger only with the designated rechargeable battery packs.** Other types of battery may overheat and burst causing personal injury or damage.
- 7. Do not abuse the charger cord.** Never use the cord to carry the charger. Do not pull the cord rather than the plug when disconnecting from the power supply. Replace damaged cords immediately.
- 8. Ensure that the power cord is routed so that it does not pose a trip hazard.** Also ensure that it cannot come into contact with sharp edges or moving parts which could cause damage to the cord.
- 9. Do not use any attachment not recommended or sold by the battery charger manufacturer.** Use of unauthorised attachments or battery packs could lead to a significant risk of electric shock, fire or personal injury.

- 10. Keep the power cord and the charger body from heat sources.** Heat can damage the charger body and/or internal parts.
- 11. Do not use this charger if the cord or plug is damaged.** A damaged cord or plug must be replaced before the charger can be used.
- 12. Do not use the charger if it has been dropped, received a sharp blow or in any other way has been damaged.** Have the charger checked at an authorised service centre.
- 13. Do not disassemble charger.** Take to an authorised service centre when service or repair is required.
- 14. Unplug the charger from the mains power supply when attempting maintenance or cleaning.** This will reduce the risk of electric shock.
- 15. Disconnect the charger from the mains supply when not in use.** Store in a locked cupboard out of children's reach. Do not store with any other small metallic items that could fall into the charger battery-pack port. Do not store in locations where the temperature may reach or exceed 50° C.
- 16. Do not touch any of the uninsulated terminals in either the battery charger or the battery pack.** Terminals may be 'live' and there is a risk of electric shock.

WARNING

This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the safe use of the machine by a person responsible for their safety.

Children should be supervised to ensure that they do not have access to, and are not allowed to play with, this machine.

CARE OF YOUR ERBAUER BATTERY PACK

- 1. Do not charge the battery pack when the temperature is below 0°C (32°F) or above 40°C (104°F). Allow to cool down after charging.** Charging is at its most efficient when carried out between 18-24° C.
- 2. Only use the battery charger supplied with your Erbauer machine.** Other chargers may be dangerous.
- 3. Always protect the battery terminals when the battery pack is not used.** Cover the terminals with a heavy insulation tape to ensure that a short circuit cannot occur. Batteries, when stored for a long period of time, will discharge naturally.
- 4. Do not short the battery pack.** Do not attempt to open the battery pack. If the casing is damaged or cracked, do not use or charge. Send the damaged battery pack for recycling.

Warning: A battery short can cause a large current flow, overheating, possible burns and even irreparable damage to the battery.

5. Do not touch the terminals with any conductive material.
6. Avoid storing the battery pack in a container with other metal objects such as nails, coins, etc. Do not carry the battery pack in a pocket or similar containing other metallic objects.
7. Do not expose the battery pack to water or rain.
8. Do not store the battery pack in locations where the temperature may reach or exceed 50°C (122°F).
9. Do not incinerate the battery pack even if it is severely damaged or is completely worn out. The battery pack can explode in a fire.
10. Be careful not to drop, shake or strike the battery.
11. Under extreme conditions electrolyte may be leak from the battery. If contact accidentally occurs, flush your skin with water. If electrolyte contacts your eyes, additionally seek medical help. Electrolyte from the battery may cause irritation or burns

Caution: Do not let familiarity with your mitre saw make you careless. Remember that a careless fraction of a second is sufficient to cause severe injury.

Important note

Be sure the supply is the same as the voltage given on the rating plate. The tool is fitted with a two-core cable and plug. Remove the mains plug from socket before carrying out any adjustment or servicing.

SAFETY RULES FOR LASER LIGHT

The laser light/laser radiation used is Class 2 with maximum 1mW power and 650nm wavelength.

These lasers do not normally present an optical hazard, although staring at the beam may causeflash blindness.



WARNING: Do not stare directly at the laser beam. A hazard may exist if you deliberately stare into the beam, please observe all safety rules as follows:

- The laser shall be used and maintained in accordance with the manufacturer's instructions.
- Never aim the beam at any person or an object other than the workpiece.
- The laser beam shall not be deliberately aimed at personnel and shall be prevented from being directed towards the eye of a person for longer than 0.25s.
- Always ensure the laser beam is aimed at a sturdy workpiece without reflective surfaces. i.e. wood or rough coated surfaces are acceptable. Bright shiny reflective sheet steel or the like is not suitable for laser use as the reflective surface could direct the beam back at the operator.
- Do not change the laser light assembly with a different type. Repairs must be carried out by the laser manufacturer or an authorised agent.

SPECIFIC SAFETY RULES & SYMBOLS



WARNING!

Do not operate machine if warning and / or instruction labels are missing or damaged.

Symbol	Description
V	Volts
A	Amperes
Hz	Hertz
Min ⁻¹	Speed RPM
DC	Direct Current
~	Alternating Current
no	No Load Speed
	Double Insulated
	Wear Safety Goggles
	Wear Ear Protection
	Wear Dust Mask
	Read Instruction Manual
	Laser Warning Symbol
CE	Conforms to relevant safety standards
	General Warning
	For indoor use only
	Charging time
	Max charging temperature
	Do not throw into fire
	Do not throw into water or expose to rain

Only use genuine Erbauer replacement saw blades. Unauthorised blades may be dangerous! Keep saw blades securely fastened. Check the blade flanges for debris before installing any new blade. Do not use dull, broken or damaged blades. Check the blade regularly for condition and wear. A damaged or worn blade should be replaced immediately. Beware of ejecting chips as they may be HOT. Always make provision for the safe handling of excess material. Keep the machine base and rotary table free from dirt and other debris.

ERBAUER 24V 165MM SINGLE BEVEL MITRE SAW

RH OVERVIEW OF MITRE SAW

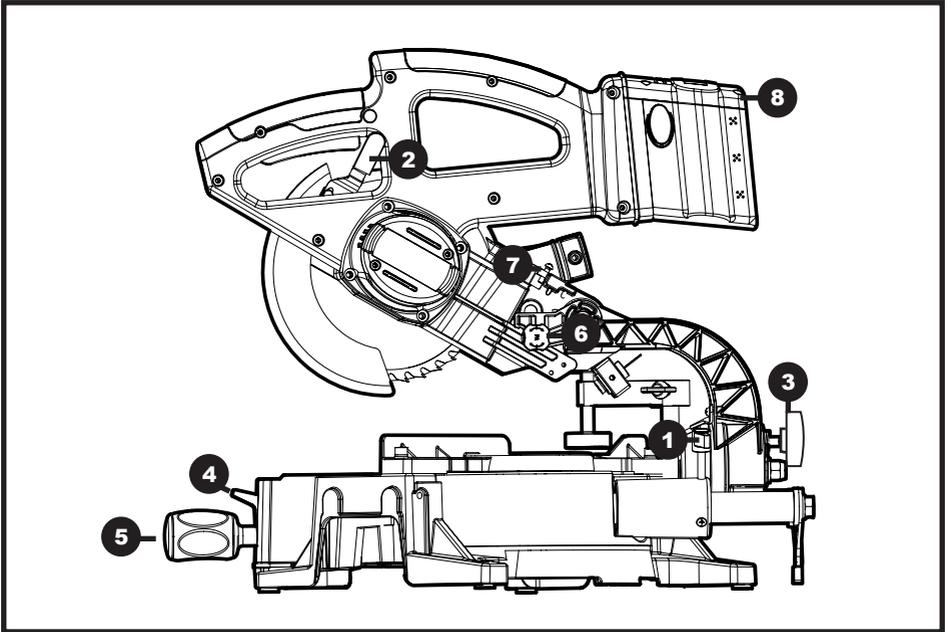


Fig 1

ERBAUER 24V 165MM SLIDING BEVEL MITRE SAW SPECIFICATION

-
1. SLIDE CARRIAGE LOCK KNOB

 2. SAFETY HEAD RELEASE LEVER

 3. POSITIVE STOP LOCKING LEVER

 4. MITRE LOCK HANDLE

 5. MITRE LOCK HAND-WHEEL

 6. SAW HEAD LOCK PIN

 7. DEPTH GAUGE

 8. BATTERY
-

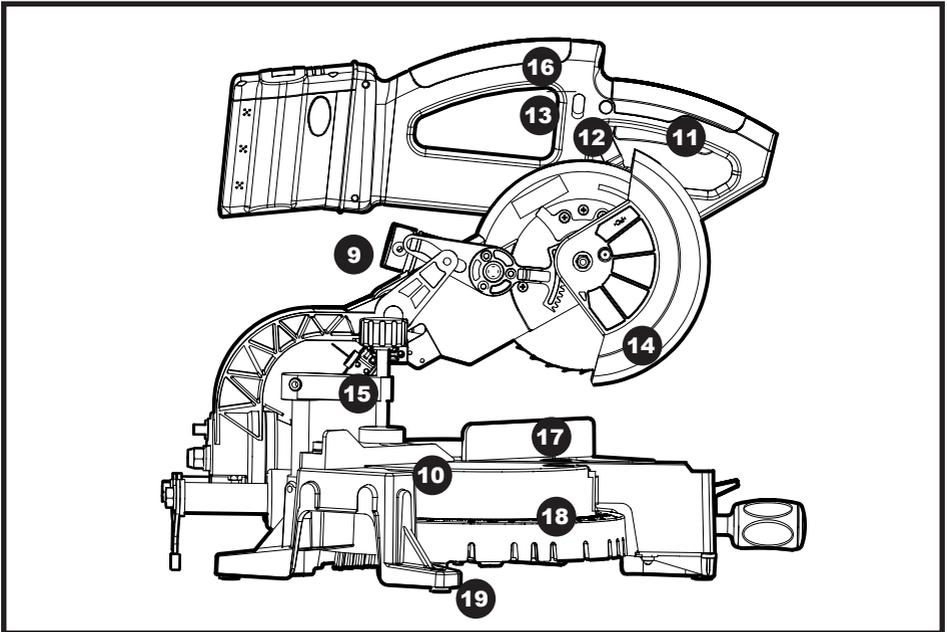


Fig 2

ERBAUER 24V 165MM SLIDING BEVEL MITRE SAW SPECIFICATION

-
- 9. DUST BAG OUTLET

 - 10. TABLE TOP

 - 11. ON/OFF TRIGGER SWITCH

 - 12. TRIGGER SWITCH SAFETY LOCK BUTTON

 - 13. LASER SWITCH

 - 14. RETRACTABLE SAFETY GUARD

 - 15. HOLD DOWN CLAMP

 - 16. CARRY HANDLE

 - 17. FENCE

 - 18. MITRE SCALE

 - 19. MOUNTING HOLES
-

ERBAUER 24V 165MM SINGLE BEVEL MITRE SAW

TECHNICAL DATA

Volts: 24V DC

Rated No-load speed 4500 min⁻¹

Net weight: 9.5 kg (With Battery) 8.26 kg (Without Battery)

Blade Diameter (6.5") 165mm

Bore Diameter (5/8") 16mm

Blade Thickness 2.6mm

Maximum Cutting Capacity (Wood)

At 90° mitre x 90° bevel 180mm x 50mm

At 45° mitre x 45° bevel 125mm x 20mm

0° mitre x 45° bevel 50mm (H) x 125mm (L)

45° mitre x 0° bevel 20mm (H) x 180mm (L)

Charger Input 230-240V ~

Charger Output 24V DC

Charging Time 90 mins (approx)

Discharge time 30 mins

Battery Type NiCd

Rated Voltage 24V DC

Rating 2.0Ah

NOISE AND VIBRATION DATA

Sound pressure level $L^{PA} = 94$ dB(A) K=3dB(A)

Sound power level $L^{WA} = 107$ dB(A) K=3dB(A)

Vibration level: <2.5m/s²

- The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.
- The declared vibration total value may also be used in a preliminary assessment of exposure.

WARNING: The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and of the need to 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).

ACCESORIES

- 1x instruction manual
- 1x 'C'- Spanner (for blade release)
- 1x Hex-headed spanner (for blade release)
- 1x Hex Key (for fence adjustment)
- 1x Dust Collection bag
- 1x Hold-down clamp
- 1x Battery charger
- 1x 24v battery
- 1x Blade (fitted)

Additional Accessories

In addition to the standard accessories supplied with this machine, other accessories are available to improve its performance, these include the following items:

1. Clamping System – the design of this machine allows for the use of a top clamp which can be fitted either side of the blade in the sockets incorporated into the fence.

Additional accessories can be obtained by contacting your local dealer (or Erbauer Power Tools).

GETTING STARTED

CAUTION! ALWAYS REMOVE BATTERY PACK BEFORE MAKING ANY ADJUSTMENTS.

1. MOUNTING YOUR MITRE SAW

Warning: To reduce the risk of injury from unexpected saw movement, place the saw in the desired location either on a workbench or other suitable machine stand. The base of the saw has four mounting holes through which suitable bolts can be placed to secure the mitre saw. If the saw is to be used in one location, permanently fasten it to the workbench using appropriate fastenings. Locking washers and nuts should be used on the underside of the workbench.

1. Tighten the mitre and bevel locks. See operating instructions.
2. To avoid injury from flying debris, position the saw so that other people or bystanders cannot stand too close (or behind) it.
3. Locate the saw on a firm, level surface where there is plenty of room for handling and properly supporting the workpiece.
4. Support the saw so the machine table is level and the saw does not rock.
5. Bolt or clamp the saw securely to its support stand or workbench.

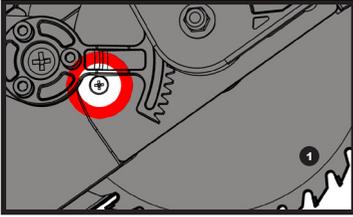


Fig 1

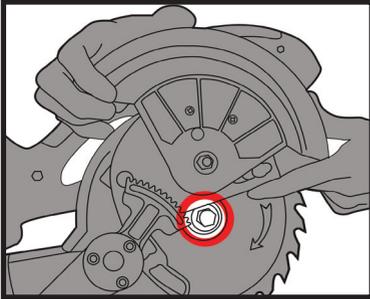


Fig 2

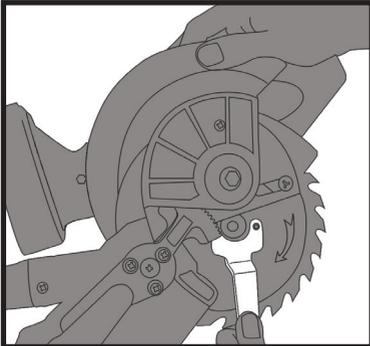


Fig 3

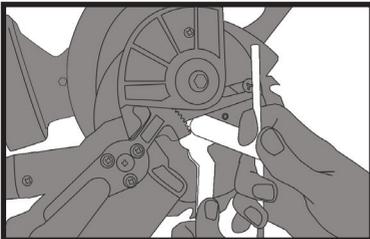


Fig 4

2. INSTALLING OR REMOVING A BLADE

Warning: Only use genuine Erbauer blades which are designed for this machine. Ensure that the maximum speed of the blade is compatible with the machine.

Note: It is recommended that the operator considers wearing protective gloves when handling the blade during installation or when changing the machines blade.

1. Ensure the cutting head is up and the battery is removed from the machine. See section (Installing/removing the Battery Pack) below.

2. Press the lower guard lock lever and rotate the lower guard upwards to access the blade cover plate.

3 Release the cover plate from the machine by removing the cross-headed screw securing the black cover plate to the top guard (Fig 1). Store this screw safely for future use.

4. The front locating screw is a fixed shoulder screw and should not be touched. Slide and rotate the cover plate to expose the blade arbor nut. (Fig 2)

5. Locate the pins of the 'C' spanner into the holes in the outer blade flange, and hold the spanner firmly to prevent the arbor from rotating. (Fig. 3)

6. Using the supplied Hex-headed spanner release the arbor screw to remove the blade. (Fig. 4)

Note: The arbor screw has a left hand thread.

7. Install the new 165 mm (6.5") blade. Make sure the rotation arrow on the blade matches the clockwise rotation arrow on the upper guard. The blade teeth should always point downward at the front of the saw. (Fig 5)

8. Re-install the outer blade flange ensuring that it is seated correctly on the arbor.

9. Refit and hand-tighten the arbor screw.

10. Prevent arbor rotation by using the 'C' spanner as in point 5 above

11. Tighten the arbor screw using moderate force, but do not overtighten.

12. Rotate the cover plate back to its original position, ensuring that the lower blade guard completely covers the blade.

13. Ensure that the lower blade guard operating cog has engaged with the geared quadrant operating lever. (Fig 6)

14. Replace the cross-headed screw and tighten to secure the cover plate into its operational position.

15. Ensure that both blade changing spanners are removed and safely stored for future use.

16. Check the operation of the guard mechanism.

Warning: Ensure the blade guard is fully functional before using the machine.

Note: Spacers and spindle rings should not be used with this machine and/or blade

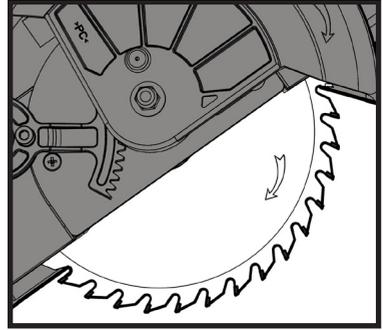


Fig 5

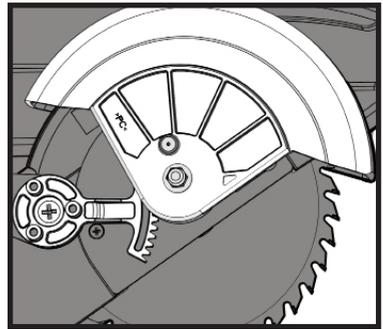


Fig 6

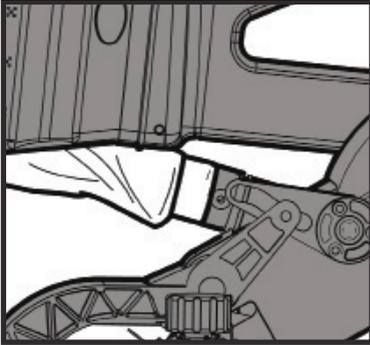


Fig 7

3. DEBRIS COLLECTION BAG

The Debris Collection Bag should be attached at the debris extraction port.

1. Slide the frame of the collection bag on to the outlet of the extraction port, ensuring that it is firmly connected. (Fig 7)
2. To release the bag, slide the frame in the opposite direction.

Note: To ensure optimal dust collection, empty the dust bag when it becomes approximately 2/3 full.

4. CHARGING A BATTERY PACK PRIOR TO USE

A Battery Pack must be inserted into the tool as detailed below. It is important that the Battery Pack is of the designated type recommended for this machine.

Newly purchased Battery Packs do not come fully charged, and should be charged before use.

Note: Battery power and performance will improve after several discharge/charging cycles have been completed.

WARNING: The battery pack and battery charger supplied are specially designed to work together. Do not attempt to use any other charger or battery pack with this Erbauer Mitre Saw.

1. Position the charger on a work bench or similar in a well ventilated location away from any heat source and ensure that the charger cannot be covered by workshop cloths etc.
2. Plug the charger into a suitable power socket. The red LED will illuminate.
3. Slide the Erbauer 24V battery pack into the docking port of the charger while squeezing the buttons located on either side of the battery casing. The battery will only fit in one way round.

4. Firmly slide the battery pack down into the charger to ensure terminal connection. The battery locking tabs should positively engage the charger.
5. Press the button on the top RH side of the charger just below the LED indicators. The green LED will illuminate to show that the battery is fast charging.
6. Remove the battery pack from the charger when the green LED goes out (approx 1 hour), and store the charger safely for future use. Remove the battery pack by pressing the two buttons on either side of the pack and slide the pack from the charger.

5. INSTALLING OR REMOVING THE BATTERY PACK

Check that the battery pack is of the designated type for this machine. We recommend that the trigger switch is locked in the **OFF** position when removing or inserting the Battery Pack. Refer to **OPERATING INSTRUCTIONS 4**.

- a. Slide the Battery Pack onto the back of the machines handle. The Battery can only fit one way round.
- b. Firmly slide the Battery Pack fully onto the tools handle to engage the locking tabs. The electrical connections inside the handle will be made automatically.
- c. To remove the Battery Pack, simply press the two locking buttons with your finger and thumb and slide the Battery Pack from the handle.

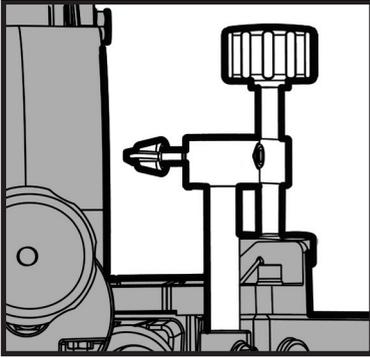


Fig 8

6. HOLD DOWN CLAMP

1. Hold down clamps can be fitted on either side of the saw and are fully adjustable to suit the size of the workpiece (see fig 8). The clamp will fit into either of the posts integrated into the machine fence.
2. Do not operate the saw without clamping the workpiece.
3. Make sure that the hold down clamp securing screws are tightened.

Warning: Always check clamp position does not interfere with any saw operation. Before switching on, lower the saw head to ensure the clamp clears the guard and saw head assembly.

7. FENCE

The width of the fence 'mouth' can be altered by adjusting the LH side of the fence. This may be necessary to provide clearance for the blade when extreme mitre and bevel angles are selected. (Fig 9)

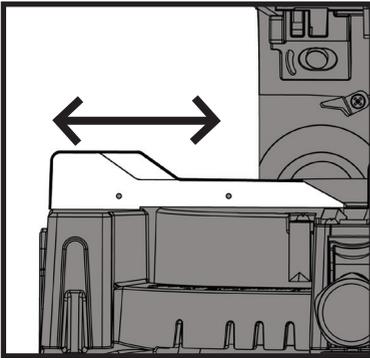


Fig 9

1. Ensure that the battery is removed from the machine.
2. Loosen the two countersunk headed screws with the hex key provided.
3. Slide the adjustable fence front plate to the desired position.
4. Check that the blade does not foul the fence by conducting a 'dry run' with the cutting head set to the required bevel and mitre angle.
5. When satisfied that the blades path is unobstructed tighten the two screws and replace the battery.

OPERATING INSTRUCTIONS

Caution: The Mitre Saw should be inspected (particularly for the correct functioning of the safety guards) before each use. Do not connect the saw to the power supply until a safety inspection has been carried out.

Ensure that the operator is adequately trained in the use, adjustment and maintenance of the machine, before connecting to the power supply and operating the saw.

WARNING: To reduce the risk of injury, always remove the battery from the saw before changing or adjusting any of the machines parts. Compare the direction of the rotation arrow on the guard to the direction arrow on the blade. The blade teeth should always point downward at the front of the saw. Check the tightness of the arbor screw.

1. THE LASER GUIDE

This saw is equipped with a laser cutting guide which is powered from the battery pack. This allows the operator to preview the path of the blade through the workpiece but should be regarded as a useful guide only. The slide ON/OFF switch for the Laser Guide is positioned on the LH side of the operating handle. (Fig 10)

Avoid direct eye contact, and do not use on material that could reflect the laser beam.

WARNING:

Do not stare directly at the laser beam. A hazard may exist if you deliberately stare into the beam, please observe all safety rules as follows.

- The laser beam shall not be deliberately aimed at personnel and shall be prevented from being directed towards the eyes of a person.

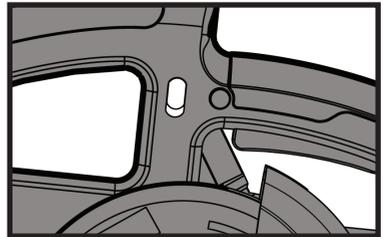


Fig 10

- Always ensure the laser beam is only aimed at workpieces without reflective surfaces, i.e. wood or rough coated surfaces are acceptable.
- Do not change the laser module assembly with a different type.
- Repairs to the laser module must only be conducted by Erbauer Power Tools or their authorised agent.

2. RELEASING THE SAW HEAD

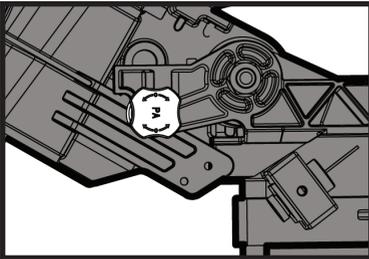


Fig 11

- Gently press down on the cutting handle.
- Pull out the cutting head stop latching knob and allow the head to rise to its upper position. (Fig 11)
- Twisting the latching knob $\frac{1}{4}$ of a turn in either direction will prevent the latching knob from re-engaging its locking socket.
- When operations are completed the latching knob should be returned to its original position so that the cutting head can be locked in its down position

Note; We recommend that when the machine is not in use the cutting head is locked in its down position, and the latching knob fully engaged in its socket.

3. PREPARING TO MAKE A CUT

- Avoid awkward operations and hand positions where a sudden slip could cause fingers or hands to move into the blade.
- Cut only one workpiece at a time.
- Clear everything except the workpiece and related support devices away from the blade before turning the mitre saw on.
- Secure workpiece using clamps to hold the workpiece securely and use additional workpiece supports as necessary.

4. THE TRIGGER SWITCH

The on/off trigger switch is located in the front handle. To switch on, the safety lock button located on the LH side of the handle just in front of the laser slide switch must first be pressed in. (Fig 12) The trigger switch can then be used.

When a cut is completed and the trigger switch is released the trigger safety lock button will automatically lock the trigger switch in the 'off' position.

5. BODY AND HAND POSITION

- a) Never place hands within the 'no hands zone' (at least 150mm away from the blade). Pictograms on the machines table are provided as an aid to safe working practices. Keep hands away from the path of the blade.
- b) Hold the workpiece firmly to the fence to prevent any movement. Use a clamp if necessary but check that it is positioned so that it does not foul the blade.
- c) Before attempting a cut, make a 'dry run' with the power off so that you can see the path of the blade.
- d) After completing a cut keep your hands in position until the trigger has been released and the blade has come to a complete halt.

6. CHOP CUTTING

The slide lock knob (Fig 13) is tightened to lock the cutting head at its rearmost position. The saw handle is pushed down to cut through the workpiece. This type of cut is used mainly for narrow pieces.

- a) Place the workpiece on the table and against the fence in the desired position. Secure with clamps if necessary.
- b) Grasp the saw handle.
- c) Turn on the saw using the trigger switch and allow the blade to reach full operating speed.

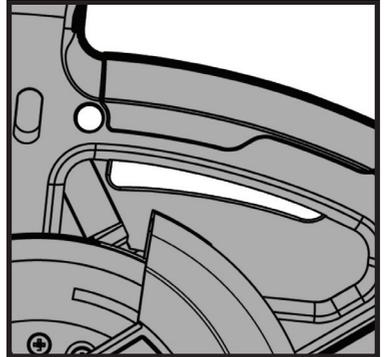


Fig 12

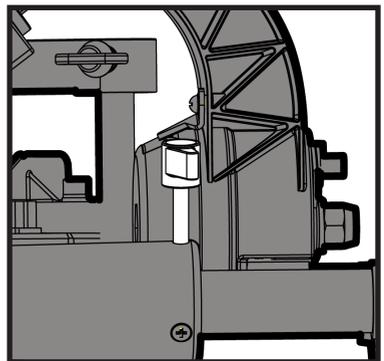


Fig 13

- d) Press the lower guard release lever to release the saw head.
- e) Gently push the saw head down and cut through the workpiece.
- f) After the cut is completed, turn off the saw using the trigger switch, and allow the blade to come to a complete halt.

7. SLIDE CUTTING

Caution: NEVER pull the saw towards you when making a cut. The blade can suddenly climb up on top of the workpiece and force itself toward you.

This saw is equipped with a sliding carriage system.

Loosening the slide lock knob will release the slide (Fig 14) and allow the cutting head to move forwards and backwards.

During slide cutting the saw blade is lowered into the workpiece and then pushed to the rear of the saw to complete the cut. This type of cut can be used for cutting wide pieces.

1. Put the workpiece against fence and secure with clamps as appropriate.
2. Loosen the slide lock knob.
3. Grasp the saw handle and pull the cutting head until the arbor (centre of saw blade) is over the front edge of the workpiece.
4. Press the lower blade guard locking trigger for cutting head release.
5. Switch on the saw and allow the saw to reach full speed.
6. Push the saw handle all the way down and cut through the leading edge of the workpiece.
7. Gently push the saw handle towards the fence completing the cut.
8. Push the cutting head to the full rear position after each cut.
9. Release the trigger to switch off the saw. Allow the blade to come to a complete halt before moving hands or removing the workpiece.

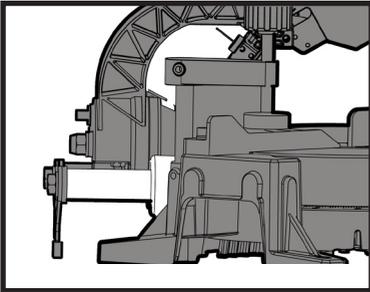


Fig 14

8. MITRE CUTTING

An angle of up to 45° to the left or right can be obtained and a protractor scale can be found on the front of the machine table. Positive stops are provided at 15°, 22.5°, 30° and 45° right and left.

1. Loosen the slide locking knob and push the cutting head back as far as it will go and lock the slide.
2. Loosen the mitre angle lock knob. (Fig 15 a)
3. Push down the positive stop locking lever. (Fig 15 b)
4. Turn the rotary table to the desired angle as indicated by the mitre angle pointer.
5. Tighten the mitre angle lock knob to hold the desired angle.
6. If necessary unlock the cutting head by loosening the slide locking knob. This will allow the cutting head to move backwards and forwards (required when cutting wide boards).
7. Start the saw and allow it to reach full speed before commencing operations.

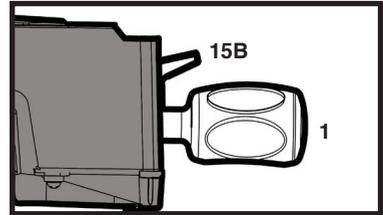


Fig 15

9. BEVEL CUTTING

The cutting head can be tilted up to 45° to the left hand side only. A large Bevel Lock hand wheel can be found at the rear of the machine, and a 0-45° protractor scale is positioned on the slide carriage casting to the front of the hand wheel. (Fig 16)

1. Lock the cutting head down with the head latching pin.
2. Loosen the bevel lock hand wheel.
3. Tilt the cutting head to the required angle. A protractor scale and pointer is provided to aid setting.
4. Tighten the bevel lock hand wheel securely when the desired angle is achieved.
5. Unlatch the cutting head.
6. Release the slide (if necessary) to cut wide workpieces.
7. Stand to the left side of the handle to make the cut.
8. When the cut is completed, release the trigger switch and allow the saw blade to come to a complete halt, before removing the workpiece or your hands from the saw.

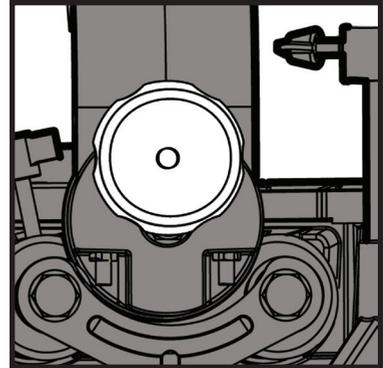


Fig 16

10. COMPOUND CUTTING

A compound cut is a combination of a mitre and bevel cut.

- a) Select the required mitre angle as previously described.
- b) Select the required bevel angle as previously described.
- c) Ensure the tightness of all adjustment/locking screws before making a cut.

11. SUPPORTING LONG WORKPIECES

The free end of a long workpiece should be supported at the same height as the machine table. The operator should consider using a remote workpiece support stand, or enlisting competent trained help to support long workpieces.

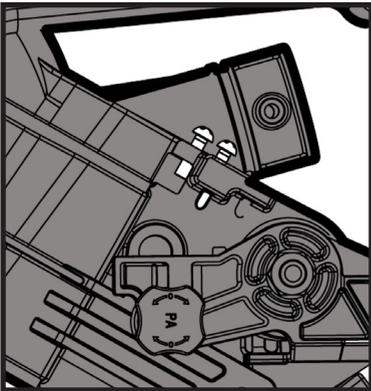


Fig 17

12. DEPTH STOP (Fig 17)

Use of the depth stop allows the operator to cut slots in the workpiece. The downward travel of the saw head can be set so that the saw blade does not completely cut through the workpiece. Note: It is advisable that the depth of cut is checked using a scrap piece of timber to ensure that the slot cut is correct.

By making a cut in the workpiece, and then repeating the cut but with the workpiece slightly repositioned to the left or right, it is possible to perform trenching cuts.

To use the depth stop:

1. Loosen the locking nut.
2. Deploy the depth stop plate by easing it outwards.
3. Adjust the socket headed screw to limit the saw heads travel to the required depth.
4. Once set to the desired depth, tighten the locknut against the retaining bracket to lock the depth stop screw and ensure that there is no movement.
5. When cutting is complete re-adjust the depth stop so that the cutting head can be locked in the down position by the head latching pin.
6. Return the depth stop plate to its original position.

13. CUTTING BOWED MATERIAL

Before cutting any workpiece, check to see if it is bowed. If it is bowed the workpiece must be positioned and cut as shown. See Figs 18 & 19

Do not position the workpiece incorrectly or cut the workpiece without the support of the fence.

14. CLEARING JAMMED MATERIAL

1. Turn the mitre saw "OFF" by releasing the trigger switch.
2. Allow the blade to come to a complete halt.
3. Remove the battery pack from the mitre saw.
4. Remove any jammed material from the unit.
5. Re-install the battery pack.

15. TRANSPORTING

When transporting the saw between locations make sure that:

1. The saw head is locked in the down position.
2. The rotary table mitre handle, the bevel locking lever and the slide locking knob are all securely tightened.
3. Use the transportation handle cut-outs on either side of the machine base to lift the saw. Do not lift the saw by the switch handle alone.

Note

Although compact this saw is quite heavy, Enlist competent help, if necessary, when transporting this saw.

MAINTENANCE & ADJUSTMENTS PRECISION SETTING OF ANGLES

Warning: Before making any adjustments, or carrying out maintenance to the saw, make sure that it is disconnected from the mains supply.

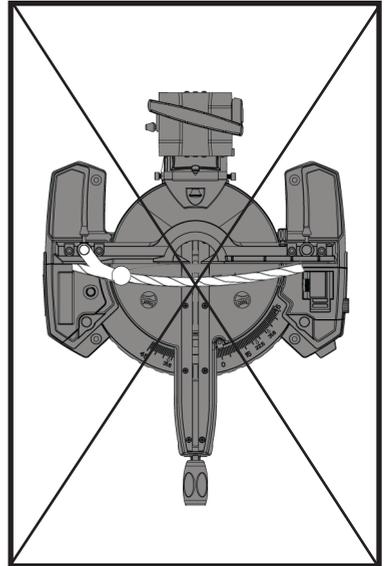


Fig 18

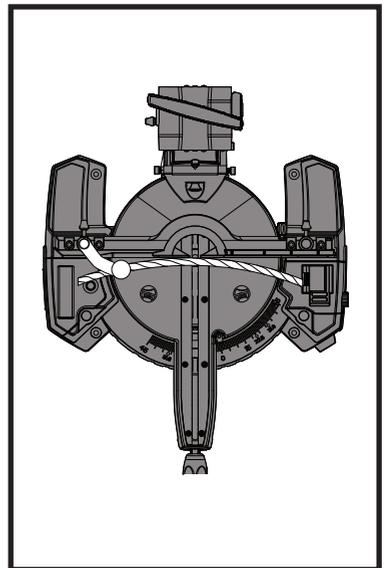


Fig 19

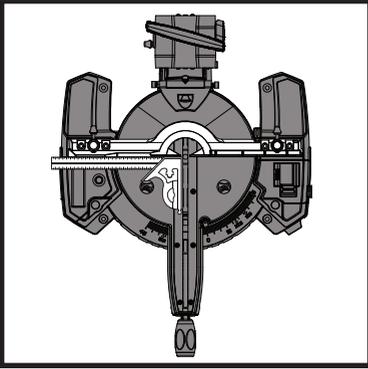


Fig 20

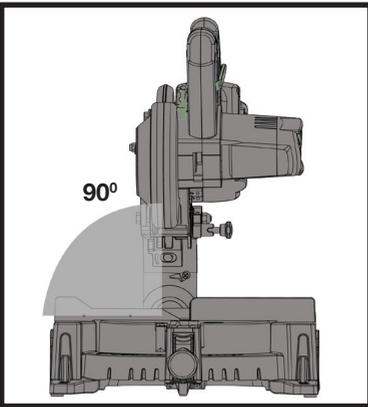


Fig 21

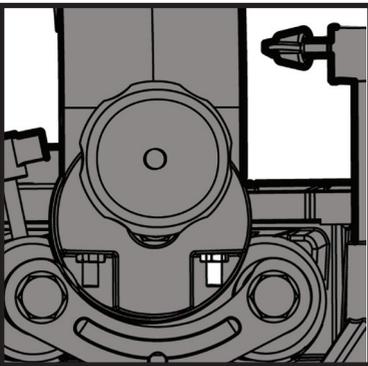


Fig 22

When all adjustments, settings or maintenance have been completed, make sure that all keys or wrenches have been removed, and that all screws, bolts and other fittings are securely tightened.

While the machine has been factory set, it is advisable that the 0° setting of the rotary table and the 90° perpendicular setting of the tilt head be checked, as these positions may have moved in transit.

To confirm the 0° rotary table setting:

- Set the rotary table at 0° and tighten the rotary table lock handle.
- Use an engineers square (not supplied) to check that the angle between the machines fence guide and the blade is 90° . (Fig 20)
- If the angle requires adjustment, loosen the two fence guide clamp screws and align the fence guide against the engineers square. Retighten the clamp screws.

Similarly check that the angle of the saw blade to the face of the table is 90° . (Fig 21)

To adjust:

- Loosen the locknut
- Using a suitable hex key screw the 90° adjustment screw clockwise or counter clockwise until correct alignment has been achieved. (Fig 22)
- Retighten the locknut.

The 45° bevel setting can also be adjusted.

- a) Set the cutting head to 45° and check the angle between the blade and the machine table with a 45° set square (not provided). (Fig 23)
- b) To adjust, loosen the 45° adjusting screw locknut and using a suitable hex key turn the adjusting screw clockwise or anti-clockwise until the correct alignment is achieved. (Fig 24)
- c) Retighten the locknut.

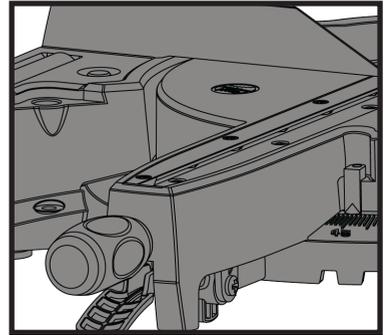


Fig 23

The position of bevel scale pointer may have moved in transit or after use. Use a screwdriver to adjust it if necessary.

ALIGNING THE LASER

Warning: For your safety, carry out all adjustments with the machine disconnected from the power supply. Only switch the laser on to confirm that adjustments have been successful.

Your saw is equipped with a Laser cutting guide using a Class II laser beam. This laser is powered from the machines battery pack. The saw must be connected to the power source and the laser on/off switch must be turned on for the laser line to show.

Laser radiated when laser guide is turned on. Avoid direct eye contact.

Laser Warning Label: Max output <1mW
Wavelength: 630-670nm EN60825-1:2007.

Laser radiation do, not stare into beam. Class 2 Laser Product Puissance.

Note: The laser alignment is factory set. Due to normal wear and use, some occasional readjustments may be necessary.

A. Check Laser Beam Alignment.

- 1) Mark a 90° straight line across a board to serve as a “pattern line” to test laser alignment. Lay the board on the mitre table.
- 2) Plug saw into outlet and turn on the laser beam and line it up with the pattern line.
- 3) Lower saw blade to pattern line and if blade is not flush with the pattern line, adjustment may be necessary

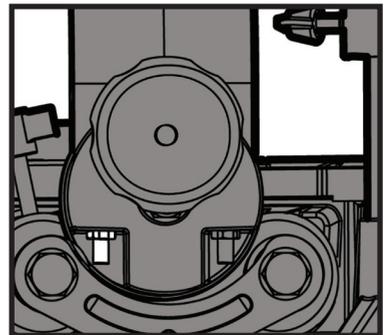


Fig 24

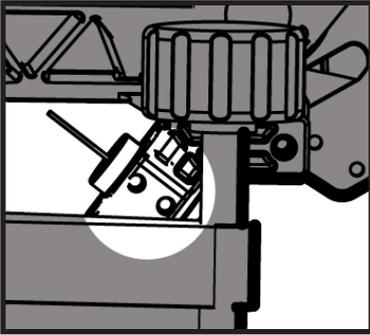


Fig 25

Four laser module mounting/adjustment screws are provided. Two hex socket grub screws are positioned on the LH side of the laser housing (Fig 25), and one on the RH side of the laser housing. A final cross-headed fixing screw is to be found just below the laser lens. These screws gently hold the laser module in place and on alignment by bearing on the laser modules casing. It is important that during any adjustment the pressure on the laser module casing is maintained as closely as possible to the factory setting. Do not over tighten any one screw – damage to the laser casing could result.

B) Adjusting the Angle of the Laser Guide

- 1) Loosen the cross-headed screw.
- 2) Loosen the single screw on the RH side of the laser housing $\frac{1}{4}$ a turn.
- 3) Turn the laser element in the desired direction to adjust the laser angle.
- 4) Retighten the adjustment screws.

C) Aligning the Laser Beam

1. Loosen the cross-headed screw.
- 1) Loosen the right hand screw $\frac{1}{4}$ of a turn.
- 2) Use the two adjusting screws on the LH side of the laser housing.
- 3) Adjust both screws until laser alignment is achieved.
- 4) Retighten right hand screw.
- 5) Retighten the cross-headed screw

Note: Use only the correct sized hex key when adjusting the grub screws. Turn one screw at a time and only $\frac{1}{4}$ turn in either direction before checking laser alignment. Maintain as far as possible the original factory pressure setting that these screws exert on the laser module

LUBRICATION & CLEANING

Note

Any maintenance must be carried out with the machine switched off and disconnected from the mains power supply.

All motor bearings in this machine are lubricated for life. No further lubrication is required.

Apply light machine oil to the machines pivot points and lower blade operating arm. Avoid excessive oil, to which sawdust will cling.

Periodically, sawdust may accumulate under the work table and the base. Use a vacuum cleaner to remove this sawdust.

Use a clean, slightly damp cloth to clean the plastic parts of the machine. Do not use solvents or similar products which could damage the plastic parts.

WARNING: Do not attempt to clean by inserting pointed objects through openings in the machines casings etc. The machines air vents should be cleaned using compressed dry air.

PLUG REPLACEMENT

The fuse in the main plug of your power tool should always be replaced with one of identical rating.

Check the voltage given on your power tool matches the supply voltage.

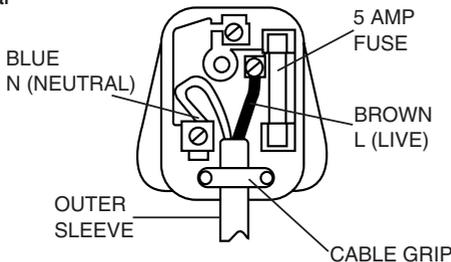
The power tool is supplied with a fitted plug, however if you should need to fit a new plug follows the instruction below.

IMPORTANT

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

Blue ---Neutral

Brown ---Live



The wire that is coloured blue must be connected to the terminal that is marked with the letter N. The wire that is coloured brown must be connected to the terminal that is marked with the letter L. A 13AMP (BS1363 or BS1363/A) plug must be used and a 5 AMP fuse must be fitted.

A 13AMP (BS1363 or BS1363/A) plug must be used and a 5 AMP fuse must be fitted.

ENVIRONMENTAL PROTECTION



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.

Erbauer®

DECLARATION OF CONFORMITY

We, Importer
Erbauer (UK) Ltd.
BA22 8RT

Declare that the product

Complies with the essential health and safety requirements of the following directives:
"2004/108/EC" – EMC Directive. "2006/42/EC" – Machinery Directive. "2006/95/EC - Low
Voltage Directive"

Standards and technical specifications referred to:

EN55014-1: 2006
EN55014-2/A2:2008
EN61000-6-3: 2007
EN61029-2-9: 2002
EN61029-1: 2009
EN60335-1
EN60335-2-29
EN50366
EN61000-3-2
EN61000-3-3

Authorised Signatory

Date: 30/09/2010

Signature: *P.C. Harries*

Name Peter Harries

Erbauer (UK) Ltd

Quality Manager



ERBAUER 24V 165MM SINGLE BEVEL MITRE SAW