



English (*original instructions*)

5



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BLCCS78

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UK: Stanley Black & Decker UK Limited | Meadowfield Avenue, Spennymoor, DL16 6YJ, England

Fig. A
A شکل

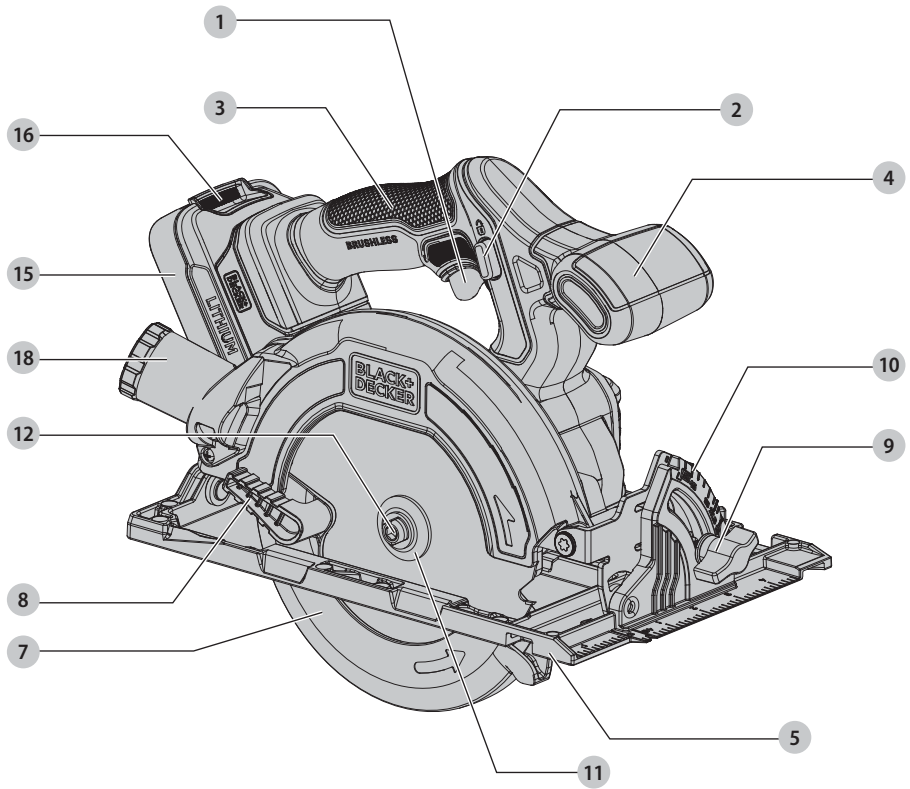


Fig. B
B شکل

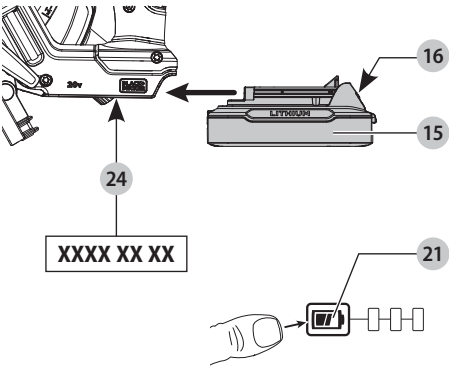


Fig. C
C شکل

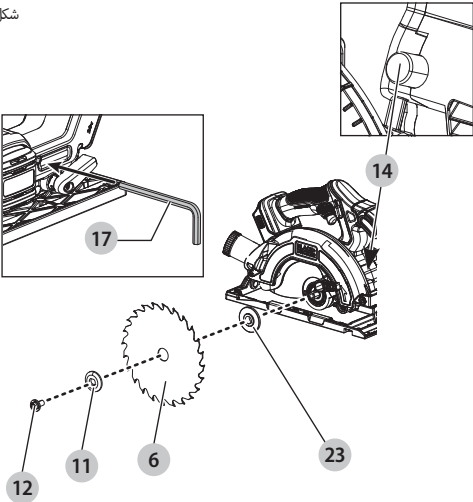


Fig. D

شكل D

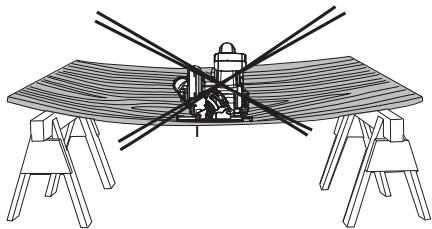


Fig. E

شكل E

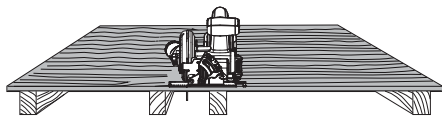


Fig. F

شكل F

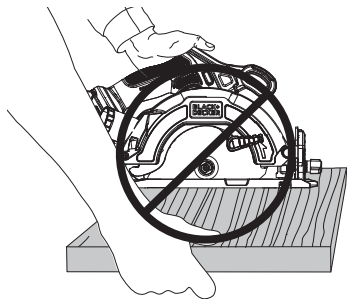


Fig. G

شكل G

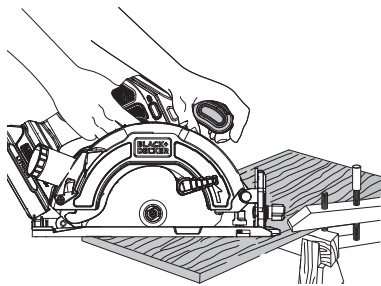


Fig. H

شكل H

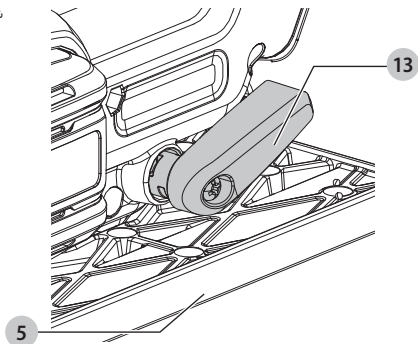


Fig. I

شكل I

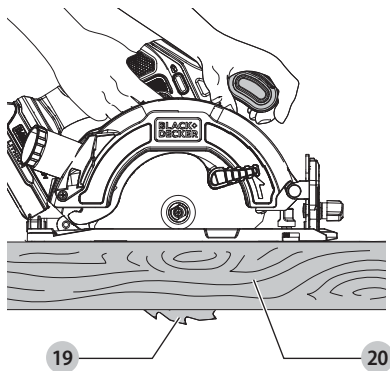


Fig. J

شكل J

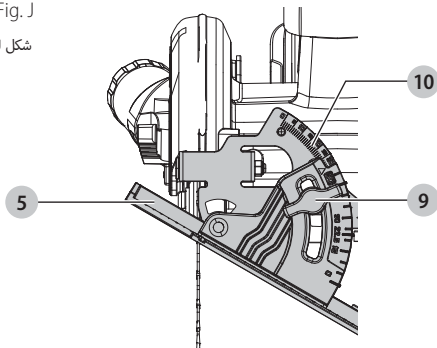


Fig. K

شكل K

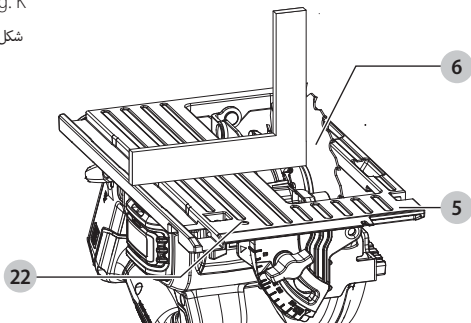


Fig. L

شکل L

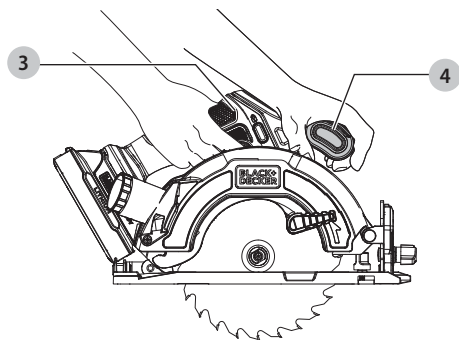


Fig. M

شکل M

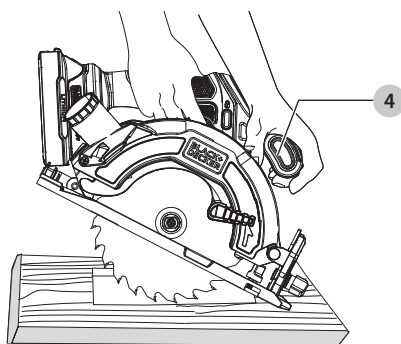


Fig. N

شکل N

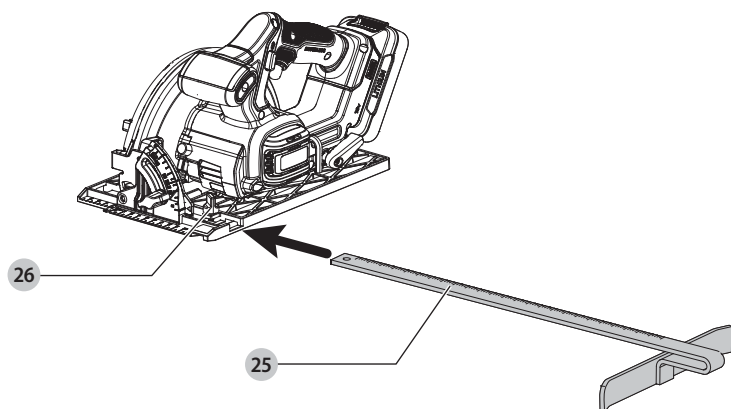


Fig. O

شکل O

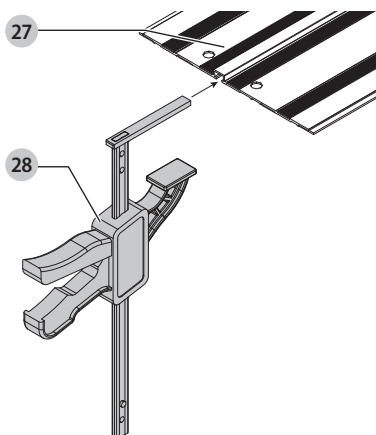


Fig. P

شکل P

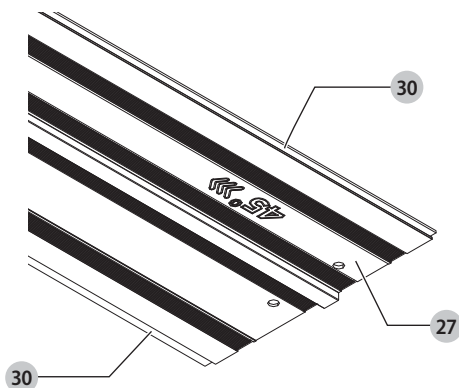


Fig. Q

شكل Q

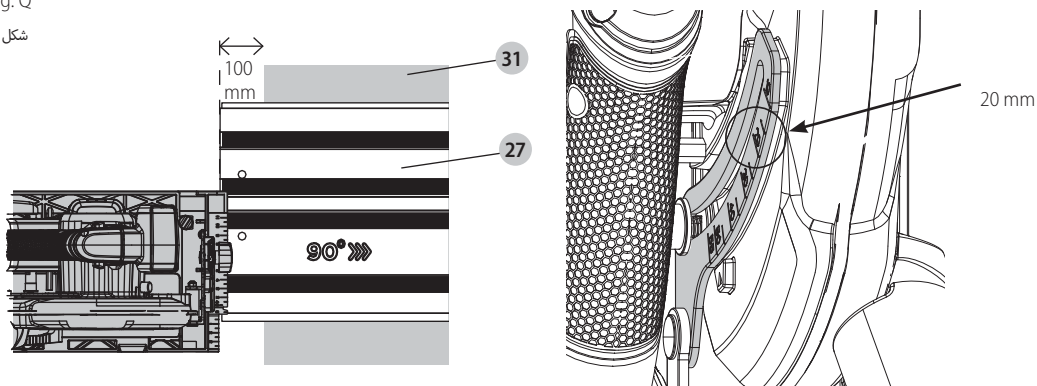


Fig. R

شكل R

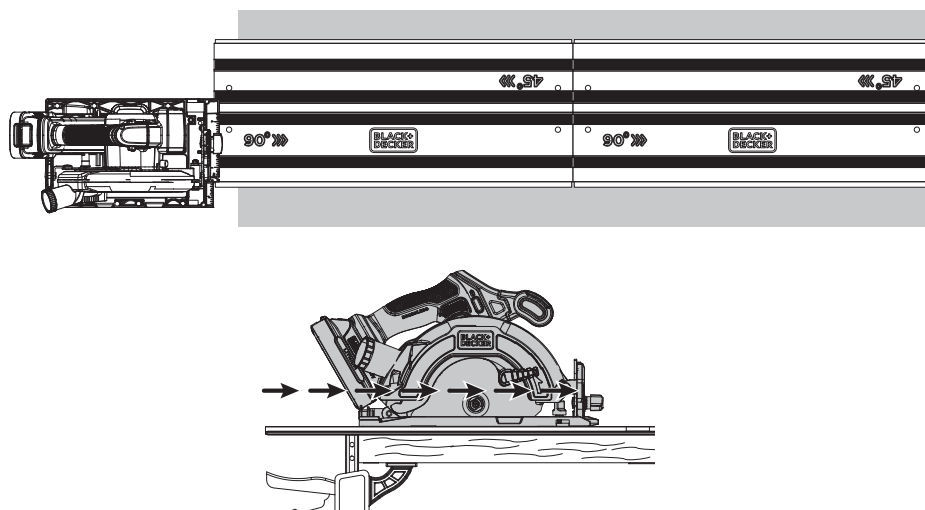


Fig. S

شكل S

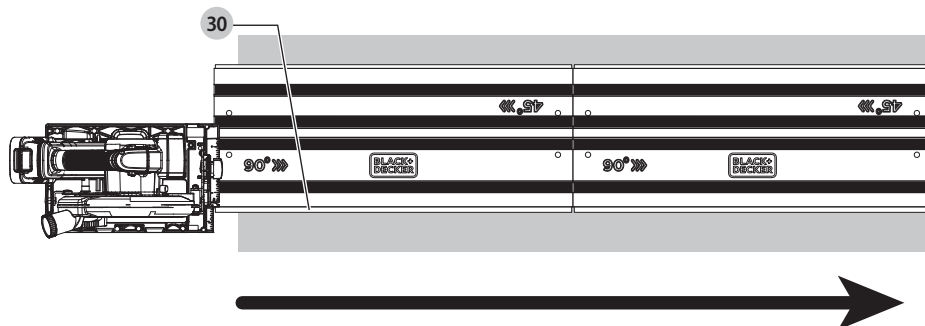


Fig. T
شکل T

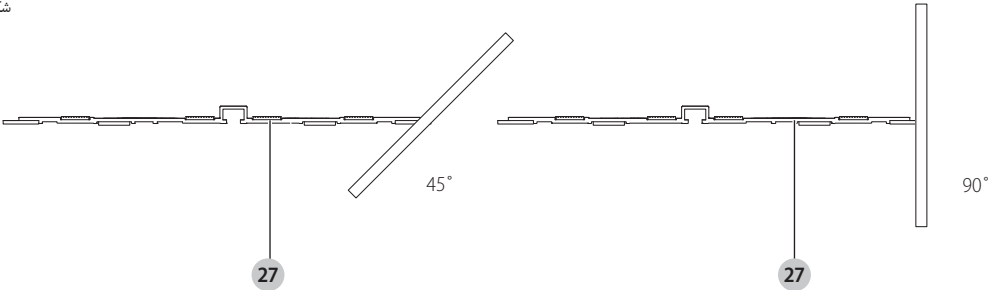


Fig. U1
شکل U1

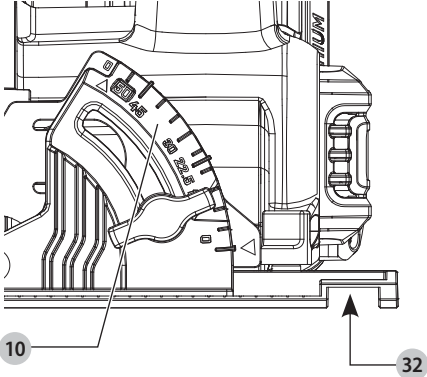


Fig. U2
شکل U2



Fig. U3
شکل U3

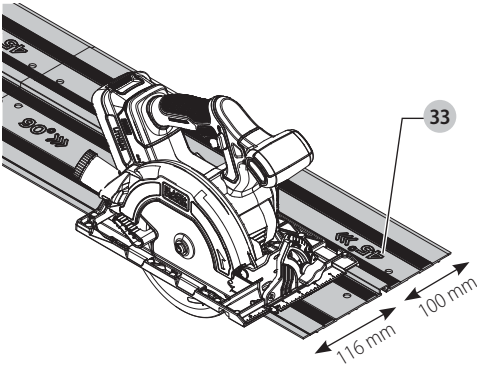
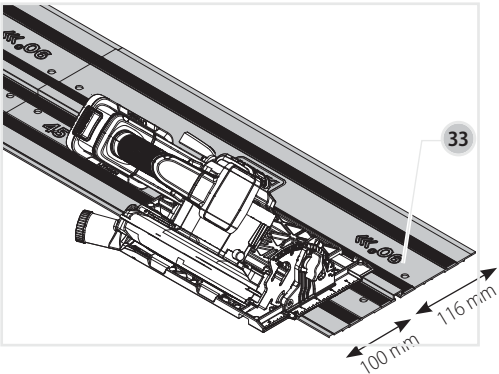


Fig. U4
شکل U4



CIRCULAR SAW

BLCCS78

Documents Available Online

www.2helpU.com/DoC/ or

www.2helpU.com/DoC/index/xxx*

*For direct access, replace "xxx" with the product's model number given on the product rating label or packaging.

- Instruction Manual
- Declaration of Conformity (DoC)
- Product Emission Data (PED): Information about Noise, Vibration and Dust (not applicable for all products)



WARNING: Read all safety warnings, instructions, illustrations, and specifications in this manual, including the battery and charger sections provided in an original tool manual or the separate Batteries and Chargers manual. Manuals can be obtained by contacting

Customer Service (refer to the back page of this manual).

Technical Data

BLCCS78		
Voltage	V _{bc}	18
Type		1
Battery type		Li-Ion
No-load speed	min ⁻¹	4300
Blade diameter	mm	165
Maximum depth of cut	mm	55
Blade bore	mm	20
Bevel angle adjustment		0–50°
Weight (without battery pack)	kg	2.85

Intended Use

This circular saw has been designed for sawing wood and wood products. This tool is intended for do-it-yourself users.

WARNING: Do not cut any metals, masonry, glass, tile or plastic with this saw. A dull blade will cause slow, inefficient cutting overload on the saw motor, excessive splintering, and could increase the possibility of kickback.

- Use only blades designed for wood cutting.

WARNING: Cutting sap-coated wood and other materials may cause melted substances to accumulate on the blade tips and the body of the saw blade, increasing the risk of the blade overheating and binding while cutting.

DO NOT cut metal, plastic, concrete, or masonry.

DO NOT use for wet tile application.

DO NOT use under wet conditions or in the presence of flammable liquids or gases.

DO NOT let children come into contact with the tool.

Supervision is required when inexperienced operators use this tool.

- **Young children and the infirm.** This appliance is not intended for use by young children or infirm persons without supervision.

- This product is not intended for use by persons (including children) suffering from diminished physical, sensory or mental abilities; lack of experience, knowledge or skills unless they are supervised by a person responsible for their safety. Children should never be left alone with this product.

Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

▲ DANGER: Indicates an imminently hazardous situation which, if not avoided, **will** result in **death or serious injury**.

▲ WARNING: Indicates a potentially hazardous situation which, if not avoided, **could** result in **death or serious injury**.

▲ CAUTION: Indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury**.

NOTICE: Indicates a practice **not related to personal injury** which, if not avoided, **may** result in **property damage**.

▲ Denotes risk of electric shock.

▲ Denotes risk of fire.

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.

1) Work Area Safety

a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.

b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.

c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical Safety

a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.

b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal Safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a 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 and clothing 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.

4) Power Tool Use and Care

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

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

c) **Disconnect the plug from the power source and/or 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.

5) Battery Tool Use and Care

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

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

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

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

e) **Do not use a 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.

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.

b) **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorised service providers.

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.** If both hands are holding the saw, they cannot be cut by the blade.

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

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 or other body part 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, 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 arbor holes.** Blades that do not match the mounting hardware of the saw will run off-center, 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, jammed 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 jammed 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 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 the 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.

Lower Guard Function

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

Additional Safety Instructions for Circular Saws

- **Wear ear protectors.** Exposure to noise can cause hearing loss.
- **Wear a dust mask.** Exposure to dust particles can cause breathing difficulty and possible injury.
- **Do not use blades of larger or smaller diameter than recommended.** For the proper blade rating refer to the **Technical Data**. Use only the blades specified in this manual, complying with EN847-1, if intended for wood cutting.
- **Never use abrasive or dry diamond cut-off wheels.**
- **Do not use water feed attachments.**
- **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- **Use only saw blades that are marked with a speed equal or higher than the speed marked on the tool.**
- **Avoid overheating the blade tips.**
- **Install the dust extraction port onto the saw before use.**

Residual Risks

The following risks are inherent to the use of circular saws.

- **Injuries caused by touching the rotating parts or hot part of the tool.**

In spite of the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. These are:

- **Impairment of hearing.**
- **Risk of accidents caused by the uncovered parts of the rotating saw blade.**
- **Risk of injury when changing the blade.**
- **Risk of squeezing fingers when changing the accessory.**
- **Health hazards caused by breathing dust developed when working in wood.**

Compatible Batteries and Chargers

These battery packs and chargers may be used:

Battery	(kg)	Chargers
BL1518	0.36	S018BOV1800100
BL2018	0.37	S018BOB1800100
BL2518	0.37	90634973
BDL1518S	0.36	SSC-250040EU
BDL2018S	0.37	SSC-250040UK
BDL2518S	0.38	SSC-200100EU
BDL1518	0.36	SSC-200100UK
BDL2018	0.37	90599854-02
BDL2518	0.38	BDC2A
BL4018	0.64	
BDL4018S	0.64	
BL5018	0.65	

Refer to the battery/charger section or manual for more information.

Package Contents

The package contains:

- 1 Circular saw
- 1 Circular saw blade
- 1 Blade wrench
- 1 Dust extraction port
- 1 Charger (T models only)
- 1 Li-Ion battery pack (C1, D1, L1, M1, P1, S1, T1, X1, Y1 models)
- 2 Li-Ion battery packs (C2, D2, L2, M2, P2, S2, T2, X2, Y2 models)
- 3 Li-Ion battery packs (C3, D3, L3, M3, P3, S3, T3, X3, Y3 models)
- 1 Instruction manual

NOTE: Battery packs, chargers and kitboxes are not included with N models. Battery packs and chargers are not included with NT models. B models include Bluetooth® battery packs.

NOTE: The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth®, SIG, Inc. and any use of such marks by BLACK+DECKER is under license. Other trademarks and trade names are those of their respective owners.

- Check for damage to the tool, parts or accessories which may have occurred during transport.
- Take the time to thoroughly read and understand this manual prior to operation.

Markings on Tool

The following pictograms are shown on the tool:



Read instruction manual before use.



User must wear sufficient eye and ear protection.



Visible radiation. Do not stare into light.



User must wear a sufficient breathing protection.

Date Code Position (Fig. B)

The production date code **24** consists of a 4-digit year followed by a 2-digit week and is extended by a 2-digit factory code.

Description (Fig. A–C, H)

▲ WARNING: Never modify the power tool or any part of it. Damage or personal injury could result.

- 1 On/off trigger switch
- 2 Lock-off button
- 3 Main handle
- 4 Secondary handle
- 5 Shoe
- 6 Saw blade
- 7 Lower blade guard
- 8 Lower guard retracting lever
- 9 Bevel adjustment lever
- 10 Bevel angle scale
- 11 Outer blade clamp washer
- 12 Blade retaining bolt
- 13 Depth adjustment lever
- 14 Spindle lock button
- 15 Battery
- 16 Battery release button
- 17 Hex wrench
- 18 Dust extraction port

ASSEMBLY AND ADJUSTMENTS

▲ WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

Inserting and Removing the Battery Pack from the Tool (Fig. B)

NOTE: Make sure your battery pack **15** is fully charged.

To Install the Battery Pack into the Tool Handle

1. Align the battery pack with the rails inside the tool's handle (Fig. B).
2. Slide it into the handle until the battery pack is firmly seated in the tool and ensure that you hear the lock snap into place.

To Remove the Battery Pack from the Tool

1. Press the battery release button **16** and firmly pull the battery pack out of the tool handle.
2. Insert battery pack into the charger.

Fuel Gauge Battery Packs (Fig. B)

Some BLACK+DECKER battery packs include a fuel gauge **21**, which consists of three LED lights that indicate the level of charge remaining in the battery pack.

To actuate the fuel gauge, press and hold the fuel gauge button. A combination of the three LED lights will illuminate, designating the level of charge left. When the level of charge in the battery is below the usable limit, the fuel gauge will not illuminate and the battery will need to be recharged.

NOTE: The fuel gauge is only an indication of the charge left on the battery pack. It does not indicate tool functionality and is subject to variation based on product components, temperature and end-user application.

Attaching and Removing the Blade (Fig. A–C)

1. Retract (clockwise) the lower guard retracting lever **8** and assemble inner blade clamp washer **23**, saw blade **6** and outer blade clamp washer **11** as shown in Fig. C.
2. Depress the spindle lock button **14** while turning the blade retaining bolt **12** with the hex wrench **17** until the blade lock engages and the blade stops rotating.

NOTE: Hex wrench is stored on the saw as shown in Fig. C. Tighten the blade retaining bolt securely with the hex wrench.

NOTE: Blade retaining bolt has a right-handed thread. To loosen, turn counterclockwise. To tighten, turn clockwise.

NOTE: Never engage the lock-off button **2** while the saw is running, or engage in an effort to stop the tool. Never turn the tool on while the blade lock is engaged. Serious damage to your saw will result.

Supporting Large Panels/Securing Workpiece (Fig. D–G)

Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight as shown in Fig. D.

Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel (Fig. E).

▲ WARNING: To reduce the risk of injury, never hold the piece being cut with your hands or lay it across your leg (Fig. F). Secure the workpiece to a stable platform as shown in Fig. G. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.

Cutting Depth Adjustment (Fig. H, I)

The depth of cut should be set according to the thickness of the workpiece.

1. Hold the saw firmly and loosen (counterclockwise) the depth adjustment lever **13** to unlock the saw shoe **5**.
2. Move the shoe to obtain the desired depth of cut.
3. Set depth adjustment of saw such that one tooth **19** of the blade projects below the workpiece **20** as shown in Fig. I.
4. Tighten (clockwise) the depth adjustment lever to lock the saw shoe in place.

Bevel Angle Adjustment (Fig. J)

This tool can be set to bevel angles between 0° and 50°.

1. Loosen (counterclockwise) the bevel adjustment lever **9** to unlock the saw shoe **5**.
2. Move the saw shoe into the desired position corresponding with the bevel angle markings on the bevel angle scale **10**.
3. Tighten (clockwise) the bevel adjustment lever to lock the saw shoe in place.
4. Confirm the accuracy of the setting by checking the bevel angle of an actual cut on a scrap piece of material.

Shoe Adjustment for 90° Cuts (Fig. A, K)

The shoe **5** has been set by the factory to assure that the blade is perpendicular to the shoe at 0° bevel setting.

If realignment is needed:

1. Adjust the saw to 0° bevel.
2. Retract lower blade guard **7** by turning (clockwise) the lower guard retracting lever **7**.

3. Loosen (counterclockwise) the bevel adjustment lever **9**. Place a square against the blade **6** and shoe **5** to adjust the 90° setting.
4. Turn the calibration screw **22** so that the shoe will stop at the proper angle.
5. Confirm the accuracy of the setting by checking the squareness of an actual cut on a scrap piece of material.

Guide Rail System (Fig. O, Q)

Guide rails, available in different lengths as accessories, allow the use of the circular saw for precise, straight clean cuts and simultaneously protect the workpiece surface against damage. In conjunction with additional accessories, exact angled cuts, mitre cuts and fitting work can be completed with the guide rail system.

Clamps **29** (DeWALT DWS5026 Sold Separately) are available to secure the guide rail **27** to the workpiece **28** (Fig. O, Q). Use of these clamps ensure that the guide rail is securely attached to the workpiece for safe working. Once the guide rail is set to the cut line and securely fixed to the workpiece, there is no movement during cutting.

1. Place the guide rail **27** on a scrap piece of wood **30** with a maximum length of 100 mm overhanging the workpiece (Fig. Q).
- IMPORTANT:** The height scale on the unit is set for using the saw without a guide rail. When using the saw on the guide rail the difference in height will be approximately 5.0 mm.

Setting the Circular Saw to the Guide Rail (Fig. A, Q, U1–U4)

The guide rail is designed for making clean precise cuts at 45° and 90°.

For straight 90° cuts:

1. Place the guide rail **27** on a scrap piece of wood **30** with a maximum length of 100 mm overhanging the workpiece (Fig. Q). The blade under the overhanging distance will be exposed so user should avoid any contact or placing any objects to that blade exploring area.
2. Fit the shoe slot **31** onto the track bump **32** from the wider side (116 mm, marked with 90° symbol). Refer to Fig. U3. Push the saw slowly forward as the rail surface arrow symbol indicates. Refer to Fig. U2.
3. Make sure the bevel angle scale **10** is set to 0°.

For 45° cuts:

1. Fit the shoe slot **31** onto the track bump **32** from the narrow side (100 mm, marked with 45° symbol). Refer to Fig. U4. Push the saw slowly forward as the rail surface arrow symbol indicates. Refer to Fig. U2.
2. Make sure the bevel angle scale **10** is set to 45°.

IMPORTANT: Make sure the saw is secure on the rail by trying to push the saw forward. Ensure there is no movement of the saw.

NOTE: Tune the Anti-Splinter guard first before making any workpiece cuts. Read **Steps to Tune the Anti-Splinter Guard**.

Tuning the Anti-Splinter Guard (Fig. P)

The guide rail **27** is equipped with an anti-splinter guard **29** that has to be tuned to the saw before the first use.

The anti-splinter guard **29** is situated on each edge of the guide rail. The purpose of this anti-splinter guard is to provide the user

with a visible blade cut line while reducing the chipping that occurs along the workpiece cut edge during cutting.

IMPORTANT: ALWAYS read and follow the **Setting the Circular Saw to the Guide Rail** before cutting the splinter guard!

Steps to Tune the Anti-Splinter Guard (Fig. O–T)

1. Place the guide rail **27** on a scrap piece of wood **30** with a maximum length of 100 mm overhanging the workpiece (Fig. Q). The blade under the overhanging distance will be exposed so user should avoid any contact or placing any objects to that blade exploring area.
2. Use a clamp **29** to ensure that the guide rail is securely attached to the workpiece (Fig. O). This will ensure accuracy.
3. Set the unit to a 20 mm depth of cut.
4. Place the front of the saw on the overhang end of the guide rail, making sure that the blade is positioned in front of the rail edge (Fig. R).
5. Turn the saw on and slowly cut the splinter guard along the full length of the rail in one continuous operation. The edge of the splinter guard now corresponds exactly to the cutting edge of the blade (Fig. S).

To tune in the anti-splinter guard on the other side of the guide rail, remove the saw from the rail and rotate the rail 180°. Repeat steps 1 through 4.

NOTE: If desired, the splinter guard can be bevelled to 45°, then repeat steps 1 through 4. This allows one side of the rail for cutting parallel 90° cuts and the other side of the rail is tuned in for 45° bevel cuts (Fig. T).

OPERATION

Instructions for Use

▲ WARNING: Always observe the safety instructions and applicable regulations.

▲ WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

Proper Hand Position (Fig. L)

▲ WARNING: To reduce the risk of serious personal injury, ALWAYS use proper hand position as shown.

▲ WARNING: To reduce the risk of serious personal injury, ALWAYS hold securely in anticipation of a sudden reaction.

Proper hand position requires one hand on the main handle **3** and one hand on the secondary handle **4**.

On/Off Switch (Fig. A)

Saw is equipped with a switch lock-off feature to prevent unintentional operation.

1. To operate the tool, press in on the lock-off button **2** from either side of the saw and hold it in as you depress the on/off trigger switch **1**.
2. After you have depressed the on/off trigger switch and the tool is running, release the lock-off button. The tool will continue to run as long as the on/off trigger switch is depressed.
3. To turn the tool off, release the on/off trigger switch.

NOTE: This tool has no provision for locking the tool on, and the on/off trigger switch should never be locked on by any other means.

Automatic Electric Brake

Your saw is equipped with an electric blade brake which stops the saw blade within 1–2 seconds of trigger release. This is automatic and requires no adjustment.

Lower Blade Guard (Fig. A)

▲ WARNING: Laceration hazard. The lower blade guard **7** is a safety feature which reduces the risk of serious personal injury. Never use the saw if the lower guard is missing, damaged, mis-assembled or not working properly. Do not rely on the lower blade guard to protect you under all circumstances. Your safety depends on following all warnings and precautions as well as proper operation of the saw. Check lower guard for proper closing before each use as outlined in **Further Safety Instructions for all Saws**. If the lower blade guard is missing or not working properly, have the saw serviced before using. To assure product safety and reliability, repair, maintenance and adjustment should be performed by an authorized service center or other qualified service organization, always using identical replacement parts.

▲ WARNING: To minimize the risk of eye injury, always use eye protection. Carbide is a hard but brittle material. Foreign objects in the workpiece such as wire or nails can cause tips to crack or break. Only operate saw when proper saw blade guard is in place. Mount blade securely in proper rotation before using, and always use a clean, sharp blade.

▲ WARNING: To reduce the risk of injury, It is important to support the work properly and to hold the saw firmly to prevent loss of control which could cause personal injury. Fig. L illustrates typical hand support.

▲ WARNING: To reduce the risk of serious personal injury, read, understand and follow all important safety warnings and instructions prior to using tool.

Blade Selection

Your circular saw is designed for use with 165 mm diameter blades that have a 20 mm diameter bore. Blades must be rated for 6000 RPM operation (or higher).

DO NOT use any abrasive wheels.

General Cuts (Fig. A)

▲ WARNING: To reduce the risk of injury, remove the battery, and follow all assembly, adjustment and set up instructions. Make sure lower guard operates. Select the proper blade for the material to be cut.

- Measure and mark work for cutting.
- Support and secure work properly (refer to **Supporting Large Panels/Securing Workpiece**).
- Use appropriate and required safety equipment (refer to **Additional Safety Information**).
- Secure and maintain work area (refer to **Safety Instructions for All Saws**).
- With battery **15** inserted, make sure on/off trigger switch **1** turns saw on and off.

Sawing

▲ WARNING: To reduce the risk of serious personal injury, always hold the tool with both hands.

- Keep your body positioned to either side of the blade, but not in line with the saw blade. Kickback could cause the saw to jump backwards. Refer to **Further Safety Instructions for all Saws and Kickback Causes and Related Warnings**.

- Let the blade run freely for a few seconds before starting the cut.
- Apply only a gentle pressure to the tool while performing the cut.
- Work with the shoe pressed against the workpiece.

Hints for Optimum Use

- As some splintering along the line of cut on the top side of the workpiece cannot be avoided, cut on the side where splintering is acceptable.
- Where splintering is to be minimized, e.g. when cutting laminates, clamp a piece of plywood onto the top of the workpiece.

Pocket Cutting (Fig. A, M)

▲ WARNING: Never tie the blade guard in a raised position. Never move the saw backwards when pocket cutting. This may cause the unit to raise up off the work surface which could cause injury.

A pocket cut is one that is made when the edge of the material does not push the lower guard open, but the bottom edge of the rotating blade cuts into the middle of the material.

1. Adjust the shoe **5** so the blade cuts at desired depth (refer to **Cutting Depth Adjustment**).
2. Tilt the saw forward and rest front of the shoe on material to be cut.
3. Using the lower guard retracting lever **8**, retract lower blade guard **7** to an upward position. Lower rear of shoe until blade teeth almost touch cutting line.
4. Release the blade guard (its contact with the work will keep it in position to open freely as you start the cut). Remove hand from guard lever and firmly grip secondary handle **4**, as shown in Fig. M. Position your body and arm to allow you to resist kickback if it occurs.
5. Make sure blade is not in contact with cutting surface before starting saw.
6. Start the motor, allow saw to come to full speed, and then gradually lower the saw until its shoe rests flat on the material to be cut. Advance saw along the cutting line until cut is completed.
7. Release on/off trigger switch **11** and allow blade to stop completely before withdrawing the blade from the material.
8. When starting each new cut, repeat as above.

Ripping (Fig. C, N)

A rip fence is supplied with your tool.

Ripping is the process of cutting wider boards into narrower strips – cutting grain lengthwise. Hand guiding is more difficult for this type of sawing and the use of a rip fence is recommended.

Installing the Rip Fence

You can install a rip fence **25** on your circular saw by loosening the rip fence locking screw **26** with the included hex wrench **17** and inserting the rip fence as shown in Fig. N. When the rip fence is at the desired position, use the hex wrench to tighten the rip fence locking screw, locking it in place.

Dust Extraction (Fig. A)

▲ WARNING: Risk of dust inhalation. To reduce the risk of personal injury, **ALWAYS** wear an approved dust mask.

▲ WARNING: ALWAYS use a vacuum extractor designed in compliance with the applicable directives regarding dust emission

when sawing wood. Vacuum hoses of most common vacuum cleaners will fit directly into the dust extraction outlet.

A dust extraction port **18** is supplied with your tool. The dust extraction port allows you to connect the tool to an external dust extractor.

MAINTENANCE

Your power tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

▲ WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

The charger and battery pack are not serviceable.

Please refer to the back page of this manual for service centre contact information, or visit www.2helpU.com.

Lubrication

Your power tool requires no additional lubrication.

Cleaning

▲ WARNING: Electrical shock and mechanical hazard.

Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the product before cleaning.

▲ WARNING: To ensure safe and efficient operation, always keep the product and the ventilation slots (if applicable) clean. Ventilation slots can be cleaned using a dry, soft non-metallic brush and/or a suitable vacuum cleaner. Do not use water or any cleaning solutions.

▲ WARNING: Blow dirt and dust out of the main housing with dry air as often as dirt is seen collecting in and around the ventilation slots. Wear approved eye protection and approved dust mask when performing this procedure.

▲ WARNING: Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the product. These chemicals may weaken the materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the product. Never immerse any part of the product into a liquid.

Reducing Dust Exposure

Before starting work, check the hazard class of the dust that will be produced when working.

▲ WARNING: Avoid touching or breathing dust as it can be harmful to health. Dust created when using a power tool and when conducting other construction activities can contain chemicals, minerals, or particles known to cause respiratory infections, allergic reactions, cancer, birth defects, or other reproductive harm of the user or bystanders.

- Such dust can be generated, for example, when working on hardwoods such as beech or oak, lead-based paint, concrete, masonry, or stones containing quartz.
- Material containing asbestos may be handled only by specialists.
- Observe the relevant regulations in your country for the materials to be worked on.
- Use a dust extractor or extraction system with an officially approved protection class in compliance with the locally applicable dust protection regulations and suitable for the material to be worked on.

- *Capture the resulting dust particles directly at the source and avoid deposits in the surrounding area. Use suitable extraction accessories for this purpose.*

Additional measures:

- *Make sure that the workplace is well ventilated.*
- *Wear a respirator appropriate for the type of dust generated.*

Optional Accessories

⚠ WARNING: *Since accessories, other than those offered by BLACK+DECKER, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only BLACK+DECKER-recommended accessories should be used with this product.*

Consult your dealer for further information on the appropriate accessories.

Protecting the Environment



Products/batteries are recyclable, but if marked with the crossed-out bin, they must not be disposed of with normal household waste.

Run the batteries down completely and separate them, and separate any light sources from the product if possible. It is the user's responsibility to delete personal data from the product. Then take the waste to an official waste collection centre or a participating retailer who will often accept it free of charge. Packaging should be discarded based on the marked material code. Operating and safety instructions should only be discarded once the applicable product is no longer in use.

Please check with your local community/municipality for waste management guidance. For further information, visit **www.2helpU.com** and scan the above QR code.

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