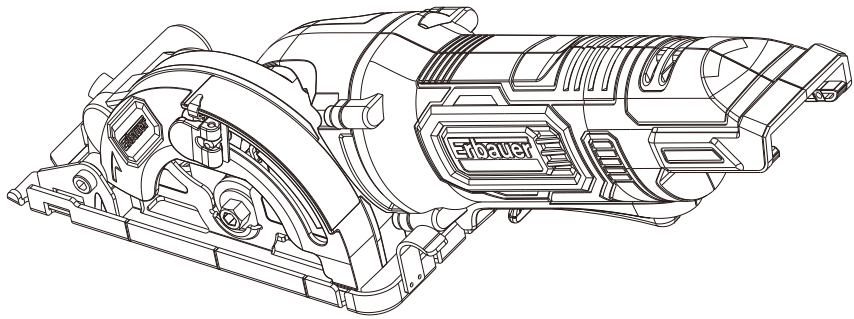




Erbauer



Original Instructions - MNL_EMCS12-Li_GB_V1_211013

EAN: 5059340010724

EMCS12-Li

ORIGINAL INSTRUCTIONS

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V60421 / BX220IM



EN



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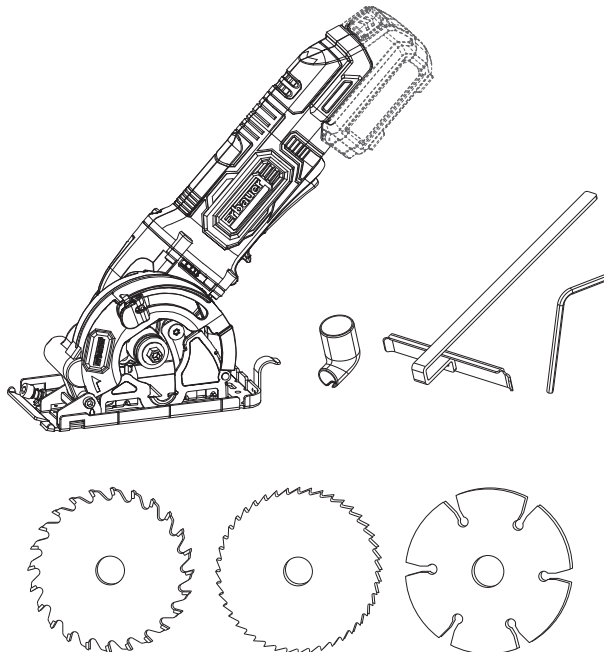


Declaration of conformity

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WARNING! Please read all safety warnings carefully and be sure that they are fully understood before handling the tool.

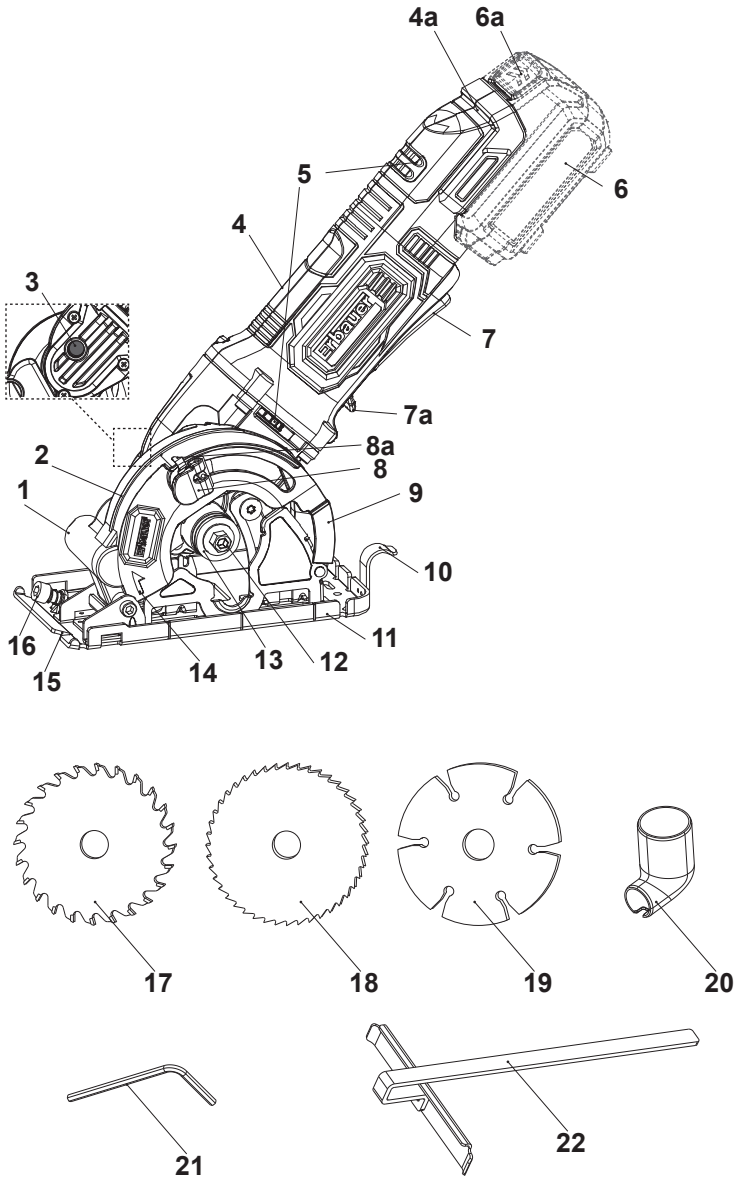




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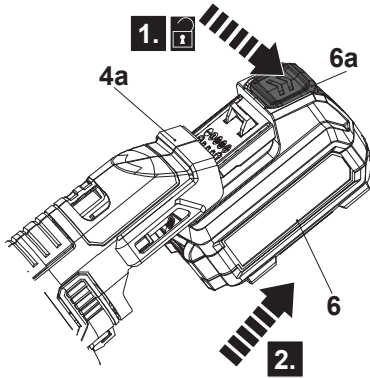


Product description

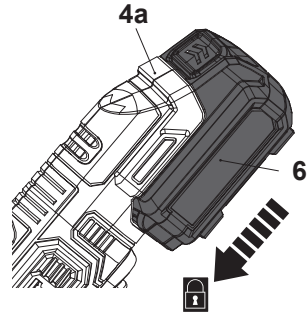




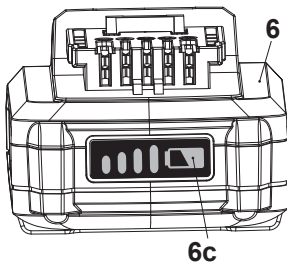
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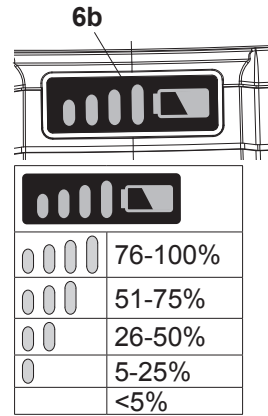
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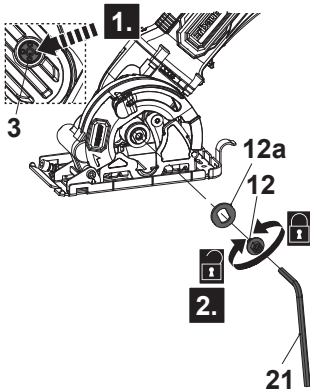
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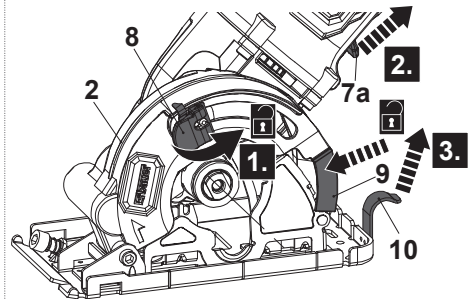
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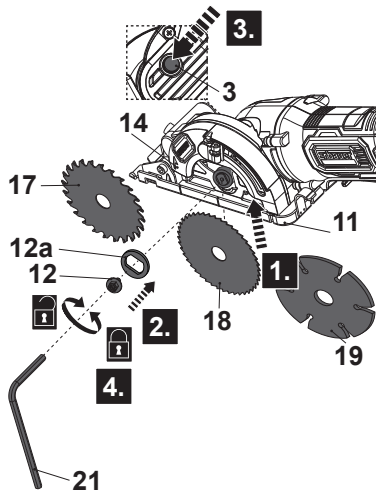
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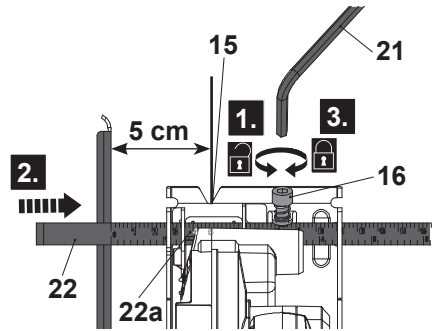


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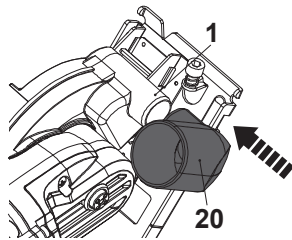
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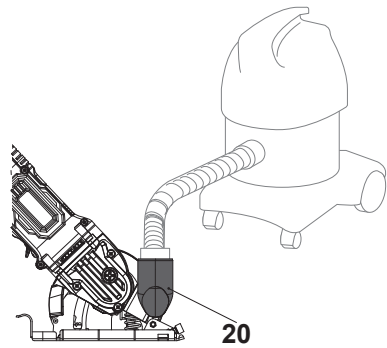
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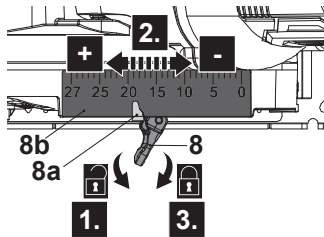
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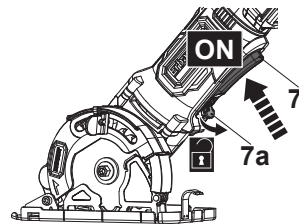
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Safety instructions

GENERAL POWER TOOL SAFETY WARNINGS



WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below 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.

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.*

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.*

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.*
- h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*

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 remove the battery pack, if detachable, 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 and accessories.** 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.*
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

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.*

- e) **Do not use battery pack or tool that is damaged or modified.** *Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.*
- f) **Do not expose a battery pack or tool to fire or excessive temperature.** *Exposure to fire or temperature above 130 °C may cause explosion.*
- g) **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*

SERVICE

- a) **Have your power tools serviced by a qualified repair person using only identical replacement parts.** *This will ensure that safety of the power tool is maintained.*
- b) **Never service damaged battery packs.** *Service of battery packs should only be performed by the manufacturer or authorized service providers.*

ADDITIONAL SAFETY INSTRUCTIONS FOR CIRCULAR SAW

Safety instructions for all saws - Cutting procedures

- 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 the workpiece in your hands or across your leg while cutting. 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 the power tool by insulated gripping surfaces only, 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 could give the operator an electric shock.*
- 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 off-centre, 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 so that the saw teeth are not engaged into the material.** *If a saw blade binds, 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 sawing into existing walls or other blind areas.** *The protruding blade may cut objects that can cause kickback.*

Safety instructions for plunge type saw - Guard function

- a) **Check the guard for proper closing before each use. Do not operate the saw if the guard does not move freely and enclose the blade instantly. Never clamp or tie the guard so that the blade is exposed. *If the saw is accidentally dropped, the guard may be bent. Check to make sure that the guard moves freely and does not touch the blade or any other part, in all angles and depths of cut.***
- b) **Check the operation and condition of the guard return spring. If the guard and the spring are not operating properly, they must be serviced before use. *The guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.***
- c) **Assure that the base plate of the saw will not shift while performing a “plunge cut”. *Blade shifting sideways will cause binding and likely kick back.***
- d) **Always observe that the guard is covering the blade before placing the 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 the switch is released.***

Safety instructions for abrasive cutting-off operations - Cut-off machine safety warnings

- a) **The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel. *The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.***
- b) **Use only diamond cut-off wheels for your power tool. *Just because an accessory can be attached to your power tool, it does not assure safe operation.***



- c) **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.**
- d) **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.**
- e) **Always use undamaged wheel flanges that are of correct diameter for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.**
- f) **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.**
- g) **The arbour size of wheels and flanges must properly fit the spindle of the power tool. Wheels and flanges with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.**
- h) **Do not use damaged wheels. Before each use, inspect the wheels for chips and cracks. If power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute. Damaged wheels will normally break apart during this test time.**

- i) **Wear personal protective equipment.** Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small abrasive or workpiece fragments. *The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.*
- j) **Keep bystanders a safe distance away from work area.** Anyone entering the work area must wear personal protective equipment. *Fragments of workpiece or of a broken wheel may fly away and cause injury beyond immediate area of operation.*
- k) **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring.** *Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.*
- l) **Never lay the power tool down until the accessory has come to a complete stop.** *The spinning wheel may grab the surface and pull the power tool out of your control.*
- m) **Do not run the power tool while carrying it at your side.** *Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.*
- n) **Regularly clean the power tool’s air vents.** *The motor’s fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.*
- o) **Do not operate the power tool near flammable materials.** *Sparks could ignite these materials.*

Further safety instructions for abrasive cutting-off operations

Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled power tool to be forced in the direction opposite of the wheel's rotation at the point of the binding. For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

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

- a) **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** *The operator can control torque reactions or kickback forces, if proper precautions are taken.*
- b) **Never place your hand near the rotating accessory.** *Accessory may kickback over your hand.*
- c) **Do not position your body in line with the rotating wheel.** *Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.*
- d) **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** *Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.*

- e) **Do not attach a saw chain, woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade.** *Such blades create frequent kickback and loss of control.*
- f) **Do not “jam” the wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** *Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.*
- g) **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the wheel from the cut while the wheel is in motion otherwise kickback may occur.** *Investigate and take corrective action to eliminate the cause of wheel binding.*
- h) **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** *The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.*
- i) **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** *Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.*
- j) **Use extra caution when making a “pocket cut” into existing walls or other blind areas.** *The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.*



ADDITIONAL SAFETY RULES FOR YOUR CIRCULAR SAW

1. Use only saw blades recommended by the manufacturer, which conform to EN 847-1, if intended for wood and analogous materials.
2. Do not use any abrasive wheels.
3. Use only blade diameter(s) in accordance with the markings.
4. Identify the correct saw blade to be used for the material to be cut.
5. Use only saw blades that are marked with a speed equal or higher than the speed marked on the tool.

ADDITIONAL SAFETY WARNINGS FOR SAW BLADE

- a) Only use saw blades if you have knowledge of how to use and handle them.
- b) Pay attention to the maximum rotational speed. The maximum rotational speed marked on the saw blade shall not be exceeded.
- c) Do not use working saw blades which are cracked. Dispose of cracked or damaged saw blades. Repairing is not permitted.
- d) Clamping surfaces should be cleaned to remove dirt, grease, oil and water.
- e) Do not use loose rings or sleeves to make up bore sizes on saw blades.
- f) Pay attention that fixed rings for securing the saw blades have the same diameter.
- g) Ensure fixed rings are parallel to each other.
- h) Handle saw blades with care. Store them in the original packaging or in special boxes. Wear gloves for handling and to reduce injuries.
- i) Ensure all guards are correctly fixed before using saw blades.
- j) Before use, make sure that the saw blade complies with technical requirements of the power tool and is correctly fixed.



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- k) Only use the recommended saw blades.
- l) Only use the supplied TCT saw blade for cutting of wood, never for metal.
- m) Only use the supplied HSS saw blade for cutting thin sheet metal or Aluminium.
- n) Only use the supplied diamond saw blade for cutting of tile or plaster board.
- o) Longer period of use may lead overheating blade tips. Therefore take breaks of approx. 15 minutes on a regular basis to let the blade tips cool down.
- p) Avoid overheating of blade tips and melting of the plastic work piece when using the product for long periods.

ADDITIONAL SAFETY WARNINGS FOR BATTERY PACK

- a) Observe the plus (+) and minus (-) marks on the battery and ensure correct use.
- b) Do not connect the positive terminal and negative terminal of the battery to each other with any metal object (such as wire).
- c) Do not carry or store battery together with necklaces, hairpins or other metal objects.
- d) 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.
- e) Do not solder directly onto the battery.
- f) Do not mix cells of different manufacture, capacity, size or type within a device.
- g) Do not expose battery to water or salt water, or allow the battery to get wet.
- h) Do not disassemble or modify the battery. There is a risk of short-circuiting.
- i) Do not place the battery in or near fire, on stoves or other high temperature locations.
- j) Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.



- k) Do not place the battery in direct sunlight, or use or store the battery inside cars in hot weather.
- l) 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.
- m) Wipe the battery pack terminals with a clean dry cloth if they become dirty.
- n) Battery pack needs to be charged before use. Always refer to the charger instruction and use the correct charging procedure.
- o) After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.
- p) Battery pack gives its best performance when it is operated at normal room temperature (20°C±5°C).
- q) Keep battery pack out of the reach of children.
- r) Retain the original product literature for future reference.
- s) Remove the battery from the product or charger when not in use.

The following information applies to professional users only but is good practice for all users:

ADDITIONAL SAFETY WARNING FOR CONSTRUCTION DUST

The updated Control of Substances Hazardous to Health Regulations 1st October 2012 now also targets to reduce the risks associated with silica, wood and gypsum dusts.

Construction workers are one of the at- risk groups within this because of the dust that they breathe: silica dust is not just a nuisance; it is a real risk to your lungs!

Silica is a natural mineral present in large amounts in things like sand, sandstone and granite. It is also commonly found in many construction materials such as concrete and mortar. The silica is broken into very fine dust (also known as Respirable Crystalline Silica or RCS) during many common tasks such as cutting, drilling and grinding. Breathing in very fine particles of crystalline silica can lead to the development of:

- Lung cancer
- Silicosis
- Chronic Obstructive Pulmonary Disorder/Chronic obstructive pulmonary disease (COPD)

And breathing in fine particles of wood dust can lead to the development of Asthma. The risk of lung disease is linked to people who regularly breathe construction dust over a period of time, not on the odd occasion.

To protect the lung, the COSHH Regulations sets a limit on the amount of these dusts that you can breathe (called a Workplace Exposure Limit or WEL) when averaged over a normal working day. These limits are not a large amount of dust: when compared to a penny it is tiny – like a small pinch of salt:

This limit is the legal maximum; the most you can breathe after the right controls have been used.

HOW TO REDUCE THE AMOUNT OF DUST?

- Reduce the amount of cutting by using the best sizes of building products.
- Use a less powerful tool e.g. a block cutter instead of angle grinder.
- Using a different method of work altogether – e.g. using a nail gun to direct fasten cable trays instead of drilling holes first.

Please always work with approved safety equipment, such as those dust masks that specially designed to filter out microscopic particles and use the dust extraction facility at all time.



For more information please see the HSE website: <http://www.hse.gov.uk/construction> or <http://www.hse.gov.uk/pubns/cis69.pdf>



WARNING! Some dust particles created by power sanding, sawing, grinding, drill and other construction jobs contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

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

SEE TECHNICAL SPECIFICATIONS IN THE INSTRUCTION MANUAL FOR THE VIBRATION LEVELS OF YOUR TOOL.



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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 use can be difficult and the HSE website has further information.

The declared vibration total value has been measured in accordance with EN 62841-1, EN 62841-2-5, EN 60745-2-22 and may be used for compare 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:

- How the materials are grinded, cut or drilled.
- If the tool is in good condition and well maintained.
- Use correct accessory for the tool and ensure it is sharp and in good condition.
- The tightness of the gripping handles.
- 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.

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 minimise the vibration and noise exposure risks:

- a) Only use the product as intended by its design and these instructions.

- b) Ensure that the product is in good condition and well maintained.
- c) Use correct attachments for the product and ensure they are in good condition.
- d) Keep tight grip on the handles/grip surface.
- e) Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
- f) Plan your work schedule to spread any high vibration tool use across a longer period of time.
- g) Prolonged use of the product exposes the user to vibrations that can cause a range of conditions collectively known as hand-arm vibration syndrome (HAVS) e.g. fingers going white; as well as specific diseases such as carpal tunnel syndrome. To reduce this risk when using the product, always wear protective gloves and keep your hands warm.

Emergency

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

- a) **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.*
- b) **Switch off and disconnect from the power supply if there are malfunctions.** *Have the product checked by a qualified professional and repaired, if necessary, before you operate it 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:



- a) Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
- b) Injuries and damage to property due to broken attachments or the sudden impact of hidden objects during use.
- c) Danger of injury and property damage caused by flying objects or poor power tool accessories.



Product description

Part index

The index below refers to Fig. 1 on page 4.

- | | |
|---------------------------------|-------------------------------------|
| 1. Dust extraction port | 10. Retraction lever |
| 2. Upper guard | 11. Base plate |
| 3. Spindle lock button | 12. Locking bolt for saw blade |
| 4. Hand grip | a. Locking flange |
| a. Battery pack holder | 13. Backing flange |
| 5. Air vents | 14. Rotation mark |
| 6. Battery pack (not included) | 15. Cutting line indicator |
| a. Release button | 16. Locking bolt for parallel guide |
| b. Battery capacity indicators* | 17. TCT saw blade |
| c. Battery capacity button* | 18. HSS saw blade |
| 7. On/Off switch | 19. Diamond saw blade |
| a. Lock-off lever | 20. Dust extraction adaptor |
| 8. Depth setting lever | 21. Hex key |
| a. Pointer | 22. Parallel guide |
| b. Depth scale (0-27mm) | a. Width scale (0-17cm) |
| 9. Plunge lock plate | |



NOTE: Parts marked with * are not shown in this overview. Please refer to the respective section in the instruction manual.

Technical specifications

Mini circular saw

> Rated voltage	: 12 V d.c.
> No load speed	: 2300 /min
> Rated speed	: 2400 /min
> Blade size	: 85 mm
> Disc bore	: 15 mm
> Max cutting capacity	: 27 mm
> Weight (without battery pack)	: approx. 1.5 kg

TCT saw blade

> Dimensions	: $\varnothing 85 \times \varnothing 15 \times 1.2$ mm
> Number of teeth	: 24 teeth
> Material for cutting	: Wood, plastic
> Max. speed permitted n_{\max}	: 7000 /min

HSS saw blade

> Dimensions	: $\varnothing 85 \times \varnothing 15 \times 1.2$ mm
> Number of teeth	: 44 teeth
> Material for cutting	: Thin sheet metal / Aluminum
> Max. speed permitted n_{\max}	: 15000 /min

Diamond saw blade

> Dimensions	: $\varnothing 86 \times \varnothing 15 \times 1.8$ mm
> Grit	: 60 Grit
> Material for cutting	: Tile, marble, granite, concrete
> Max. speed permitted n_{\max}	: 17775 /min

For use with battery pack and charger as below:

> Battery pack model	: EHPB12-Li-3	EHPB12-Li-6
> Charger model	: EBC12-Li	EBFC12-Li
> Ambient temperature range for tool and battery use	: 0 °C to 40 °C	

Sound values

> Sound pressure level L_{pA}	: 96.5 dB(A)
> Uncertainty K_{pA}	: 3 dB(A)
> Sound power level L_{WA}	: 107.5 dB(A)
> Uncertainty K_{WA}	: 3 dB(A)

Hand arm vibration values

> Cutting wood	: $a_{h,W} = 1.6$ m/s ²
> Cutting meta	: $a_{h,M} = 2.0$ m/s ²
> Cutting concrete	: $a_h = 4.7$ m/s ²
> Uncertainty K	: 1.5 m/s ²

The sound intensity level for the operator may exceed 80 dB(A) and ear protection measures are necessary.

The declared vibration total values and the declared noise emission values have been measured in accordance with a standard test method and may be used for comparing one tool with another; they may also be used in a preliminary assessment of exposure.



WARNING! The vibration and noise emissions during actual use of the power tool can differ from the declared values depending on the ways in which the tool is used especially what kind of workpiece is processed; and 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).

Symbols

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

mm Millimetre
 mAh Milliampere per hour
 °C Degree Celsius
 m/s² Metres per seconds squared

kg Kilogram
 n₀ No-load speed
 dB(A) Decibel (A-rated)
 /min or Per minute
 min⁻¹



Lock / to tighten or secure.



Unlock / to loosen.



Read the instruction manual.



Always wear eye protection.



Always wear ear protection.



Wear a dust mask.



Wear protective gloves.



Wear protective, slip-resistant footwear.



Note / Remark.



Caution / Warning.

xxWyy

Manufacturing date code; year of manufacturing (20xx) and week of manufacturing (Wyy)



Switch the product off and remove battery pack before assembly, cleaning, adjustments, maintenance, storage and transportation.



Open flames in the work area, around the product and in the vicinity of flammable materials are prohibited!



Do not smoke in the work area, around the product and in the vicinity of flammable materials!



EN



Cutting in wood.



Cutting in Aluminium.



Do not use for wet grinding and cutting-off.



Do not use for grinding.



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



Crossed out dust bin. Batteries and battery packs should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



Do not dispose of battery packs in rivers or immerse in water.



Do not dispose of battery packs in fire. They will explode and cause injury.



Do not expose battery packs to heat in excess of 45 °C. Do not charge or store the battery pack in temperatures below 0 °C (32 °F) and above 45 °C (113°F).



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



UK Conformity Assessed.

Rating label explanation

EMCS12-Li = Model number

E = Erbauer

MCS = Mini Circular Saw

12 = 12 V d.c.

Li = LITHIUM ION



Assembly

01 Unpacking

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



WARNING! The product and the packaging are not children's toys! Keep plastics bags, sheets and small parts away from children. There is a danger of choking and suffocation!

Do not insert the battery pack before the power tool is completely assembled!

02 Setup

BATTERY PACK (NOT INCLUDED)

Release / Attach

1. To remove the battery pack, press down the release button (6a) and pull out the battery pack (6) from the battery pack holder (4a) (Fig. A).
2. Align and slide the battery pack (6) to the battery pack holder (4a). Ensure that it clicks in place (Fig. B).

Charging the battery pack

The battery has been shipped in a low charge condition. Charge it fully before first use. Refer to the charger instruction manual for the details.

Battery capacity indicators

The battery pack (6) is equipped with battery capacity indicators (6b) which are used to give an indication of the battery pack's remaining capacity. Press the battery capacity button (6c) to check battery capacity (Figs. C, D). The LEDs will stay lit for approximately 5 seconds.

SAW BLADE



WARNING! Always use the correct saw blade according to the intended use!



Observe the technical requirements of this product (see section Technical specifications) when purchasing and using saw blades!

Saw blades are very sharp and become hot during use! Handle them carefully! Wear protective gloves when handling saw blades in order to avoid injuries like burns and cuts!



NOTE: Check the saw blade before every use for damage and wear. Replace it with a new one if required.

Only use a saw blade that is suitable for the intended application. The mounting hole of blade must fit with the mounting flange. Do not use reducers or adapters.



WARNING! Never press the spindle lock button (3) whilst the spindle is rotating!

Attaching

1. Place the product on a flat stable surface.
2. Lock the spindle by pressing the spindle lock button (3) (Fig. E, step 1).
3. Keep the spindle lock button (3) pressed and loosen the locking bolt (12) clockwise using the hex key (21) (Fig. E, step 2).
4. Remove the locking bolt (12) and locking flange (12a) from the spindle.
5. Unlock the depth setting lever (8) until it can move freely in the slot (Fig. F, step 1).
6. Unlock the plunge lock plate (9) by pulling back the lock-off lever (7a) (Fig. F, step 2).
7. Lift the retraction lever (10) to slide the plunge lock plate (9) into the track of upper guard (2) until the stop and hold it in position (Fig. F, step 3).
8. Insert the suitable saw blade from the slot of base plate (11) and place it on the backing flange (13) of spindle (Fig. G, step 1).



WARNING! Ensure that the rotational direction indicated on the saw blade is the same as the one shown on the upper guard (14).

- Carefully release the retraction lever (10) back to its initial position to make the plunge lock plate (9) lock in place.
- Pass the locking flange (12a) through the spindle (Fig. G, step 2) and keep the saw blade in position.
- Lock the spindle by pressing the spindle lock button (3) (Fig. G, step 3).
- Keep the spindle lock button pressed, and secure the saw blade with the locking flange (12a) and locking bolt (12) in an anti-clockwise direction using the hex key (21) (Fig. G, step 4).
- Turn the saw blade by hand to test if it is rotating smoothly. The blade should not flutter.
- Switch the product on and let it run idle for about one minute, to confirm that the saw blade has been installed properly. If you find any abnormal vibration or excessive noise switch the product off and re-fit the saw blade according to the above instructions.

Removing / Replacing



WARNING! Never use blade whose diameter is larger than that indicated. The maximum rotation speed of blade must be greater than the no load speed of the machine.



Blade teeth are very sharp. Wear gloves. For best cutting results ensure you use a saw blade suited to the material and cut quality you need.

- Place the product on a flat stable surface.
- Lock the spindle by pressing the spindle lock button (3).
- Keep the spindle lock button (3) pressed and loosen the locking bolt (12) clockwise using the hex key (21).
- Remove the locking bolt (12), locking flange (12a) and saw blade from the spindle.
- Clean the locking bolt (12), locking flange (12a) as well as the spindle and inside from dust.
- Attach an appropriate new saw blade for the intended use.
- Secure the saw blade with the locking flange (12a) and locking bolt (12) afterward.



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PARALLEL GUIDE

Attach the parallel guide (22) to perform cuts parallel to the workpiece edges.

1. Loosen the locking bolt for parallel guide (16) anticlockwise using the hex key (21) (Fig. H, step 1).
2. Align the parallel guide (22) to the slot and insert it (Fig. H, step 2).
3. Set the desired width by aligning the width scale (22a) with the cutting line indicator (15).
4. Fix the parallel guide (22) in position by tightening locking bolt for parallel guide (16) clockwise using the hex key (21) (Fig. H, step 3).



NOTE: If the distance between the side of the work piece and the cutting position is too wide, or the side of the work piece is not straight, firmly clamp a straight board to the work piece and use this as a guide.

DUST EXTRACTION



WARNING! Attach a dust extraction device when using this product to keep the working area clean! Wear a dust mask when operating this product! Dust can be harmful to health! Especially dust and chips of wood that has been treated, e.g. with wood preservative or a stain!

1. Attach the dust adaptor (20) to the dust extraction port (1) (Fig. I).
2. Ensure that the dust adaptor (20) is fully inserted.
3. Attach a proper dust extraction device, e.g. a suitable vacuum cleaner attachment (Ø35mm) to the dust adaptor (20) (Fig. J).



Use

Intended use

The mini saw is designed for straight cutting of solid wood and wood-like materials with TCT / HSS saw blades, plastics with HSS saw blades when working dry, or for dry cutting of mineral materials, e.g., masonry, tiles, marble, granite and concrete with diamond cutting discs when connected to a suitable dust extraction system.

For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.

Before you start

01 Protection



Controls

01 Cutting depth adjustment



WARNING! Always switch the product off and remove the battery back before making any adjustments!

For optimal quality of cutting, the saw blade should not extend more than 3 mm below the workpiece.

To adjust the cutting depth (0-27mm), please follow below steps:

1. Unlock the depth setting lever (8) (Fig. K, step 1).
2. Move the depth setting lever (8) in the slot (Fig. K, step 2) to set the blade to the desired cutting depth.



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3. The cutting depth is ensured by aligning the depth scale (8b) with the pointer (8a).
4. Lock the depth setting lever (8) afterwards (Fig. K, step 3).



WARNING! Always check the depth setting lever (8) before working. A loose depth setting lever (8) may cause serious injury.

02 Switching On/Off (Fig. L)

1. Pull back the lock-off lever (7a) to unlock the ON/Off switch (7), and hold it in position.
2. To switch on the product, press the On/Off switch (7).
3. To switch off the product, release the On/Off switch (7).

Operation

1. Check the product, as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.
2. Double check that the accessories and tool attachments are properly fixed.
3. Always hold the product by its handles. Keep the handles dry to ensure safe support.
4. Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
5. Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before putting it down.
6. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.
7. Where possible, secure work pieces to prevent them from moving during operation.

01 General cutting



WARNING! During operation fine dust will be generated!



Some dusts are highly inflammable and explosive! Do not smoke during operation, keep heat sources and open flames out of the working area!



Always wear a dust mask to protect yourself against hazards resulting from fine dust!



WARNING! Always carry out a test run before starting work and after every tool change!

Always ensure that the tools are in good condition, correctly mounted and able to turn freely. The trial run should be at least 30 sec.



WARNING! Condition of use

When all precautions have been taken and the previous operations are complete, you can start working. The stress on the machine should not be such that the speed is reduced by more than 25% for significant periods. When overloading has occurred, run the machine on no load for 3 to 5 minutes to cool down.

Do not use the saw with a cracked, blunt or damaged blade.

Do not attempt to cut objects thicker than the maximum cutting depth of the blade or when there is not enough space under the object for the blade.

1. Check the correct function of the plunge lock plate (9) by pulling back the lock-off lever (7a).
2. Make sure you keep the air vents (5) clear when holding the tool.
3. Check the saw blade specifications to ensure the suitability of the material to be cut.
4. Fit the correct blade ensuring it is sharp and not damaged.
5. Set the depth of cut.



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6. Place the material to be cut onto a flat surface such as a workbench, table or floor. Use a piece of scrap material underneath if you do not wish to damage the work surface. The work surface is likely to damage the blade. E.g. a concrete floor.
7. Attach the battery pack.
8. Firmly grasp the tool firmly and rest its base plate (11) onto the surface to be cut. Ensure that the rear half of the base plate overhangs the work surface. Do not plunge the blade into the material.
9. Align the centre of the cutting line indicator (15) on the front of the base plate (11) with the cut line.
10. Switch on the product and wait for a moment for the blade to reach full speed.
11. Next, plunge the blade into the material slowly and gently, but firmly. Then push the tool forwards along the line to be cut.
12. Ensure that the base plate (11) is always held flat on the material being cut. This is particularly important at the start or finish of a cut or if thin strips are being cut where the base plate is not fully supported.
13. Once the cut has been finished, lift the tool from the work surface before switching off. If a lot of dust has been created, keep switched on for a few seconds extra to allow the dust to clear from within the tool.



WARNING! Do not overheat the blade tips of the saw blade.

02 Cutting particularly tough or abrasive materials

Learn to use the tool by cutting wood before attempting to cut anything tougher. When cutting tougher material, such as metals, more force is required to hold the work piece and clamping may be required. Never cut materials that produce toxic dust or fumes such as PTFE or asbestos.

SHEET METAL

1. Always set the depth adjustment to at least 1 mm deeper than the material thickness to avoid the blade riding up over the surface. Scrap material is required underneath the work surface.
2. Remove burrs and rust as these impede the feed across the material.
3. Thick beeswax (furniture polish) applied to the base plate of the tool makes metal cutting easier.
4. Only suitable for cutting brass, copper, lead, aluminium or galvanised mild steel.
5. Every 2 minutes of metal cutting should be followed by a rest of at least 3 minutes.

CERAMIC TILES, SLATES ETC.

1. Only use a blade specifically designed for this purpose.
2. Always use with a suitable vacuum cleaner or dust extractor connected as the dust can be hazardous to the operator and prevent the guard operating correctly.

PLASTERBOARD

1. The saw is only recommended for making occasional cut outs in plasterboard and should always be used with a suitable vacuum cleaner or dust extractor connected.
2. The dust can prevent the guard operating correctly.
3. Conventional tools such as keyhole saws or knives generally give excellent results, though the plunge saw can be used if a particularly neat, dust free cut is required or if there is a danger of cutting pipes or cables.

After use

1. Switch the product off, remove the battery back and let it cool down.
2. Remove the tool attachment from the tool holder accordingly.
3. Check, clean and store the product as described below.



Care & maintenance



WARNING! Always switch the product off, remove the battery back and let the product cool down before performing inspection, maintenance and cleaning work!



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

Clean

1. Clean the product with a dry cloth. Use a brush for areas that are hard to reach.
2. In particular clean the blade, switch and air vents after every use with a cloth and brush.
3. Remove the saw blade to clear the inside of the guard if necessary.
4. Remove stubborn dust with high pressure air (max. 3 bar).
5. Check for worn or damaged parts. Replace worn parts as necessary or contact an authorised service centre for repair before using the product again.



Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

Maintenance

Your tool requires no additional lubrication or maintenance. There are no user serviceable parts in your tool.

Transportation

1. Switch the product off and remove the battery pack.
2. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
3. Secure the product to prevent it from slipping or falling over.

Storage

1. Switch the product off and remove the battery pack.
2. Clean the product as described above.
3. Store the product and its accessories in a dark, dry, frost-free, well-ventilated place.
4. Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10°C and 30°C.
5. We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.



Troubleshooting

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



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

Problem	Possible cause	Solution
1. Product does not start	1.1. Battery pack not properly attached 1.2. Battery pack discharged 1.3. Battery pack damaged 1.4. Other electrical defect to the product	1.1. Attach properly 1.2. Remove and charge battery pack 1.3. Check by a specialist electrician 1.4. Check by a specialist electrician
2. Product does not reach full power	2.1. Battery pack capacity too low 2.2. Air vents are blocked	2.1. Charge battery pack 2.2. Clean the air vents
3. Unsatisfactory result	3.1. Saw blade is dull/damaged 3.2. Saw blade is not suitable for work piece material	3.1. Replace with a new one 3.2. Use suitable saw blade
4. Product suddenly stops	4.1. Product overloaded 4.2. Battery pack discharged 4.3. Battery too hot	4.1. Remove the product from the workpiece and switch it on again 4.2. Remove and charge battery pack 4.3. Remove battery pack and let it cool down
5. Excessive vibration or noise	5.1. Saw blade is dull/damaged 5.2. Bolts/nuts are loose	5.1. Replace with a new one 5.2. Tighten bolts/nuts



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Recycling and disposal



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist.

Check with your local authority or local store for recycling advice.

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

Disposal of an exhausted battery pack



The battery is Li-Ion type. To preserve natural resources, please recycle or dispose of the battery pack properly. 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 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.



Guarantee

We take special care to select high quality materials and use manufacturing techniques that allow us to create products incorporating design and durability. This product (**Erbauer** Mini Circular Saw) has a manufacturer's guarantee of 3 years against manufacturing defects, from the date of purchase (if bought in store) or date of delivery (if bought online), at no additional cost.

To make a claim under this guarantee, you must present your proof of purchase (such as a sales receipt, purchase invoice or other evidence admissible under applicable law), please keep your proof of purchase in a safe place. For this guarantee to apply, the product you purchased must be new, it will not apply to second hand or display products. Unless stated otherwise by applicable law, any replacement product issued under this guarantee will only be guaranteed until expiry of the original guarantee period.

This guarantee covers product failures and malfunctions provided the product was used for the purpose for which it is intended and subject to installation, cleaning, care and maintenance in accordance with the information contained in these terms and conditions, in the user manual and standard practice, provided that standard practice does not conflict with the user manual.

This guarantee does not cover defects and damage caused by normal wear and tear or damage that could be the result of improper use, faulty installation or assembly, neglect, accident, misuse, or modification of the product. Unless stated otherwise by applicable law, this guarantee will not cover, in any case, ancillary costs (shipping, movement, costs of uninstalling and reinstalling, labour etc), or direct and indirect damage.

This guarantee does not cover defects and damage caused by or resulting from:

- Normal wear and tear
- Overload, misuse or neglect
- Repairs attempted by anyone other than an authorised agent
- Cosmetic damage
- Damage caused by foreign objects, substances or accidents
- Accidental damage or modification
- Failure to follow manufacturer's guidelines
- Loss of use of the goods



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Batteries and battery chargers are not covered under the Erbauer 3 Year Warranty and will have a guarantee period of 2 years from the date of purchase.

If the product is defective, we will, within a reasonable time, repair or replace it.

Rights under this guarantee are enforceable in the country in which you purchased this product. Guarantee related queries should be addressed to the store you purchased this product from.

The guarantee is in addition to and does not affect your statutory rights.



Declaration of conformity



(EN) EU DECLARATION OF CONFORMITY
 (FR) DÉCLARATION UE DE CONFORMITÉ
 (PL) DEKLARACJA ZGODNOŚCI UE
 (RO) DECLARAȚIA DE CONFORMITATE UE
 (ES) DECLARACIÓN UE DE CONFORMIDAD
 (PT) DECLARAÇÃO DE CONFORMIDADE UE

Product/ Produit/ Produkt/Produsul/Producto/Produto

- CORDLESS MINI SAW/MINI SCIE SANS FIL/MINI PIŁA BEZPRZEWODOWA/MINI FERĂSTRĂU FĂRĂ FIR/ MINISIERRA INALÁMBRICA/MINI-SERRA SEM FIOS
- EMCS12-Li
- SN: 000001-999999

Name and address of the manufacturer or his authorized representative:

Nom et adresse du fabricant ou de son mandataire:

Nazwa i adres producenta lub jego upoważnionego przedstawiciela:

Denumirea și adresa producătorului sau a reprezentantului său autorizat:

Nombre y dirección del fabricante o de su representante autorizado:

Nome e endereço do fabricante ou do respetivo mandatário:

Kingfisher International Products B.V.,
 Rapenburgerstraat 175E,
 1011 VM Amsterdam,
 The Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer.

La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.

Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.

Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului.

La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante.

A presente declaração de conformidade é emitida sob a exclusiva responsabilidade do fabricante.

Object of the declaration/Objet de la déclaration/Przedmiot deklaracji/Obiectul declarației/Objeto de la declaración/Objeto da declaração

Product/Produit/Produkt/Produsul/Producto/ Produto	Model/Modèle/Model/ Modelul/Modelo/Modelo	EAN
CORDLESS MINI SAW MINI SCIE SANS FIL MINI PIŁA BEZPRZEWODOWA MINI FERĂSTRĂU FĂRĂ FIR MINISIERRA INALÁMBRICA MINI-SERRA SEM FIOS	EMCS12-Li	5059340010724 5059340043128 5059340043128 5059340043128 5059340043128 5059340043128

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable:

Wymieniony powyżej przedmiot niniejszej deklaracji jest zgodny z odpowiednimi wymaganiami unijnego prawodawstwa harmonizacyjnego:

Obiectul declarației descris mai sus este în conformitate cu legislația relevantă de armonizare a Uniunii:

El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión:

O objeto da declaração acima descrito está em conformidade com a legislação de harmonização da União aplicável:

2006/42/EC as amended	Machinery Directive
2014/30/EU as amended	Directive Electromagnetic compatibility
2011/65/EU as amended	Directive Restriction of the use of certain hazardous substances in electrical and electronic equipment

Directive 2006/42/CE relative aux machines

2014/30 / UE telle que modifiée Directive Compatibilité électromagnétique

Directive 2011/65/UE relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques

2006/42/WE w zmienionej dyrektywie maszynowej

2014/30 / UE ze zmianami Dyrektywa Kompatybilność elektromagnetyczna

2011/65 / UE ze zmianami Dyrektywa Ograniczenie stosowania niektórych niebezpiecznych substancji w sprzęcie elektrycznym i elektronicznym

2006/42/CE, astfel a fost modificată Directiva privind echipamentele

2014/30/UE, astfel a fost modificată Directiva privind compatibilitatea electromagnetică

2011/65/UE, astfel a fost modificată Directiva privind limitarea utilizării anumitor substanțe periculoase în echipamentele electrice și electronice

Directiva sobre maquinaria modificada 2006/42/CE

2014/30/UE modificada Directiva Compatibilidad electromagnética

2011/65/UE modificada Directiva Restricción del uso de determinadas sustancias peligrosas en equipos eléctricos y electrónicos

2006/42/CE como diretiva de máquinas alteradas

2014/30/UE como alteração da compatibilidade eletromagnética

2011/65/UE como restrição diretiva alterada da utilização de certas substâncias perigosas em equipamentos elétricos e eletrônicos

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

Références des normes harmonisées pertinentes appliquées, y compris la date de celles-ci, ou des autres spécifications techniques, y compris la date de celles-ci, par rapport auxquelles la conformité est déclarée:

Odwolania do odnośnych norm zharmonizowanych, które zastosowano, wraz z datą normy, lub do innych specyfikacji technicznych, wraz z datą specyfikacji, w odniesieniu do których deklarowana jest zgodność:

Trimiteri la standardele armonizate relevante folosite, inclusiv data standardului, sau trimiteri la celelalte specificații tehnice, inclusiv data specificațiilor, în legătură cu care se declară conformitatea:

Referencias a las normas armonizadas pertinentes utilizadas, incluidas las fechas de las normas, o referencias a las otras especificaciones técnicas, incluidas las fechas de las especificaciones, respecto a las cuales se declara la conformidad:

Referências às normas harmonizadas aplicáveis utilizadas, incluindo a data da norma, ou às outras especificações técnicas, incluindo a data da especificação, em relação às quais é declarada a conformidade:

EN 62841-1: 2015

EN 62841-2-5:2014

EN 60745-1:2009+A11:2010

EN 60745-2-22:2011+A11:2013

EN 55014-1: 2017+A11: 2020

EN IEC 55014-1:2021

EN 55014-2: 2015

EN IEC 55014-2:2021

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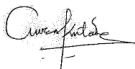
Kingfisher International Products B.V.,
Rapenburgerstraat 175E,
1011 VM Amsterdam,
The Netherlands



David Awe
Group Quality Director

07/10/2021

**UK
CA**
(UK) DECLARATION OF CONFORMITY

Product		
<ul style="list-style-type: none"> • CORDLESS MINISAW • EMCS12-Li • Serial number: 000001-999999 		
Name and address of the manufacturer or his authorised representative:		
Kingfisher International Products Limited 3 Sheldon Square London W2 6PX United Kingdom		
This declaration of conformity is issued under the sole responsibility of the manufacturer.		
Object of the declaration		
Product	Model	EAN
CORDLESS MINISAW	EMCS12-Li	5059340010724
The object of the declaration described above is in conformity with the relevant legislation:		
Supply of Machinery (Safety) Regulations 2008 as amended Electromagnetic Compatibility Regulations 2016 as amended The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 as amended		
References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:		
EN 62841-1: 2015 BS EN 62841-1: 2015 EN 62841-2-5:2014 BS EN 62841-2-5:2014 EN 60745-1:2009+A11:2010 BS EN 60745-1:2009+A11:2010 EN 60745-2-22:2011+A11:2013 BS EN 60745-2-22:2011+A11:2013 EN 55014-1:2017+A11:2020 EN IEC 55014-1:2021 EN 55014-2:2015 EN IEC 55014-2:2021 BS EN 55014-1: 2017+A11: 2020 BS EN IEC 55014-1:2021 BS EN 55014-2: 2015 BS EN IEC 55014-2:2021		
Authorised signatory and technical file holder: Kingfisher International Products Limited 3 Sheldon Square London W2 6PX United Kingdom		
		
David Awe Group Quality Director		On:07/10/2021



Manufacturer • Fabricant • Producent • Producător • Fabricante:

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www.diy.com | www.screwfix.com | www.screwfix.ie

To view instruction manuals online,
visit www.kingfisher.com/products

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