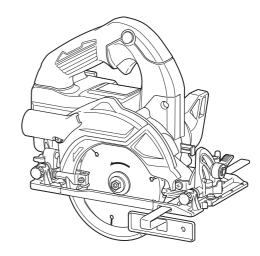
INSTRUCTION MANUAL



# Cordless Circular Saw DHS475





## SPECIFICATIONS

Model:		DHS475	
Blade diameter		125 mm	
Max. Cutting depth	at 0°	47 mm	
	at 45° bevel	30 mm	
	at -15° bevel	20 mm	
No load speed		5,400 min <sup>-1</sup>	
Overall length		256 mm	
Rated voltage		D.C. 18 V	
Net weight		2.4 - 2.8 kg	

Due to our continuing program of research and development, the specifications herein are subject to change
 without notice.

- Specifications and battery cartridge may differ from country to country.
- The weight may differ depending on the attachment(s), including the battery cartridge. The lightest and heaviest combinations, according to EPTA-Procedure 01/2014, are shown in the table.

#### Applicable battery cartridge and charger

Battery cartridge	BL1815N / BL1820 / BL1820B / BL1830 / BL1830B / BL1840 / BL1840B / BL1850 / BL1850B / BL1860B	
Charger	DC18RC / DC18RD / DC18RE / DC18SD / DC18SE / DC18SF	

 Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

**A**WARNING: Only use the battery cartridges and chargers listed above. Use of any other battery cartridges and chargers may cause injury and/or fire.

#### Symbols

The followings show the symbols used for the equipment. Be sure that you understand their meaning before use.

<b>(</b>	Read instruction manual.
Ni-MH Li-ion	Only for EU countries Do not dispose of electric equipment or battery pack together with household waste material! In observance of the European Directives, on Waste Electric and Electronic Equipment and Batteries and Accumulators and Waste Batteries and Accumulators and their implementation in accordance with national laws, electric equipment and batteries and battery pack(s) that have reached the end of their life must be col- lected separately and returned to an envi- ronmentally compatible recycling facility.

#### Intended use

The tool is intended for performing lengthways and crossways straight cuts and mitre cuts with angles in wood while in firm contact with the workpiece.

## SAFETY WARNINGS

#### 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

- 1. 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.
- 3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

#### **Electrical Safety**

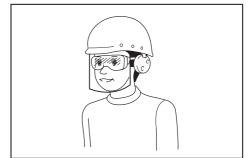
 Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

- 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.
- 3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 4. 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.
- 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.
- Power tools can produce electromagnetic fields (EMF) that are not harmful to the user. However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

#### **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 a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- 3. 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.
- 4. 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.
- 5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 6. 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.
- 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.
- 8. 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.

 Always wear protective goggles to protect your eyes from injury when using power tools. The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.



It is an employer's responsibility to enforce the use of appropriate safety protective equipments by the tool operators and by other persons in the immediate working area.

#### 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 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.
- 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.
- 5. 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.
- 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, 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.
- 8. 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.

 When using the tool, do not wear cloth work gloves which may be entangled. The entanglement of cloth work gloves in the moving parts may result in personal injury.

#### Battery tool use and care

- 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.
- 2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- 3. 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.
- 4. 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.
- 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.
- Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
- 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.

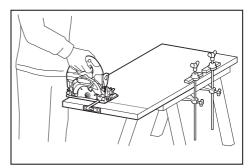
#### Service

- 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.
- 2. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.
- 3. Follow instruction for lubricating and changing accessories.

#### Cordless circular saw safety warnings

#### **Cutting procedures**

- 1. **ADANGER: Keep hands away from cutting area and the blade.** If both hands are holding the saw, they cannot be cut by the blade.
- 2. Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- 3. 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.
- 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 minimise body exposure, blade binding, or loss of control.



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

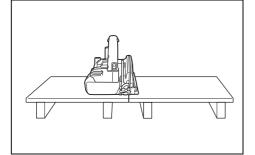
#### Kickback causes and related warnings

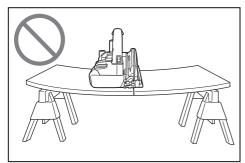
- kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- when the blade is pinched or jammed tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back 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.

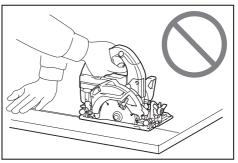
- 1. Maintain a firm grip on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- 2. 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.

- 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.
- 4. 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.





- Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- 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.
- Use extra caution when sawing into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.
- ALWAYS hold the tool firmly with both hands. NEVER place your hand, leg or any part of your body under the tool base or behind the saw, especially when making cross-cuts. If kickback occurs, the saw could easily jump backwards over your hand, leading to serious personal injury.



 Never force the saw. Push the saw forward at a speed so that the blade cuts without slowing. Forcing the saw can cause uneven cuts, loss of accuracy, and possible kickback.

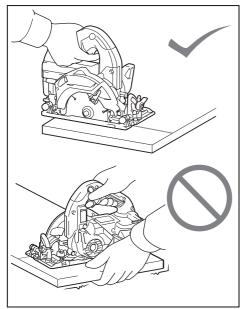
#### Lower guard function

- 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.
- 2. 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.
- 3. The lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise the lower guard by the retracting 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.
- 4. 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.
- To check lower guard, open lower guard by hand, then release and watch guard closure. Also check to see that retracting handle does not touch tool housing. Leaving blade exposed is VERY DANGEROUS and can lead to serious personal injury.

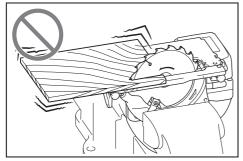
#### Additional safety warnings

- Use extra caution when cutting damp wood, pressure treated lumber, or wood containing knots. Maintain smooth advancement of tool without decrease in blade speed to avoid overheating the blade tips.
- 2. Do not attempt to remove cut material when blade is moving. Wait until blade stops before grasping cut material. Blades coast after turn off.
- 3. Avoid cutting nails. Inspect for and remove all nails from lumber before cutting.

4. Place the wider portion of the saw base on that part of the workpiece which is solidly supported, not on the section that will fall off when the cut is made. If the workpiece is short or small, clamp it down. DO NOT TRY TO HOLD SHORT PIECES BY HAND!



- 5. Before setting the tool down after completing a cut, be sure that the guard has closed and the blade has come to a complete stop.
- 6. Never attempt to saw with the circular saw held upside down in a vise. This is extremely dangerous and can lead to serious accidents.



- 7. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
- 8. Do not stop the blades by lateral pressure on the saw blade.
- 9. Do not use any abrasive wheels.
- Only use the saw blade with the diameter that is marked on the tool or specified in the manual. Use of an incorrectly sized blade may affect the proper guarding of the blade or guard operation which could result in serious personal injury.

- 11. Keep blade sharp and clean. Gum and wood pitch hardened on blades slows saw and increases potential for kickback. Keep blade clean by first removing it from tool, then cleaning it with gum and pitch remover, hot water or kerosene. Never use gasoline.
- 12. Wear a dust mask and hearing protection when use the tool.
- 13. Always use the saw blade intended for cutting the material that you are going to cut.
- 14. Only use the saw blades that are marked with a speed equal or higher than the speed marked on the tool.
- 15. (For European countries only) Always use the blade which conforms to EN847-1.

### SAVE THESE INSTRUCTIONS.

**A**WARNING: DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

# Important safety instructions for battery cartridge

- Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
- 2. Do not disassemble battery cartridge.
- 3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
- If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
- 5. Do not short the battery cartridge:
  - (1) Do not touch the terminals with any conductive material.
  - (2) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
  - (3) Do not expose battery cartridge to water or rain.

A battery short can cause a large current flow, overheating, possible burns and even a breakdown.

- Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).
- 7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
- 8. Be careful not to drop or strike battery.
- 9. Do not use a damaged battery.

10. The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.

For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required. Please also observe possibly more detailed national regulations.

Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.

- 11. Follow your local regulations relating to disposal of battery.
- 12. Use the batteries only with the products specified by Makita. Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.

#### SAVE THESE INSTRUCTIONS.

**CAUTION:** Only use genuine Makita batteries. Use of non-genuine Makita batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Makita warranty for the Makita tool and charger.

# Tips for maintaining maximum battery life

- 1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
- 2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
- Charge the battery cartridge with room temperature at 10 °C - 40 °C (50 °F - 104 °F). Let a hot battery cartridge cool down before charging it.
- 4. Charge the battery cartridge if you do not use it for a long period (more than six months).

#### Important safety instructions for wireless unit

- 1. Do not disassemble or tamper with the wireless unit.
- 2. Keep the wireless unit away from young children. If accidentally swallowed, seek medical attention immediately.
- 3. Use the wireless unit only with Makita tools.
- 4. Do not expose the wireless unit to rain or wet conditions.
- 5. Do not use the wireless unit in places where the temperature exceeds 50°C (122°F).
- 6. Do not operate the wireless unit in places where medical instruments, such as heart pace makers are nearby.
- 7. Do not operate the wireless unit in places where automated devices are nearby. If operated, automated devices may develop malfunction or error.

- Do not operate the wireless unit in places under high temperature or places where static electricity or electrical noise could be generated.
- 9. The wireless unit can produce electromagnetic fields (EMF) but they are not harmful to the user.
- 10. The wireless unit is an accurate instrument. Be careful not to drop or strike the wireless unit.
- 11. Avoid touching the terminal of the wireless unit with bare hands or metallic materials.
- 12. Always remove the battery on the product when installing the wireless unit into it.
- 13. When opening the lid of the slot, avoid the place where dust and water may come into the slot. Always keep the inlet of the slot clean.
- 14. Always insert the wireless unit in the correct direction.
- 15. Do not press the wireless activation button on the wireless unit too hard and/or press the button with an object with a sharp edge.
- 16. Always close the lid of the slot when operating.
- 17. Do not remove the wireless unit from the slot while the power is being supplied to the tool. Doing so may cause a malfunction of the wireless unit.
- 18. Do not remove the sticker on the wireless unit.
- 19. Do not put any sticker on the wireless unit.
- 20. Do not leave the wireless unit in a place where static electricity or electrical noise could be generated.
- 21. Do not leave the wireless unit in a place subject to high heat, such as a car sitting in the sun.
- 22. Do not leave the wireless unit in a dusty or powdery place or in a place corrosive gas could be generated.
- 23. Sudden change of the temperature may bedew the wireless unit. Do not use the wireless unit until the dew is completely dried.
- 24. When cleaning the wireless unit, gently wipe with a dry soft cloth. Do not use benzine, thinner, conductive grease or the like.
- 25. When storing the wireless unit, keep it in the supplied case or a static-free container.
- 26. Do not insert any devices other than Makita wireless unit into the slot on the tool.
- 27. Do not use the tool with the lid of the slot damaged. Water, dust, and dirt come into the slot may cause malfunction.
- Do not pull and/or twist the lid of the slot more than necessary. Restore the lid if it comes off from the tool.
- 29. Replace the lid of the slot if it is lost or damaged.

#### SAVE THESE INSTRUCTIONS.

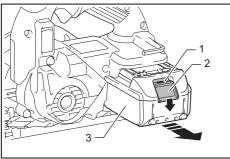
## FUNCTIONAL DESCRIPTION

**ACAUTION:** Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

#### Installing or removing battery cartridge

**ACAUTION:** Always switch off the tool before installing or removing of the battery cartridge.

ACAUTION: Hold the tool and the battery cartridge firmly when installing or removing battery cartridge. Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.



1. Red indicator 2. Button 3. Battery cartridge

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely.

**CAUTION:** Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

**ACAUTION:** Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

#### Tool / battery protection system

The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions.

#### **Overload protection**

When the tool is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart.

#### **Overheat protection**

When the tool is overheated, the tool stops automatically, and the battery indicator blink about 60 seconds. In this situation, let the tool cool down before turning the tool on again.

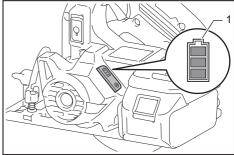
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#### **Overdischarge protection**

When the battery capacity becomes low, the tool stops automatically. If the product does not operate even when the switches are operated, remove the batteries from the tool and charge the batteries.

#### Indicating the remaining battery capacity

When you pull the switch trigger, the battery indicator shows the remaining battery capacity.



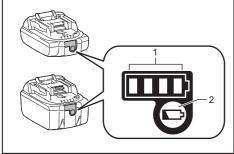
1. Battery indicator

The remaining battery capacity is shown as the following table.

Battery indicator status			Remaining	
On	On Off		battery capacity	
	50% to 100%			
			0% to 20%	

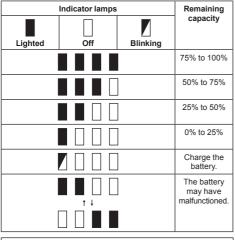
#### Indicating the remaining battery capacity

#### Only for battery cartridges with the indicator



Indicator lamps 2. Check button

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for a few seconds.



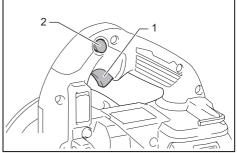
**NOTE:** Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

#### Switch action

**WARNING:** Before installing the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

**WARNING:** NEVER defeat the lock-off button by taping down or some other means. A switch with a negated lock-off button may result in unintentional operation and serious personal injury.

AWARNING: NEVER use the tool if it runs when you simply pull the switch trigger without pressing the lock-off button. A switch in need of repair may result in unintentional operation and serious personal injury. Return tool to a Makita service center for proper repairs BEFORE further usage. To prevent the switch trigger from being accidentally pulled, a lock-off button is provided. To start the tool, depress the lock-off button and pull the switch trigger. Release the switch trigger to stop.



▶ 1. Switch trigger 2. Lock-off button

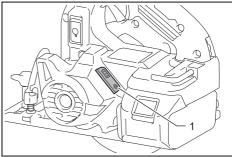
**NOTICE:** Do not pull the switch trigger hard without pressing in the lock-off button. This can cause switch breakage.

**A**CAUTION: The tool starts to brake the circular saw blade rotation immediately after you release the switch trigger. Hold the tool firmly to respond the reaction of the brake when releasing the switch trigger. Sudden reaction can drop the tool off your hand and can cause a personal injury.

#### Automatic speed change function

This tool has "high speed mode" and "high torque mode".

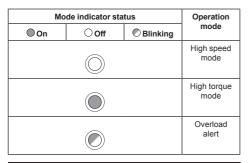
The tool automatically changes the operation mode depending on the work load. When the work load is low, the tool will run in the "high speed mode" for quicker cutting operation. When the work load is high, the tool will run in the "high torque mode" for powerful cutting operation.



Mode indicator

The mode indicator lights up in green when the tool is running in "high torque mode".

If the tool is operated with excessive load, the mode indicator will blink in green. The mode indicator stops blinking and then lights up or turns off if you reduce the load on the tool.

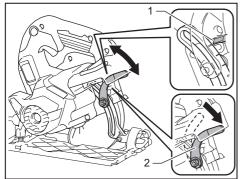


#### Adjusting depth of cut

**ACAUTION:** After adjusting the depth of cut, always tighten the lever securely.

Loosen the lever and move the base up or down to align the pointer with your desired depth on the depth guide. At the desired depth of cut, secure the base by tightening the lever.

For cleaner, safer cuts, set cut depth so that no more than one blade tooth projects below workpiece. Using proper cut depth helps to reduce potential for dangerous KICKBACKS which can cause personal injury.

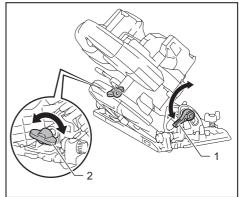


1. Pointer 2. Lever

#### **Bevel cutting**

**A**CAUTION: After adjusting the bevel angle, always tighten the lever and clamping screw securely.

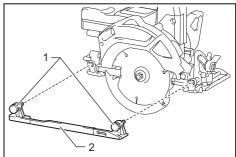
Loosen the lever and clamping screw. Set for the desired angle by tilting accordingly, then tighten the lever and clamping screw securely.



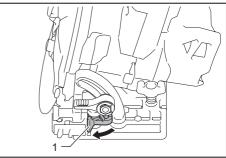
• 1. Lever 2. Clamping screw

With this tool, you can perform -1° to -15° bevel cut which is useful for cutting the border between the floor and wall.

1. Loosen the clamping screws and remove the sub base.



- ▶ 1. Clamping screw 2. Sub base
- 2. Set the depth of cut to the shallowest.
- 3. Loosen the lever and set for the desired angle while turning the stopper lever in the direction of the arrow. After that, tighten the lever.

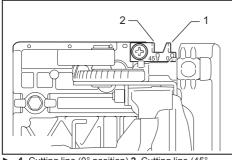


1. Stopper lever

4. Set your designed depth of cut.

#### Sighting

For straight cuts, align the 0° position on the front of the base with your cutting line. For  $45^{\circ}$  bevel cuts, align the  $45^{\circ}$  position with it.

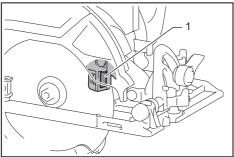


1. Cutting line (0° position) 2. Cutting line (45° position)

#### Lighting the lamp

## **ACAUTION:** Do not look in the light or see the source of light directly.

To turn on the lamp without running the tool, pull the switch trigger without pressing the lock-off button. To turn on the lamp with the tool running, press and hold the lock-off button and pull the switch trigger. The lamp goes out 10 seconds after releasing the switch trigger.



1. Lamp

**NOTE:** Use a dry cloth to wipe the dirt off the lens of the lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.

#### **Electric brake**

This tool is equipped with an electric blade brake. If the tool consistently fails to quickly stop the circular saw blade after switch lever release, have tool serviced at a Makita service center.

**A**CAUTION: The blade brake system is not a substitute for blade guard. NEVER USE TOOL WITHOUT A FUNCTIONING BLADE GUARD. SERIOUS PERSONAL INJURY CAN RESULT.

#### **Electronic function**

The tools equipped with electronic function are easy to operate because of the following feature(s).

#### Soft start feature

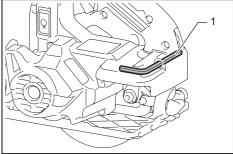
Soft start because of suppressed starting shock.

## ASSEMBLY

**ACAUTION:** Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

#### Hex wrench storage

When not in use, store the hex wrench as shown in the figure to keep it from being lost.



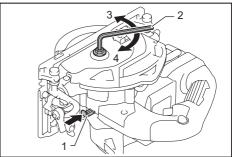
1. Hex wrench

## Removing or installing circular saw blade

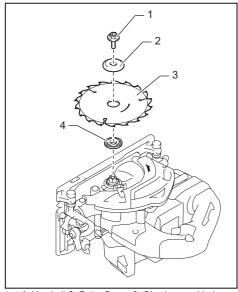
**ACAUTION:** Be sure the circular saw blade is installed with teeth pointing up at the front of the tool.

**ACAUTION:** Use only the Makita wrench to install or remove the circular saw blade.

To remove the circular saw blade, press the shaft lock fully so that the circular saw blade cannot revolve and use the hex wrench to loosen the hex bolt. Then remove the hex bolt, outer flange and circular saw blade.



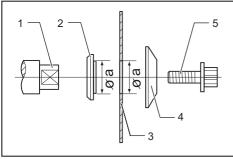
▶ 1. Shaft lock 2. Hex wrench 3. Loosen 4. Tighten



1. Hex bolt 2. Outer flange 3. Circular saw blade
 4. Inner flange

To install the circular saw blade, follow the removal procedure in reverse.

The inner flange has a certain diameter protrusion on one side. Mount the inner flange onto the mounting shaft so that the correct side of protrusion on the inner flange faces outward and then place the circular saw blade and outer flange.



 1. Mounting shaft 2. Inner flange 3. Circular saw blade 4. Outer flange 5. Hex bolt

**AWARNING:** BE SURE TO TIGHTEN THE HEX BOLT CLOCKWISE SECURELY. Also be careful not to tighten the bolt forcibly. Slipping your hand from the hex wrench can cause a personal injury.

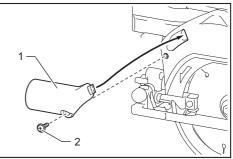
**WARNING:** Make sure that the protrusion "a" on the inner flange that is positioned outside fits into the saw blade hole "a" perfectly. Mounting the blade on the wrong side can result in the dangerous vibration.

#### Blade guard cleaning

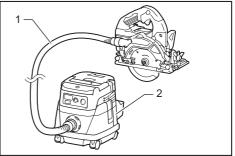
When changing the circular saw blade, make sure to also clean the upper and lower blade guards of accumulated sawdust as discussed in the Maintenance section. Such efforts do not replace the need to check lower guard operation before each use.

#### Connecting a vacuum cleaner

When you wish to perform clean cutting operation, connect a Makita vacuum cleaner to your tool. Connect a hose of the vacuum cleaner to the dust nozzle as shown in the figure.



1. Dust nozzle 2. Screw



▶ 1. Hose 2. Vacuum cleaner

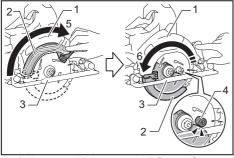
## **OPERATION**

This tool is intended to cut wood products only. Refer to our website or contact your local Makita dealer for the correct circular saw blades to be used for the material to be cut.

#### Checking blade guard function

Set the bevel angle to 0°, and then retract the lower guard manually to the end and release it. The lower guard is properly functioning if;

- it is retracted above the base without any hindrance and;
- it automatically returns and contacts with the stopper.



1. Upper guard 2. Lower guard 3. Base 4. Stopper
5. Open 6. Close

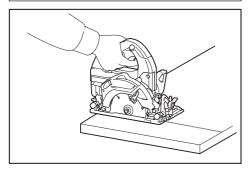
If the lower guard is not functioning properly, check if saw dust is accumulated inside of the upper and lower guards. If the lower guard is not functioning properly even after removing dust, have your tool serviced at a Makita service center.

#### **Cutting operation**

**ACAUTION:** Wear dust mask when performing cutting operation.

**ACAUTION:** Be sure to move the tool forward in a straight line gently. Forcing or twisting the tool will result in overheating the motor and dangerous kickback, possibly causing severe injury.

**NOTE:** When the battery cartridge temperature is low, the tool may not work to its full capacity. At this time, for example, use the tool for a light-duty cut for a while until the battery cartridge warms up as high as room temperature. Then, the tool can work to its full capacity.



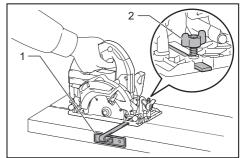
Hold the tool firmly. The tool is provided with both a front grip (motor housing) and rear handle. Use both to best grasp the tool. If both hands are holding saw, they cannot be cut by the circular saw blade. Set the base on the workpiece to be cut without the circular saw blade making any contact. Then turn the tool on and wait until the circular saw blade attains full speed. Now simply move the tool forward over the workpiece surface, keeping it flat and advancing smoothly until the sawing is completed.

To get clean cuts, keep your sawing line straight and your speed of advance uniform. If the cut fails to properly follow your intended cut line, do not attempt to turn or force the tool back to the cut line. Doing so may bind the circular saw blade and lead to dangerous kickback and possible serious injury. Release switch, wait for circular saw blade to stop and then withdraw tool. Realign tool on new cut line, and start cut again. Attempt to avoid positioning which exposes operator to chips and wood dust being ejected from saw. Use eye protection to help avoid injury.

#### Rip fence (Guide rule)

**ACAUTION:** Make sure that the rip fence is securely installed in the correct position before use. Improper attachment may cause dangerous kickback.

The handy rip fence allows you to do extra-accurate straight cuts. Simply slide the rip fence up snugly against the side of the workpiece and secure it in position with the clamping screw on the front of the base. It also makes repeated cuts of uniform width possible.



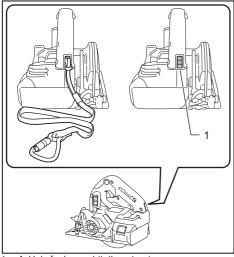
▶ 1. Rip fence (Guide rule) 2. Clamping screw

#### Lanyard (tether strap) connection

Asafety warnings specific for use at height Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in serious injury.

- 1. Always keep the tool tethered when working "at height". Maximum lanyard length is 2 m (6.5 ft).
- 2. Use only with lanyards appropriate for this tool type and rated for at least 3.0 kg (6.6 lbs).
- 3. Do not anchor the tool lanyard to anything on your body or on movable components. Anchor the tool lanyard to a rigid structure that can withstand the forces of a dropped tool.

- 4. Make sure the lanyard is properly secured at each end prior to use.
- Inspect the tool and lanyard before each use for damage and proper function (including fabric and stitching). Do not use if damaged or not functioning properly.
- 6. Do not wrap lanyards around or allow them to come in contact with sharp or rough edges.
- 7. Fasten the other end of the lanyard outside the working area so that a falling tool is held securely.
- Attach the lanyard so that the tool will move away from the operator if it falls. Dropped tools will swing on the lanyard, which could cause injury or loss of balance.
- 9. Do not use near moving parts or running machinery. Failure to do so may result in a crush or entanglement hazard.
- 10. Do not carry the tool by the attachment device or the lanyard.
- 11. Only transfer the tool between your hands while you are properly balanced.
- 12. Do not attach lanyards to the tool in a way that keeps guards, switches or lock-offs from operating properly.
- 13. Avoid getting tangled in the lanyard.
- 14. Keep lanyard away from the cutting area of the tool.
- 15. Use multi-action and screw gate type carabineers. Do not use single action spring clip carabineers.
- 16. In the event the tool is dropped, it must be tagged and removed from service, and should be inspected by a Makita Factory or Authorized Service Center.

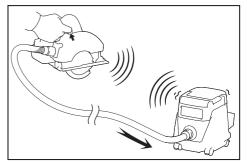


Hole for lanyard (tether strap)

## WIRELESS ACTIVATION FUNCTION

#### What you can do with the wireless activation function

The wireless activation function enables clean and comfortable operation. By connecting a supported vacuum cleaner to the tool, you can run the vacuum cleaner automatically along with the switch operation of the tool.



To use the wireless activation function, prepare following items:

- A wireless unit (optional accessory)
- A vacuum cleaner which supports the wireless activation function

The overview of the wireless activation function setting is as follows. Refer to each section for detail procedures.

- 1. Installing the wireless unit
- 2. Tool registration for the vacuum cleaner
- 3. Starting the wireless activation function

#### Installing the wireless unit

#### **Optional accessory**

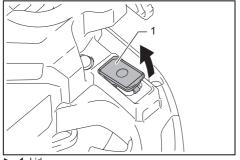
**ACAUTION:** Place the tool on a flat and stable surface when installing the wireless unit.

**NOTICE:** Clean the dust and dirt on the tool before installing the wireless unit. Dust or dirt may cause malfunction if it comes into the slot of the wireless unit.

**NOTICE:** To prevent the malfunction caused by static, touch a static discharging material, such as a metal part of the tool, before picking up the wireless unit.

**NOTICE:** When installing the wireless unit, always be sure that the wireless unit is inserted in the correct direction and the lid is completely closed.

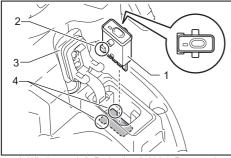
1. Open the lid on the tool as shown in the figure.



1. Lid

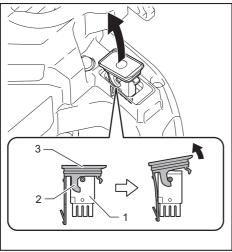
**2.** Insert the wireless unit to the slot and then close the lid.

When inserting the wireless unit, align the projections with the recessed portions on the slot.



 1. Wireless unit 2. Projection 3. Lid 4. Recessed portion

When removing the wireless unit, open the lid slowly. The hooks on the back of the lid will lift the wireless unit as you pull up the lid.



▶ 1. Wireless unit 2. Hook 3. Lid

After removing the wireless unit, keep it in the supplied case or a static-free container.

**NOTICE:** Always use the hooks on the back of the lid when removing the wireless unit. If the hooks do not catch the wireless unit, close the lid completely and open it slowly again.

# Tool registration for the vacuum cleaner

**NOTE:** A Makita vacuum cleaner supporting the wireless activation function is required for the tool registration.

**NOTE:** Finish installing the wireless unit to the tool before starting the tool registration.

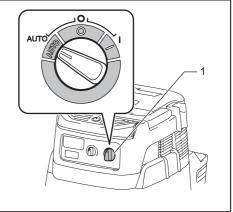
**NOTE:** During the tool registration, do not pull the switch trigger or turn on the power switch on the vacuum cleaner.

**NOTE:** Refer to the instruction manual of the vacuum cleaner, too.

If you wish to activate the vacuum cleaner along with the switch operation of the tool, finish the tool registration beforehand.

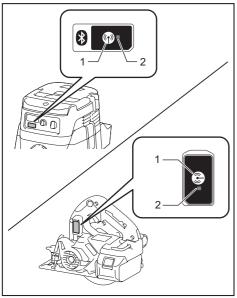
1. Install the batteries to the vacuum cleaner and the tool.

**2.** Set the stand-by switch on the vacuum cleaner to "AUTO".



1. Stand-by switch

**3.** Press the wireless activation button on the vacuum cleaner for 3 seconds until the wireless activation lamp blinks in green. And then press the wireless activation button on the tool in the same way.



 1. Wireless activation button 2. Wireless activation lamp

If the vacuum cleaner and the tool are linked successfully, the wireless activation lamps will light up in green for 2 seconds and start blinking in blue.

**NOTE:** The wireless activation lamps finish blinking in green after 20 seconds elapsed. Press the wireless activation button on the tool while the wireless activation lamp on the cleaner is blinking. If the wireless activation lamp does not blink in green, push the wireless activation button briefly and hold it down again.

**NOTE:** When performing two or more tool registrations for one vacuum cleaner, finish the tool registration one by one.

# Starting the wireless activation function

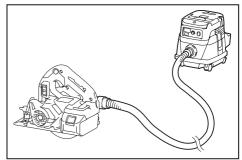
**NOTE:** Finish the tool registration for the vacuum cleaner prior to the wireless activation.

**NOTE:** Refer to the instruction manual of the vacuum cleaner, too.

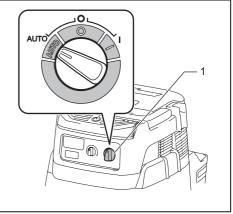
After registering a tool to the vacuum cleaner, the vacuum cleaner will automatically runs along with the switch operation of the tool.

1. Install the wireless unit to the tool.

**2.** Connect the hose of the vacuum cleaner with the tool.

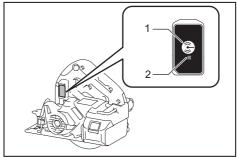


**3.** Set the stand-by switch on the vacuum cleaner to "AUTO".



1. Stand-by switch

**4.** Push the wireless activation button on the tool briefly. The wireless activation lamp will blink in blue.



 1. Wireless activation button 2. Wireless activation lamp

5. Pull the switch trigger of the tool. Check if the vacuum cleaner runs while the switch trigger is being pulled.

To stop the wireless activation of the vacuum cleaner, push the wireless activation button on the tool.

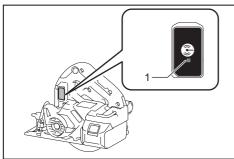
NOTE: The wireless activation lamp on the tool will stop blinking in blue when there is no operation for 2 hours. In this case, set the stand-by switch on the vacuum cleaner to "AUTO" and push the wireless activation button on the tool again.

**NOTE:** The vacuum cleaner starts/stops with a delay. There is a time lag when the vacuum cleaner detects a switch operation of the tool.

**NOTE:** The transmission distance of the wireless unit may vary depending on the location and surrounding circumstances.

**NOTE:** When two or more tools are registered to one vacuum cleaner, the vacuum cleaner may start running even if you don't pull the switch trigger because another user is using the wireless activation function.

#### Description of the wireless activation lamp status



▶ 1. Wireless activation lamp

The wireless activation lamp shows the status of the wireless activation function. Refer to the table below for the meaning of the lamp status.

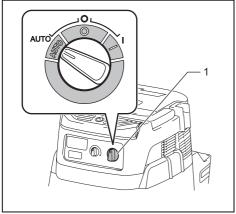
Status	Wireless activation lamp			Description	
	Color	Dn	Blinking	Duration	
Standby	Blue			2 hours	The wireless activation of the vacuum cleaner is available. The lamp will automatically turn off when no operation is performed for 2 hours.
				When the tool is running.	The wireless activation of the vacuum cleaner is available and the tool is running.
Tool registration	Green			20 seconds	Ready for the tool registration. Waiting for the registration by the vacuum cleaner.
				2 seconds	The tool registration has been finished. The wireless activation lamp will start blinking in blue.
Cancelling tool	Red			20 seconds	Ready for the cancellation of the tool registration. Waiting for the cancellation by the vacuum cleaner.
registration				2 seconds	The cancellation of the tool registration has been finished. The wireless activation lamp will start blinking in blue.
Others	Red			3 seconds	The power is supplied to the wireless unit and the wireless activa- tion function is starting up.
	Off			-	The wireless activation of the vacuum cleaner is stopped.

# Cancelling tool registration for the vacuum cleaner

Perform the following procedure when cancelling the tool registration for the vacuum cleaner.

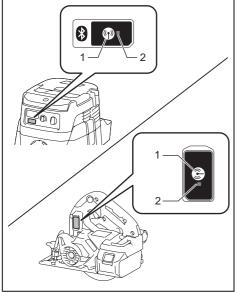
1. Install the batteries to the vacuum cleaner and the tool.

**2.** Set the stand-by switch on the vacuum cleaner to "AUTO".



1. Stand-by switch

3. Press the wireless activation button on the vacuum cleaner for 6 seconds. The wireless activation lamp blinks in green and then become red. After that, press the wireless activation button on the tool in the same way.



 1. Wireless activation button 2. Wireless activation lamp

If the cancellation is performed successfully, the wireless activation lamps will light up in red for 2 seconds and start blinking in blue.

**NOTE:** The wireless activation lamps finish blinking in red after 20 seconds elapsed. Press the wireless activation button on the tool while the wireless activation lamp on the cleaner is blinking. If the wireless activation lamp does not blink in red, push the wireless activation button briefly and hold it down again.

#### Troubleshooting for wireless activation function

Before asking for repairs, conduct your own inspection first. If you find a problem that is not explained in the manual, do not attempt to dismantle the tool. Instead, ask Makita Authorized Service Centers, always using Makita replacement parts for repairs.

State of abnormality	Probable cause (malfunction)	Remedy	
The wireless activation lamp does not light/blink.	The wireless unit is not installed into the tool. The wireless unit is improperly installed into the tool.	Install the wireless unit correctly.	
	The terminal of the wireless unit and/or the slot is dirty.	Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot.	
	The wireless activation button on the tool has not been pushed.	Push the wireless activation button on the tool briefly.	
	The stand-by switch on the vacuum cleaner is not set to "AUTO".	Set the stand-by switch on the vacuum cleaner to "AUTO".	
	No power supply	Supply the power to the tool and the vacuum cleaner.	
Cannot finish tool registration / can- celling tool registration successfully.	The wireless unit is not installed into the tool. The wireless unit is improperly installed into the tool.	Install the wireless unit correctly.	
	The terminal of the wireless unit and/or the slot is dirty.	Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot.	
	The stand-by switch on the vacuum cleaner is not set to "AUTO".	Set the stand-by switch on the vacuum cleaner to "AUTO".	
	No power supply	Supply the power to the tool and the vacuum cleaner.	
	Incorrect operation	Push the wireless activation button briefly and perform the tool registration/cancellation procedures again.	
	The tool and vacuum cleaner are away from each other (out of the transmission range).	Get the tool and vacuum cleaner closer to each other. The maximum transmission distance is approximately 10 m however it may vary according to the circumstances.	
	Before finishing the tool registration/ cancellation; - the switch trigger on the tool is pulled or; - the power button on the vacuum cleaner is turned on.	Push the wireless activation button briefly and perform the tool registration/cancellation procedures again.	
	The tool registration procedures for the tool or vacuum cleaner have not finished.	Perform the tool registration procedures for both the tool and the vacuum cleaner at the same timing.	
	Radio disturbance by other appliances which generate high-intensity radio waves.	Keep the tool and vacuum cleaner away from the appli- ances such as Wi-Fi devices and microwave ovens.	
The vacuum cleaner does not run along with the switch operation of the tool.	The wireless unit is not installed into the tool. The wireless unit is improperly installed into the tool.	Install the wireless unit correctly.	
	The terminal of the wireless unit and/or the slot is dirty.	Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot.	
	The wireless activation button on the tool has not been pushed.	Push the wireless activation button briefly and make sure that the wireless activation lamp is blinking in blue.	
	The stand-by switch on the vacuum cleaner is not set to "AUTO".	Set the stand-by switch on the vacuum cleaner to "AUTO".	
	More than 10 tools are registered to the vacuum cleaner.	Perform the tool registration again. If more than 10 tools are registered to the vacuum cleaner, the tool registered earliest will be cancelled automatically.	
	The vacuum cleaner erased all tool registrations.	Perform the tool registration again.	
	No power supply	Supply the power to the tool and the vacuum cleaner.	
	The tool and vacuum cleaner are away from each other (out of the transmission range).	Get the tool and vacuum cleaner closer each other. The maximum transmission distance is approximately 10 m however it may vary according to the circumstances.	
	Radio disturbance by other appliances which generate high-intensity radio waves.	Keep the tool and vacuum cleaner away from the appli- ances such as Wi-Fi devices and microwave ovens.	
The vacuum cleaner runs while the tool's switch trigger is not pulled.	Other users are using the wireless activation of the vacuum cleaner with their tools.	Turn off the wireless activation button of the other tools or cancel the tool registration of the other tools.	

## MAINTENANCE

**A**CAUTION: Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.

ACAUTION: Clean out the upper and lower guards to ensure there is no accumulated sawdust which may impede the operation of the lower guarding system. A dirty guarding system may limit the proper operation which could result in serious personal injury. The most effective way to accomplish this cleaning is with compressed air. If the dust is being blown out of the guards, be sure the proper eye and breathing protection is used.

**ACAUTION:** After each use, wipe off the saw dust on the tool. Fine saw dust may come inside the tool and cause malfunction or a fire.

**NOTICE:** Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

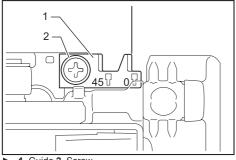
#### Adjusting sighting

Adjust the sighting if the cut result deviates from your intended cutting line.

**1.** Set the circular saw blade upright position (0° bevel angle).

**2.** Loosen the screw on the guide and align the 0° position of the guide with the actual cutting edge.

3. Tighten the screw and make a test cut.



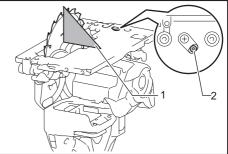
1. Guide 2. Screw

#### Adjusting 0°-cut accuracy

This adjustment has been made at the factory. But if it is off, you can adjust it as the following procedure.

**1.** Loosen the lever on the bevel scale plate and clamping screw.

2. Make the base perpendicular to the circular saw blade using a triangular rule or square rule by turning the adjusting bolt.



▶ 1. Triangular rule 2. Adjusting bolt

**3.** Tighten the lever and clamping screw. Then make a test cut to check the verticalness.

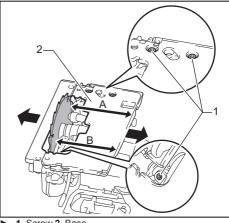
#### Adjusting the parallelism

This adjustment has been made at the factory. But if it is off, you can adjust it as the following procedure.

1. Set the tool to the maximum cutting depth.

**2.** Make sure all levers and screws are tightened. Slightly loosen the screws illustrated.

**3.** While opening the lower guard, move the rear of the base so that the distance A and B becomes equal.



1. Screw 2. Base

**4.** Tighten the screws and make a test cut to check the parallelism.

## OPTIONAL ACCESSORIES

ACAUTION: These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Circular saw blade
- Rip fence (Guide rule)
- Dust nozzle
- Hex wrench
- Wireless unit
- Makita genuine battery and charger

**NOTE:** Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

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