

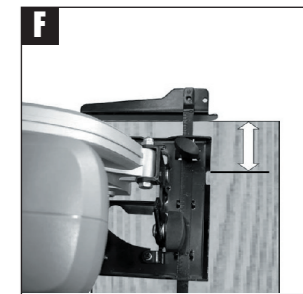
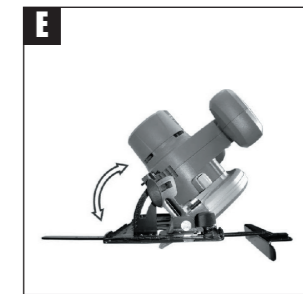
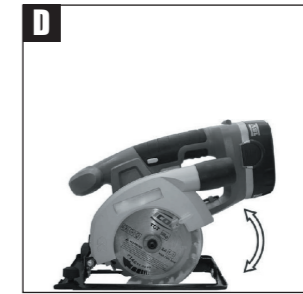
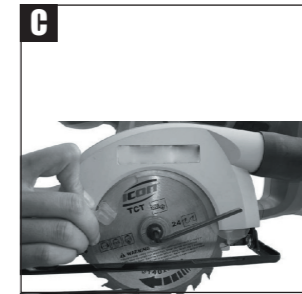
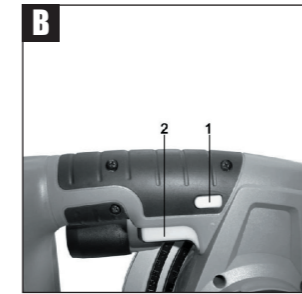
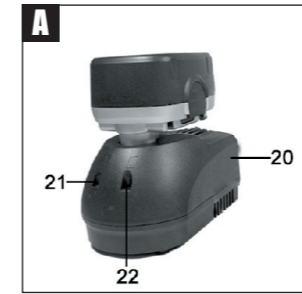
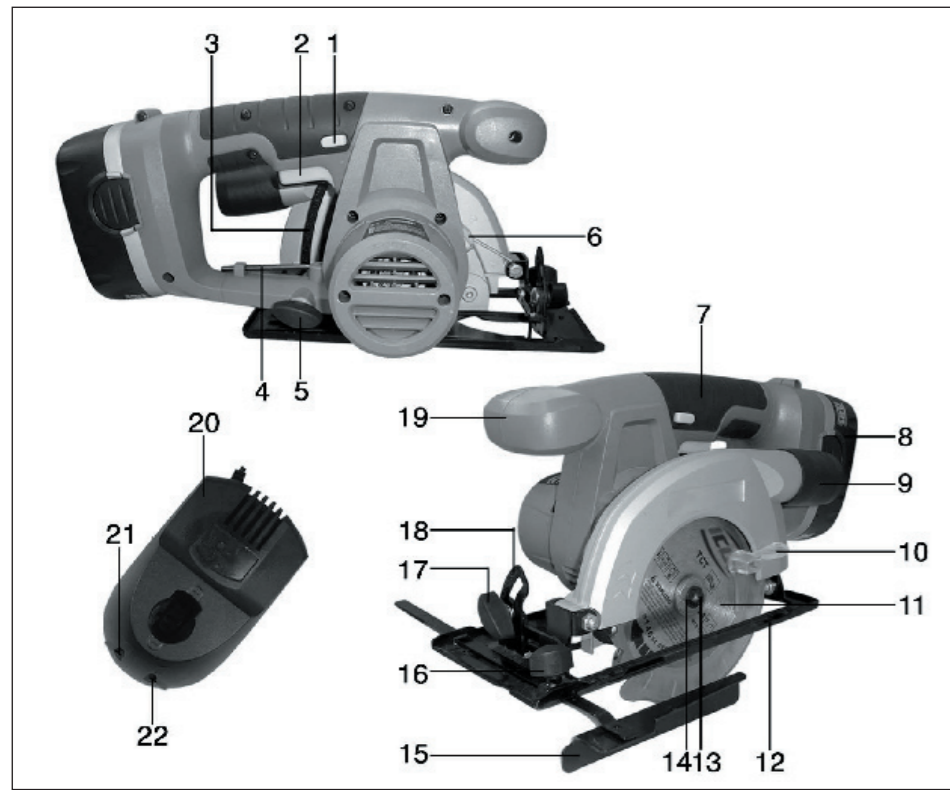


SAFETY AND OPERATING MANUAL

18V
CORDLESS CIRCULAR SAW
IC18BCS

Thank you for purchasing an Icon product. We are confident that this product will meet and exceed your expectations of quality and reliability. Please take the time to carefully read this entire instruction manual before using your new product. Take note of the safety precautions contained herein.





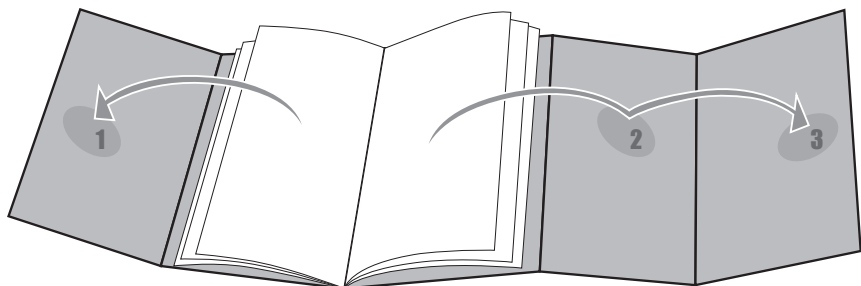
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I - Component list

1. Lock-off button
2. On/off switch
3. Depth of cut scale
4. Hex key
5. Depth of cut lock button
6. Spindle lock button
7. Main handle
8. Battery pack
9. Dust extraction outlet
10. Lower guard lever
11. Saw blade*
12. Base plate
13. Blade bolt
14. Outer flange
15. Parallel guide
16. Parallel guide lock button
17. Base plate bevel lock button
18. Base plate angle scale
19. Front handle
20. Charger
21. Charged indicator light (Green)
22. Charging indicator light (Red)

***Not all the accessories illustrated or described are included in standard delivery.**



II - Technical data

Voltage rating	18V \equiv
No load speed	3300/min
Bevel capacity	0-50°
Blade size	140mm
Maximum cutting capacity	
Cutting capacity at 90°	41.5mm
Cutting capacity at 45°	30mm
Weight	3.21Kg
Normal charging time	1hour
Battery capacity	1500mAh
Charger input voltage	230-240V~50Hz
NOISE AND VIBRATION DATA	
Sound pressure level	97.0dB(A)
Sound power level	108.0dB(A)
Vibration level	3.41m/s ²

III - Safety instructions



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

- Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- 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.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2. ELECTRICAL SAFETY

- 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.
- 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.

- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 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.
- 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.
- Recommendation for the use of a residual current device with a rated residual current of 30 mA or less.**

3. PERSONAL SAFETY

- 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.

- 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.
 - 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.
 - 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.
 - Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
 - 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.
 - If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.
- ### 4. POWER TOOL USE AND CARE
- 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.
 - 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.
 - 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.
 - 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.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
 - Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
 - Use the power tool, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, 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

- Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.
- Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack.
- Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screw, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or fire.
- 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.

ADDITIONAL SAFETY RULES - FOR CORDLESS CIRCULAR SAWS

1. Always wear a dust mask.
2. Only use saw blades recommended in the specification.
3. Always wear hearing protection.
4. Do not use any abrasive wheels.
5. Always wear gloves when handling saw blades and rough material. Saw blades shall be carried in a holder whenever practicable.
6. Your circular saw is a hand held tool, do not clamp your circular saw.
7. Before cutting, check the cutting line is free of nails, screws, etc.
8. Do not use saw blades which are deformed or cracked.
9. Do not use saw blades made of high speed steel.
10. Do not use saw blades which do not comply with the characteristics specified in these instructions.
11. Do not stop the saw blade by lateral pressure on the disc.
12. Ensure that movable guards operate freely without jamming.
13. After long working periods external metal parts and accessories could be hot.
14. Remove the battery pack from the saw before carrying out adjustments, servicing or maintenance.
15. Do not expose to rain or water.
16. Charger is for indoor use only.
17. Do not store the battery pack in temperatures over 40°C.
18. Always charge the battery pack between temperatures 0°C to 30°C. Ideal charging temperature is 15°C-25°C.
19. Only use the charger and the battery pack provided, no others.
20. Avoid short circuit of the battery pack connections (screws & nails).
21. Do not incinerate or burn the battery pack, it may explode.
22. Do not charge a damaged battery pack.
23. Replace any damaged supply cords on your charger in an approved service centre.

24. Do not lock the movable guard in the open position.
25. Ensure that any retraction mechanism of the guard system operates correctly.
26. For circular saws: do not use saw blades the body of which is thicker or the set of which is smaller than the thickness of the riving knife.
27. Ensure that the riving knife is adjusted so that:
 - the distance between the riving knife and the toothed rim of the saw blade is not more than 5mm,
 - the toothed rim does not extend more than 5mm beyond the lower edge of the riving knife.
28. The riving knife should always be used except when plunging in the middle of the work piece.
29. For circular saws for woodworking, the advice that if used in confined areas (e.g. indoors), to either use a dust protection or a dust collection equipment.
 - a. **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 can not be cut by the blade.
 - b. **Do not reach underneath the work piece.** The guard cannot protect you from the blade below the work piece.
 - c. **Adjust the cutting depth to the thickness of the work piece.** Less than a full tooth of the blade teeth should be visible below the work piece.
 - d. **Never hold piece being cut in your hands or across your leg.** Secure the work piece 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 grip surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
 - f. **When ripping always use a parallel guide 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 of arbor holes.** Blades that do not

match the mounting hardware of the saw will run eccentrically, causing loss of control.

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

Additional safety instructions for your circular saw causes and operator prevention of kickback:

- Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing and 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 operation 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.

Additional safety instructions 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.

NOTE: Alternate working may be substituted for "retracting handle".
- b) **Check the operation of the lower guard spring. If the guard and the spring are not operation properly, they must be serviced before use.** Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a built-up of debris.
- c) **Lower guard should 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.

NOTE: Alternate working may be substituted for "retracting handle".
- 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.

IV - Symbols



Read the manual



Warning



Indoor use only



Wear dust mask



Wear eye protection



Wear ear protection



Do not expose to rain or water



Do not burn



1 hour charging time



RCM approval

5112

POCKET CUTTING

Pocket cutting (soft materials only) This operation requires much skill with a saw and must only be carried out by a competent person.

WARNING: the blade teeth are exposed during this operation so proceed with extreme caution.

- Clearly mark the area to be cut.
- Set the depth of cut on the saw.
- Position the saw over the marked area with the front edge of the base plate resting on the work surface and cutting guide aligned with marked line on work-piece (See F).
- Ensure the blade is not touching but is close to the work surface. The moving lower guard must be rotated open by using lever (10).
- Switch the saw on and gently swing the blade down into the material but maintain a pivoting force on the front edge of the base. The moving lower guard can now be released for normal action of the guard.

V - Accessories

Saw blade assembled on tool	1
Hex key	1
Parallel guide	1
Vacuum tube	1
1 h charge	1
1 battery	1

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

VI - Operating instructions



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

1

BEFORE USING YOUR CORDLESS CIRCULAR SAW

Your battery pack is **UNCHARGED** and you must charge once before use. Your battery pack will not be fully charged until you have performed several charge and discharge operations by charging & working with your saw. After this your battery pack performance will improve.



WARNING: 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

HOW TO CHARGE YOUR BATTERY PACK

Connect the battery charger to the power supply and the green light (21) will illuminate . Then, fully insert the battery pack into the charger to make the connections and the red light (22) 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 (21) will illuminate to indicate end of charge (See A).

Note:

Green Light = power on

Red Light = charging

Battery Pack Inserted + Green Light = Charging Completed

The battery pack can then be removed for use in your saw. The charger timer circuit and battery pack temperature safety cutout device prevents overcharging of your battery pack.

WARNING: After long usage the battery will become hot, let the hot battery cool down for 1 hour before recharging.

3

TO REMOVE OR INSTALL BATTERY PACK

Locate latches on side of battery pack and depress both sides to release battery pack from your saw. Remove battery pack from your saw. After recharge insert the battery pack into saw's battery port. A simple push and slight pressure will be sufficient.

4


SAFETY ON/OFF SWITCH

Your switch is locked off to prevent accidental starting. Depress lock off button (1) then on/off switch (2) and release lock off button (1). Your switch is now on. To switch off, just release the on/off switch (See B).

5

CHANGING A SAW BLADE

Loosen the locking lever (5) and raise the saw body away from the base plate. Take out the Hex key (4). Press the spindle lock button (6) and use the hex key provided to remove the bolt and outer flange. Rotate lower guard counter-clockwise and hold open using the lever (10) while changing the saw blade. Ensure the blade bore is located on the inner flange and the blade direction arrow points in the same direction as the lower guard arrow. Check that the blade surface and flanges are clean. Press the spindle lock again and re-fit the outer flange over the spindle flats, bolt with 1/4 turn more than finger tight. Check the blade is securely clamped (See

C).  **WARNING:** Blade teeth are very sharp. Wear gloves when changing saw blades. For best cutting results ensure you use a saw blade suited to the material and cut quality you need. Ensure the blade is suitable for the rated speed of the tool. Only use TCT blades in this tool.

6

DEPTH OF CUT ADJUSTMENT

Loosen the locking button (5) and raise the saw body away from the base plate. Set the depth of cut using the scale provides (3) and lock the lever. Always add 1/8" (3mm) to your depth of cut so the blade can cut through the material. (See D)

7

BASE PLATE

Adjusting the angle of the base plate (12) enables bevel cutting. The base plate must always be held firmly against the material being cut to reduce saw vibration, blade jumping or blade breakage.

8

BASE PLATE ANGLE ADJUSTMENT

Loosen the base plate bevel lock knob (17) and rotate the base plate (12) to set the bevel angle using the base plate angle scale (18). Then clamp the base plate (12) in position using the lock knobs (17) (See E). Finally, check the angle and ensure the base plate is firmly clamped. The angle markings on the angle scale 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.

9

PARALLEL GUIDE ADJUSTMENT

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 (See F). Can be used

from both sides of the base plate. The cutting distance is shown on the scale by the 0° or 45° cutting guide marks. Always make a trial cut to check the setting.

10

DUST EXTRACTION OUTLET

To remove sawdust, connect a suitable external dust extraction device (e.g. vacuum cleaner) to the dust extraction outlet (9) using a flexible hose connection. Ensure the hose connection is secure.

VII - Working hints for your circular saw

- If your power tool becomes too hot, run your circular saw no load for 2-3 minutes to cool the motor. Avoid prolonged usage at very low speeds.
- 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. Feeding too fast significantly reduces the performance of the machine and shortens the life of the saw blade. Always face the good side of the work-piece down, to ensure minimum splintering. Only use sharp saw blades of the correct type.

FREQUENTLY ASKED QUESTIONS

1

Why does the saw not turn on when you press the switch?

The safety on/off switch (2) is locked and you must depress the button (1) first (See B).

2

The saw rotates slow. Why?

If the battery is not fully charged, recharge the battery with the supplied battery charger. **NOTE:** Do not charge the battery with a different charger. Charge battery pack only with the charger provided.

3

I cannot fit the battery into the battery charger. Why?

The battery can be inserted into the charger only in one direction. Turn the battery around until it can be inserted into the slot, the red LED light should turn on when the battery is charging (See A).

4

Reasons for different charging times.

Your charge time can be affected by many reasons - which are not defects in your product. If the battery pack is only partly discharged it may be re-charged in less than 1 hour. If the battery pack and ambient temperature are very cold then re-charging may take 1 to 1 1/2 hours. If the battery pack is very hot it will not re-charge because the internal temperature safety cut-out will prevent it. If hot you must remove your battery pack from the charger and allow your battery pack to cool first to ambient temperature and then recharging can be started. If you charge a second battery pack immediately after the first then the charger can be over-heated. Always allow at least 15 minutes rest between battery pack charging.

5

Reasons for different battery pack working times.


Charging time problems, as above, and having not used a battery pack for a prolonged time will reduce the battery pack working time. This can be corrected after several charge and discharge cycles by charging & working with your saw. Do not re-charge your battery pack below 2°C (36F) and above 35°C (95F), as this will affect performance.

VIII - Maintenance

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

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.

IX - Disposal of an exhausted battery pack

 To preserve natural resources, please recycle or dispose of the battery pack ^{Cd} properly. This battery pack contains nickel-cadmium batteries. Consult your local waste authority for information regarding available recycling and/or disposal options. Discharge your battery pack by operating your saw, then remove the battery pack from the saw 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.

X - Warranty

This product is warranted for a 2-year period for home domestic use from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be replaced free of charge with another of the same item. A small freight charge may apply.

The warranty replacement unit only made available by returning the tool to the place of purchase with a confirmed register receipt. Proof of purchase is essential.

We reserve the right to reject any claim where the purchase cannot be verified.

This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents, alterations or commercial or business use.