

Erbauer®

+LITHIUM ION-



ERI490CSW

2Year
Guarantee

18V CIRCULAR SAW

ERI490CSW

Original Instructions
(Version 1.1)

Erbauer®

Congratulations on your purchase of a quality power tool from Erbauer (UK) Ltd. This product should give you reliable service but for your peace of mind this **Erbauer** power tool does carry a 2 year 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 a 2 year guarantee. If your product develops a fault within this period, you should in the first instance contact the retailer where the item was purchased.

This guarantee specifically excludes losses caused due to:

- Fair wear and tear
- Misuse or abuse
- Lack of routine maintenance
- Failure of consumable items (such as batteries)
- Accidental damage
- Cosmetic damage
- Failure to follow manufacturer's guidelines
- Loss of use of the goods

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

For further technical advice, spare parts or repair service (outside of guarantee) please contact the customer helpline number on 0845 607 6380.

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GENERAL POWER TOOL SAFETY WARNINGS



Warning! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

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

1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Battery tool use and care

a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.


c) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

6) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SAFETY WARNINGS FOR ALL SAWS

- a)  **Danger: Keep hands away from cutting area and the blade. Keep your second hand on auxiliary 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 minimize 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.** 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 arbour 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

Kickback causes and related warnings

- 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 INSTRUCTION FOR YOUR CIRCULAR SAW WITH INNER PENDULUM GUARD

- 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 RULES FOR YOUR CIRCULAR SAW

1. Always wear a dust mask, hearing protection and eye protection.
2. Only use saw blades recommended in the specification.
3. Do not use any abrasive wheels.
4. Use only blade diameter(s) in accordance with the markings.
5. Always wear gloves when handling saw blades and rough material. Saw blades shall be carried in a holder whenever practicable.
6. Fully unwind cable drum extension to avoid potential overheating.
7. Before cutting, check the cutting line is free of nails, screws, etc.
8. Only make cuts with the blade direction downwards, never upwards or at the side.
9. Do not use a blade unless the rated blade speed exceeds the saw no load speed.
10. Never remove the guard system. Never use the saw if the guard system does not function correctly. Never lock the moving guard open. The guard must move freely.
11. Never use saw blades made from high speed steel (HSS).
12. Always check walls, floors and ceilings to avoid hidden power cable and pipes.
13. Do not cut material containing asbestos.
14. Do not use circular saw to cut tree limbs or logs.

FOR CHARGER

1. This appliance 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 use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
2. Charger is double insulated for additional electrical safety.
3. Charger is for indoor use only.
4. If the charger supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
5. Never charge damaged batteries as these can short circuit and over heat.
6. When the charger is in use it **MUST** be supervised, if there is any evidence of overheating then **IMMEDIATELY** disconnect the charger from the power supply.
7. If gas or smoke is emitted from the battery during charging switch off the power supply, and move to a well vented area to allow the fumes to vent to atmosphere.
Caution: if there is leaking liquid from the battery wear protective clothing, glasses and clothes as this can be acidic.
8. Always disconnect battery charger and remove battery from charger when the charging is complete.
9. Only use the battery charger specifically stated on the base of the battery.

FOR BATTERY

1. Always remove the battery pack from the charger immediately after re-charging is completed.
2. When not in use, remove a charged battery pack from the charger.
3. Do not charge a damaged battery pack.
4. Do not charge non-rechargeable batteries.
5. Do not install the battery backwards so the polarity is reversed.
6. Do not connect the positive terminal and negative terminal of the battery to each other with any metal object (such as wire).
7. Do not carry or store battery together with necklaces, hairpins or other metal objects.
8. Do not pierce the battery with nails, strike the battery with a hammer, step on the battery or otherwise subject it to strong impacts or shocks.
9. Do not solder directly onto the battery.
10. Do not expose battery to water or salt water, or allow the battery to get wet.
11. Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite. The protection circuit module provided with battery packs is not to be used as a substitute for a shut-off switch.
12. Do not place the battery in or near fire, on stoves or other high temperature locations. Do not place the battery in direct sunlight, or use or store the battery inside cars in hot weather. Heating the battery can damage the safety circuitry, which can cause additional heating, rupture or ignition of the battery. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.
13. Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.
14. If you intend to store a battery for a period without use then store battery at room temperature (19°C to 25°C), charged to about 30 – 50% of capacity. When storing for very long periods boost-charge the battery once per year to prevent over discharge.
15. Always charge the battery in a temperature range of 0°C to 30°C and discharge in a temperature range of 0°C to 75°C.
16. The battery pack and charger will be warm during charging, this is normal.
17. Do not continue charging the battery if it does not recharge within the specified charging

time. Doing so may cause the battery to become hot, explode or ignite. The temperature range over which the battery can be charged is 0°C to 30°C. Charging the battery at temperatures outside this range may cause severe damage to the battery or reduce battery life expectancy.

18. When the battery is worn out, insulate the terminals with adhesive tape or similar materials before disposal.
19. Do not dispose of batteries in fire, or with household waste. Return exhausted batteries to your local collection or recycling point.



Warning: If a small amount of electrolyte should leak from the battery pack under extremes of temperature or after heavy use, then wash off immediately from your skin and hands using clean water. For eye contact, rinse thoroughly with clean water and seek medical treatment immediately.



Warning: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paint.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:

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

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

Vibration total values (triax vector sum) determined according to EN 60745:	
Cutting wood:	$a_{h,w}=4.51\text{ m/s}^2$
	Uncertainty $K=1.5\text{ m/s}^2$

The declared vibration emission value should be used as a minimum level and should be used with the current guidance on vibration.


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 tool.

The declared vibration emission value may also be used in a preliminary assessment of exposure.


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 **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.

While working with this power tool, hand/arm vibrations occur. Adopt the correct working practices in order to reduce the exposure to vibration.

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

 **Warning:** identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).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 10°C 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 identify any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

Double insulation

The charger is double insulated. This means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulation barriers between the electrical and mechanical components making it unnecessary for the tool to be earthed.

Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment. Take the following points into account to minimize the vibration and noise exposure risks:

1. Only use the product as intended by its design and these instructions.
2. Ensure that the product is in good condition and well maintained.
3. Use correct application tools for the product and ensure they in good condition.
4. Keep tight grip on the handles/grip surface.
5. Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
6. Plan your work schedule to spread any high vibration tool use across a number of days.

Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.

1. Always be alert when using this product, so that you can recognise and handle risks early. Fast intervention can prevent serious injury and damage to property.
2. Switch off and disconnect from the power supply if there is any malfunction. Have the product checked by a qualified specialist and repaired, if necessary, before you put it into operation again.

Residual risks

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

1. Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
2. Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.
3. Danger of injury and property damage caused by flying objects.



Warning: This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

Important note:

Be sure the supply is the same as the voltage given on the rating plate for the charger. The charger is fitted with a two-core cable and plug.

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

SYMBOLS



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



Warning



Double insulation



Indoor use only



1h charging time



Do not expose to rain or water



Do not burn



Wear gloves



Always charge the battery pack between temperatures 0°C to 30°C. Ideal charging temperature is 18°C to 24°C.



This symbol indicates that this battery contains lithium. This battery shall be brought to your shop to be recycled.



Wear ear protection



Wear eye protection



Wear dust mask

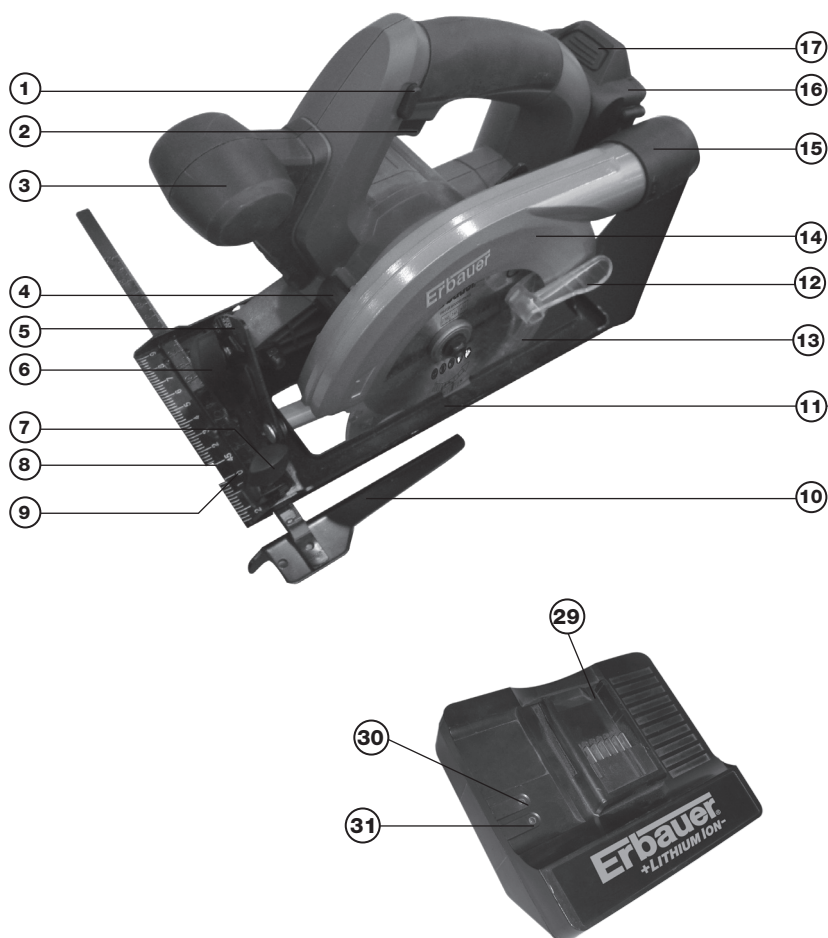


Do not dispose of batteries, Return exhausted batteries to your local collection or recycling point.



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

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




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- | | |
|-----|-------------------------------------|
| 1. | LOCK-OFF BUTTON |
| 2. | ON/OFF SWITCH |
| 3. | FRONT HANDLE |
| 4. | SPINDLE LOCK BUTTON |
| 5. | BASE PLATE ANGLE SCALE |
| 6. | BASE PLATE BEVEL LOCK KNOB |
| 7. | PARALLEL GUIDE LOCK KNOB |
| 8. | CUTTING MARK, 45° |
| 9. | CUTTING MARK, 0° |
| 10. | PARALLEL GUIDE |
| 11. | BASE PLATE |
| 12. | LOWER GUARD LEVER |
| 13. | LOWER BLADE GUARD |
| 14. | FIXED GUARD |
| 15. | VACUUM ADAPTER |
| 16. | BATTERY PACK |
| 17. | BATTERY PACK RELEASE BUTTON |
| 18. | SPINDLE (See Fig.2) |
| 19. | INNER FLANGE (See Fig.2) |
| 20. | SAW BLADE (See Fig.2) |
| 21. | OUTER FLANGE (See Fig.2) |
| 22. | BLADE BOLT (See Fig.2) |
| 23. | CUTTING DEPTH SCALE (See Fig.4) |
| 24. | HEX KEY (See Fig.4) |
| 25. | CUTTING DEPTH LOCK KNOB (See Fig.4) |
| 26. | HEX KEY STORAGE AREA (See Fig.6) |
| 27. | ADJUSTMENT SCREW (See Fig.4) |
| 28. | DUST EXTRACTION OUTLET (See Fig.7) |
| 29. | CHARGER |
| 30. | GREEN INDICATOR LIGHT |
| 31. | RED INDICATOR LIGHT |
| 32. | CHARGER STANDS (See Fig.1-1) |

TECHNICAL DATA

Voltage	18V 
No load speed	3600/min
Blade size	140mm
Cutting capacity	
Cutting Depth at 90°	41.5mm
Cutting Depth at 45°	30mm
Battery capacity	3.0Ah (54Wh) Li-Ion
Bevel capacity	0-50°
Machine weight	3.1kg

NOISE DATA

Sound pressure level	L_{pA} : 85dB(A)	K_{pA} =3.0dB(A)
Sound power level	L_{WA} : 96dB(A)	K_{WA} =3.0dB(A)
Wear ear protection when sound pressure is over		80dB(A)



ACCESSORIES

3.0Ah 18V Li-Ion Battery packs	1pc
1h Charger	1pc
Hex key	1pc
Parallel guide	1pc
Dust adapter	1pc
Saw blade(Ø140 x Ø10 x 1.6mm, 40Teeth)	1pc
Charger stands	2pcs

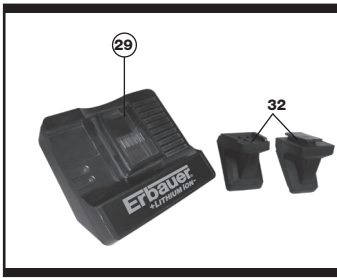


Fig 1-1



Fig 1-2



Fig 1-3

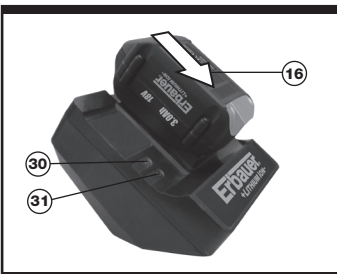


Fig 1-4

OPERATION INSTRUCTIONS



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

INTENDED USE

The machine is intended for lengthways and crossways cutting of wood with straight cutting lines as well as bevel angles to 50° while resting firmly on the work piece.

CHARGING PROCEDURE

1. BEFORE USING YOUR CORDLESS CIRCULAR SAW

Your battery pack is UNCHARGED and you must charge once before use.



Warning: Only use charger ERB424CHR to charge battery ERI489BAT. The charger and battery pack are specifically designed to work together so do not attempt to use any other devices. Never insert or allow metallic objects into your charger or battery pack connections because an electrical failure and hazard will occur.

2. INSTALL THE CHARGER STANDS (See Fig.1-1, 1-2 & 1-3)

There are 2 working positions for charger, two charger stands was provided for charger standing, slide the two charger stands (32) into the both grooves on back of the charger (29). The charger can stand as shown in Fig.1-3

3. CHARGE THE BATTERY PACK (See Fig.1-4)

Connect the battery charger to the power supply and the green light (30) will illuminate. Slide the battery pack (16) into the charger to make the connections. The green light (30) will be off and the red light (31) will illuminate to show charging has started. A discharged battery at normal ambient temperature will take approximately 1 hour to reach full charge. When charging is completed the green light (30) will illuminate while the red light (31) is off.



Warning: When battery charge runs out after continuously use or exposure to direct sunlight or heat, allow time for the tool to cool down before re-charging to achieve the full charge.

Note: This charger is designed to detect some problems that can arise with battery pack. (see table below)

Red Flashing Green Off	Defective battery, after pre-charge 30 minutes with trickle current, the total battery voltage is still less than 10.0V
Red ON Green Off	Charging
Green ON Red Off	Power On and Fully Charged
Green Flashing Red Off	The temperature of battery pack is less than 0°C or more than 45°C

4. REMOVE OR INSTALL BATTERY PACK (See Fig.2)

Press the battery pack latch and remove the battery pack from the drill. After recharge slide the battery pack into drill's battery port. A simple push and slight pressure will be sufficient.

5. CHANGING THE SAW BLADE

Before any work on the machine itself, remove the battery.

Wear protective gloves when mounting the saw blade. Danger of injury when touching the saw blade.

Only use saw blades that correspond with the characteristic data given in the operating instructions.

Do not under any circumstances use grinding discs as the cutting tool.

For changing the cutting tool, it is best to place the machine on the face side of the motor housing.

REMOVING

Press the spindle lock button (4) and keep it depressed.

The spindle lock button (4) may be actuated only when the saw blade is at a standstill.

Loosen the blade bolt (22) in clockwise direction with the hex key (24). Remove the outer flange (21). Tilt back the lower blade guard (13) and hold it firmly with the lower guard lever (12). Remove the saw blade (20).

MOUNTING

Clean the saw blade and all the clamping parts to be assembled. Tilt back the lower blade guard (13) and hold it firmly with the lower guard lever (12). Place the saw blade (20) onto the inner flange (19). Assemble

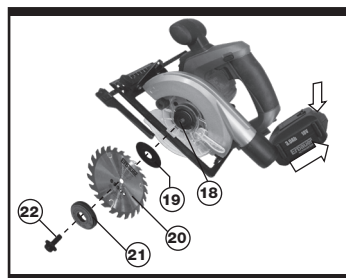


Fig 2

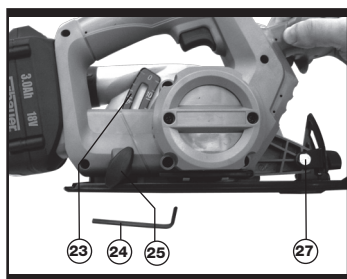


Fig 3

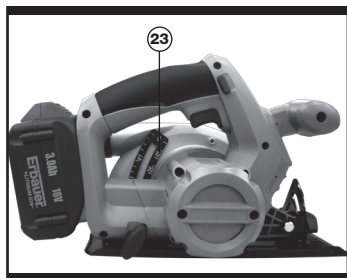


Fig 4

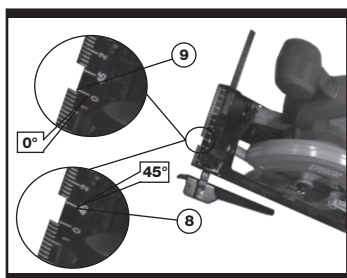


Fig 5

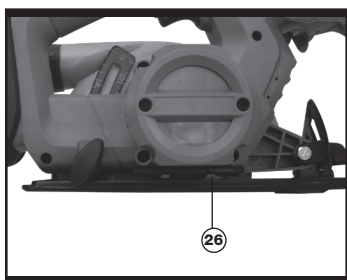


Fig 6

the outer flange (21) and the blade bolt (22). Use the hex key to tighten the blade bolt (22) in anti-clockwise direction with 1/4 turn more than finger tight.

Take care that the mounting positions of the inner flange and outer flange are correct.

When mounting: Ensure that the cutting direction of the teeth (direction of arrow on saw blade) and the direction-of-rotation arrow on the blade guard match.

OPERATION

1. ADJUST THE CUTTING DEPTH (See Fig.3)

To achieve an optimum cut, the saw blade must not protrude the material. For adjusting the cutting depth, loosen the cutting depth lock knob (25) and raise the saw from the base plate, or lower it to the base plate respectively. Adjust the required cutting depth using the cutting depth scale (23). Tighten the cutting depth lock knob again.

2. ADJUST THE CUTTING ANGLE

Loosen the base plate bevel lock (6) in anti-clockwise direction. Tilt the base plate away from the machine until the required cutting angle is adjusted on the angle scale (5). Tighten the bevel lock knob (6) by turning it in clockwise direction.

Note: The adjustment screw (27) is used to set the accurate bevel angle at 0°. (See Fig.4)

3. CUTTING GUIDE (See Fig.5)

The cutting mark 0° (9) indicates the position of the saw blade for right-angled cuts. The cutting mark 45° (8) indicates the position of the saw blade for 45° cuts. Both cutting marks include the width of the saw blade. Always guide the saw blade off of the drawn-up cutting line so that the required measure is not reduced by the width of the saw blade. For this, choose the corresponding notch side of the cutting mark 0° (9) or 45° (8) as shown in the illustration.

Note: It is best to carry out a trial cut.

4. HEX KEY STORAGE (See Fig.6)

The hex key provided can be placed in the area under the machine motor.

5. DUST/CHIP EXTRACTION (See Fig.7)

Fasten the vacuum adapter (15) onto the dust extraction outlet (28) until it latches. Directly connect a suitable vacuum hose to the adapter.

Note: There is an arrow on the surface of the adapter which show the tighten direction.

The vacuum adapter must be mounted anytime.

Clean the vacuum adapter regularly to ensure optimum dust extraction. The vacuum cleaner must be suitable for the material to be worked.

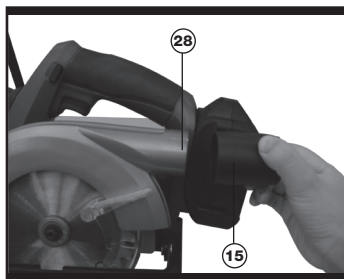


Fig 7

STARTING OPERATION

1. SWITCHING ON AND OFF

For starting operation the machine, actuate the lock-off button (1) first, and then press and hold the On/off switch (2) afterwards.

To switch off the machine, release the On/off switch (2).

For safety reasons the On/Off switch of the machine cannot be locked; it must remain pressed during the entire operation.

2. ELECTRICAL BRAKE

An integrated electrical brake immediately reduces the speed of the saw together with the saw blade after switching off the machine.

WORKING HINTS FOR YOUR CORDLESS CIRCULAR SAW

Always use a blade suited to the material and material thickness to be cut. The quality of cut will improve as the number of blade teeth increase. Always ensure the work-piece is firmly held or clamped to prevent movement. Support large panels close to the cut line. Any movement of the material may affect the quality of the cut. The blade cuts on the upward stroke and may chip the uppermost surface or edges of your work piece when cutting, ensure your uppermost surface is a non visible surface when your work is finished.

1. PARALLEL GUIDE (See Fig.8)

Used for making cuts parallel to a work piece edge at a chosen distance. Slide the parallel guide arm through both fixtures to achieve the required cutting distance and tighten screw to lock into position (7). It can be used from both sides of the base plate

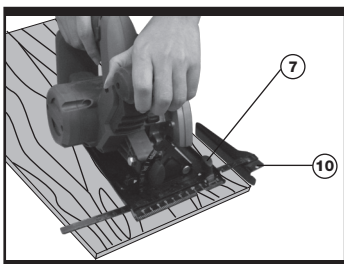


Fig 8

(11). There is a cutting guide notch on the front of the base plate (11) for using with a parallel guide (10). For straight cuts, use the 0° guide mark to align with your parallel guide scale. For a 45° bevel cut, use the 45° guide mark to align with your parallel guide scale. Securely clamp the parallel guide (10) (See Fig. 7). Always make a trial cut to check the setting.

2. BEVEL CUTS (See Fig.9)

Set required bevel angle between 0° and 50°. Do not use the depth of cut scale when making bevel cuts due to possible inaccuracy.

Loosen the base plate bevel lock button (6) and rotate the base plate (11) to set the bevel angle using the base plate angle scale (5) provided. Then clamp the base plate (11) position using the lock (6) (See Fig. 5). Finally, check the angle and ensure the base plate is firmly clamped. The angle scale (5) on the base plate (11) are accurate for most general purposes but it is recommended for accurate work to set the angle with a protractor and make a test cut on other material. Do not use the depth of cut scale when making bevel cuts due to possible inaccuracy.

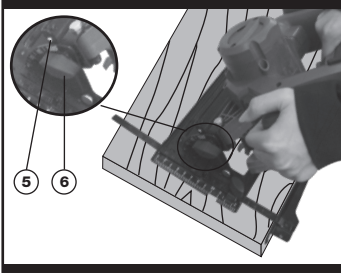


Fig 9

MAINTAINANCE

Remove the battery pack from the tool before carrying out any adjustment, servicing or maintenance.

Your power tool requires no additional lubrication or maintenance.

There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool.

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. For further information visit www.recycle-more.co.uk

DISPOSAL OF AN EXHAUSTED BATTERY PACK



To preserve natural resources, please recycle or dispose of the battery pack properly. This battery pack contains Lithium batteries. Consult your local waste authority for information regarding available recycling and/or disposal options. Discharge your battery pack by operating your tool, then remove the battery pack from the tool housing and cover the battery pack connections with heavy-duty adhesive tape to prevent short circuit and energy discharge. Do not attempt to open or remove any of the components.

PLUG REPLACEMENT (UK & IRELAND ONLY)

If you need to replace the fitted plug for charger then follow the instructions below.

IMPORTANT

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

BLUE = NEUTRAL

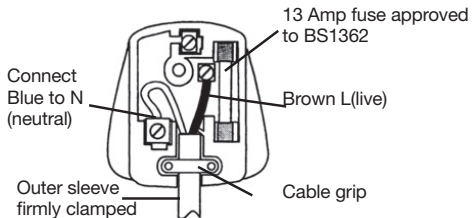
BROWN = LIVE

As the colors of the wires in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows. The wire which is colored blue must be connected to the terminal which is marked with N. The wire which is colored brown must be connected to the terminal which is marked with L.



Warning: Never connect live or neutral wires to the earth terminal of the plug. **Only fit an approved 13AMP BS1363/A plug and the correct rated fuse.**

Note: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.



Erbauer®

DECLARATION OF CONFORMITY

We, Importer
Erbauer (UK) Ltd BA22 8RT

Declare that the product
Description: **18V Circular Saw**
Model: **ERI490CSW**

Complies with the following Directives,
EC Machinery Directive **2006/42/EC**
EC Electromagnetic Compatibility Directive **2004/108/EC**
Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment **2011/65/EU**
Waste Electrical and Electronic Equipment (WEEE) **2002/96/EC** and **2003/108/EC**

Standards and technical specifications referred to:

EN 55014-1
EN 55014-2
EN 61000-3-2
EN 61000-3-3
EN 60745-1
EN 60745-2-5
EN 62233
EN 60335-1
EN 60335-2-29

Authorised Signatory and technical file holder

Date: 01/11/12

Signature: P. C. Harries

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



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